TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
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Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-62384-1
Client Project/Site: AMTRAK - ISS

For:
Stantec Consulting Corp.
4035 King Road, Suite D
Sylvania, Ohio 43560

Attn: David Schroder

Authorized for release by:
1/24/2017 10:37:00 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-62384-1

Laboratory: TestAmerica Pittsburgh

Narrative

CASE NARRATIVE

Client: Stantec Consulting Corp.

Project: AMTRAK - ISS

Report Number: 180-62384-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 1/10/2017 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.6º C, 2.6º C and 3.3º C.

As per client request the following samples were canceled: E4S5-F (180-62384-2), E2S2-F (180-62384-4), C-30-F (180-62384-6), E1S3-F (180-62384-8), E4S3-F (180-62384-10) and E3S5-F (180-62384-12).

DRO
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PCB
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	02-00416	04-30-17

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2927	04-30-17 *
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17 *
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-17
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17 *
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17 *
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-18
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

Sample Summary

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-62384-1	E4S5-U	Water	01/06/17 16:30	01/10/17 09:20
180-62384-3	E2S2-U	Water	01/06/17 16:45	01/10/17 09:20
180-62384-5	C-30-U	Water	01/06/17 17:00	01/10/17 09:20
180-62384-7	E1S3-U	Water	01/09/17 12:45	01/10/17 09:20
180-62384-9	E4S3-U	Water	01/09/17 13:00	01/10/17 09:20
180-62384-11	E3S5-U	Water	01/09/17 13:15	01/10/17 09:20
180-62384-13	C-B-30	Water	01/09/17 13:30	01/10/17 09:20

Method Summary

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Method	Method Description	Protocol	Laboratory
8015D	Diesel Range Organics (DRO) (GC)	SW846	TAL CAN
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Client Sample ID: E4S5-U
Date Collected: 01/06/17 16:30
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050 mL	5 mL	262752	01/13/17 08:28	KEH	TAL CAN
Total/NA	Analysis	8015D		1			263551	01/19/17 18:32	DEB	TAL CAN
	Instrument ID:	A2HP5R								
Total/NA	Prep	3510C			1060 mL	1.0 mL	199611	01/11/17 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			199653	01/12/17 14:10	JMO	TAL PIT
	Instrument ID:	CHGC16								

Client Sample ID: E2S2-U
Date Collected: 01/06/17 16:45
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	5 mL	262752	01/13/17 08:28	KEH	TAL CAN
Total/NA	Analysis	8015D		1			263551	01/19/17 18:59	DEB	TAL CAN
	Instrument ID:	A2HP5R								
Total/NA	Prep	3510C			1020 mL	1.0 mL	199611	01/11/17 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			199653	01/12/17 15:26	JMO	TAL PIT
	Instrument ID:	CHGC16								

Client Sample ID: C-30-U
Date Collected: 01/06/17 17:00
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1020 mL	5 mL	262752	01/13/17 08:28	KEH	TAL CAN
Total/NA	Analysis	8015D		1			263551	01/19/17 19:27	DEB	TAL CAN
	Instrument ID:	A2HP5R								
Total/NA	Prep	3510C			1020 mL	1.0 mL	199611	01/11/17 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			199653	01/12/17 15:45	JMO	TAL PIT
	Instrument ID:	CHGC16								

Client Sample ID: E1S3-U
Date Collected: 01/09/17 12:45
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	5 mL	262752	01/13/17 08:28	KEH	TAL CAN
Total/NA	Analysis	8015D		1			263551	01/19/17 19:55	DEB	TAL CAN
	Instrument ID:	A2HP5R								
Total/NA	Prep	3510C			1020 mL	1.0 mL	199611	01/11/17 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			199653	01/12/17 16:04	JMO	TAL PIT
	Instrument ID:	CHGC16								

