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: 500-156391-1
Client Project/Site: Central Wire
Revision: 1

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

Attn: Robert Johnson

Authorized for release by:
1/3/2019 10:05:08 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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Case Narrative

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

TestAmerica Job ID: 500-156391-1

Job ID: 500-156391-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-156391-1

Revised Report
Sample ID's corrected in this revision.

Receipt
The samples were received on 12/18/2018 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 240-362149 was outside the method criteria for the following analyte(s): 2-Hexanone, 1,2,3-Trichlorobenzene, Dichlorodi fluoromethane, Bromoform, Trichlorofluoromethane,Hexachlorobutadiene and Bromomethane. 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. P&T Effluent (500-156391-3), P&T Well No. 1 (500-156391-4), P&T Well No. 2 (500-156391-5), S.B. Well No. 2 Restrooms (500-156391-6), Trip Blank (500-156391-7) and (CCVIS 240-362149/3)

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: North Pond — Lab Sample ID: 500-156391-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.1		2.0	0.50	ug/L	1		6020A	Total Recoverable
Iron	120		100	47	ug/L	1		6020A	Total Recoverable
Manganese	11		2.5	0.79	ug/L	1		6020A	Total Recoverable
Nickel	5.7		2.0	0.63	ug/L	1		6020A	Total Recoverable
pH	7.9	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: South Pond — Lab Sample ID: 500-156391-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	20		2.0	0.50	ug/L	1		6020A	Total Recoverable
Manganese	5.8		2.5	0.79	ug/L	1		6020A	Total Recoverable
Nickel	130		2.0	0.63	ug/L	1		6020A	Total Recoverable
Nitrogen, Nitrate-Nitrite	0.78		0.10	0.085	mg/L	1		353.2	Total/NA
pH	7.6	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: P&T Effluent — Lab Sample ID: 500-156391-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.37	J	1.0	0.24	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.3		1.0	0.17	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.25	J	1.0	0.19	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.16	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.43	J	1.0	0.15	ug/L	1		8260C	Total/NA
Trichloroethene	0.88	J	1.0	0.10	ug/L	1		8260C	Total/NA
pH	7.7	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: P&T Well No. 1 — Lab Sample ID: 500-156391-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.3	J	5.0	1.2	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	21		5.0	0.85	ug/L	5		8260C	Total/NA
1,1-Dichloroethene	7.1		5.0	0.95	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	87		5.0	0.80	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	1.0	J	5.0	0.95	ug/L	5		8260C	Total/NA
Trichloroethene	5.8		5.0	0.50	ug/L	5		8260C	Total/NA
pH	7.2	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: P&T Well No. 2 — Lab Sample ID: 500-156391-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	13		1.0	0.24	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.85	J	1.0	0.17	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.35	J	1.0	0.19	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.27	J	1.0	0.21	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.7		1.0	0.16	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Well No. 2 (Continued) — Lab Sample ID: 500-156391-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	24		1.0	0.15	ug/L	1		8260C	Total/NA
Trichloroethene	7.5		1.0	0.10	ug/L	1		8260C	Total/NA
pH	7.2	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Ex. 6 Personal Privacy (PP) — Lab Sample ID: 500-156391-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	7.2	HF	0.2	0.2	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-156391-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

TestAmerica Job ID: 500-156391-1

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 CF
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 CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
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

TestAmerica Job ID: 500-156391-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-156391-1	North Pond	Water	12/17/18 11:45	12/18/18 10:25
500-156391-2	South Pond	Water	12/17/18 11:50	12/18/18 10:25
500-156391-3	P&T Effluent	Water	12/17/18 12:00	12/18/18 10:25
500-156391-4	P&T Well No. 1	Water	12/17/18 12:20	12/18/18 10:25
500-156391-5	P&T Well No. 2	Water	12/17/18 13:00	12/18/18 10:25
500-156391-6	Ex. 6 Personal Privacy (PP)	Water	12/17/18 12:35	12/18/18 10:25
500-156391-7	Trip Blank	Water	12/17/18 00:00	12/18/18 10:25

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: North Pond

Lab Sample ID: 500-156391-1
Date Collected: 12/17/18 11:45
Matrix: Water
Date Received: 12/18/18 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.17		0.50	0.17	ug/L		12/18/18 15:52	12/20/18 12:52	1
Copper	**2.1**		2.0	0.50	ug/L		12/18/18 15:52	12/20/18 12:52	1
Iron	**120**		100	47	ug/L		12/18/18 15:52	12/20/18 12:52	1
Lead	<0.19		0.50	0.19	ug/L		12/18/18 15:52	12/20/18 12:52	1
Manganese	**11**		2.5	0.79	ug/L		12/18/18 15:52	12/20/18 12:52	1
Nickel	**5.7**		2.0	0.63	ug/L		12/18/18 15:52	12/20/18 12:52	1
Selenium	<0.98		2.5	0.98	ug/L		12/18/18 15:52	12/20/18 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate-Nitrite	<0.085		0.10	0.085	mg/L			12/27/18 17:48	1
pH	**7.9**	**HF**	0.2	0.2	SU			12/18/18 16:20	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: South Pond

Lab Sample ID: 500-156391-2

Date Collected: 12/17/18 11:50
Date Received: 12/18/18 10:25

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.17		0.50	0.17	ug/L		12/18/18 15:52	12/20/18 12:56	1
Copper	**20**		2.0	0.50	ug/L		12/18/18 15:52	12/20/18 12:56	1
Iron	<47		100	47	ug/L		12/18/18 15:52	12/20/18 12:56	1
Lead	<0.19		0.50	0.19	ug/L		12/18/18 15:52	12/20/18 12:56	1
Manganese	**5.8**		2.5	0.79	ug/L		12/18/18 15:52	12/20/18 12:56	1
Nickel	**130**		2.0	0.63	ug/L		12/18/18 15:52	12/20/18 12:56	1
Selenium	<0.98		2.5	0.98	ug/L		12/18/18 15:52	12/20/18 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate-Nitrite	**0.78**		0.10	0.085	mg/L			12/27/18 17:49	1
pH	**7.6**	**HF**	0.2	0.2	SU			12/18/18 16:25	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Effluent

Lab Sample ID: 500-156391-3

Date Collected: 12/17/18 12:00
Date Received: 12/18/18 10:25

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			12/28/18 19:58	1
1,1,1-Trichloroethane	**0.37**	**J**	1.0	0.24	ug/L			12/28/18 19:58	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			12/28/18 19:58	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			12/28/18 19:58	1
1,1-Dichloroethane	**3.3**		1.0	0.17	ug/L			12/28/18 19:58	1
1,1-Dichloroethene	**0.25**	**J**	1.0	0.19	ug/L			12/28/18 19:58	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			12/28/18 19:58	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			12/28/18 19:58	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			12/28/18 19:58	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			12/28/18 19:58	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			12/28/18 19:58	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			12/28/18 19:58	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			12/28/18 19:58	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 19:58	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			12/28/18 19:58	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			12/28/18 19:58	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			12/28/18 19:58	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 19:58	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			12/28/18 19:58	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			12/28/18 19:58	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			12/28/18 19:58	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			12/28/18 19:58	1
2-Hexanone	<0.54		10	0.54	ug/L			12/28/18 19:58	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			12/28/18 19:58	1
Acetone	<5.4		10	5.4	ug/L			12/28/18 19:58	1
Benzene	<0.13		1.0	0.13	ug/L			12/28/18 19:58	1
Bromobenzene	<0.12		1.0	0.12	ug/L			12/28/18 19:58	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			12/28/18 19:58	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			12/28/18 19:58	1
Bromoform	<0.76		1.0	0.76	ug/L			12/28/18 19:58	1
Bromomethane	<0.42		1.0	0.42	ug/L			12/28/18 19:58	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			12/28/18 19:58	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			12/28/18 19:58	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			12/28/18 19:58	1
Chloroethane	<0.83		1.0	0.83	ug/L			12/28/18 19:58	1
Chloroform	<0.13		1.0	0.13	ug/L			12/28/18 19:58	1
Chloromethane	<0.20		1.0	0.20	ug/L			12/28/18 19:58	1
cis-1,2-Dichloroethene	**20**		1.0	0.16	ug/L			12/28/18 19:58	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			12/28/18 19:58	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/28/18 19:58	1
Dibromomethane	<0.090		1.0	0.090	ug/L			12/28/18 19:58	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			12/28/18 19:58	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			12/28/18 19:58	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			12/28/18 19:58	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			12/28/18 19:58	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			12/28/18 19:58	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			12/28/18 19:58	1
methyl isobutyl ketone	<0.42		10	0.42	ug/L			12/28/18 19:58	1
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			12/28/18 19:58	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Effluent

