UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Final Analytical Report

Site Name.....	Fairfax Pipeline Emergency Response
Sample Collection Date(s).....	09/23/15 15:45- 09/23/15 17:05
Contact.....	Charles Fitzsimmons
Report Date.....	10/14/15 09:18
Project #.....	DAS R34715
Work Order.....	1509022

Analyses included in this report:

Alcohols by EPA 8015D
VOCs based on SW846 5030B/8260C
SVOCs by CLP Equivalent

Approved for Release

Karen Costa

OASQA Representative

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

Report Narrative

Alcohols Analysis Note:
Samples were also analyzed for 1-Butanol, 2-Butanol, Methanol, and 1-Propanol. All samples tested negative for these compounds with quantitation limits of 10 ug/mL each.

VOA Analysis Note:
The acetone and naphthalene results for samples 1509022-01 (FAR-092315-P1) and 1509022-02 (FAR-092315-P1D) are qualified as estimated (J) due to the calibration percent relative standard deviation (%RSD) outside of acceptance criteria.

There was insufficient sample volume for matrix spiking.

SVOA Analysis Note:
The results for bis(2-chloroethyl) ether and benzo(k) fluoranthene are outside of the acceptance limits in the initial calibration. These compounds are non-detect in the samples. The quantitation limit (QL) is qualified as estimated (UJ).

The results for n-nitrosodimethylamine, 2,4-dinitrophenol, 2,3,4,6-tetrachlorophenol, pentachlorophenol, and di-n-octyl phthalate are outside of the acceptance limits in the continuing calibration verification. These compounds are non-detect in the samples. The QL is qualified as estimated (UJ).

The results for acenaphthene, bis(2-chloroisopropyl) ether, 4-bromophenyl phenyl ether, 2-chloronaphthalene, 2,4-dichlorophenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrotoluene, 2,6-dinitrotoluene, fluorene, hexachloroethane, phenanthrene, pyrene, and 2,4,5-trichlorophenol are outside of the acceptance limits in the quality control midlevel spike. These compounds are non-detect in the samples. The QL is qualified as estimated (UJ).

The results for napthalene are less than the QL. This compound is qualified as estimated (J).

There was insufficient sample volume for matrix spiking.

1509022 FINAL DAS R34715 10 14 15 920

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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701 Mapes Road
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Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
FAR-092315-P1	1509022-01	Surface Water	09/23/15 15:45	09/24/15 12:25
FAR-092315-P1D	1509022-02	Surface Water	09/23/15 15:45	09/24/15 12:25
FAR-092315-P2	1509022-03	Surface Water	09/23/15 17:05	09/24/15 12:25
FAR-TB-092315	1509022-04	Water	09/23/15 17:00	09/24/15 12:25

USEPA CLP COC (REGION COPY)
DateShipped: 9/23/2015
CarrierName: FedEx
AirbillNo: 7745 8183 3149

CHAIN OF CUSTODY RECORD
Fairfax ER/VA
DAS #: TBD
Cooler #: 1 of 1

No: 3-092315-181317-0001
Lab: EPA Region 3 ESC
Lab Contact: Eric Graybill
Lab Phone: 410-305-2763

