TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-154398-1
Client Project/Site: Central Wire Union Plant

For:
Central Wire (Techalloy)
6509 Olson Road
Union, Illinois 60180

Attn: Robert Johnson

Authorized for release by:
11/26/2018 8:40:23 AM

Richard Wright, Senior Project Manager
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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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Case Narrative

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Job ID: 500-154398-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-154398-1

Comments
No additional comments.

Receipt
The samples were received on 11/7/2018 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 240-355689 was outside the method criteria for 2,2-dichloropropane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

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

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

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

Detection Summary

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: P&T — Lab Sample ID: 500-154398-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.42	J	1.0	0.10	ug/L	1		8260C	Total/NA
pH	7.9	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: North Pond — Lab Sample ID: 500-154398-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	49	J	100	47	ug/L	1		6020A	Total Recoverable
Lead	0.25	J	0.50	0.19	ug/L	1		6020A	Total Recoverable
Manganese	13		2.5	0.79	ug/L	1		6020A	Total Recoverable
Nickel	7.3		2.0	0.63	ug/L	1		6020A	Total Recoverable
Nitrogen, Nitrate Nitrite	0.067	J	0.10	0.041	mg/L	1		353.2	Total/NA
pH	6.5	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: South Pond — Lab Sample ID: 500-154398-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	270		100	47	ug/L	1		6020A	Total Recoverable
Lead	0.20	J	0.50	0.19	ug/L	1		6020A	Total Recoverable
Manganese	65		2.5	0.79	ug/L	1		6020A	Total Recoverable
Nickel	13		2.0	0.63	ug/L	1		6020A	Total Recoverable
pH	6.7	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Ex. 6 Personal Privacy (PP) — Lab Sample ID: 500-154398-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.7	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Ex. 6 Personal Privacy (PP) — Lab Sample ID: 500-154398-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.7	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-154398-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.00016	J	0.0010	0.00014	mg/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
6020A	Metals (ICP/MS)	SW846	TAL CHI
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL CHI
SM 4500 H+ B	pH	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
5030C	Purge and Trap	SW846	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
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 CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-154398-1	P&T	Water	11/05/18 14:00	11/07/18 09:20
500-154398-2	North Pond	Water	11/05/18 13:45	11/07/18 09:20
500-154398-3	South Pond	Water	11/05/18 13:50	11/07/18 09:20
500-154398-4	Ex. 6 Personal Privacy (PP)	Water	11/05/18 14:15	11/07/18 09:20
500-154398-5		Water	11/05/18 14:20	11/07/18 09:20
500-154398-6	Trip Blank	Water	11/05/18 00:00	11/07/18 09:20

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: P&T

Lab Sample ID: 500-154398-1
Date Collected: 11/05/18 14:00
Date Received: 11/07/18 09:20
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.24		1.0	0.24	ug/L			11/16/18 00:40	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			11/16/18 00:40	1
Trichloroethene	**0.42**	**J**	1.0	0.10	ug/L			11/16/18 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 121*		*11/16/18 00:40*	*1*
4-Bromofluorobenzene (Surr)	*98*		*59 - 120*		*11/16/18 00:40*	*1*
Toluene-d8 (Surr)	*101*		*70 - 123*		*11/16/18 00:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**	**HF**	0.2	0.2	SU			11/19/18 15:39	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: North Pond

Lab Sample ID: 500-154398-2
Date Collected: 11/05/18 13:45
Matrix: Water
Date Received: 11/07/18 09:20

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**49**	**J**	100	47	ug/L		11/07/18 15:41	11/09/18 13:31	1
Lead	**0.25**	**J**	0.50	0.19	ug/L		11/07/18 15:41	11/09/18 13:31	1
Manganese	**13**		2.5	0.79	ug/L		11/07/18 15:41	11/09/18 13:31	1
Nickel	**7.3**		2.0	0.63	ug/L		11/07/18 15:41	11/09/18 13:31	1
Selenium	<0.98		2.5	0.98	ug/L		11/07/18 15:41	11/09/18 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	**0.067**	**J**	0.10	0.041	mg/L			11/20/18 20:50	1
pH	**6.5**	**HF**	0.2	0.2	SU			11/19/18 15:42	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: South Pond

Lab Sample ID: 500-154398-3
Matrix: Water

Date Collected: 11/05/18 13:50
Date Received: 11/07/18 09:20

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**270**		100	47	ug/L		11/07/18 15:41	11/09/18 13:35	1
Lead	**0.20**	**J**	0.50	0.19	ug/L		11/07/18 15:41	11/09/18 13:35	1
Manganese	**65**		2.5	0.79	ug/L		11/07/18 15:41	11/09/18 13:35	1
Nickel	**13**		2.0	0.63	ug/L		11/07/18 15:41	11/09/18 13:35	1
Selenium	<0.98		2.5	0.98	ug/L		11/07/18 15:41	11/09/18 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			11/21/18 21:37	1
pH	**6.7**	**HF**	0.2	0.2	SU			11/19/18 15:45	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: Ex. 6 Personal Privacy (PP)
Date Collected: 11/05/18 14:15
Date Received: 11/07/18 09:20