Lab Sample ID: 500-156391-3

Date Collected: 12/17/18 12:00
Date Received: 12/18/18 10:25

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			12/28/18 19:58	1
Naphthalene	<0.32		1.0	0.32	ug/L			12/28/18 19:58	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 19:58	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			12/28/18 19:58	1
o-Xylene	<0.090		1.0	0.090	ug/L			12/28/18 19:58	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			12/28/18 19:58	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			12/28/18 19:58	1
Styrene	<0.10		1.0	0.10	ug/L			12/28/18 19:58	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 19:58	1
Tetrachloroethene	**0.43**	**J**	1.0	0.15	ug/L			12/28/18 19:58	1
Toluene	<0.14		1.0	0.14	ug/L			12/28/18 19:58	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 19:58	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			12/28/18 19:58	1
Trichloroethene	**0.88**	**J**	1.0	0.10	ug/L			12/28/18 19:58	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			12/28/18 19:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/28/18 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 121*		*12/28/18 19:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*59 - 120*		*12/28/18 19:58*	*1*
Toluene-d8 (Surr)	*99*		*70 - 123*		*12/28/18 19:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.7**	**HF**	0.2	0.2	SU			12/18/18 16:50	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Well No. 1

Lab Sample ID: 500-156391-4

Date Collected: 12/17/18 12:20
Date Received: 12/18/18 10:25

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	<0.70		5.0	0.70	ug/L			12/28/18 20:23	5
1,1,1-Trichloroethane	**3.3**	**J**	5.0	1.2	ug/L			12/28/18 20:23	5
1,1,2,2-Tetrachloroethane	<0.65		5.0	0.65	ug/L			12/28/18 20:23	5
1,1,2-Trichloroethane	<0.45		5.0	0.45	ug/L			12/28/18 20:23	5
1,1-Dichloroethane	**21**		5.0	0.85	ug/L			12/28/18 20:23	5
1,1-Dichloroethene	**7.1**		5.0	0.95	ug/L			12/28/18 20:23	5
1,1-Dichloropropene	<0.70		5.0	0.70	ug/L			12/28/18 20:23	5
1,2,3-Trichlorobenzene	<2.7		5.0	2.7	ug/L			12/28/18 20:23	5
1,2,3-Trichloropropane	<1.2		5.0	1.2	ug/L			12/28/18 20:23	5
1,2,4-Trichlorobenzene	<1.3		5.0	1.3	ug/L			12/28/18 20:23	5
1,2,4-Trimethylbenzene	<0.35		5.0	0.35	ug/L			12/28/18 20:23	5
1,2-Dibromo-3-Chloropropane	<4.6		10	4.6	ug/L			12/28/18 20:23	5
1,2-Dibromoethane	<0.60		5.0	0.60	ug/L			12/28/18 20:23	5
1,2-Dichlorobenzene	<0.75		5.0	0.75	ug/L			12/28/18 20:23	5
1,2-Dichloroethane	<1.1		5.0	1.1	ug/L			12/28/18 20:23	5
1,2-Dichloropropane	<0.75		5.0	0.75	ug/L			12/28/18 20:23	5
1,3,5-Trimethylbenzene	<0.60		5.0	0.60	ug/L			12/28/18 20:23	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			12/28/18 20:23	5
1,3-Dichloropropane	<1.1		5.0	1.1	ug/L			12/28/18 20:23	5
1,4-Dichlorobenzene	<0.80		5.0	0.80	ug/L			12/28/18 20:23	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			12/28/18 20:23	5
2-Chlorotoluene	<0.75		5.0	0.75	ug/L			12/28/18 20:23	5
2-Hexanone	<2.7		50	2.7	ug/L			12/28/18 20:23	5
4-Chlorotoluene	<0.45		5.0	0.45	ug/L			12/28/18 20:23	5
Acetone	<27		50	27	ug/L			12/28/18 20:23	5
Benzene	<0.65		5.0	0.65	ug/L			12/28/18 20:23	5
Bromobenzene	<0.60		5.0	0.60	ug/L			12/28/18 20:23	5
Bromochloromethane	<0.70		5.0	0.70	ug/L			12/28/18 20:23	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			12/28/18 20:23	5
Bromoform	<3.8		5.0	3.8	ug/L			12/28/18 20:23	5
Bromomethane	<2.1		5.0	2.1	ug/L			12/28/18 20:23	5
Carbon disulfide	<1.4		5.0	1.4	ug/L			12/28/18 20:23	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			12/28/18 20:23	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			12/28/18 20:23	5
Chloroethane	<4.2		5.0	4.2	ug/L			12/28/18 20:23	5
Chloroform	<0.65		5.0	0.65	ug/L			12/28/18 20:23	5
Chloromethane	<1.0		5.0	1.0	ug/L			12/28/18 20:23	5
cis-1,2-Dichloroethene	**87**		5.0	0.80	ug/L			12/28/18 20:23	5
cis-1,3-Dichloropropene	<3.1		5.0	3.1	ug/L			12/28/18 20:23	5
Dibromochloromethane	<2.0		5.0	2.0	ug/L			12/28/18 20:23	5
Dibromomethane	<0.45		5.0	0.45	ug/L			12/28/18 20:23	5
Dichlorodifluoromethane	<1.8		5.0	1.8	ug/L			12/28/18 20:23	5
Ethylbenzene	<0.55		5.0	0.55	ug/L			12/28/18 20:23	5
Hexachlorobutadiene	<4.2		5.0	4.2	ug/L			12/28/18 20:23	5
Isopropylbenzene	<0.45		5.0	0.45	ug/L			12/28/18 20:23	5
m&p-Xylene	<0.40		10	0.40	ug/L			12/28/18 20:23	5
Methyl Ethyl Ketone	<5.8		50	5.8	ug/L			12/28/18 20:23	5
methyl isobutyl ketone	<2.1		50	2.1	ug/L			12/28/18 20:23	5
Methyl tert-butyl ether	<0.35		5.0	0.35	ug/L			12/28/18 20:23	5

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Well No. 1

Lab Sample ID: 500-156391-4

Date Collected: 12/17/18 12:20
Date Received: 12/18/18 10:25

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<13		25	13	ug/L			12/28/18 20:23	5
Naphthalene	<1.6		5.0	1.6	ug/L			12/28/18 20:23	5
n-Butylbenzene	<0.70		5.0	0.70	ug/L			12/28/18 20:23	5
N-Propylbenzene	<0.75		5.0	0.75	ug/L			12/28/18 20:23	5
o-Xylene	<0.45		5.0	0.45	ug/L			12/28/18 20:23	5
p-Isopropyltoluene	<0.65		5.0	0.65	ug/L			12/28/18 20:23	5
sec-Butylbenzene	<0.65		5.0	0.65	ug/L			12/28/18 20:23	5
Styrene	<0.50		5.0	0.50	ug/L			12/28/18 20:23	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			12/28/18 20:23	5
Tetrachloroethene	<0.75		5.0	0.75	ug/L			12/28/18 20:23	5
Toluene	<0.70		5.0	0.70	ug/L			12/28/18 20:23	5
trans-1,2-Dichloroethene	**1.0**	**J**	5.0	0.95	ug/L			12/28/18 20:23	5
trans-1,3-Dichloropropene	<3.4		5.0	3.4	ug/L			12/28/18 20:23	5
Trichloroethene	**5.8**		5.0	0.50	ug/L			12/28/18 20:23	5
Trichlorofluoromethane	<2.3		5.0	2.3	ug/L			12/28/18 20:23	5
Vinyl chloride	<1.0		5.0	1.0	ug/L			12/28/18 20:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 121*		*12/28/18 20:23*	*5*
4-Bromofluorobenzene (Surr)	*97*		*59 - 120*		*12/28/18 20:23*	*5*
Toluene-d8 (Surr)	*103*		*70 - 123*		*12/28/18 20:23*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.2	0.2	SU			12/18/18 16:50	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Well No. 2