Sample Identifier 1509022	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
FAR-092315-P1 -01	C0AA0	Surface Water/ START (Anderman/Richards)	Grab	VOC(24 hour), PAH(24 hour), EOH(24 hour)	1000 (HCl), 1001 (HCl), 1002 (HCl), 1003 (Wet ice), 1004 (Wet ice), 1005 (Wet ice), 1006 (Wet ice) (7)	P1/2	09/23/2015 15:45	Field Sample
FAR-092315-P1D -02	C0AA1	Surface Water/ START (Anderman/Richards)	Grab	PAH(24 hour), EOH(24 hour), VOC(24 hour)	1007 (Wet ice), 1008 (Wet ice), 1009 (Wet ice), 1010 (Wet ice), 1018 (HCl), 1019 (HCl), 1020 (HCl) (7)	P1/2	09/23/2015 15:45	Field Duplicate of C0AA0
FAR-092315-P2 -03	C0AA2	Surface Water/ START (Anderman/Richards)	Grab	PAH(24 hour), EOH(24 hour), VOC(24 hour)	1011 (Wet ice), 1012 (Wet ice), 1013 (Wet ice), 1014 (Wet ice), 1021 (HCl), 1022 (HCl), 1023 (HCl) (7)	P2/3	09/23/2015 17:05	Field Sample
FAR-TB-092315 -04	C0AA3	Blank/ START (Anderman/Richards)	Grab	VOC(24 hour)	1015 (HCl), 1016 (HCl), 1017 (HCl) (3)	Trip Blank	09/23/2015 17:00	Trip Blank
		(b) (4) [redacted]						

Special Instructions: All samples for 24 hour verbal TAT.

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: VOC=VOCs, PAH=PAHs, EOH=Ethanol

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples for analysis	(b) (4) [redacted] Weston Solutions	09/23/2015 19:30	FedEx	09/23/2015 19:30	
"	FedEx		ESAT	9/24/15 12:25	20C 9/24/15

Weston Solutions, Inc.
1400 Weston Way
West Chester, PA 19380
610-701-3000 ● Fax 610-701-3186
www.westonsolutions.com

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To: Memo-To-File

From: (b) (4) [redacted] (WESTON)

cc: Robert McGovern (US EPA ESC Inorganic Chemist); McGovern.Robert@epa.gov; Karen Costa (OASQA Laboratory Branch Chief), Costa.Karen@epa.gov; Charlie Fitzsimmons (US EPA On-Scene Coordinator), Fitzsimmons.Charlie@epamail.epa.gov;

Date: October 1, 2015

Re: Colonial Pipeline Gasoline Spill Emergency Response, Centreville, Fairfax County, Virginia
Region III Case No. R34715
Laboratory: US EPA Environmental Sciences Center, Fort Meade, MD

DCN: W0061.2F.01462

This Memo-To-File corrects errors and/or discrepancies on paperwork after samples were delivered to the U.S. Environmental Protection Agency Environmental Sciences Center (ESC) laboratory. Samples were shipped to the laboratory under FedEx Airbill No. 774581833149 on 09/23/2015.

Issue: The sample bottle with bottle label number 1004, sample number C00A0, sample identifier FAR-092315-P1, was received with the sample tag number 1008, sample number C00A1, sample identifier FAR-092315-P1D.

Resolution: The tag for this sample bottle should read tag number 1004, sample number C00A0, sample identifier FAR-092315-P1.

Issue: The sample bottle with bottle label number 1008, sample number C00A1, sample identifier FAR-092315-P1D, was received with the sample tag number 1004, sample number C00A0, sample identifier FAR-092315-P1.

Resolution: The tag for this sample bottle should read tag number 1008, sample number C00A1, sample identifier FAR-092315-P1.

Issue: The case number is listed as "TBD" on COC # 3-092315-181317-0001 and all corresponding sample tags and labels.

Resolution: The case number is DAS R34715.

If you have any additional questions, please contact me by telephone at (b) (4) [redacted] or by email at (b) (4) [redacted]

Sincerely,
WESTON SOLUTIONS, INC,

(b) (4) [redacted]

Enclosure:

cc: TDD File

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Alcohols

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-01								
Station ID: FAR-092315-P1								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Ethanol	U		10.0	ug/mL	1	09/24/15	09/24/15 17:57	EPA 8015D/R3QA203

Alcohols

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-02								
Station ID: FAR-092315-P1D								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Ethanol	U		10.0	ug/mL	1	09/24/15	09/24/15 18:06	EPA 8015D/R3QA203

Alcohols

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-03								
Station ID: FAR-092315-P2								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Ethanol	U		10.0	ug/mL	1	09/24/15	09/24/15 18:16	EPA 8015D/R3QA203