Lab Sample ID: 500-154398-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		1.0	0.14	ug/L			11/16/18 01:02	1
1,1,1-Trichloroethane	<0.24		1.0	0.24	ug/L			11/16/18 01:02	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			11/16/18 01:02	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			11/16/18 01:02	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			11/16/18 01:02	1
1,1-Dichloroethene	<0.19		1.0	0.19	ug/L			11/16/18 01:02	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			11/16/18 01:02	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			11/16/18 01:02	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			11/16/18 01:02	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			11/16/18 01:02	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			11/16/18 01:02	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			11/16/18 01:02	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			11/16/18 01:02	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/16/18 01:02	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			11/16/18 01:02	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			11/16/18 01:02	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			11/16/18 01:02	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/16/18 01:02	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			11/16/18 01:02	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			11/16/18 01:02	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			11/16/18 01:02	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			11/16/18 01:02	1
2-Hexanone	<0.54		10	0.54	ug/L			11/16/18 01:02	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			11/16/18 01:02	1
Acetone	<5.4		10	5.4	ug/L			11/16/18 01:02	1
Benzene	<0.13		1.0	0.13	ug/L			11/16/18 01:02	1
Bromobenzene	<0.12		1.0	0.12	ug/L			11/16/18 01:02	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			11/16/18 01:02	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/16/18 01:02	1
Bromoform	<0.76		1.0	0.76	ug/L			11/16/18 01:02	1
Bromomethane	<0.42		1.0	0.42	ug/L			11/16/18 01:02	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			11/16/18 01:02	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/16/18 01:02	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/16/18 01:02	1
Chloroethane	<0.83		1.0	0.83	ug/L			11/16/18 01:02	1
Chloroform	<0.13		1.0	0.13	ug/L			11/16/18 01:02	1
Chloromethane	<0.20		1.0	0.20	ug/L			11/16/18 01:02	1
cis-1,2-Dichloroethene	<0.16		1.0	0.16	ug/L			11/16/18 01:02	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			11/16/18 01:02	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/16/18 01:02	1
Dibromomethane	<0.090		1.0	0.090	ug/L			11/16/18 01:02	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			11/16/18 01:02	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			11/16/18 01:02	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			11/16/18 01:02	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			11/16/18 01:02	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			11/16/18 01:02	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			11/16/18 01:02	1
methyl isobutyl ketone	<0.42		10	0.42	ug/L			11/16/18 01:02	1
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			11/16/18 01:02	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: Ex. 6 Personal Privacy (PP)
Date Collected: 11/05/18 14:15
Date Received: 11/07/18 09:20

Lab Sample ID: 500-154398-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<2.6		5.0	2.6	ug/L			11/16/18 01:02	1
Naphthalene	<0.32		1.0	0.32	ug/L			11/16/18 01:02	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			11/16/18 01:02	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			11/16/18 01:02	1
o-Xylene	<0.090		1.0	0.090	ug/L			11/16/18 01:02	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			11/16/18 01:02	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			11/16/18 01:02	1
Styrene	<0.10		1.0	0.10	ug/L			11/16/18 01:02	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/16/18 01:02	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			11/16/18 01:02	1
Toluene	<0.14		1.0	0.14	ug/L			11/16/18 01:02	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			11/16/18 01:02	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			11/16/18 01:02	1
Trichloroethene	<0.10		1.0	0.10	ug/L			11/16/18 01:02	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			11/16/18 01:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/16/18 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 121*		*11/16/18 01:02*	*1*
4-Bromofluorobenzene (Surr)	*94*		*59 - 120*		*11/16/18 01:02*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*11/16/18 01:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**	**HF**	0.2	0.2	SU			11/19/18 15:48	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: Ex. 6 Personal Privacy (PP)
Date Collected: 11/05/18 14:20
Date Received: 11/07/18 09:20

Lab Sample ID: 500-154398-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		1.0	0.14	ug/L			11/16/18 01:24	1
1,1,1-Trichloroethane	<0.24		1.0	0.24	ug/L			11/16/18 01:24	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			11/16/18 01:24	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			11/16/18 01:24	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			11/16/18 01:24	1
1,1-Dichloroethene	<0.19		1.0	0.19	ug/L			11/16/18 01:24	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			11/16/18 01:24	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			11/16/18 01:24	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			11/16/18 01:24	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			11/16/18 01:24	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			11/16/18 01:24	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			11/16/18 01:24	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			11/16/18 01:24	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/16/18 01:24	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			11/16/18 01:24	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			11/16/18 01:24	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			11/16/18 01:24	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/16/18 01:24	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			11/16/18 01:24	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			11/16/18 01:24	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			11/16/18 01:24	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			11/16/18 01:24	1
2-Hexanone	<0.54		10	0.54	ug/L			11/16/18 01:24	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			11/16/18 01:24	1
Acetone	<5.4		10	5.4	ug/L			11/16/18 01:24	1
Benzene	<0.13		1.0	0.13	ug/L			11/16/18 01:24	1
Bromobenzene	<0.12		1.0	0.12	ug/L			11/16/18 01:24	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			11/16/18 01:24	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/16/18 01:24	1
Bromoform	<0.76		1.0	0.76	ug/L			11/16/18 01:24	1
Bromomethane	<0.42		1.0	0.42	ug/L			11/16/18 01:24	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			11/16/18 01:24	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/16/18 01:24	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/16/18 01:24	1
Chloroethane	<0.83		1.0	0.83	ug/L			11/16/18 01:24	1
Chloroform	<0.13		1.0	0.13	ug/L			11/16/18 01:24	1
Chloromethane	<0.20		1.0	0.20	ug/L			11/16/18 01:24	1
cis-1,2-Dichloroethene	<0.16		1.0	0.16	ug/L			11/16/18 01:24	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			11/16/18 01:24	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/16/18 01:24	1
Dibromomethane	<0.090		1.0	0.090	ug/L			11/16/18 01:24	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			11/16/18 01:24	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			11/16/18 01:24	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			11/16/18 01:24	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			11/16/18 01:24	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			11/16/18 01:24	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			11/16/18 01:24	1
methyl isobutyl ketone	<0.42		10	0.42	ug/L			11/16/18 01:24	1
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			11/16/18 01:24	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: Ex. 6 Personal Privacy (PP)