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Client Sample ID: E4S3-U
Date Collected: 01/09/17 13:00
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1010 mL	5 mL	262752	01/13/17 08:28	KEH	TAL CAN
Total/NA	Analysis	8015D		1			263551	01/19/17 20:24	DEB	TAL CAN
	Instrument ID:	A2HP5R								
Total/NA	Prep	3510C			1020 mL	1.0 mL	199611	01/11/17 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			199653	01/12/17 16:23	JMO	TAL PIT
	Instrument ID:	CHGC16								

Client Sample ID: E3S5-U
Date Collected: 01/09/17 13:15
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	5 mL	262752	01/13/17 08:28	KEH	TAL CAN
Total/NA	Analysis	8015D		1			263551	01/19/17 20:51	DEB	TAL CAN
	Instrument ID:	A2HP5R								
Total/NA	Prep	3510C			1020 mL	1.0 mL	199611	01/11/17 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			199653	01/12/17 16:42	JMO	TAL PIT
	Instrument ID:	CHGC16								

Client Sample ID: C-B-30
Date Collected: 01/09/17 13:30
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1050 mL	5 mL	262752	01/13/17 08:28	KEH	TAL CAN
Total/NA	Analysis	8015D		1			263551	01/19/17 21:19	DEB	TAL CAN
	Instrument ID:	A2HP5R								
Total/NA	Prep	3510C			1050 mL	1.0 mL	199611	01/11/17 14:00	CBY	TAL PIT
Total/NA	Analysis	8082A		1			199653	01/12/17 17:03	JMO	TAL PIT
	Instrument ID:	CHGC16								

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Analyst References:

Lab: TAL CAN

Batch Type: Prep

KEH = Kaitlin Harper

Batch Type: Analysis

DEB = Deborah Bolgrin

Lab: TAL PIT

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

JMO = John Oravec

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Client Sample ID: E4S5-U

Lab Sample ID: 180-62384-1
Date Collected: 01/06/17 16:30
Matrix: Water
Date Received: 01/10/17 09:20

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	1900		480	180	ug/L		01/13/17 08:28	01/19/17 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*79*		*37 - 130*	*01/13/17 08:28*	*01/19/17 18:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0094	0.0032	ug/L		01/11/17 14:00	01/12/17 14:10	1
PCB-1221	ND		0.0094	0.0086	ug/L		01/11/17 14:00	01/12/17 14:10	1
PCB-1232	ND		0.0094	0.0031	ug/L		01/11/17 14:00	01/12/17 14:10	1
PCB-1242	ND		0.0094	0.0088	ug/L		01/11/17 14:00	01/12/17 14:10	1
PCB-1248	ND		0.0094	0.0065	ug/L		01/11/17 14:00	01/12/17 14:10	1
PCB-1254	ND		0.0094	0.0047	ug/L		01/11/17 14:00	01/12/17 14:10	1
PCB-1260	ND		0.0094	0.0054	ug/L		01/11/17 14:00	01/12/17 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*70*		*26 - 142*	*01/11/17 14:00*	*01/12/17 14:10*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*26 - 142*	*01/11/17 14:00*	*01/12/17 14:10*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*16 - 150*	*01/11/17 14:00*	*01/12/17 14:10*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*16 - 150*	*01/11/17 14:00*	*01/12/17 14:10*	*1*

Client Sample ID: E2S2-U

Lab Sample ID: 180-62384-3
Date Collected: 01/06/17 16:45
Matrix: Water
Date Received: 01/10/17 09:20