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Semivolatile Organic Compounds

Lab ID: 1509022-01
Station ID: FAR-092315-P1
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Acenaphthene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Acenaphthylene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Acetophenone	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Anthracene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Atrazine	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Benzaldehyde	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Benzo(a)anthracene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Benzo(b)fluoranthene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Benzo(k)fluoranthene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Benzo(ghi)perylene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Benzo(a)pyrene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
1,1-Biphenyl	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Bis(2-chloroethoxy)methane	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Bis(2-chloroethyl)ether	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Bis(2-chloroisopropyl)ether	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Bis(2-ethylhexyl)phthalate	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4-Bromophenyl phenyl ether	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Butyl benzyl phthalate	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Carbazole	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Caprolactam	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4-Chloroaniline	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4-Chloro-3-methylphenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2-Chloronaphthalene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2-Chlorophenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4-Chlorophenyl phenyl ether	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Chrysene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Dibenz(a,h)anthracene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Dibenzofuran	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
3,3'-Dichlorobenzidine	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Diethyl phthalate	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,4-Dichlorophenol	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,4-Dimethylphenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Dimethyl phthalate	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,4-Dinitrophenol	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Semivolatile Organic Compounds

Lab ID: 1509022-01
Station ID: FAR-092315-P1
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Di-n-butyl phthalate	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4,6-Dinitro-2-methylphenol	U	UJ	10.4	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,4-Dinitrotoluene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,6-Dinitrotoluene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Di-n-octyl phthalate	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Fluoranthene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Fluorene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Hexachlorobenzene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Hexachlorobutadiene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Hexachlorocyclopentadiene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Hexachloroethane	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Indeno(1,2,3-cd)pyrene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Isophorone	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2-Methylnaphthalene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2-Methylphenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4-Methylphenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Naphthalene	**3.79**	J	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2-Nitroaniline	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
3-Nitroaniline	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4-Nitroaniline	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Nitrobenzene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2-Nitrophenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
4-Nitrophenol	U		10.4	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
N-Nitrosodimethylamine	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
N-Nitroso-di-n-propylamine	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
N-Nitrosodiphenylamine	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Pentachlorophenol	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Phenanthrene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Phenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
Pyrene	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
1,2,4,5-Tetrachlorobenzene	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,3,4,6-Tetrachlorophenol	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,4,5-Trichlorophenol	U		5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201
2,4,6-Trichlorophenol	U	UJ	5.21	ug/L	1	09/24/15	09/25/15 12:34	R3QA201

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Surrogates

Analyte	Result	Flags/ Qualifiers	%Recovery	Units	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-01								
Station ID: FAR-092315-P1								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Surrogate: 2-Fluorophenol	24.9		**48 %**	ug/L	*21-110*	09/24/15	09/25/15 12:34	*R3QA201*
Surrogate: Phenol-d5	28.7		**55 %**	ug/L	*39-106*	09/24/15	09/25/15 12:34	*R3QA201*
Surrogate: Nitrobenzene-d5	12.2		**47 %**	ug/L	*43-108*	09/24/15	09/25/15 12:34	*R3QA201*
Surrogate: 2-Fluorobiphenyl	13.9		**53 %**	ug/L	*43-116*	09/24/15	09/25/15 12:34	*R3QA201*
Surrogate: 2,4,6-Tribromophenol	23.6		**45 %**	ug/L	*10-123*	09/24/15	09/25/15 12:34	*R3QA201*
Surrogate: Terphenyl-d14	11.5		**44 %**	ug/L	*33-141*	09/24/15	09/25/15 12:34	*R3QA201*

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Semivolatile Organic Compounds