Lab Sample ID: 500-156391-5

Date Collected: 12/17/18 13:00
Date Received: 12/18/18 10:25

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			12/28/18 20:47	1
1,1,1-Trichloroethane	**13**		1.0	0.24	ug/L			12/28/18 20:47	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			12/28/18 20:47	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			12/28/18 20:47	1
1,1-Dichloroethane	**0.85**	J	1.0	0.17	ug/L			12/28/18 20:47	1
1,1-Dichloroethene	**0.35**	J	1.0	0.19	ug/L			12/28/18 20:47	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			12/28/18 20:47	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			12/28/18 20:47	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			12/28/18 20:47	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			12/28/18 20:47	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			12/28/18 20:47	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			12/28/18 20:47	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			12/28/18 20:47	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 20:47	1
1,2-Dichloroethane	**0.27**	J	1.0	0.21	ug/L			12/28/18 20:47	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			12/28/18 20:47	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			12/28/18 20:47	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 20:47	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			12/28/18 20:47	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			12/28/18 20:47	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			12/28/18 20:47	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			12/28/18 20:47	1
2-Hexanone	<0.54		10	0.54	ug/L			12/28/18 20:47	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			12/28/18 20:47	1
Acetone	<5.4		10	5.4	ug/L			12/28/18 20:47	1
Benzene	<0.13		1.0	0.13	ug/L			12/28/18 20:47	1
Bromobenzene	<0.12		1.0	0.12	ug/L			12/28/18 20:47	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			12/28/18 20:47	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			12/28/18 20:47	1
Bromoform	<0.76		1.0	0.76	ug/L			12/28/18 20:47	1
Bromomethane	<0.42		1.0	0.42	ug/L			12/28/18 20:47	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			12/28/18 20:47	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			12/28/18 20:47	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			12/28/18 20:47	1
Chloroethane	<0.83		1.0	0.83	ug/L			12/28/18 20:47	1
Chloroform	<0.13		1.0	0.13	ug/L			12/28/18 20:47	1
Chloromethane	<0.20		1.0	0.20	ug/L			12/28/18 20:47	1
cis-1,2-Dichloroethene	**1.7**		1.0	0.16	ug/L			12/28/18 20:47	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			12/28/18 20:47	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/28/18 20:47	1
Dibromomethane	<0.090		1.0	0.090	ug/L			12/28/18 20:47	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			12/28/18 20:47	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			12/28/18 20:47	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			12/28/18 20:47	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			12/28/18 20:47	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			12/28/18 20:47	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			12/28/18 20:47	1
methyl isobutyl ketone	<0.42		10	0.42	ug/L			12/28/18 20:47	1
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			12/28/18 20:47	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Well No. 2

Lab Sample ID: 500-156391-5

Date Collected: 12/17/18 13:00
Date Received: 12/18/18 10:25

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			12/28/18 20:47	1
Naphthalene	<0.32		1.0	0.32	ug/L			12/28/18 20:47	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 20:47	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			12/28/18 20:47	1
o-Xylene	<0.090		1.0	0.090	ug/L			12/28/18 20:47	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			12/28/18 20:47	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			12/28/18 20:47	1
Styrene	<0.10		1.0	0.10	ug/L			12/28/18 20:47	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 20:47	1
Tetrachloroethene	**24**		1.0	0.15	ug/L			12/28/18 20:47	1
Toluene	<0.14		1.0	0.14	ug/L			12/28/18 20:47	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 20:47	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			12/28/18 20:47	1
Trichloroethene	**7.5**		1.0	0.10	ug/L			12/28/18 20:47	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			12/28/18 20:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/28/18 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 121*		*12/28/18 20:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*59 - 120*		*12/28/18 20:47*	*1*
Toluene-d8 (Surr)	*98*		*70 - 123*		*12/28/18 20:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.2	0.2	SU			12/18/18 16:50	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: Ex. 6 Personal Privacy (PP)
Date Collected: 12/17/18 12:35
Date Received: 12/18/18 10:25

Lab Sample ID: 500-156391-6
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			12/28/18 21:12	1
1,1,1-Trichloroethane	<0.24		1.0	0.24	ug/L			12/28/18 21:12	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			12/28/18 21:12	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			12/28/18 21:12	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			12/28/18 21:12	1
1,1-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 21:12	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			12/28/18 21:12	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			12/28/18 21:12	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			12/28/18 21:12	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			12/28/18 21:12	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			12/28/18 21:12	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			12/28/18 21:12	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			12/28/18 21:12	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 21:12	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			12/28/18 21:12	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			12/28/18 21:12	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			12/28/18 21:12	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 21:12	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			12/28/18 21:12	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			12/28/18 21:12	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			12/28/18 21:12	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			12/28/18 21:12	1
2-Hexanone	<0.54		10	0.54	ug/L			12/28/18 21:12	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			12/28/18 21:12	1
Acetone	<5.4		10	5.4	ug/L			12/28/18 21:12	1
Benzene	<0.13		1.0	0.13	ug/L			12/28/18 21:12	1
Bromobenzene	<0.12		1.0	0.12	ug/L			12/28/18 21:12	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			12/28/18 21:12	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			12/28/18 21:12	1
Bromoform	<0.76		1.0	0.76	ug/L			12/28/18 21:12	1
Bromomethane	<0.42		1.0	0.42	ug/L			12/28/18 21:12	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			12/28/18 21:12	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			12/28/18 21:12	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			12/28/18 21:12	1
Chloroethane	<0.83		1.0	0.83	ug/L			12/28/18 21:12	1
Chloroform	<0.13		1.0	0.13	ug/L			12/28/18 21:12	1
Chloromethane	<0.20		1.0	0.20	ug/L			12/28/18 21:12	1
cis-1,2-Dichloroethene	<0.16		1.0	0.16	ug/L			12/28/18 21:12	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			12/28/18 21:12	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/28/18 21:12	1
Dibromomethane	<0.090		1.0	0.090	ug/L			12/28/18 21:12	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			12/28/18 21:12	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			12/28/18 21:12	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			12/28/18 21:12	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			12/28/18 21:12	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			12/28/18 21:12	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			12/28/18 21:12	1
methyl isobutyl ketone	<0.42		10	0.42	ug/L			12/28/18 21:12	1
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			12/28/18 21:12	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: Ex. 6 Personal Privacy (PP)
Date Collected: 12/17/18 12:35
Date Received: 12/18/18 10:25

Lab Sample ID: 500-156391-6
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			12/28/18 21:12	1
Naphthalene	<0.32		1.0	0.32	ug/L			12/28/18 21:12	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 21:12	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			12/28/18 21:12	1
o-Xylene	<0.090		1.0	0.090	ug/L			12/28/18 21:12	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			12/28/18 21:12	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			12/28/18 21:12	1
Styrene	<0.10		1.0	0.10	ug/L			12/28/18 21:12	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 21:12	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			12/28/18 21:12	1
Toluene	<0.14		1.0	0.14	ug/L			12/28/18 21:12	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 21:12	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			12/28/18 21:12	1
Trichloroethene	<0.10		1.0	0.10	ug/L			12/28/18 21:12	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			12/28/18 21:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/28/18 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 121*		*12/28/18 21:12*	*1*
4-Bromofluorobenzene (Surr)	*94*		*59 - 120*		*12/28/18 21:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 123*		*12/28/18 21:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.2	0.2	SU			12/18/18 16:50	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-156391-7