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	2200		500	190	ug/L		01/13/17 08:28	01/19/17 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*75*		*37 - 130*	*01/13/17 08:28*	*01/19/17 18:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0098	0.0034	ug/L		01/11/17 14:00	01/12/17 15:26	1
PCB-1221	ND		0.0098	0.0090	ug/L		01/11/17 14:00	01/12/17 15:26	1
PCB-1232	ND		0.0098	0.0033	ug/L		01/11/17 14:00	01/12/17 15:26	1
PCB-1242	ND		0.0098	0.0092	ug/L		01/11/17 14:00	01/12/17 15:26	1
PCB-1248	ND		0.0098	0.0067	ug/L		01/11/17 14:00	01/12/17 15:26	1
PCB-1254	ND		0.0098	0.0049	ug/L		01/11/17 14:00	01/12/17 15:26	1
PCB-1260	ND		0.0098	0.0056	ug/L		01/11/17 14:00	01/12/17 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*75*		*26 - 142*	*01/11/17 14:00*	*01/12/17 15:26*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*26 - 142*	*01/11/17 14:00*	*01/12/17 15:26*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*16 - 150*	*01/11/17 14:00*	*01/12/17 15:26*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*16 - 150*	*01/11/17 14:00*	*01/12/17 15:26*	*1*

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Client Sample ID: C-30-U

Lab Sample ID: 180-62384-5
Matrix: Water

Date Collected: 01/06/17 17:00
Date Received: 01/10/17 09:20

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	ND		490	190	ug/L		01/13/17 08:28	01/19/17 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*71*		*37 - 130*	*01/13/17 08:28*	*01/19/17 19:27*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0098	0.0034	ug/L		01/11/17 14:00	01/12/17 15:45	1
PCB-1221	ND		0.0098	0.0090	ug/L		01/11/17 14:00	01/12/17 15:45	1
PCB-1232	ND		0.0098	0.0033	ug/L		01/11/17 14:00	01/12/17 15:45	1
PCB-1242	ND		0.0098	0.0092	ug/L		01/11/17 14:00	01/12/17 15:45	1
PCB-1248	ND		0.0098	0.0067	ug/L		01/11/17 14:00	01/12/17 15:45	1
PCB-1254	ND		0.0098	0.0049	ug/L		01/11/17 14:00	01/12/17 15:45	1
PCB-1260	ND		0.0098	0.0056	ug/L		01/11/17 14:00	01/12/17 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*83*		*26 - 142*	*01/11/17 14:00*	*01/12/17 15:45*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*26 - 142*	*01/11/17 14:00*	*01/12/17 15:45*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*16 - 150*	*01/11/17 14:00*	*01/12/17 15:45*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*16 - 150*	*01/11/17 14:00*	*01/12/17 15:45*	*1*

Client Sample ID: E1S3-U

Lab Sample ID: 180-62384-7
Matrix: Water

Date Collected: 01/09/17 12:45
Date Received: 01/10/17 09:20

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	**3900**		500	190	ug/L		01/13/17 08:28	01/19/17 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*89*		*37 - 130*	*01/13/17 08:28*	*01/19/17 19:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0098	0.0034	ug/L		01/11/17 14:00	01/12/17 16:04	1
PCB-1221	ND		0.0098	0.0090	ug/L		01/11/17 14:00	01/12/17 16:04	1
PCB-1232	ND		0.0098	0.0033	ug/L		01/11/17 14:00	01/12/17 16:04	1
PCB-1242	ND		0.0098	0.0092	ug/L		01/11/17 14:00	01/12/17 16:04	1
PCB-1248	ND		0.0098	0.0067	ug/L		01/11/17 14:00	01/12/17 16:04	1
PCB-1254	ND		0.0098	0.0049	ug/L		01/11/17 14:00	01/12/17 16:04	1
PCB-1260	ND		0.0098	0.0056	ug/L		01/11/17 14:00	01/12/17 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*72*		*26 - 142*	*01/11/17 14:00*	*01/12/17 16:04*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*26 - 142*	*01/11/17 14:00*	*01/12/17 16:04*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*16 - 150*	*01/11/17 14:00*	*01/12/17 16:04*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*16 - 150*	*01/11/17 14:00*	*01/12/17 16:04*	*1*

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Client Sample ID: E4S3-U

Lab Sample ID: 180-62384-9
Date Collected: 01/09/17 13:00
Matrix: Water
Date Received: 01/10/17 09:20