Lab ID: 1509022-02
Station ID: FAR-092315-P1D
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Acenaphthene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Acenaphthylene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Acetophenone	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Anthracene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Atrazine	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Benzaldehyde	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Benzo(a)anthracene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Benzo(b)fluoranthene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Benzo(k)fluoranthene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Benzo(ghi)perylene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Benzo(a)pyrene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
1,1-Biphenyl	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Bis(2-chloroethoxy)methane	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Bis(2-chloroethyl)ether	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Bis(2-chloroisopropyl)ether	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Bis(2-ethylhexyl)phthalate	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4-Bromophenyl phenyl ether	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Butyl benzyl phthalate	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Carbazole	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Caprolactam	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4-Chloroaniline	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4-Chloro-3-methylphenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2-Chloronaphthalene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2-Chlorophenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4-Chlorophenyl phenyl ether	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Chrysene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Dibenz(a,h)anthracene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Dibenzofuran	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
3,3'-Dichlorobenzidine	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Diethyl phthalate	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,4-Dichlorophenol	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,4-Dimethylphenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Dimethyl phthalate	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,4-Dinitrophenol	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Semivolatile Organic Compounds

Lab ID: 1509022-02
Station ID: FAR-092315-P1D
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Di-n-butyl phthalate	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4,6-Dinitro-2-methylphenol	U	UJ	10.5	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,4-Dinitrotoluene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,6-Dinitrotoluene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Di-n-octyl phthalate	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Fluoranthene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Fluorene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Hexachlorobenzene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Hexachlorobutadiene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Hexachlorocyclopentadiene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Hexachloroethane	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Indeno(1,2,3-cd)pyrene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Isophorone	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2-Methylnaphthalene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2-Methylphenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4-Methylphenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Naphthalene	**3.77**	J	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2-Nitroaniline	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
3-Nitroaniline	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4-Nitroaniline	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Nitrobenzene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2-Nitrophenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
4-Nitrophenol	U		10.5	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
N-Nitrosodimethylamine	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
N-Nitroso-di-n-propylamine	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
N-Nitrosodiphenylamine	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Pentachlorophenol	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Phenanthrene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Phenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
Pyrene	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
1,2,4,5-Tetrachlorobenzene	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,3,4,6-Tetrachlorophenol	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,4,5-Trichlorophenol	U		5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201
2,4,6-Trichlorophenol	U	UJ	5.26	ug/L	1	09/24/15	09/25/15 13:25	R3QA201

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Surrogates

Analyte	Result	Flags/ Qualifiers	%Recovery	Units	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-02								
Station ID: FAR-092315-P1D								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Surrogate: 2-Fluorophenol	27.4		**52 %**	ug/L	*21-110*	09/24/15	09/25/15 13:25	*R3QA201*
Surrogate: Phenol-d5	28.2		**54 %**	ug/L	*39-106*	09/24/15	09/25/15 13:25	*R3QA201*
Surrogate: Nitrobenzene-d5	12.6		**48 %**	ug/L	*43-108*	09/24/15	09/25/15 13:25	*R3QA201*
Surrogate: 2-Fluorobiphenyl	13.6		**52 %**	ug/L	*43-116*	09/24/15	09/25/15 13:25	*R3QA201*
Surrogate: 2,4,6-Tribromophenol	23.9		**45 %**	ug/L	*10-123*	09/24/15	09/25/15 13:25	*R3QA201*
Surrogate: Terphenyl-d14	12.0		**45 %**	ug/L	*33-141*	09/24/15	09/25/15 13:25	*R3QA201*

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Semivolatile Organic Compounds

Lab ID: 1509022-03
Station ID: FAR-092315-P2
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Acenaphthene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Acenaphthylene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Acetophenone	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Anthracene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Atrazine	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Benzaldehyde	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Benzo(a)anthracene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Benzo(b)fluoranthene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Benzo(k)fluoranthene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Benzo(ghi)perylene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Benzo(a)pyrene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
1,1-Biphenyl	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Bis(2-chloroethoxy)methane	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Bis(2-chloroethyl)ether	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Bis(2-chloroisopropyl)ether	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Bis(2-ethylhexyl)phthalate	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4-Bromophenyl phenyl ether	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Butyl benzyl phthalate	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Carbazole	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Caprolactam	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4-Chloroaniline	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4-Chloro-3-methylphenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2-Chloronaphthalene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2-Chlorophenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4-Chlorophenyl phenyl ether	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Chrysene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Dibenz(a,h)anthracene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Dibenzofuran	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
3,3'-Dichlorobenzidine	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Diethyl phthalate	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,4-Dichlorophenol	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,4-Dimethylphenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Dimethyl phthalate	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,4-Dinitrophenol	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Semivolatile Organic Compounds

