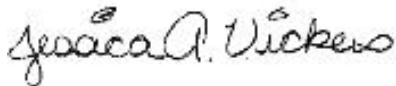




## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 5)

<b>Site Name</b>	Old Barwick Mill Plant Fire	<b>Project No.</b>	TT-01-040
<b>Data Reviewer (signature and date)</b>	 November 30, 2015	<b>Laboratory/ Report No.</b>	Analytical Environmental Services, Inc./1511G22
<b>Analyses</b>	Volatile Organic Compounds (VOCs) – SW8260B, Semivolatile Organic Compounds (SVOCs) – SW8270D, Resource Conservation Recovery Act (RCRA) Metals – EPA 200.8/245.1, Ammonia – EPA 350.1, Biological Oxygen Demand (BOD) – SM 5210B, Chemical Oxygen Demand (COD) – EPA 410.4, Cyanide – SM 4500-CN-C, Fecal Coliform – SM 9222D, Hexavalent Chromium – SW7196A, Nitrate – EPA 300.0, Oil and Grease – EPA 1664B, Phosphorus – EPA 365.1, Surfactants – SM 5540C, Total Kjeldahl Nitrogen (TKN) – EPA 351.2, Total Recoverable Phenolics – EPA 420.1, and Total Suspended Solids (TSS) – SM 2540D		
<b>Samples</b>	OBM-BLUELIQUID-01		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (August 2014) and the EPA *CLP NFG for Inorganic Superfund Data Review* (August 2014) data validation guidance documents, as well as the above referenced methods.

### OVERALL EVALUATION:

Rejection of data was not required for this data package. Results were qualified due to exceedances for holding times. The data can be used with the qualifications indicated in this checklist.

### Data completeness:

Within Criteria	Exceedance/Notes
Y	



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 5)

### Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	Holding time was exceeded for fecal coliform – flag “J-”

### Method blanks:

Within Criteria	Exceedance/Notes
Y	Oil & grease = 1.3 mg/L – no action (associated result greater than ten times blank value)

### Field blanks:

Within Criteria	Exceedance/Notes
NA	

### System monitoring compounds (surrogates and labeled compounds):

Within Criteria	Exceedance/Notes
Y	

### MS/MSD:

Within Criteria	Exceedance/Notes
Y	MS/MSDs performed on non-project samples were not evaluated.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 5)

### Post digestion spikes:

Within Criteria	Exceedance/Notes
NA	

### Serial dilutions:

Within Criteria	Exceedance/Notes
NA	

### Laboratory duplicates:

Within Criteria	Exceedance/Notes
NA	Duplicates performed on non-project samples were not evaluated.

### Field duplicates:

Within Criteria	Exceedance/Notes
NA	

### Total versus dissolved metals results evaluation:

Within Criteria	Exceedance/Notes
NA	



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 4 of 5)

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
Y	

### Toxicity equivalents (TEQs) and isomer specificity (dioxins/furans, cBaP, and PCB congeners only):

Within Criteria	Exceedance/Notes
NA	

### Sample dilutions:

Within Criteria	Exceedance/Notes
Y	5x: SVOCs 10x: mercury 50x: VOCs 100x: ammonia, BOD, COD, fecal coliform, nitrate, and total phenolics 500x: surfactants

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

### Estimated detection limit (EDL), estimated maximum possible concentration (EMPC), and target analyte identification (dioxins/furans only):

Within Criteria	Exceedance/Notes
NA	



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 5 of 5)

### MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Results between the MDL and RL were flagged “J” by laboratory.

### Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

## Analytical Environmental Services, Inc

Date: 25-Nov-15

Client: Tetra Tech EM Inc.  
 Project Name: Old Barnwick Mill Fire  
 Lab ID: 1511G22-001

Client Sample ID: OBM-BLUELIQUID-01  
 Collection Date: 11/17/2015 12:00:00 PM  
 Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Phosphorus E365.1</b>				<b>(E365.1)</b>					
Phosphorus, Total (As P)	202		0.505	2.50	mg/L	216008	1	11/18/2015 12:23	FS
<b>Total Oil and Grease (HEM) E1664B</b>				<b>(E1664)</b>					
Oil and Grease	573		1.1	5.9	mg/L	216061	1	11/18/2015 13:40	GR
<b>Total Metals by ICP E200.7</b>				<b>(E200.7)</b>					
Arsenic	0.135		0.0031	0.0500	mg/L	216040	1	11/18/2015 17:45	TA
Barium	1.23		0.0013	0.0100	mg/L	216040	1	11/18/2015 17:45	TA
Cadmium	0.0217		0.0003	0.0050	mg/L	216040	1	11/18/2015 17:45	TA
Chromium	0.211		0.0003	0.0100	mg/L	216040	1	11/18/2015 17:45	TA
Lead	0.243		0.0025	0.0100	mg/L	216040	1	11/18/2015 17:45	TA
Selenium	0.0357		0.0025	0.0200	mg/L	216040	1	11/18/2015 17:45	TA
Silver	0.0038	J	0.0006	0.0050	mg/L	216040	1	11/18/2015 17:45	TA
<b>Total Mercury E245.1</b>				<b>(E245.1)</b>					
Mercury	0.01586		0.00036	0.00200	mg/L	216085	10	11/18/2015 15:50	TA
<b>Total Cyanide (SM4500 CN-C, E)</b>				<b>(SM4500-CN-E)</b>					
Cyanide, Total	0.352		0.001	0.010	mg/L	216129	1	11/18/2015 15:06	PF
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>				<b>(SW3580A)</b>					
1,1'-Biphenyl	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2,4,5-Trichlorophenol	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
2,4,6-Trichlorophenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2,4-Dichlorophenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2,4-Dimethylphenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2,4-Dinitrophenol	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
2,4-Dinitrotoluene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2,6-Dinitrotoluene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2-Chloronaphthalene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2-Chlorophenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2-Methylnaphthalene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2-Methylphenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
2-Nitroaniline	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
2-Nitrophenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
3,3'-Dichlorobenzidine	BRL		3400	3400	mg/Kg	216106	5	11/18/2015 15:55	YH
3-Nitroaniline	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
4,6-Dinitro-2-methylphenol	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
4-Bromophenyl phenyl ether	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