Date Collected: 12/17/18 00:00
Date Received: 12/18/18 10:25

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			12/28/18 21:37	1
1,1,1-Trichloroethane	<0.24		1.0	0.24	ug/L			12/28/18 21:37	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			12/28/18 21:37	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			12/28/18 21:37	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			12/28/18 21:37	1
1,1-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 21:37	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			12/28/18 21:37	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			12/28/18 21:37	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			12/28/18 21:37	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			12/28/18 21:37	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			12/28/18 21:37	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			12/28/18 21:37	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			12/28/18 21:37	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 21:37	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			12/28/18 21:37	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			12/28/18 21:37	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			12/28/18 21:37	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 21:37	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			12/28/18 21:37	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			12/28/18 21:37	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			12/28/18 21:37	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			12/28/18 21:37	1
2-Hexanone	<0.54		10	0.54	ug/L			12/28/18 21:37	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			12/28/18 21:37	1
Acetone	<5.4		10	5.4	ug/L			12/28/18 21:37	1
Benzene	<0.13		1.0	0.13	ug/L			12/28/18 21:37	1
Bromobenzene	<0.12		1.0	0.12	ug/L			12/28/18 21:37	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			12/28/18 21:37	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			12/28/18 21:37	1
Bromoform	<0.76		1.0	0.76	ug/L			12/28/18 21:37	1
Bromomethane	<0.42		1.0	0.42	ug/L			12/28/18 21:37	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			12/28/18 21:37	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			12/28/18 21:37	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			12/28/18 21:37	1
Chloroethane	<0.83		1.0	0.83	ug/L			12/28/18 21:37	1
Chloroform	<0.13		1.0	0.13	ug/L			12/28/18 21:37	1
Chloromethane	<0.20		1.0	0.20	ug/L			12/28/18 21:37	1
cis-1,2-Dichloroethene	<0.16		1.0	0.16	ug/L			12/28/18 21:37	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			12/28/18 21:37	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/28/18 21:37	1
Dibromomethane	<0.090		1.0	0.090	ug/L			12/28/18 21:37	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			12/28/18 21:37	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			12/28/18 21:37	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			12/28/18 21:37	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			12/28/18 21:37	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			12/28/18 21:37	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			12/28/18 21:37	1
methyl isobutyl ketone	<0.42		10	0.42	ug/L			12/28/18 21:37	1
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			12/28/18 21:37	1

Client Sample Results

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-156391-7

Date Collected: 12/17/18 00:00
Date Received: 12/18/18 10:25

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			12/28/18 21:37	1
Naphthalene	<0.32		1.0	0.32	ug/L			12/28/18 21:37	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 21:37	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			12/28/18 21:37	1
o-Xylene	<0.090		1.0	0.090	ug/L			12/28/18 21:37	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			12/28/18 21:37	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			12/28/18 21:37	1
Styrene	<0.10		1.0	0.10	ug/L			12/28/18 21:37	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 21:37	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			12/28/18 21:37	1
Toluene	<0.14		1.0	0.14	ug/L			12/28/18 21:37	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 21:37	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			12/28/18 21:37	1
Trichloroethene	<0.10		1.0	0.10	ug/L			12/28/18 21:37	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			12/28/18 21:37	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/28/18 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 121*		*12/28/18 21:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*59 - 120*		*12/28/18 21:37*	*1*
Toluene-d8 (Surr)	*103*		*70 - 123*		*12/28/18 21:37*	*1*

Definitions/Glossary

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

TestAmerica Job ID: 500-156391-1

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

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

TestAmerica Job ID: 500-156391-1

GC/MS VOA

Analysis Batch: 362149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156391-3	P&T Effluent	Total/NA	Water	8260C	
500-156391-4	P&T Well No. 1	Total/NA	Water	8260C	
500-156391-5	P&T Well No. 2	Total/NA	Water	8260C	
500-156391-6	Ex. 6 Personal Privacy (PP)	Total/NA	Water	8260C	
500-156391-7	Trip Blank	Total/NA	Water	8260C	
MB 240-362149/8	Method Blank	Total/NA	Water	8260C	
LCS 240-362149/5	Lab Control Sample	Total/NA	Water	8260C	
500-156391-4 MS	P&T Well No. 1	Total/NA	Water	8260C	
500-156391-4 MSD	P&T Well No. 1	Total/NA	Water	8260C	

Metals

Prep Batch: 465323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156391-1	North Pond	Total Recoverable	Water	3005A	
500-156391-2	South Pond	Total Recoverable	Water	3005A	
MB 500-465323/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-465323/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 465744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156391-1	North Pond	Total Recoverable	Water	6020A	465323
500-156391-2	South Pond	Total Recoverable	Water	6020A	465323
MB 500-465323/1-A	Method Blank	Total Recoverable	Water	6020A	465323
LCS 500-465323/2-A	Lab Control Sample	Total Recoverable	Water	6020A	465323

General Chemistry

Analysis Batch: 226502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156391-1	North Pond	Total/NA	Water	353.2	
500-156391-2	South Pond	Total/NA	Water	353.2	
MB 310-226502/7	Method Blank	Total/NA	Water	353.2	
LCS 310-226502/4 ^10	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 465318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-156391-1	North Pond	Total/NA	Water	SM 4500 H+ B	
500-156391-2	South Pond	Total/NA	Water	SM 4500 H+ B	
500-156391-3	P&T Effluent	Total/NA	Water	SM 4500 H+ B	
500-156391-4	P&T Well No. 1	Total/NA	Water	SM 4500 H+ B	
500-156391-5	P&T Well No. 2	Total/NA	Water	SM 4500 H+ B	
500-156391-6	Ex. 6 Personal Privacy (PP)	Total/NA	Water	SM 4500 H+ B	
500-156391-1 DU	North Pond	Total/NA	Water	SM 4500 H+ B	
500-156391-2 DU	South Pond	Total/NA	Water	SM 4500 H+ B	
500-156391-3 DU	P&T Effluent	Total/NA	Water	SM 4500 H+ B	
500-156391-4 DU	P&T Well No. 1	Total/NA	Water	SM 4500 H+ B	
500-156391-5 DU	P&T Well No. 2	Total/NA	Water	SM 4500 H+ B	
500-156391-6 DU	Ex. 6 Personal Privacy (PP)	Total/NA	Water	SM 4500 H+ B	

Surrogate Summary

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

TestAmerica Job ID: 500-156391-1

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)
500-156391-3	P&T Effluent	112	93	99
500-156391-4	P&T Well No. 1	115	97	103
500-156391-4 MS	P&T Well No. 1	111	100	107
500-156391-4 MSD	P&T Well No. 1	112	101	105
500-156391-5	P&T Well No. 2	111	93	98
500-156391-6	Ex. 6 Personal Privacy (PP)	114	94	101
500-156391-7	Trip Blank	113	96	103
LCS 240-362149/5	Lab Control Sample	112	103	107
MB 240-362149/8	Method Blank	118	101	106

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: MB 240-362149/8
Matrix: Water
Analysis Batch: 362149