Lab ID: 1509022-03
Station ID: FAR-092315-P2
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Di-n-butyl phthalate	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4,6-Dinitro-2-methylphenol	U	UJ	10.8	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,4-Dinitrotoluene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,6-Dinitrotoluene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Di-n-octyl phthalate	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Fluoranthene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Fluorene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Hexachlorobenzene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Hexachlorobutadiene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Hexachlorocyclopentadiene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Hexachloroethane	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Indeno(1,2,3-cd)pyrene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Isophorone	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2-Methylnaphthalene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2-Methylphenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4-Methylphenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Naphthalene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2-Nitroaniline	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
3-Nitroaniline	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4-Nitroaniline	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Nitrobenzene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2-Nitrophenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
4-Nitrophenol	U		10.8	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
N-Nitrosodimethylamine	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
N-Nitroso-di-n-propylamine	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
N-Nitrosodiphenylamine	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Pentachlorophenol	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Phenanthrene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Phenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
Pyrene	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
1,2,4,5-Tetrachlorobenzene	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,3,4,6-Tetrachlorophenol	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,4,5-Trichlorophenol	U		5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201
2,4,6-Trichlorophenol	U	UJ	5.38	ug/L	1	09/24/15	09/25/15 14:29	R3QA201

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Surrogates

Analyte	Result	Flags/ Qualifiers	%Recovery	Units	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-03								
Station ID: FAR-092315-P2								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Surrogate: 2-Fluorophenol	21.2		**40 %**	ug/L	*21-110*	09/24/15	09/25/15 14:29	*R3QA201*
Surrogate: Phenol-d5	25.0		**47 %**	ug/L	*39-106*	09/24/15	09/25/15 14:29	*R3QA201*
Surrogate: Nitrobenzene-d5	10.8	A	**40 %**	ug/L	*43-108*	09/24/15	09/25/15 14:29	*R3QA201*
Surrogate: 2-Fluorobiphenyl	13.1		**49 %**	ug/L	*43-116*	09/24/15	09/25/15 14:29	*R3QA201*
Surrogate: 2,4,6-Tribromophenol	22.6		**42 %**	ug/L	*10-123*	09/24/15	09/25/15 14:29	*R3QA201*
Surrogate: Terphenyl-d14	9.15		**34 %**	ug/L	*33-141*	09/24/15	09/25/15 14:29	*R3QA201*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-01
Station ID: FAR-092315-P1
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**7.9**	B, J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Benzene	**1.1**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
sec-Butylbenzene	**0.2**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Cyclohexane	**0.8**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-01
Station ID: FAR-092315-P1
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
1,3-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Ethylbenzene	**0.08**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Isopropylbenzene	**0.1**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
p-Isopropyltoluene	**0.4**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Methylcyclohexane	**2.1**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Methyl-tert-butyl ether	**0.7**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Naphthalene	**8.3**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Toluene	**4.5**	J	5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Trichlorofluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,2,4-Trimethylbenzene	**23.2**		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
1,3,5-Trimethylbenzene	**10.4**		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-01								
Station ID: FAR-092315-P1								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Vinyl chloride	U		5.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
m-Xylene/p-Xylene	**54.7**		10.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210
o-Xylene	**36.5**		10.0	ug/L	1	09/24/15	09/24/15 14:54	SW8260C/R3QA210