Lab Sample ID: 500-154398-5

Date Collected: 11/05/18 14:20
Date Received: 11/07/18 09:20

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<2.6		5.0	2.6	ug/L			11/16/18 01:24	1
Naphthalene	<0.32		1.0	0.32	ug/L			11/16/18 01:24	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			11/16/18 01:24	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			11/16/18 01:24	1
o-Xylene	<0.090		1.0	0.090	ug/L			11/16/18 01:24	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			11/16/18 01:24	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			11/16/18 01:24	1
Styrene	<0.10		1.0	0.10	ug/L			11/16/18 01:24	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/16/18 01:24	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			11/16/18 01:24	1
Toluene	<0.14		1.0	0.14	ug/L			11/16/18 01:24	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			11/16/18 01:24	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			11/16/18 01:24	1
Trichloroethene	<0.10		1.0	0.10	ug/L			11/16/18 01:24	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			11/16/18 01:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/16/18 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 121*		*11/16/18 01:24*	*1*
4-Bromofluorobenzene (Surr)	*94*		*59 - 120*		*11/16/18 01:24*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*11/16/18 01:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**	**HF**	0.2	0.2	SU			11/19/18 15:51	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-154398-6

Date Collected: 11/05/18 00:00
Date Received: 11/07/18 09:20

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.00014		0.0010	0.00014	mg/L			11/16/18 01:46	1
1,1,1-Trichloroethane	<0.00024		0.0010	0.00024	mg/L			11/16/18 01:46	1
1,1,2,2-Tetrachloroethane	<0.00013		0.0010	0.00013	mg/L			11/16/18 01:46	1
1,1,2-Trichloroethane	<0.000090		0.0010	0.000090	mg/L			11/16/18 01:46	1
1,1-Dichloroethane	<0.00017		0.0010	0.00017	mg/L			11/16/18 01:46	1
1,1-Dichloroethene	<0.00019		0.0010	0.00019	mg/L			11/16/18 01:46	1
1,1-Dichloropropene	<0.00014		0.0010	0.00014	mg/L			11/16/18 01:46	1
1,2,3-Trichlorobenzene	<0.00054		0.0010	0.00054	mg/L			11/16/18 01:46	1
1,2,3-Trichloropropane	<0.00024		0.0010	0.00024	mg/L			11/16/18 01:46	1
1,2,4-Trichlorobenzene	<0.00026		0.0010	0.00026	mg/L			11/16/18 01:46	1
1,2,4-Trimethylbenzene	<0.000070		0.0010	0.000070	mg/L			11/16/18 01:46	1
1,2-Dibromo-3-Chloropropane	<0.00091		0.0020	0.00091	mg/L			11/16/18 01:46	1
1,2-Dibromoethane	<0.00012		0.0010	0.00012	mg/L			11/16/18 01:46	1
1,2-Dichlorobenzene	<0.00015		0.0010	0.00015	mg/L			11/16/18 01:46	1
1,2-Dichloroethane	<0.00021		0.0010	0.00021	mg/L			11/16/18 01:46	1
1,2-Dichloropropane	<0.00015		0.0010	0.00015	mg/L			11/16/18 01:46	1
1,3,5-Trimethylbenzene	<0.00012		0.0010	0.00012	mg/L			11/16/18 01:46	1
1,3-Dichlorobenzene	<0.00015		0.0010	0.00015	mg/L			11/16/18 01:46	1
1,3-Dichloropropane	<0.00021		0.0010	0.00021	mg/L			11/16/18 01:46	1
1,3-Dichloropropene, Total	<0.0013		0.0020	0.0013	mg/L			11/16/18 01:46	1
1,4-Dichlorobenzene	<0.00016		0.0010	0.00016	mg/L			11/16/18 01:46	1
2,2-Dichloropropane	<0.00031		0.0010	0.00031	mg/L			11/16/18 01:46	1
2-Chlorotoluene	<0.00015		0.0010	0.00015	mg/L			11/16/18 01:46	1