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			12/28/18 13:23	1
1,1,1-Trichloroethane	<0.24		1.0	0.24	ug/L			12/28/18 13:23	1
1,1,2,2-Tetrachloroethane	<0.13		1.0	0.13	ug/L			12/28/18 13:23	1
1,1,2-Trichloroethane	<0.090		1.0	0.090	ug/L			12/28/18 13:23	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			12/28/18 13:23	1
1,1-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 13:23	1
1,1-Dichloropropene	<0.14		1.0	0.14	ug/L			12/28/18 13:23	1
1,2,3-Trichlorobenzene	<0.54		1.0	0.54	ug/L			12/28/18 13:23	1
1,2,3-Trichloropropane	<0.24		1.0	0.24	ug/L			12/28/18 13:23	1
1,2,4-Trichlorobenzene	<0.26		1.0	0.26	ug/L			12/28/18 13:23	1
1,2,4-Trimethylbenzene	<0.070		1.0	0.070	ug/L			12/28/18 13:23	1
1,2-Dibromo-3-Chloropropane	<0.91		2.0	0.91	ug/L			12/28/18 13:23	1
1,2-Dibromoethane	<0.12		1.0	0.12	ug/L			12/28/18 13:23	1
1,2-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 13:23	1
1,2-Dichloroethane	<0.21		1.0	0.21	ug/L			12/28/18 13:23	1
1,2-Dichloropropane	<0.15		1.0	0.15	ug/L			12/28/18 13:23	1
1,3,5-Trimethylbenzene	<0.12		1.0	0.12	ug/L			12/28/18 13:23	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			12/28/18 13:23	1
1,3-Dichloropropane	<0.21		1.0	0.21	ug/L			12/28/18 13:23	1
1,4-Dichlorobenzene	<0.16		1.0	0.16	ug/L			12/28/18 13:23	1
2,2-Dichloropropane	<0.31		1.0	0.31	ug/L			12/28/18 13:23	1
2-Chlorotoluene	<0.15		1.0	0.15	ug/L			12/28/18 13:23	1
2-Hexanone	<0.54		10	0.54	ug/L			12/28/18 13:23	1
4-Chlorotoluene	<0.090		1.0	0.090	ug/L			12/28/18 13:23	1
Acetone	<5.4		10	5.4	ug/L			12/28/18 13:23	1
Benzene	<0.13		1.0	0.13	ug/L			12/28/18 13:23	1
Bromobenzene	<0.12		1.0	0.12	ug/L			12/28/18 13:23	1
Bromochloromethane	<0.14		1.0	0.14	ug/L			12/28/18 13:23	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			12/28/18 13:23	1
Bromoform	<0.76		1.0	0.76	ug/L			12/28/18 13:23	1
Bromomethane	<0.42		1.0	0.42	ug/L			12/28/18 13:23	1
Carbon disulfide	<0.28		1.0	0.28	ug/L			12/28/18 13:23	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			12/28/18 13:23	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			12/28/18 13:23	1
Chloroethane	<0.83		1.0	0.83	ug/L			12/28/18 13:23	1
Chloroform	<0.13		1.0	0.13	ug/L			12/28/18 13:23	1
Chloromethane	<0.20		1.0	0.20	ug/L			12/28/18 13:23	1
cis-1,2-Dichloroethene	<0.16		1.0	0.16	ug/L			12/28/18 13:23	1
cis-1,3-Dichloropropene	<0.61		1.0	0.61	ug/L			12/28/18 13:23	1
Dibromochloromethane	<0.39		1.0	0.39	ug/L			12/28/18 13:23	1
Dibromomethane	<0.090		1.0	0.090	ug/L			12/28/18 13:23	1
Dichlorodifluoromethane	<0.35		1.0	0.35	ug/L			12/28/18 13:23	1
Ethylbenzene	<0.11		1.0	0.11	ug/L			12/28/18 13:23	1
Hexachlorobutadiene	<0.83		1.0	0.83	ug/L			12/28/18 13:23	1
Isopropylbenzene	<0.090		1.0	0.090	ug/L			12/28/18 13:23	1
m&p-Xylene	<0.080		2.0	0.080	ug/L			12/28/18 13:23	1
Methyl Ethyl Ketone	<1.2		10	1.2	ug/L			12/28/18 13:23	1
methyl isobutyl ketone	<0.42		10	0.42	ug/L			12/28/18 13:23	1

QC Sample Results

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: MB 240-362149/8
Matrix: Water
Analysis Batch: 362149

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.070		1.0	0.070	ug/L			12/28/18 13:23	1
Methylene Chloride	<2.6		5.0	2.6	ug/L			12/28/18 13:23	1
Naphthalene	<0.32		1.0	0.32	ug/L			12/28/18 13:23	1
n-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 13:23	1
N-Propylbenzene	<0.15		1.0	0.15	ug/L			12/28/18 13:23	1
o-Xylene	<0.090		1.0	0.090	ug/L			12/28/18 13:23	1
p-Isopropyltoluene	<0.13		1.0	0.13	ug/L			12/28/18 13:23	1
sec-Butylbenzene	<0.13		1.0	0.13	ug/L			12/28/18 13:23	1
Styrene	<0.10		1.0	0.10	ug/L			12/28/18 13:23	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			12/28/18 13:23	1
Tetrachloroethene	<0.15		1.0	0.15	ug/L			12/28/18 13:23	1
Toluene	<0.14		1.0	0.14	ug/L			12/28/18 13:23	1
trans-1,2-Dichloroethene	<0.19		1.0	0.19	ug/L			12/28/18 13:23	1
trans-1,3-Dichloropropene	<0.67		1.0	0.67	ug/L			12/28/18 13:23	1
Trichloroethene	<0.10		1.0	0.10	ug/L			12/28/18 13:23	1
Trichlorofluoromethane	<0.45		1.0	0.45	ug/L			12/28/18 13:23	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/28/18 13:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 121*		*12/28/18 13:23*	*1*
4-Bromofluorobenzene (Surr)	*101*		*59 - 120*		*12/28/18 13:23*	*1*
Toluene-d8 (Surr)	*106*		*70 - 123*		*12/28/18 13:23*	*1*

Lab Sample ID: LCS 240-362149/5
Matrix: Water
Analysis Batch: 362149

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	20.5		ug/L		103	80 - 124
1,1,1-Trichloroethane	20.0	22.7		ug/L		114	69 - 134
1,1,2,2-Tetrachloroethane	20.0	20.0		ug/L		100	65 - 139
1,1,2-Trichloroethane	20.0	20.5		ug/L		102	78 - 133
1,1-Dichloroethane	20.0	22.8		ug/L		114	75 - 133
1,1-Dichloroethene	20.0	22.4		ug/L		112	65 - 139
1,1-Dichloropropene	20.0	22.9		ug/L		115	78 - 126
1,2,3-Trichlorobenzene	20.0	16.3		ug/L		81	39 - 138
1,2,3-Trichloropropane	20.0	20.0		ug/L		100	66 - 139
1,2,4-Trichlorobenzene	20.0	17.3		ug/L		86	42 - 133
1,2,4-Trimethylbenzene	20.0	20.9		ug/L		105	74 - 120
1,2-Dibromo-3-Chloropropane	20.0	15.7		ug/L		79	46 - 132
1,2-Dibromoethane	20.0	19.7		ug/L		98	77 - 123
1,2-Dichlorobenzene	20.0	19.5		ug/L		98	78 - 120
1,2-Dichloroethane	20.0	22.2		ug/L		111	71 - 135
1,2-Dichloropropane	20.0	22.5		ug/L		113	78 - 133
1,3,5-Trimethylbenzene	20.0	21.5		ug/L		108	75 - 121
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	78 - 120
1,3-Dichloropropane	20.0	20.3		ug/L		102	72 - 134
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	78 - 120

QC Sample Results

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: LCS 240-362149/5
Matrix: Water
Analysis Batch: 362149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	20.0	22.4		ug/L		112	42 - 150
2-Chlorotoluene	20.0	20.7		ug/L		104	78 - 123
2-Hexanone	40.0	41.8		ug/L		105	43 - 148
4-Chlorotoluene	20.0	21.5		ug/L		107	77 - 125
Acetone	40.0	39.0		ug/L		97	21 - 162
Benzene	20.0	22.3		ug/L		111	80 - 123
Bromobenzene	20.0	20.1		ug/L		100	74 - 129
Bromochloromethane	20.0	20.2		ug/L		101	74 - 130
Bromodichloromethane	20.0	21.1		ug/L		106	77 - 125
Bromoform	20.0	16.3		ug/L		81	49 - 141
Bromomethane	20.0	9.04		ug/L		45	41 - 175
Carbon disulfide	20.0	21.0		ug/L		105	60 - 138
Carbon tetrachloride	20.0	21.8		ug/L		109	63 - 140
Chlorobenzene	20.0	21.2		ug/L		106	80 - 121
Chloroethane	20.0	23.8		ug/L		119	33 - 173
Chloroform	20.0	22.5		ug/L		112	79 - 127
Chloromethane	20.0	22.3		ug/L		112	54 - 143
cis-1,2-Dichloroethene	20.0	21.9		ug/L		110	76 - 128
cis-1,3-Dichloropropene	20.0	21.1		ug/L		106	64 - 132
Dibromochloromethane	20.0	18.9		ug/L		95	70 - 132
Dibromomethane	20.0	20.3		ug/L		102	74 - 124
Dichlorodifluoromethane	20.0	22.5		ug/L		112	29 - 148
Ethylbenzene	20.0	21.5		ug/L		107	80 - 120
Hexachlorobutadiene	20.0	17.2		ug/L		86	38 - 136
Isopropylbenzene	20.0	21.6		ug/L		108	74 - 120
m&p-Xylene	20.0	21.3		ug/L		106	80 - 120
Methyl Ethyl Ketone	40.0	42.8		ug/L		107	39 - 163
methyl isobutyl ketone	40.0	43.2		ug/L		108	49 - 143
Methyl tert-butyl ether	20.0	20.4		ug/L		102	51 - 133
Methylene Chloride	20.0	20.5		ug/L		103	70 - 134
Naphthalene	20.0	15.9		ug/L		80	28 - 141
n-Butylbenzene	20.0	21.8		ug/L		109	57 - 126
N-Propylbenzene	20.0	21.6		ug/L		108	77 - 123
o-Xylene	20.0	20.9		ug/L		104	80 - 120
p-Isopropyltoluene	20.0	21.6		ug/L		108	69 - 122
sec-Butylbenzene	20.0	21.9		ug/L		110	68 - 123
Styrene	20.0	20.0		ug/L		100	79 - 120
tert-Butylbenzene	20.0	21.3		ug/L		107	70 - 121
Tetrachloroethene	20.0	21.1		ug/L		106	74 - 130
Toluene	20.0	21.6		ug/L		108	78 - 129
trans-1,2-Dichloroethene	20.0	22.1		ug/L		110	78 - 133
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	55 - 128
Trichloroethene	20.0	21.0		ug/L		105	76 - 125
Trichlorofluoromethane	20.0	25.0		ug/L		125	51 - 164
Vinyl chloride	20.0	24.6		ug/L		123	58 - 143