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	ND		500	190	ug/L		01/13/17 08:28	01/19/17 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*80*		*37 - 130*	*01/13/17 08:28*	*01/19/17 20:24*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0098	0.0034	ug/L		01/11/17 14:00	01/12/17 16:23	1
PCB-1221	ND		0.0098	0.0090	ug/L		01/11/17 14:00	01/12/17 16:23	1
PCB-1232	ND		0.0098	0.0033	ug/L		01/11/17 14:00	01/12/17 16:23	1
PCB-1242	ND		0.0098	0.0092	ug/L		01/11/17 14:00	01/12/17 16:23	1
PCB-1248	ND		0.0098	0.0067	ug/L		01/11/17 14:00	01/12/17 16:23	1
PCB-1254	ND		0.0098	0.0049	ug/L		01/11/17 14:00	01/12/17 16:23	1
PCB-1260	ND		0.0098	0.0056	ug/L		01/11/17 14:00	01/12/17 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*66*		*26 - 142*	*01/11/17 14:00*	*01/12/17 16:23*	*1*
Tetrachloro-m-xylene (Surr)	*57*		*26 - 142*	*01/11/17 14:00*	*01/12/17 16:23*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*16 - 150*	*01/11/17 14:00*	*01/12/17 16:23*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*16 - 150*	*01/11/17 14:00*	*01/12/17 16:23*	*1*

Client Sample ID: E3S5-U

Lab Sample ID: 180-62384-11
Date Collected: 01/09/17 13:15
Matrix: Water
Date Received: 01/10/17 09:20

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	**4500**		500	190	ug/L		01/13/17 08:28	01/19/17 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*37 - 130*	*01/13/17 08:28*	*01/19/17 20:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0098	0.0034	ug/L		01/11/17 14:00	01/12/17 16:42	1
PCB-1221	ND		0.0098	0.0090	ug/L		01/11/17 14:00	01/12/17 16:42	1
PCB-1232	ND		0.0098	0.0033	ug/L		01/11/17 14:00	01/12/17 16:42	1
PCB-1242	ND		0.0098	0.0092	ug/L		01/11/17 14:00	01/12/17 16:42	1
PCB-1248	ND		0.0098	0.0067	ug/L		01/11/17 14:00	01/12/17 16:42	1
PCB-1254	ND		0.0098	0.0049	ug/L		01/11/17 14:00	01/12/17 16:42	1
PCB-1260	ND		0.0098	0.0056	ug/L		01/11/17 14:00	01/12/17 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*87*		*26 - 142*	*01/11/17 14:00*	*01/12/17 16:42*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*26 - 142*	*01/11/17 14:00*	*01/12/17 16:42*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*16 - 150*	*01/11/17 14:00*	*01/12/17 16:42*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*16 - 150*	*01/11/17 14:00*	*01/12/17 16:42*	*1*

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

Client Sample ID: C-B-30

Date Collected: 01/09/17 13:30
Date Received: 01/10/17 09:20

Lab Sample ID: 180-62384-13

Matrix: Water

Method: 8015D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	ND		480	180	ug/L		01/13/17 08:28	01/19/17 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*82*		*37 - 130*	*01/13/17 08:28*	*01/19/17 21:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0095	0.0033	ug/L		01/11/17 14:00	01/12/17 17:03	1
PCB-1221	ND		0.0095	0.0087	ug/L		01/11/17 14:00	01/12/17 17:03	1
PCB-1232	ND		0.0095	0.0032	ug/L		01/11/17 14:00	01/12/17 17:03	1
PCB-1242	ND		0.0095	0.0089	ug/L		01/11/17 14:00	01/12/17 17:03	1
PCB-1248	ND		0.0095	0.0065	ug/L		01/11/17 14:00	01/12/17 17:03	1
PCB-1254	ND		0.0095	0.0047	ug/L		01/11/17 14:00	01/12/17 17:03	1
PCB-1260	ND		0.0095	0.0055	ug/L		01/11/17 14:00	01/12/17 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*82*		*26 - 142*	*01/11/17 14:00*	*01/12/17 17:03*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*26 - 142*	*01/11/17 14:00*	*01/12/17 17:03*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*16 - 150*	*01/11/17 14:00*	*01/12/17 17:03*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*16 - 150*	*01/11/17 14:00*	*01/12/17 17:03*	*1*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 240-262752/8-A
Matrix: Water
Analysis Batch: 263551