Surrogates

Analyte	Result	Flags/ Qualifiers	**%Recovery**	Units	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-01								
Station ID: FAR-092315-P1								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Surrogate: 4-Bromofluorobenzene	20.77		**104 %**	ug/L	*86-115*	09/24/15	09/24/15 14:54	*SW8260C/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	21.92		**110 %**	ug/L	*76-114*	09/24/15	09/24/15 14:54	*SW8260C/R3QA210*
Surrogate: Toluene-d8	19.60		**98 %**	ug/L	*88-110*	09/24/15	09/24/15 14:54	*SW8260C/R3QA210*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-02
Station ID: FAR-092315-P1D
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**7.7**	B, J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Benzene	**1.1**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
sec-Butylbenzene	**0.2**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Cyclohexane	**0.9**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-02
Station ID: FAR-092315-P1D
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
1,3-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Ethylbenzene	**0.1**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Isopropylbenzene	**0.1**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
p-Isopropyltoluene	**0.4**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Methylcyclohexane	**2.1**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Methyl-tert-butyl ether	**0.7**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Naphthalene	**9.3**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Toluene	**4.8**	J	5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Trichlorofluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,2,4-Trimethylbenzene	**23.3**		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
1,3,5-Trimethylbenzene	**10.4**		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-02								
Station ID: FAR-092315-P1D								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Vinyl chloride	U		5.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
m-Xylene/p-Xylene	**56.2**		10.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210
o-Xylene	**37.3**		10.0	ug/L	1	09/24/15	09/24/15 15:43	SW8260C/R3QA210

Surrogates

Analyte	Result	Flags/ Qualifiers	**%Recovery**	Units	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-02								
Station ID: FAR-092315-P1D								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Surrogate: 4-Bromofluorobenzene	20.63		**103 %**	ug/L	*86-115*	09/24/15	09/24/15 15:43	*SW8260C/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	22.08		**110 %**	ug/L	*76-114*	09/24/15	09/24/15 15:43	*SW8260C/R3QA210*
Surrogate: Toluene-d8	19.82		**99 %**	ug/L	*88-110*	09/24/15	09/24/15 15:43	*SW8260C/R3QA210*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-03
Station ID: FAR-092315-P2
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**3.6**	B, J	5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Benzene	**0.3**	J	5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
sec-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Cyclohexane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-03
Station ID: FAR-092315-P2
Sample Matrix: Surface Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
1,3-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Ethylbenzene	**0.2**	J	5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Isopropylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
p-Isopropyltoluene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Methylcyclohexane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Methyl-tert-butyl ether	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Naphthalene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Toluene	**1.2**	B, J	5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Trichlorofluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,2,4-Trimethylbenzene	**0.4**	J	5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
1,3,5-Trimethylbenzene	**0.1**	J	5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
Vinyl chloride	U		5.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-03								
Station ID: FAR-092315-P2								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
m-Xylene/p-Xylene	**1.0**	J	10.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210
o-Xylene	**0.5**	J	10.0	ug/L	1	09/24/15	09/24/15 17:21	SW8260C/R3QA210

Surrogates

Analyte	Result	Flags/ Qualifiers	**%Recovery**	Units	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-03								
Station ID: FAR-092315-P2								
Sample Matrix: Surface Water								
Collected: 09/23/2015								
Surrogate: 4-Bromofluorobenzene	21.54		**108 %**	ug/L	*86-115*	09/24/15	09/24/15 17:21	*SW8260C/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	22.18		**111 %**	ug/L	*76-114*	09/24/15	09/24/15 17:21	*SW8260C/R3QA210*
Surrogate: Toluene-d8	19.96		**100 %**	ug/L	*88-110*	09/24/15	09/24/15 17:21	*SW8260C/R3QA210*