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 121*

QC Sample Results

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: LCS 240-362149/5
Matrix: Water
Analysis Batch: 362149

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*59 - 120*
Toluene-d8 (Surr)	*107*		*70 - 123*

Lab Sample ID: 500-156391-4 MS
Matrix: Water
Analysis Batch: 362149

Client Sample ID: P&T Well No. 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.70		100	98.4		ug/L		98	67 - 123
1,1,1-Trichloroethane	3.3	J	100	115		ug/L		111	51 - 138
1,1,2,2-Tetrachloroethane	<0.65		100	97.4		ug/L		97	60 - 137
1,1,2-Trichloroethane	<0.45		100	101		ug/L		101	76 - 132
1,1-Dichloroethane	21		100	137		ug/L		116	63 - 136
1,1-Dichloroethene	7.1		100	117		ug/L		109	53 - 140
1,1-Dichloropropene	<0.70		100	112		ug/L		112	62 - 127
1,2,3-Trichlorobenzene	<2.7		100	78.0		ug/L		78	34 - 123
1,2,3-Trichloropropane	<1.2		100	102		ug/L		102	61 - 143
1,2,4-Trichlorobenzene	<1.3		100	80.3		ug/L		80	30 - 126
1,2,4-Trimethylbenzene	<0.35		100	99.4		ug/L		99	62 - 120
1,2-Dibromo-3-Chloropropane	<4.6		100	73.4		ug/L		73	38 - 124
1,2-Dibromoethane	<0.60		100	93.2		ug/L		93	71 - 123
1,2-Dichlorobenzene	<0.75		100	93.5		ug/L		94	64 - 120
1,2-Dichloroethane	<1.1		100	110		ug/L		110	65 - 135
1,2-Dichloropropane	<0.75		100	113		ug/L		113	70 - 132
1,3,5-Trimethylbenzene	<0.60		100	102		ug/L		102	64 - 120
1,3-Dichlorobenzene	<0.75		100	95.8		ug/L		96	62 - 120
1,3-Dichloropropane	<1.1		100	98.7		ug/L		99	68 - 135
1,4-Dichlorobenzene	<0.80		100	94.7		ug/L		95	63 - 120
2,2-Dichloropropane	<1.6		100	99.5		ug/L		100	27 - 132
2-Chlorotoluene	<0.75		100	100		ug/L		100	64 - 123
2-Hexanone	<2.7		200	195		ug/L		98	42 - 150
4-Chlorotoluene	<0.45		100	102		ug/L		102	63 - 126
Acetone	<27		200	199		ug/L		99	10 - 168
Benzene	<0.65		100	111		ug/L		111	71 - 122
Bromobenzene	<0.60		100	96.7		ug/L		97	66 - 127
Bromochloromethane	<0.70		100	100		ug/L		100	73 - 120
Bromodichloromethane	<0.85		100	102		ug/L		102	64 - 125
Bromoform	<3.8		100	74.7		ug/L		75	44 - 129
Bromomethane	<2.1		100	41.6		ug/L		42	19 - 187
Carbon disulfide	<1.4		100	100		ug/L		100	43 - 144
Carbon tetrachloride	<1.3		100	105		ug/L		105	41 - 143
Chlorobenzene	<0.70		100	102		ug/L		102	70 - 123
Chloroethane	<4.2		100	117		ug/L		117	11 - 189
Chloroform	<0.65		100	112		ug/L		112	68 - 130
Chloromethane	<1.0		100	107		ug/L		107	31 - 154
cis-1,2-Dichloroethene	87		100	201		ug/L		114	64 - 130
cis-1,3-Dichloropropene	<3.1		100	96.7		ug/L		97	48 - 127
Dibromochloromethane	<2.0		100	89.1		ug/L		89	60 - 129

QC Sample Results

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: 500-156391-4 MS
Matrix: Water
Analysis Batch: 362149

Client Sample ID: P&T Well No. 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromomethane	<0.45		100	98.3		ug/L		98	71 - 120
Dichlorodifluoromethane	<1.8		100	96.8		ug/L		97	28 - 136
Ethylbenzene	<0.55		100	103		ug/L		103	66 - 120
Hexachlorobutadiene	<4.2		100	81.4		ug/L		81	32 - 128
Isopropylbenzene	<0.45		100	101		ug/L		101	59 - 120
m&p-Xylene	<0.40		100	100		ug/L		100	63 - 121
Methyl Ethyl Ketone	<5.8		200	215		ug/L		108	37 - 156
methyl isobutyl ketone	<2.1		200	202		ug/L		101	44 - 143
Methyl tert-butyl ether	<0.35		100	97.6		ug/L		98	41 - 136
Methylene Chloride	<13		100	99.4		ug/L		99	61 - 130
Naphthalene	<1.6		100	75.8		ug/L		76	31 - 142
n-Butylbenzene	<0.70		100	98.7		ug/L		99	51 - 120
N-Propylbenzene	<0.75		100	103		ug/L		103	61 - 123
o-Xylene	<0.45		100	101		ug/L		101	69 - 120
p-Isopropyltoluene	<0.65		100	99.1		ug/L		99	59 - 120
sec-Butylbenzene	<0.65		100	103		ug/L		103	60 - 120
Styrene	<0.50		100	96.2		ug/L		96	68 - 120
tert-Butylbenzene	<0.70		100	101		ug/L		101	61 - 120
Tetrachloroethene	<0.75		100	99.9		ug/L		100	51 - 136
Toluene	<0.70		100	106		ug/L		106	62 - 132
trans-1,2-Dichloroethene	1.0	J	100	111		ug/L		110	68 - 133
trans-1,3-Dichloropropene	<3.4		100	90.4		ug/L		90	40 - 125
Trichloroethene	5.8		100	109		ug/L		103	55 - 131
Trichlorofluoromethane	<2.3		100	118		ug/L		118	37 - 174
Vinyl chloride	<1.0		100	118		ug/L		118	43 - 154

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 121*
4-Bromofluorobenzene (Surr)	*100*		*59 - 120*
Toluene-d8 (Surr)	*107*		*70 - 123*

Lab Sample ID: 500-156391-4 MSD
Matrix: Water
Analysis Batch: 362149

Client Sample ID: P&T Well No. 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.70		100	102		ug/L		102	67 - 123	3	13
1,1,1-Trichloroethane	3.3	J	100	118		ug/L		114	51 - 138	3	27
1,1,2,2-Tetrachloroethane	<0.65		100	102		ug/L		102	60 - 137	5	31
1,1,2-Trichloroethane	<0.45		100	104		ug/L		104	76 - 132	3	25
1,1-Dichloroethane	21		100	137		ug/L		116	63 - 136	0	23
1,1-Dichloroethene	7.1		100	119		ug/L		112	53 - 140	2	35
1,1-Dichloropropene	<0.70		100	111		ug/L		111	62 - 127	1	20
1,2,3-Trichlorobenzene	<2.7		100	80.1		ug/L		80	34 - 123	3	35
1,2,3-Trichloropropane	<1.2		100	104		ug/L		104	61 - 143	2	22
1,2,4-Trichlorobenzene	<1.3		100	83.0		ug/L		83	30 - 126	3	35
1,2,4-Trimethylbenzene	<0.35		100	102		ug/L		102	62 - 120	3	27
1,2-Dibromo-3-Chloropropane	<4.6		100	76.5		ug/L		76	38 - 124	4	35

QC Sample Results

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: 500-156391-4 MSD
Matrix: Water
Analysis Batch: 362149