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 262752

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C32	ND		500	190	ug/L		01/13/17 08:28	01/19/17 17:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*72*		*37 - 130*	*01/13/17 08:28*	*01/19/17 17:36*	*1*

Lab Sample ID: LCS 240-262752/9-A
Matrix: Water
Analysis Batch: 263551

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 262752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel	2500	1860		ug/L		74	56 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*74*		*37 - 130*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-199611/1-A
Matrix: Water
Analysis Batch: 199653

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 199611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010	0.0034	ug/L		01/11/17 14:00	01/12/17 13:51	1
PCB-1221	ND		0.010	0.0092	ug/L		01/11/17 14:00	01/12/17 13:51	1
PCB-1232	ND		0.010	0.0033	ug/L		01/11/17 14:00	01/12/17 13:51	1
PCB-1242	ND		0.010	0.0093	ug/L		01/11/17 14:00	01/12/17 13:51	1
PCB-1248	ND		0.010	0.0069	ug/L		01/11/17 14:00	01/12/17 13:51	1
PCB-1254	ND		0.010	0.0050	ug/L		01/11/17 14:00	01/12/17 13:51	1
PCB-1260	ND		0.010	0.0057	ug/L		01/11/17 14:00	01/12/17 13:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*88*		*26 - 142*	*01/11/17 14:00*	*01/12/17 13:51*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*26 - 142*	*01/11/17 14:00*	*01/12/17 13:51*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*16 - 150*	*01/11/17 14:00*	*01/12/17 13:51*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*16 - 150*	*01/11/17 14:00*	*01/12/17 13:51*	*1*

Lab Sample ID: LCS 180-199611/2-A
Matrix: Water
Analysis Batch: 199653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	0.807		ug/L		81	58 - 120
PCB-1260	1.00	0.761		ug/L		76	54 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*85*		*26 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 180-199611/2-A
Matrix: Water
Analysis Batch: 199653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 199611

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*81*		*26 - 142*
DCB Decachlorobiphenyl (Surr)	*95*		*16 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*16 - 150*

Lab Sample ID: LCSD 180-199611/3-A
Matrix: Water
Analysis Batch: 199653

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 199611

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	0.812		ug/L		81	58 - 120	1	27
PCB-1260			1.00	0.753		ug/L		75	54 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	*82*		*26 - 142*
Tetrachloro-m-xylene (Surr)	*79*		*26 - 142*
DCB Decachlorobiphenyl (Surr)	*88*		*16 - 150*
DCB Decachlorobiphenyl (Surr)	*87*		*16 - 150*

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: AMTRAK - ISS

TestAmerica Job ID: 180-62384-1

GC Semi VOA

Prep Batch: 199611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-62384-1	E4S5-U	Total/NA	Water	3510C	
180-62384-3	E2S2-U	Total/NA	Water	3510C	
180-62384-5	C-30-U	Total/NA	Water	3510C	
180-62384-7	E1S3-U	Total/NA	Water	3510C	
180-62384-9	E4S3-U	Total/NA	Water	3510C	
180-62384-11	E3S5-U	Total/NA	Water	3510C	
180-62384-13	C-B-30	Total/NA	Water	3510C	
MB 180-199611/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-199611/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-199611/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 199653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-62384-1	E4S5-U	Total/NA	Water	8082A	199611
180-62384-3	E2S2-U	Total/NA	Water	8082A	199611
180-62384-5	C-30-U	Total/NA	Water	8082A	199611
180-62384-7	E1S3-U	Total/NA	Water	8082A	199611
180-62384-9	E4S3-U	Total/NA	Water	8082A	199611
180-62384-11	E3S5-U	Total/NA	Water	8082A	199611
180-62384-13	C-B-30	Total/NA	Water	8082A	199611
MB 180-199611/1-A	Method Blank	Total/NA	Water	8082A	199611
LCS 180-199611/2-A	Lab Control Sample	Total/NA	Water	8082A	199611
LCSD 180-199611/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	199611