2-Hexanone	<0.00054		0.010	0.00054	mg/L			11/16/18 01:46	1
4-Chlorotoluene	<0.000090		0.0010	0.000090	mg/L			11/16/18 01:46	1
Acetone	<0.0054		0.010	0.0054	mg/L			11/16/18 01:46	1
Benzene	<0.00013		0.0010	0.00013	mg/L			11/16/18 01:46	1
Bromobenzene	<0.00012		0.0010	0.00012	mg/L			11/16/18 01:46	1
Bromochloromethane	<0.00014		0.0010	0.00014	mg/L			11/16/18 01:46	1
Bromodichloromethane	<0.00017		0.0010	0.00017	mg/L			11/16/18 01:46	1
Bromoform	<0.00076		0.0010	0.00076	mg/L			11/16/18 01:46	1
Bromomethane	<0.00042		0.0010	0.00042	mg/L			11/16/18 01:46	1
Carbon disulfide	<0.00028		0.0010	0.00028	mg/L			11/16/18 01:46	1
Carbon tetrachloride	<0.00026		0.0010	0.00026	mg/L			11/16/18 01:46	1
Chlorobenzene	<0.00014		0.0010	0.00014	mg/L			11/16/18 01:46	1
Chloroethane	<0.00083		0.0010	0.00083	mg/L			11/16/18 01:46	1
Chloroform	<0.00013		0.0010	0.00013	mg/L			11/16/18 01:46	1
Chloromethane	<0.00020		0.0010	0.00020	mg/L			11/16/18 01:46	1
cis-1,2-Dichloroethene	<0.00016		0.0010	0.00016	mg/L			11/16/18 01:46	1
cis-1,3-Dichloropropene	<0.00061		0.0010	0.00061	mg/L			11/16/18 01:46	1
Dibromochloromethane	<0.00039		0.0010	0.00039	mg/L			11/16/18 01:46	1
Dibromomethane	<0.000090		0.0010	0.000090	mg/L			11/16/18 01:46	1
Dichlorodifluoromethane	<0.00035		0.0010	0.00035	mg/L			11/16/18 01:46	1
Ethylbenzene	<0.00011		0.0010	0.00011	mg/L			11/16/18 01:46	1
Hexachlorobutadiene	<0.00083		0.0010	0.00083	mg/L			11/16/18 01:46	1
Isopropylbenzene	<0.000090		0.0010	0.000090	mg/L			11/16/18 01:46	1
m&p-Xylene	<0.000080		0.0020	0.000080	mg/L			11/16/18 01:46	1
Methyl Ethyl Ketone	<0.0012		0.010	0.0012	mg/L			11/16/18 01:46	1
methyl isobutyl ketone	<0.00042		0.010	0.00042	mg/L			11/16/18 01:46	1

Client Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-154398-6

Date Collected: 11/05/18 00:00
Date Received: 11/07/18 09:20

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.000070		0.0010	0.000070	mg/L			11/16/18 01:46	1
Methylene Chloride	<0.0026		0.0050	0.0026	mg/L			11/16/18 01:46	1
Naphthalene	<0.00032		0.0010	0.00032	mg/L			11/16/18 01:46	1
n-Butylbenzene	<0.00014		0.0010	0.00014	mg/L			11/16/18 01:46	1
N-Propylbenzene	<0.00015		0.0010	0.00015	mg/L			11/16/18 01:46	1
o-Xylene	<0.000090		0.0010	0.000090	mg/L			11/16/18 01:46	1
p-Isopropyltoluene	<0.00013		0.0010	0.00013	mg/L			11/16/18 01:46	1
sec-Butylbenzene	<0.00013		0.0010	0.00013	mg/L			11/16/18 01:46	1
Styrene	<0.00010		0.0010	0.00010	mg/L			11/16/18 01:46	1
tert-Butylbenzene	<0.00014		0.0010	0.00014	mg/L			11/16/18 01:46	1
Tetrachloroethene	<0.00015		0.0010	0.00015	mg/L			11/16/18 01:46	1
Toluene	**0.00016**	**J**	0.0010	0.00014	mg/L			11/16/18 01:46	1
trans-1,2-Dichloroethene	<0.00019		0.0010	0.00019	mg/L			11/16/18 01:46	1
trans-1,3-Dichloropropene	<0.00067		0.0010	0.00067	mg/L			11/16/18 01:46	1
Trichloroethene	<0.00010		0.0010	0.00010	mg/L			11/16/18 01:46	1
Trichlorofluoromethane	<0.00045		0.0010	0.00045	mg/L			11/16/18 01:46	1
Vinyl chloride	<0.00020		0.0010	0.00020	mg/L			11/16/18 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 121*		*11/16/18 01:46*	*1*
4-Bromofluorobenzene (Surr)	*95*		*59 - 120*		*11/16/18 01:46*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*11/16/18 01:46*	*1*