Client Sample ID: P&T Well No. 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane	<0.60		100	95.7		ug/L		96	71 - 123	3	27
1,2-Dichlorobenzene	<0.75		100	99.1		ug/L		99	64 - 120	6	30
1,2-Dichloroethane	<1.1		100	113		ug/L		113	65 - 135	3	24
1,2-Dichloropropane	<0.75		100	115		ug/L		115	70 - 132	2	26
1,3,5-Trimethylbenzene	<0.60		100	104		ug/L		104	64 - 120	2	23
1,3-Dichlorobenzene	<0.75		100	99.5		ug/L		99	62 - 120	4	31
1,3-Dichloropropane	<1.1		100	103		ug/L		103	68 - 135	4	15
1,4-Dichlorobenzene	<0.80		100	99.2		ug/L		99	63 - 120	5	28
2,2-Dichloropropane	<1.6		100	102		ug/L		102	27 - 132	3	18
2-Chlorotoluene	<0.75		100	104		ug/L		104	64 - 123	4	20
2-Hexanone	<2.7		200	199		ug/L		100	42 - 150	2	35
4-Chlorotoluene	<0.45		100	105		ug/L		105	63 - 126	3	20
Acetone	<27		200	207		ug/L		103	10 - 168	4	35
Benzene	<0.65		100	111		ug/L		111	71 - 122	0	22
Bromobenzene	<0.60		100	101		ug/L		101	66 - 127	4	19
Bromochloromethane	<0.70		100	103		ug/L		103	73 - 120	2	15
Bromodichloromethane	<0.85		100	106		ug/L		106	64 - 125	4	27
Bromoform	<3.8		100	79.5		ug/L		80	44 - 129	6	28
Bromomethane	<2.1		100	49.7		ug/L		50	19 - 187	18	35
Carbon disulfide	<1.4		100	103		ug/L		103	43 - 144	2	33
Carbon tetrachloride	<1.3		100	106		ug/L		106	41 - 143	1	30
Chlorobenzene	<0.70		100	104		ug/L		104	70 - 123	2	23
Chloroethane	<4.2		100	119		ug/L		119	11 - 189	2	35
Chloroform	<0.65		100	115		ug/L		115	68 - 130	2	23
Chloromethane	<1.0		100	111		ug/L		111	31 - 154	3	35
cis-1,2-Dichloroethene	87		100	196		ug/L		109	64 - 130	2	21
cis-1,3-Dichloropropene	<3.1		100	102		ug/L		102	48 - 127	6	30
Dibromochloromethane	<2.0		100	94.6		ug/L		95	60 - 129	6	26
Dibromomethane	<0.45		100	104		ug/L		104	71 - 120	6	16
Dichlorodifluoromethane	<1.8		100	96.9		ug/L		97	28 - 136	0	35
Ethylbenzene	<0.55		100	105		ug/L		105	66 - 120	2	24
Hexachlorobutadiene	<4.2		100	82.2		ug/L		82	32 - 128	1	35
Isopropylbenzene	<0.45		100	105		ug/L		105	59 - 120	3	31
m&p-Xylene	<0.40		100	103		ug/L		103	63 - 121	3	25
Methyl Ethyl Ketone	<5.8		200	218		ug/L		109	37 - 156	1	35
methyl isobutyl ketone	<2.1		200	206		ug/L		103	44 - 143	2	35
Methyl tert-butyl ether	<0.35		100	102		ug/L		102	41 - 136	5	29
Methylene Chloride	<13		100	102		ug/L		102	61 - 130	2	29
Naphthalene	<1.6		100	78.6		ug/L		79	31 - 142	4	35
n-Butylbenzene	<0.70		100	101		ug/L		101	51 - 120	3	27
N-Propylbenzene	<0.75		100	104		ug/L		104	61 - 123	1	20
o-Xylene	<0.45		100	104		ug/L		104	69 - 120	3	25
p-Isopropyltoluene	<0.65		100	101		ug/L		101	59 - 120	2	24
sec-Butylbenzene	<0.65		100	105		ug/L		105	60 - 120	2	24
Styrene	<0.50		100	98.2		ug/L		98	68 - 120	2	26
tert-Butylbenzene	<0.70		100	105		ug/L		105	61 - 120	3	20
Tetrachloroethene	<0.75		100	99.8		ug/L		100	51 - 136	0	23
Toluene	<0.70		100	108		ug/L		108	62 - 132	2	23

QC Sample Results

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: 500-156391-4 MSD
Matrix: Water
Analysis Batch: 362149

Client Sample ID: P&T Well No. 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	1.0	J	100	114		ug/L		113	68 - 133	3	24
trans-1,3-Dichloropropene	<3.4		100	94.4		ug/L		94	40 - 125	4	27
Trichloroethene	5.8		100	109		ug/L		103	55 - 131	0	23
Trichlorofluoromethane	<2.3		100	117		ug/L		117	37 - 174	1	35
Vinyl chloride	<1.0		100	121		ug/L		121	43 - 154	3	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 121*
4-Bromofluorobenzene (Surr)	*101*		*59 - 120*
Toluene-d8 (Surr)	*105*		*70 - 123*

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-465323/1-A
Matrix: Water
Analysis Batch: 465744

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 465323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.17		0.50	0.17	ug/L		12/18/18 15:52	12/20/18 12:26	1
Copper	<0.50		2.0	0.50	ug/L		12/18/18 15:52	12/20/18 12:26	1
Iron	<47		100	47	ug/L		12/18/18 15:52	12/20/18 12:26	1
Lead	<0.19		0.50	0.19	ug/L		12/18/18 15:52	12/20/18 12:26	1
Manganese	<0.79		2.5	0.79	ug/L		12/18/18 15:52	12/20/18 12:26	1
Nickel	<0.63		2.0	0.63	ug/L		12/18/18 15:52	12/20/18 12:26	1
Selenium	<0.98		2.5	0.98	ug/L		12/18/18 15:52	12/20/18 12:26	1

Lab Sample ID: LCS 500-465323/2-A
Matrix: Water
Analysis Batch: 465744

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 465323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	49.4		ug/L		99	80 - 120
Copper	250	253		ug/L		101	80 - 120
Iron	1000	1030		ug/L		103	80 - 120
Lead	100	107		ug/L		107	80 - 120
Manganese	500	506		ug/L		101	80 - 120
Nickel	500	509		ug/L		102	80 - 120
Selenium	100	96.8		ug/L		97	80 - 120

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 310-226502/7
Matrix: Water
Analysis Batch: 226502

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	<0.085		0.10	0.085	mg/L			12/27/18 17:06	1

QC Sample Results

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

TestAmerica Job ID: 500-156391-1

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

Lab Sample ID: LCS 310-226502/4 ^10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 226502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate-Nitrite	18.6	18.5		mg/L		99	90 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: 500-156391-1 DU — **Client Sample ID: North Pond**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465318

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: 500-156391-2 DU — **Client Sample ID: South Pond**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465318

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.6	HF	7.7		SU		0.4	

Lab Sample ID: 500-156391-3 DU — **Client Sample ID: P&T Effluent**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465318

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.8		SU		0.5	

Lab Sample ID: 500-156391-4 DU — **Client Sample ID: P&T Well No. 1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465318

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0.1	

Lab Sample ID: 500-156391-5 DU — **Client Sample ID: P&T Well No. 2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465318

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0.3	

Lab Sample ID: 500-156391-6 DU — **Client Sample ID: S.B. Well No. 2 Restrooms**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 465318

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0.3	

Lab Chronicle

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: North Pond — Lab Sample ID: 500-156391-1

Date Collected: 12/17/18 11:45
Date Received: 12/18/18 10:25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			465323	12/18/18 15:52	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	465744	12/20/18 12:52	FXG	TAL CHI
Total/NA	Analysis	353.2		1	226502	12/27/18 17:48	JMH	TAL CF
Total/NA	Analysis	SM 4500 H+ B		1	465318		SMO	TAL CHI
					(Start)	12/18/18 16:20		
					(End)	12/18/18 16:22		

Client Sample ID: South Pond — Lab Sample ID: 500-156391-2

Date Collected: 12/17/18 11:50
Date Received: 12/18/18 10:25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			465323	12/18/18 15:52	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	465744	12/20/18 12:56	FXG	TAL CHI
Total/NA	Analysis	353.2		1	226502	12/27/18 17:49	JMH	TAL CF
Total/NA	Analysis	SM 4500 H+ B		1	465318		SMO	TAL CHI
					(Start)	12/18/18 16:25		
					(End)	12/18/18 16:27		