Prep Batch: 262752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-62384-1	E4S5-U	Total/NA	Water	3520C	
180-62384-3	E2S2-U	Total/NA	Water	3520C	
180-62384-5	C-30-U	Total/NA	Water	3520C	
180-62384-7	E1S3-U	Total/NA	Water	3520C	
180-62384-9	E4S3-U	Total/NA	Water	3520C	
180-62384-11	E3S5-U	Total/NA	Water	3520C	
180-62384-13	C-B-30	Total/NA	Water	3520C	
MB 240-262752/8-A	Method Blank	Total/NA	Water	3520C	
LCS 240-262752/9-A	Lab Control Sample	Total/NA	Water	3520C	

Analysis Batch: 263551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-62384-1	E4S5-U	Total/NA	Water	8015D	262752
180-62384-3	E2S2-U	Total/NA	Water	8015D	262752
180-62384-5	C-30-U	Total/NA	Water	8015D	262752
180-62384-7	E1S3-U	Total/NA	Water	8015D	262752
180-62384-9	E4S3-U	Total/NA	Water	8015D	262752
180-62384-11	E3S5-U	Total/NA	Water	8015D	262752
180-62384-13	C-B-30	Total/NA	Water	8015D	262752
MB 240-262752/8-A	Method Blank	Total/NA	Water	8015D	262752
LCS 240-262752/9-A	Lab Control Sample	Total/NA	Water	8015D	262752

TestAmerica Canton
4101 Shuffel Street, N. W.
North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

Chain of Custody Record

046372

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: David Schroder	Site Contact:	Date:	COC No:
Company Name: STANTEC	Tel/Fax:	Lab Contact: Terry Wasmuth	Carrier:	1 of 2 COCs
Address: 4035 King Rd Suite D	Analysis Turnaround Time			Sampler:
City/State/Zip: Sylvania, OH	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (419) 843-1518	TAT if different from Below _____			
Fax:	☐ 2 weeks			
Project Name: Amtrak - FSS	☐ 1 week			
Site: ~~24134~~	☐ 2 days			
PO# 213402048.400	☐ 1 day			

180-62384 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPH DRO (8015)	PCBs 8082 Low Level	Sample Specific Notes:
E455-U	11/6/17	1630	G	W	2	N		X	X	
E455-F	11/6/17	1630	G	W	1	N			X	See Below
E252-U	11/6/17	1645	G	W	2	N		X	X	
E252-F	11/6/17	1647	G	W	1	N			X	See Below
C-30-U	11/6/17	1700	G	W	2	N		X	X	
C-30-F	11/6/17	1700	G	W	1	N			X	See Below
E153-U	11/9/17	1245	G	W	2	N		X	X	
E153-F	11/9/17	1245	G	W	1	N			X	See Below
E453-U	11/9/17	1300	G	W	2	N		X	X	
E453-F	11/9/17	1300	G	W	1	N			X	See Below
E355-U	11/9/17	1315	G	W	2	N		X	X	
E355-F	11/9/17	1315	G	W	1	N			X	See Below
C-B-30	11/9/17	1330	G	W	2	N		X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
F samples to be held by lab until analysis of U samples completed. Stantec will review U sample results and determine need to analyze F sample. F samples will be filtered (0.45 micron) prior to analysis