Definitions/Glossary

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

QC Association Summary

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

GC/MS VOA

Analysis Batch: 355689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154398-1	P&T	Total/NA	Water	8260C	
500-154398-4	Ex. 6 Personal Privacy (PP)	Total/NA	Water	8260C	
500-154398-5		Total/NA	Water	8260C	
500-154398-6		Total/NA	Water	8260C	
MB 240-355689/7	Method Blank	Total/NA	Water	8260C	
LCS 240-355689/4	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 458960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154398-2	North Pond	Total Recoverable	Water	3005A	
500-154398-3	South Pond	Total Recoverable	Water	3005A	
MB 500-458960/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-458960/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 459660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154398-2	North Pond	Total Recoverable	Water	6020A	458960
500-154398-3	South Pond	Total Recoverable	Water	6020A	458960
MB 500-458960/1-A	Method Blank	Total Recoverable	Water	6020A	458960
LCS 500-458960/2-A	Lab Control Sample	Total Recoverable	Water	6020A	458960

General Chemistry

Analysis Batch: 460903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154398-1	P&T	Total/NA	Water	SM 4500 H+ B	
500-154398-2	North Pond	Total/NA	Water	SM 4500 H+ B	
500-154398-3	South Pond	Total/NA	Water	SM 4500 H+ B	
500-154398-4	Ex. 6 Personal Privacy (PP)	Total/NA	Water	SM 4500 H+ B	
500-154398-5		Total/NA	Water	SM 4500 H+ B	
500-154398-1 DU	P&T	Total/NA	Water	SM 4500 H+ B	
500-154398-2 DU	North Pond	Total/NA	Water	SM 4500 H+ B	
500-154398-3 DU	South Pond	Total/NA	Water	SM 4500 H+ B	
500-154398-4 DU	Ex. 6 Personal Privacy (PP)	Total/NA	Water	SM 4500 H+ B	
500-154398-5 DU		Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 461301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154398-2	North Pond	Total/NA	Water	353.2	
MB 500-461301/12	Method Blank	Total/NA	Water	353.2	
LCS 500-461301/13	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 461505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-154398-3	South Pond	Total/NA	Water	353.2	
MB 500-461505/16	Method Blank	Total/NA	Water	353.2	
LCS 500-461505/17	Lab Control Sample	Total/NA	Water	353.2	

Surrogate Summary

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		DCA	BFB	TOL
Lab Sample ID	Client Sample ID	(70-121)	(59-120)	(70-123)
500-154398-1	P&T	104	98	101
500-154398-4	Ex. 6 Personal Privacy (PP)	101	94	99
500-154398-5		104	94	99
500-154398-6	Trip Blank	102	95	99
LCS 240-355689/4	Lab Control Sample	98	100	102
MB 240-355689/7	Method Blank	102	94	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-355689/7
Matrix: Water
Analysis Batch: 355689

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		1.0	0.14	ug/L			11/15/18 21:19	1
1,1,1-Trichloroethane	<0.24		1.0	0.24	ug/L			11/15/18 21:19	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			11/15/18 21:19	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			11/15/18 21:19	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			11/15/18 21:19	1
1,1-Dichloroethene	<0.19		1.0	0.19	ug/L			11/15/18 21:19	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			11/15/18 21:19	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			11/15/18 21:19	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			11/15/18 21:19	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			11/15/18 21:19	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			11/15/18 21:19	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			11/15/18 21:19	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			11/15/18 21:19	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/15/18 21:19	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			11/15/18 21:19	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			11/15/18 21:19	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			11/15/18 21:19	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/15/18 21:19	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			11/15/18 21:19	1
1,3-Dichloropropene, Total	<0.0013		0.0020	0.0013	mg/L			11/15/18 21:19	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			11/15/18 21:19	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			11/15/18 21:19	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			11/15/18 21:19	1
2-Hexanone	<0.54		10	0.54	ug/L			11/15/18 21:19	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			11/15/18 21:19	1
Acetone	<5.4		10	5.4	ug/L			11/15/18 21:19	1
Benzene	<0.13		1.0	0.13	ug/L			11/15/18 21:19	1
Bromobenzene	<0.12		1.0	0.12	ug/L			11/15/18 21:19	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			11/15/18 21:19	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/15/18 21:19	1
Bromoform	<0.76		1.0	0.76	ug/L			11/15/18 21:19	1
Bromomethane	<0.42		1.0	0.42	ug/L			11/15/18 21:19	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			11/15/18 21:19	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/15/18 21:19	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/15/18 21:19	1
Chloroethane	<0.83		1.0	0.83	ug/L			11/15/18 21:19	1
Chloroform	<0.13		1.0	0.13	ug/L			11/15/18 21:19	1
Chloromethane	<0.20		1.0	0.20	ug/L			11/15/18 21:19	1
cis-1,2-Dichloroethene	<0.16		1.0	0.16	ug/L			11/15/18 21:19	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			11/15/18 21:19	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			11/15/18 21:19	1
Dibromomethane	<0.090		1.0	0.090	ug/L			11/15/18 21:19	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			11/15/18 21:19	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			11/15/18 21:19	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			11/15/18 21:19	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			11/15/18 21:19	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			11/15/18 21:19	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			11/15/18 21:19	1

QC Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-355689/7
Matrix: Water
Analysis Batch: 355689