E Estimated value above quantitation range  
 S Spike Recovery outside limits due to matrix  
 J Estimated value detected below Reporting Limit  
 > Greater than Result value  
 < Less than Result value  
 Narr See case narrative

*gaw*  
 11/30/15



## Analytical Environmental Services, Inc

Date: 25-Nov-15

Client: Tetra Tech EM Inc.  
 Project Name: Old Barnwick Mill Fire  
 Lab ID: 1511G22-001

Client Sample ID: OBM-BLUELIQUID-01  
 Collection Date: 11/17/2015 12:00:00 PM  
 Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
TCL-SEMIVOLATILE ORGANICS SW8270D									
				(SW3580A)					
4-Chloro-3-methylphenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
4-Chloroaniline	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
4-Chlorophenyl phenyl ether	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
4-Methylphenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
4-Nitroaniline	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
4-Nitrophenol	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
Acenaphthene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Acenaphthylene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Acetophenone	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Anthracene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Atrazine	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Benz(a)anthracene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Benzaldehyde	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Benzo(a)pyrene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Benzo(b)fluoranthene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Benzo(g,h,i)perylene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Benzo(k)fluoranthene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Bis(2-chloroethoxy)methane	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Bis(2-chloroethyl)ether	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Bis(2-chloroisopropyl)ether	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Bis(2-ethylhexyl)phthalate	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Butyl benzyl phthalate	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Caprolactam	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Carbazole	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Chrysene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Di-n-butyl phthalate	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Di-n-octyl phthalate	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Dibenz(a,h)anthracene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Dibenzofuran	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Diethyl phthalate	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Dimethyl phthalate	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Fluoranthene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Fluorene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Hexachlorobenzene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Hexachlorobutadiene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Hexachlorocyclopentadiene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Hexachloroethane	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Indeno(1,2,3-cd)pyrene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Isophorone	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH

Qualifiers: \* Value exceeds maximum contaminant level  
 BRL Not detected at MDL  
 H Holding times for preparation or analysis exceeded  
 N Analyte not NELAC certified  
 B Analyte detected in the associated method blank  
 NC Not confirmed

E Estimated value above quantitation range  
 S Spike Recovery outside limits due to matrix  
 J Estimated value detected below Reporting Limit  
 > Greater than Result value  
 < Less than Result value  
 Narr See case narrative

*gaw*  
 11/30/15

## Analytical Environmental Services, Inc

Date: 25-Nov-15

Client: Tetra Tech EM Inc.  
 Project Name: Old Barnwick Mill Fire  
 Lab ID: 1511G22-001

Client Sample ID: OBM-BLUELIQUID-01  
 Collection Date: 11/17/2015 12:00:00 PM  
 Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>				<b>(SW3580A)</b>					
N-Nitrosodi-n-propylamine	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
N-Nitrosodiphenylamine	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Naphthalene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Nitrobenzene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Pentachlorophenol	BRL		2500	2500	mg/Kg	216106	5	11/18/2015 15:55	YH
Phenanthrene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Phenol	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Pyrene	BRL		500	500	mg/Kg	216106	5	11/18/2015 15:55	YH
Surr: 2,4,6-Tribromophenol	84.6	0		60.1-153	%REC	216106	5	11/18/2015 15:55	YH
Surr: 2-Fluorobiphenyl	95.3	0		72.6-136	%REC	216106	5	11/18/2015 15:55	YH
Surr: 2-Fluorophenol	88.4	0		61-137	%REC	216106	5	11/18/2015 15:55	YH
Surr: 4-Terphenyl-d14	95.4	0		72.7-149	%REC	216106	5	11/18/2015 15:55	YH
Surr: Nitrobenzene-d5	90.2	0		58.9-136	%REC	216106	5	11/18/2015 15:55	YH
Surr: Phenol-d5	89.8	0		54-137	%REC	216106	5	11/18/2015 15:55	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>					
1,1,1-Trichloroethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,1,2,2-Tetrachloroethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,1,2-Trichloroethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,1-Dichloroethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,1-Dichloroethene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,2,4-Trichlorobenzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,2-Dibromo-3-chloropropane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,2-Dibromoethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,2-Dichlorobenzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,2-Dichloroethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,2-Dichloropropane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,3-Dichlorobenzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
1,4-Dichlorobenzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
2-Butanone	BRL		25000	25000	ug/Kg	216125	50	11/18/2015 15:19	MD
2-Hexanone	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
4-Methyl-2-pentanone	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
Acetone	BRL		25000	25000	ug/Kg	216125	50	11/18/2015 15:19	MD
Benzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Bromodichloromethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Bromoform	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Bromomethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Carbon disulfide	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
Carbon tetrachloride	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD

Qualifiers:

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

E Estimated value above quantitation range  
 S Spike Recovery outside limits due to matrix  
 J Estimated value detected below Reporting Limit  
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 Narr See case narrative

*gaw*  
 11/30/15



## Analytical Environmental Services, Inc

Date: 25-Nov-15

Client: Tetra Tech EM Inc.  
 Project Name: Old Barnwick Mill Fire  
 Lab ID: 1511G22-001

Client Sample ID: OBM-BLUELIQUID-01  
 Collection Date: 11/17/2015 12:00:00 PM  
 Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>						
Chlorobenzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Chloroethane	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
Chloroform	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Chloromethane	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
cis-1,2-Dichloroethene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
cis-1,3-Dichloropropene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Cyclohexane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Dibromochloromethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Dichlorodifluoromethane	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
Ethylbenzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Freon-113	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
Isopropylbenzene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
m,p-Xylene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Methyl acetate	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Methyl tert-butyl ether	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Methylcyclohexane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Methylene chloride	BRL		2500	9800	ug/Kg	216125	50	11/18/2015 15:19	MD
o-Xylene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Styrene	14000		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Tetrachloroethene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Toluene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
trans-1,2-Dichloroethene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
trans-1,3-Dichloropropene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Trichloroethene	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Trichlorofluoromethane	BRL		2500	2500	ug/Kg	216125	50	11/18/2015 15:19	MD
Vinyl chloride	BRL		4900	4900	ug/Kg	216125	50	11/18/2015 15:19	MD
Surr: 4-Bromofluorobenzene	86.1		0	70-128	%REC	216125	50	11/18/2015 15:19	MD
Surr: Dibromofluoromethane	102		0	78.2-128	%REC	216125	50	11/18/2015 15:19	MD
Surr: Toluene-d8	96.6		0	76.5-116	%REC	216125	50	11/18/2015 15:19	MD

## Surfactants (MBAS) by SM5540C

MBAS	468	10.8	50.0	mg/L-LAS	216118	500	11/18/2015 15:30	JS
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## Residue, Suspended (TSS) by SM2540D

Residue, Suspended (TSS)	9600	40.0	200	mg/L	216124	1	11/18/2015 16:39	JS
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## Phenolics, Total Recoverable E420.1

Phenolics, Total Recoverable	39.6	1.48	5.00	mg/L	216130	100	11/18/2015 17:00	JS
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**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

## Analytical Environmental Services, Inc

Date: 25-Nov-15

Client: Tetra Tech EM Inc.  
 Project Name: Old Barnwick Mill Fire  
 Lab ID: 1511G22-001

Client Sample ID: OBM-BLUELIQUID-01  
 Collection Date: 11/17/2015 12:00:00 PM  
 Matrix: Surface Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Nitrogen, total Kjeldahl (TKN) E351.2</b>									
	(E351.2)								
Nitrogen, total Kjeldahl (TKN)	834		27.5	50.0	mg/L	216141	1	11/19/2015 16:45	TL
<b>Nitrogen, Ammonia (as N) E350.1</b>									
	(E350.1)								
Nitrogen, Ammonia (As N)	300		4.02	20.0	mg/L	216083	100	11/18/2015 15:33	FS
<b>Inorganic Anions by IC E300.0</b>									
Nitrogen, Nitrate (As N)	16.9	J	10.6	25.0	mg/L	R304700	100	11/18/2015 12:14	JW
<b>Hexavalent Chromium in Soil SW7196A</b>									
	(SW3060A)								
Chromium, Hexavalent	BRL		0.580	2.00	mg/Kg	216132	1	11/18/2015 11:55	JC
<b>Fecal Coliform (MF) SM9222D-1997</b>									
Fecal Coliform, (MF)	600	J	200	200	Colonies/100 ml	R304763	100	11/18/2015 13:40	MU
<b>Chemical Oxygen Demand (COD) E410.4</b>									
Chemical Oxygen Demand	73100		529	1000	mg/L	R304592	100	11/18/2015 10:45	CH
<b>Biochemical Oxygen Demand (5 Day) by SM5210B</b>									
Biochemical Oxygen Demand	12200		500	500	mg/L	216389	100	11/19/2015 07:30	CH

gaw  
11/30/15

Qualifiers:

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