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
David Schroder	Stantec	11/9/17/1800	Lillie Watson	TAL	11-10-17
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 9:20
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

ORIGIN ID:TDZA (419) 841-2731
STANTEC CONSULTING SERVICES
4035 KING RD STE D
SYLVANIA, OH 435604478
UNITED STATES US

SHIP DATE: 09JAN17
ACTWGT: 48.10 LB
CAD: /OFFC1722
DIMS: 26x15x14
BILL SENDER

TO SAMPLE RECEIPT
TEST AMERICA
301 ALPHA DR
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0200 8102 4648 1900

TUE - 10 JAN 10:3
PRIORITY OVERNIG

NA AGCA

152
PA-US F

Uncorrected temp 1.6 °C
Thermometer ID 9
CF 0 Initials TS
PT-WI-SR-001 effective 7/26/13

ORIGIN ID:TDZA (419) 841-2731
STANTEC CONSULTING SERVICES
4035 KING RD STE D
SYLVANIA, OH 435604478
UNITED STATES US

SHIP DATE: 09JAN17
ACTWGT: 48.40 LB
CAD: /OFFC1722
DIMS: 24x13x14 IN
BILL SENDER

TO SAMPLE RECIEPT
TEST AMERICA
301 ALPHA DR
PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0200 8102 4648 1910

TUE - 10 JAN 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PA-US PIT

Uncorrected temp 2.6 °C
Thermometer ID 9
CF 0 Initials TS
PT-WI-SR-001 effective 7/26/13

180-62384 Waybill

ORIGIN ID:TDZA (419) 841-2731
STANTEC CONSULTING SERVICES

4035 KING RD STE D

SYLVANIA, OH 435604478
UNITED STATES US

SHIP DATE: 09JAN17
ACTWGT: 46.30 LB
CAD: /OFFC1722
DIMS: 24x13x14 IN

BILL SENDER

TO **SAMPLE RECIEPT**
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0200 **8102 4648 1895**

TUE - 10 JAN 10:30A
PRIORITY OVERNIGHT

NA AGCA

15238
PA-US **PIT**

Uncorrected temp 3.3 °C
Thermometer ID 9

CF 0 Initials TS

PT-WI-SR-001 effective 7/26/13

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

1.2/C1.2
1.6/C1.6

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Unger, Julie M	Carrier Tracking No(s):	COC No: 180-268381.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: julie.unger@testamericainc.com	State of Origin: Pennsylvania	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Pennsylvania		Job #: 180-62384-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 1/20/2017			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: AMTRAK - ISS	Project #: 18016974			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

C165
Reach

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015D_DRO/3520C (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
E4S5-U (180-62384-1)	1/6/17	16:30 Eastern		Water			X	1	
E2S2-U (180-62384-3)	1/6/17	16:45 Eastern		Water			X	1	
C-30-U (180-62384-5)	1/6/17	17:00 Eastern		Water			X	1	
E1S3-U (180-62384-7)	1/9/17	12:45 Eastern		Water			X	1	
E4S3-U (180-62384-9)	1/9/17	13:00 Eastern		Water			X	1	
E3S5-U (180-62384-11)	1/9/17	13:15 Eastern		Water			X	1	
C-B-30 (180-62384-13)	1/9/17	13:30 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 1/11/17 1700	Company: TAPA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 180-62384
Canton Facility

Client TA Pitt Site Name _____ Cooler unpacked by: Denny Burns

Cooler Received on 1/12/17 Opened on 1/12/17

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other Multiple

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

☒ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp._____ °C Corrected Cooler Temp._____ °C
   IR GUN #36 (CF +1.1°C) Observed Cooler Temp._____ °C Corrected Cooler Temp._____ °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity_____ Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes (No)
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Are these work share samples? (Yes) No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC682547**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____.

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login #: 180-62384

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Cedar Falls	8	1.2	1.2	ICE
Client	1	1.6	1.6	1

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 180-62384-1

Login Number: 62384
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	