Client Sample ID: P&T Effluent — Lab Sample ID: 500-156391-3

Date Collected: 12/17/18 12:00
Date Received: 12/18/18 10:25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	362149	12/28/18 19:58	HMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	465318		SMO	TAL CHI
					(Start)	12/18/18 16:50		
					(End)	12/18/18 16:30		

Client Sample ID: P&T Well No. 1 — Lab Sample ID: 500-156391-4

Date Collected: 12/17/18 12:20
Date Received: 12/18/18 10:25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	362149	12/28/18 20:23	HMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	465318		SMO	TAL CHI
					(Start)	12/18/18 16:50		
					(End)	12/18/18 16:30		

Lab Chronicle

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

TestAmerica Job ID: 500-156391-1

Client Sample ID: P&T Well No. 2

Lab Sample ID: 500-156391-5
Matrix: Water

Date Collected: 12/17/18 13:00
Date Received: 12/18/18 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	362149	12/28/18 20:47	HMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	465318		SMO	TAL CHI
					(Start)	12/18/18 16:50		
					(End)	12/18/18 16:30		

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

Lab Sample ID: 500-156391-6
Matrix: Water

Date Collected: 12/17/18 12:35
Date Received: 12/18/18 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	362149	12/28/18 21:12	HMB	TAL CAN
Total/NA	Analysis	SM 4500 H+ B		1	465318		SMO	TAL CHI
					(Start)	12/18/18 16:50		
					(End)	12/18/18 16:30		

Client Sample ID: Trip Blank

Lab Sample ID: 500-156391-7
Matrix: Water

Date Collected: 12/17/18 00:00
Date Received: 12/18/18 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	362149	12/28/18 21:37	HMB	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

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

TestAmerica Job ID: 500-156391-1

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	12-31-19 *
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	12-31-19 *

Laboratory: TestAmerica Cedar Falls

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
AIHA-LAP, LLC	IHLAP		101044	11-01-20
Georgia	State Program	4	IA100001 (OR)	09-29-19
Illinois	NELAP	5	200024	11-29-19
Iowa	State Program	7	007	12-01-19
Kansas	NELAP	7	E-10341	01-31-19
Minnesota	NELAP	5	019-999-319	12-31-19
Minnesota (Petrofund)	State Program	1	3349	08-22-19
North Dakota	State Program	8	R-186	09-29-19
Oregon	NELAP	10	IA100001	09-29-19

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

Chicago
2417 Bond Street

University Park, IL 60466
phone 708.534.5200 fax 708.534.5363

UPS Ground 48 qt.

Chain of Custody Record, 3rd Month of Quarter

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Robert Johnson	Site Contact: Robert Johnson	Date: 12/17/18	COC No: 223182
Central Wire Union Plant	Tel/Fax: 815.923.4919; 815.923.2126	Lab Contact:	Carrier: UPS	1 of 1 COCs
6509 Olson Rd.	Analysis Turnaround Time			Job No. 500-156391
Union, IL 60180	Calendar (C) or Work Days (W)			
(815) 923-2131 Phone	TAT if different from Below			SDG No.
(815) 923-2126 Fax	[X] 2 weeks			
3rd mo. of qtr	[ ] 1 week			
Union Plant	[ ] 2 days			
P O #	[ ] 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs (vials) 1, 2	Metals* (250 ml jars) 1, 4	N + N (500 ml vials) 1, 3	pH 1, 6	Sample Specific Notes:
1	North Pond	12/17	1145	G	GW	1	N		X			
	North Pond		1145	G	GW	1	N			X		
	North Pond pH		1145	G	GW	1	N				X	
2	South Pond		1150	G	GW	1	N		X			
	South Pond		1150	G	GW	1	N			X		
	South Pond pH		1150	G	GW	1	N				X	
3	P&T Effluent		1200	G	GW	3	N	X				
	P&T pH		1200	G	GW	1	N				X	
4	P&T Well No. 1		1220	G	GW	3	N	X				
	P&T Well No. 1 pH		1220	G	GW	1	N				X	
5	P&T Well No. 2		1300	G	GW	3	N	X				
	P&T Well No. 2 pH		1300	G	GW	1	N				X	
	Ex. 6 Personal Privacy (PP)		1235	G	GW	3	N	X				
			1235	G	GW	1	N				X	
7	Trip Blank											

500-156391 COC

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), Cadmium (Cd), Nitrates (N), Selenium (Se) & Copper (Cu)
South Pond Metals: Iron (Fe), Lead (Pb), Manganese (Mn), Nickel (Ni), Cadmium (Cd), Nitrates (N), Selenium (Se) & Copper (Cu)

2.2

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CWI 12/17	1330	[signature]	CWI	12/17 13:30
[signature]	CWI 12/17	15:20	[signature]	UPS	12/17 15:20
			[signature]	TALHL	12/18/18 0930

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

2.8/2.8

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: 500-115147.1
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 #: 500-156391-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 1/2/2019			
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	Project #: 50005564			
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/8260C Default List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						MS
P&T Effluent (500-156391-3)	12/17/18	12:00 Central		Water			X	3	
P&T Effluent No. 1 (500-156391-4)	12/17/18	12:20 Central		Water			X	3	
P&T Effluent No. 2 (500-156391-5)	12/17/18	13:00 Central		Water			X	3	
[illegible]	12/17/18	12:35 Central		Water			X	3	
Trip Blank (500-156391-7)	12/17/18	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
[signature]	12/18/18 1600	TA	[signature]	12-19-18 1025	TAC
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:

Ver. 09/20/2016

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

Client TA Chicago Site Name _____ Cooler unpacked by: MJD

Cooler Received on 12-19-18 Opened on 12-19-18

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

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

TestAmerica Cooler # 11 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 -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN #36 (CF +0°C) Observed Cooler Temp. 2.8 °C Corrected Cooler Temp. 2.8 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2 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# HC854592
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

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

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. 500-115316.1
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 #: 500-156391-1
Address: 704 Enterprise Drive, ,	Due Date Requested: 12/31/2018			
City: Cedar Falls	TAT Requested (days):			
State, Zip: IA, 50613				
Phone: 319-277-2401(Tel) 319-277-2425(Fax)	PO #:			
Email:	WO #:			
Project Name: Central Wire	Project #: 50005584			
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 (Water, Solid, Oil/wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	353.2/ Nitrate plus Nitrite as N	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
North Pond (500-156391-1)	12/17/18	11:45 Central		Water			X	1	
South Pond (500-156391-2)	12/17/18	11:50 Central		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:	Company	Received by:	Date/Time:	Company
[signature]	12/21/18 1600	TA	Lindsay Burdett	12/22/18 1035	
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:

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: TA Chicago

City/State: University Park IL | Project:

Receipt Information

Date/Time Received: 12/22/18 1035 | Received By: LAB

Delivery Type: ☐ UPS ☒ FedEx Sat ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ TA Courier ☐ TA Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler?	☒ Yes	☐ No	*If yes:* Cooler ID:
Multiple Coolers?	☐ Yes	☒ No	*If yes:* Cooler # ____ of ____
Cooler Custody Seals Present?	☒ Yes	☐ No	*If yes:* Cooler custody seals intact? ☒ Yes ☐ No
Sample Custody Seals Present?	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?	☐ Yes	☒ No	*If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: N | Correction Factor (°C): +0.0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 0.2 | Corrected Temp (°C): 0.2

• **Sample Container Temperature**

Container type(s) used:

Uncorrected Temp (°C): | Corrected Temp (°C):

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

Note: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Document: CF-LG-WI-002
Revision: 23
Date: 12/31/2017

TestAmerica-Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

Login Sample Receipt Checklist

Client: Central Wire (Techalloy)

Job Number: 500-156391-1

Login Number: 156391
List Number: 1
Creator: Sanchez, Ariel M

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	2.2
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	

Login Sample Receipt Checklist

Client: Central Wire (Techalloy)

Job Number: 500-156391-1

Login Number: 156391
List Number: 3
Creator: Spoerre, Autumn R

List Source: TestAmerica Cedar Falls
List Creation: 12/24/18 02:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	