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
methyl isobutyl ketone	<0.42		10	0.42	ug/L			11/15/18 21:19	1
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			11/15/18 21:19	1
Methylene Chloride	<2.6		5.0	2.6	ug/L			11/15/18 21:19	1
Naphthalene	<0.32		1.0	0.32	ug/L			11/15/18 21:19	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			11/15/18 21:19	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			11/15/18 21:19	1
o-Xylene	<0.090		1.0	0.090	ug/L			11/15/18 21:19	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			11/15/18 21:19	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			11/15/18 21:19	1
Styrene	<0.10		1.0	0.10	ug/L			11/15/18 21:19	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/15/18 21:19	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			11/15/18 21:19	1
Toluene	<0.14		1.0	0.14	ug/L			11/15/18 21:19	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			11/15/18 21:19	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			11/15/18 21:19	1
Trichloroethene	<0.10		1.0	0.10	ug/L			11/15/18 21:19	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			11/15/18 21:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/15/18 21:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 121*		*11/15/18 21:19*	*1*
4-Bromofluorobenzene (Surr)	*94*		*59 - 120*		*11/15/18 21:19*	*1*
Toluene-d8 (Surr)	*98*		*70 - 123*		*11/15/18 21:19*	*1*

Lab Sample ID: LCS 240-355689/4
Matrix: Water
Analysis Batch: 355689

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	20.0	19.8		ug/L		99	80 - 124
1,1,1-Trichloroethane	20.0	18.9		ug/L		94	69 - 134
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	65 - 139
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	78 - 133
1,1-Dichloroethane	20.0	19.6		ug/L		98	75 - 133
1,1-Dichloroethene	20.0	20.1		ug/L		100	65 - 139
1,1-Dichloropropene	20.0	19.6		ug/L		98	78 - 126
1,2,3-Trichlorobenzene	20.0	21.3		ug/L		106	39 - 138
1,2,3-Trichloropropane	20.0	20.7		ug/L		104	66 - 139
1,2,4-Trichlorobenzene	20.0	20.4		ug/L		102	42 - 133
1,2,4-Trimethylbenzene	20.0	20.3		ug/L		101	74 - 120
1,2-Dibromo-3-Chloropropane	20.0	20.9		ug/L		104	46 - 132
1,2-Dibromoethane	20.0	19.1		ug/L		96	77 - 123
1,2-Dichlorobenzene	20.0	21.1		ug/L		105	78 - 120
1,2-Dichloroethane	20.0	18.4		ug/L		92	71 - 135
1,2-Dichloropropane	20.0	20.0		ug/L		100	78 - 133
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	75 - 121
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	78 - 120
1,3-Dichloropropane	20.0	19.7		ug/L		98	72 - 134

QC Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-355689/4
Matrix: Water
Analysis Batch: 355689

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	78 - 120
2,2-Dichloropropane	20.0	13.4		ug/L		67	42 - 150
2-Chlorotoluene	20.0	20.7		ug/L		103	78 - 123
2-Hexanone	40.0	38.6		ug/L		96	43 - 148
4-Chlorotoluene	20.0	20.2		ug/L		101	77 - 125
Acetone	40.0	42.3		ug/L		106	21 - 162
Benzene	20.0	20.1		ug/L		100	80 - 123
Bromobenzene	20.0	20.4		ug/L		102	74 - 129
Bromochloromethane	20.0	17.7		ug/L		88	74 - 130
Bromodichloromethane	20.0	18.9		ug/L		94	77 - 125
Bromoform	20.0	18.5		ug/L		92	49 - 141
Bromomethane	20.0	19.4		ug/L		97	41 - 175
Carbon disulfide	20.0	16.9		ug/L		85	60 - 138
Carbon tetrachloride	20.0	19.3		ug/L		97	63 - 140
Chlorobenzene	20.0	19.4		ug/L		97	80 - 121
Chloroethane	20.0	20.0		ug/L		100	33 - 173
Chloroform	20.0	19.7		ug/L		98	79 - 127
Chloromethane	20.0	17.8		ug/L		89	54 - 143
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	76 - 128
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	64 - 132
Dibromochloromethane	20.0	19.2		ug/L		96	70 - 132
Dibromomethane	20.0	19.1		ug/L		96	74 - 124
Dichlorodifluoromethane	20.0	15.2		ug/L		76	29 - 148
Ethylbenzene	20.0	19.8		ug/L		99	80 - 120
Hexachlorobutadiene	20.0	20.6		ug/L		103	38 - 136
Isopropylbenzene	20.0	19.9		ug/L		100	74 - 120
m&p-Xylene	20.0	20.0		ug/L		100	80 - 120
Methyl Ethyl Ketone	40.0	42.4		ug/L		106	39 - 163
methyl isobutyl ketone	40.0	39.1		ug/L		98	49 - 143
Methyl tert-butyl ether	20.0	17.1		ug/L		86	51 - 133
Methylene Chloride	20.0	20.3		ug/L		102	70 - 134
Naphthalene	20.0	20.7		ug/L		103	28 - 141
n-Butylbenzene	20.0	20.5		ug/L		102	57 - 126
N-Propylbenzene	20.0	20.5		ug/L		102	77 - 123
o-Xylene	20.0	20.3		ug/L		102	80 - 120
p-Isopropyltoluene	20.0	20.7		ug/L		104	69 - 122
sec-Butylbenzene	20.0	20.7		ug/L		104	68 - 123
Styrene	20.0	19.9		ug/L		99	79 - 120
tert-Butylbenzene	20.0	20.2		ug/L		101	70 - 121
Tetrachloroethene	20.0	19.8		ug/L		99	74 - 130
Toluene	20.0	19.5		ug/L		98	78 - 129
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	78 - 133
trans-1,3-Dichloropropene	20.0	17.1		ug/L		85	55 - 128
Trichloroethene	20.0	19.7		ug/L		98	76 - 125
Trichlorofluoromethane	20.0	18.9		ug/L		94	51 - 164
Vinyl chloride	20.0	19.2		ug/L		96	58 - 143

QC Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-355689/4
Matrix: Water
Analysis Batch: 355689

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 121*
4-Bromofluorobenzene (Surr)	*100*		*59 - 120*
Toluene-d8 (Surr)	*102*		*70 - 123*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-458960/1-A
Matrix: Water
Analysis Batch: 459660

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 458960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<47		100	47	ug/L		11/07/18 15:41	11/09/18 11:58	1
Lead	<0.19		0.50	0.19	ug/L		11/07/18 15:41	11/09/18 11:58	1
Manganese	<0.79		2.5	0.79	ug/L		11/07/18 15:41	11/09/18 11:58	1
Nickel	<0.63		2.0	0.63	ug/L		11/07/18 15:41	11/09/18 11:58	1
Selenium	<0.98		2.5	0.98	ug/L		11/07/18 15:41	11/09/18 11:58	1

Lab Sample ID: LCS 500-458960/2-A
Matrix: Water
Analysis Batch: 459660

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 458960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	1020		ug/L		102	80 - 120
Lead	100	98.7		ug/L		99	80 - 120
Manganese	500	494		ug/L		99	80 - 120
Nickel	500	502		ug/L		100	80 - 120
Selenium	100	88.2		ug/L		88	80 - 120

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 500-461301/12
Matrix: Water
Analysis Batch: 461301

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			11/20/18 19:42	1

Lab Sample ID: LCS 500-461301/13
Matrix: Water
Analysis Batch: 461301

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.906		mg/L		91	90 - 110

QC Sample Results

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: MB 500-461505/16 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 461505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.041		0.10	0.041	mg/L			11/21/18 21:24	1

Lab Sample ID: LCS 500-461505/17 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 461505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	0.991		mg/L		99	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: 500-154398-1 DU — **Client Sample ID: P&T**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 460903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.9	HF	7.9		SU		0.1	

Lab Sample ID: 500-154398-2 DU — **Client Sample ID: North Pond**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 460903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.5	HF	6.4		SU		0.6	

Lab Sample ID: 500-154398-3 DU — **Client Sample ID: South Pond**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 460903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.7	HF	6.7		SU		0.1	

Lab Sample ID: 500-154398-4 DU — **Client Sample ID: South Branch Well # 1 (Irrigation)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 460903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.8		SU		0.3	

Lab Sample ID: 500-154398-5 DU — **Client Sample ID: South Branch Well #2 (Restrooms)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 460903

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.7		SU		0.1	

Lab Chronicle

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: P&T — Lab Sample ID: 500-154398-1

Date Collected: 11/05/18 14:00
Date Received: 11/07/18 09:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	355689	11/16/18 00:40	TJL1	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	460903		PFK	TAL CHI
					(Start)	11/19/18 15:39		
					(End)	11/19/18 15:40		

Client Sample ID: North Pond — Lab Sample ID: 500-154398-2

Date Collected: 11/05/18 13:45
Date Received: 11/07/18 09:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			458960	11/07/18 15:41	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	459660	11/09/18 13:31	FXG	TAL CHI
Total/NA	Analysis	353.2		1	461301	11/20/18 20:50	FJD	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	460903		PFK	TAL CHI
					(Start)	11/19/18 15:42		
					(End)	11/19/18 15:44		

Client Sample ID: South Pond — Lab Sample ID: 500-154398-3

Date Collected: 11/05/18 13:50
Date Received: 11/07/18 09:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			458960	11/07/18 15:41	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	459660	11/09/18 13:35	FXG	TAL CHI
Total/NA	Analysis	353.2		1	461505	11/21/18 21:37	FJD	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	460903		PFK	TAL CHI
					(Start)	11/19/18 15:45		
					(End)	11/19/18 15:47		

Client Sample ID: Ex. 6 Personal Privacy (PP) — Lab Sample ID: 500-154398-4

Date Collected: 11/05/18 14:15
Date Received: 11/07/18 09:20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	355689	11/16/18 01:02	TJL1	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	460903		PFK	TAL CHI
					(Start)	11/19/18 15:48		
					(End)	11/19/18 15:50		

Lab Chronicle

Client: Central Wire (Techalloy)
Project/Site: Central Wire Union Plant

TestAmerica Job ID: 500-154398-1

Client Sample ID: Ex. 6 Personal Privacy (PP)

Lab Sample ID: 500-154398-5
Matrix: Water
Date Collected: 11/05/18 14:20
Date Received: 11/07/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	355689	11/16/18 01:24	TJL1	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	460903		PFK	TAL CHI
					(Start)	11/19/18 15:51		
					(End)	11/19/18 15:53		

Client Sample ID: Trip Blank

Lab Sample ID: 500-154398-6
Matrix: Water
Date Collected: 11/05/18 00:00
Date Received: 11/07/18 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	355689	11/16/18 01:46	TJL1	TAL CAN

Laboratory References:

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

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Central Wire (Techalloy) TestAmerica Job ID: 500-154398-1
Project/Site: Central Wire Union Plant

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-19

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-19
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	01-31-19
Kentucky (UST)	State Program	4	58	02-23-19
Kentucky (WW)	State Program	4	98016	12-31-18 *
Minnesota	NELAP	5	039-999-348	12-31-18 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-19
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-19
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-19
West Virginia DEP	State Program	3	210	12-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chicago
2417 Bond Street
University Park, IL 60466
phone 708.534.5200 fax 708.534.5363

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record, 1st & 2nd Month of Quarter

UPS Ground 48qt.

TestAmerica Laboratories, Inc.

Client Contact
Central Wire Union Plant
6509 Olson Rd.
Union, IL 60180
(815) 923-2131 Phone
(815) 923-2126 Fax
500-154398 COC
1st 2 mos. of qtr
Union Plant
P O #

Project Manager: Robert Johnson
Tel/Fax: 815.923.4919; 815.923.2126

Analysis Turnaround Time
Calendar (C) or Work Days (W)
TAT if different from Below
[X] 2 weeks
[ ] 1 week
[ ] 2 days
[ ] 1 day

Site Contact: Robert Johnson
Lab Contact:

Date: 11/6/2018
Carrier: UPS

COC No: 223184
1 of 1 COCs
Job No. 500-154398
SDG No.

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (vials) 1, 2 Method 8260C	Metals* (250 ml jars) 1, 4	N + N (500 ml vials) 1, 3	pH 1, 6	Sample Specific Notes:
1	P&T Effluent	11/5	1400	G	GW	3	N	X				
	P&T pH		1400	G	GW	1	N				X	
2	North Pond		1345	G	GW	1	N		X			
	North Pond		1345	G	GW	1	N			X		
	North Pond		1345	G	GW	1	N				X	
3	South Pond		1350	G	GW	1	N		X			
	South Pond		1350	G	GW	1	N			X		
	South Pond		1350	G	GW	1	N				X	
4	Ex. 6 Personal Privacy (PP)		1415	G	GW	1	N	X				Method 8260C Full List
			1415	G	GW	1	N				X	
5			1420	G	GW	1	N	X				Method 8260C Full List
			1420	G	GW	1	N				X	
6	Trip Blank					1						

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

Possible Hazard Identification
[ ] *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* [X] *Disposal By Lab* [ ] *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments:
North Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selenium (Se)
South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni) & Selenium (Se)
VOCs Method 8260C

-0.5 → 1.0

Missed UPS on 11/5 Samples Kept on ice & refrigerated.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Bob Johnson	CWI 11/6	11:30	Sam Hendy	CWI	11/6/18 11:30 am
Sam Hendy	CWI 11/6/18	15:30	[illegible]	UPS	11/6/18 1530
			Sherri Scott	TA-ORT	11/7/18 0930

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

0.4/1.3

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Wright, Richard C	Carrier Tracking No(s):	COC No: 500-112946.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: richard.wright@testamericainc.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-154398-1
Address: 4101 Shuffel Street NW.	Due Date Requested: 11/20/2018			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #			
Email:	WO #:			
Project Name: Central Wire Union Plant	Project #: 50065584			
Site: Techalloy	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:

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)	8260C/5030C (MOD) Default List	8260C/5030C Default List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							MS
P&T (500-154398-1)	11/5/18	14:00 Central		Water			X		3	
	11/5/18	14:15 Central		Water				X	3	
	11/5/18	14:20 Central		Water				X	3	
Trip Blank (500-154398-6)	11/5/18	Central		Water			X		2	

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 compliance 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	Company	Received by	Date/Time	Company
Shirin Scott	11/7/18 1545	TA-CHI	GOP	11-8-18 945	TAL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver. 09/20/2016

EPA-R5-2019-007454_0001865

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

Client TA CHICAGO Site Name —

Cooler unpacked by: BOP

Cooler Received on 11-8-18 Opened on 11-9-18

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

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

TestAmerica Cooler # TA Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF +0.9 °C) Observed Cooler Temp. 0.4 °C Corrected Cooler Temp. 1.3 °C
   IR GUN #36 (CF +0.6°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   - Were tamper/custody seals intact and uncompromised? Yes No NA
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 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC850248
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. 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)

19. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

WI-NC-099

Login Sample Receipt Checklist

Client: Central Wire (Techalloy)

Job Number: 500-154398-1

Login Number: 154398
List Number: 1
Creator: Scott, Sherri L

List Source: TestAmerica Chicago

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	1.0
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	