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-04
Station ID: FAR-TB-092315
Sample Matrix: Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Acetone	**3.0**	**J**	5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Benzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
sec-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Cyclohexane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Lab ID: 1509022-04
Station ID: FAR-TB-092315
Sample Matrix: Water
Collected: 09/23/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
1,3-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Ethylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Isopropylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
p-Isopropyltoluene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Methylcyclohexane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Methyl-tert-butyl ether	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Naphthalene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Toluene	**0.2**	**J**	5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Trichlorofluoromethane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,2,4-Trimethylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
1,3,5-Trimethylbenzene	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
Vinyl chloride	U		5.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-04								
Station ID: FAR-TB-092315								
Sample Matrix: Water								
Collected: 09/23/2015								
m-Xylene/p-Xylene	U		10.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210
o-Xylene	U		10.0	ug/L	1	09/24/15	09/24/15 13:10	SW8260C/R3QA210

Surrogates

Analyte	Result	Flags/ Qualifiers	**%Recovery**	Units	%Recovery Limits	Prepared	Analyzed	Method/SOP#
Lab ID: 1509022-04								
Station ID: FAR-TB-092315								
Sample Matrix: Water								
Collected: 09/23/2015								
Surrogate: 4-Bromofluorobenzene	22.24		**111 %**	ug/L	*86-115*	09/24/15	09/24/15 13:10	*SW8260C/R3QA210*
Surrogate: 1,2-Dichloroethane-d4	21.17		**106 %**	ug/L	*76-114*	09/24/15	09/24/15 13:10	*SW8260C/R3QA210*
Surrogate: Toluene-d8	20.20		**101 %**	ug/L	*88-110*	09/24/15	09/24/15 13:10	*SW8260C/R3QA210*

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **Fairfax Pipeline Emergency Response** **Project #: DAS R34715**

Tentatively Identified Compound (TIC) Report

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-01					
Station ID:	FAR-092315-P1					
Sample Matrix:	Surface Water					
Collected:	09/23/2015					
75-76-3	Silane, tetramethyl-	2.64	T	3.00	09/25/15 12:34	R3QA201
108-38-3	Benzene, 1,3-dimethyl-	14.3	T	3.41	09/25/15 12:34	R3QA201
622-96-8	Benzene, 1-ethyl-4-methyl-	5.67	T	4.03	09/25/15 12:34	R3QA201
95-63-6	Benzene, 1,2,4-trimethyl-	10.6	T	4.12	09/25/15 12:34	R3QA201
496-11-7	Indane	5.22	T	4.44	09/25/15 12:34	R3QA201
NA	unknown	4.56	T	4.51	09/25/15 12:34	R3QA201
535-77-3	Benzene, 1-methyl-3-(1-methylethyl)-	4.35	T	4.56	09/25/15 12:34	R3QA201
95-93-2	Benzene, 1,2,4,5-tetramethyl-	2.23	T	5.01	09/25/15 12:34	R3QA201
874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	3.69	T	5.15	09/25/15 12:34	R3QA201
NA	Unknown 02	5.19	T	5.23	09/25/15 12:34	R3QA201

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-01					
Station ID:	FAR-092315-P1					
Sample Matrix:	Surface Water					
Collected:	09/23/2015					
108-20-3	Diisopropyl ether (DIPE)	5.0	T	3.94	09/24/15 14:54	SW8260C/R3QA210
540-84-1	Pentane, 2,2,4-trimethyl-	11.3	T	6.04	09/24/15 14:54	SW8260C/R3QA210
565-75-3	Pentane, 2,3,4-trimethyl-	5.5	T	7.48	09/24/15 14:54	SW8260C/R3QA210
560-21-4	Pentane, 2,3,3-trimethyl-	7.3	T	7.60	09/24/15 14:54	SW8260C/R3QA210
611-14-3	Benzene, 1-ethyl-2-methyl- (01)	25.2	T	11.68	09/24/15 14:54	SW8260C/R3QA210
611-14-3	Benzene, 1-ethyl-2-methyl- (02)	10.2	T	11.71	09/24/15 14:54	SW8260C/R3QA210
611-14-3	Benzene, 1-ethyl-2-methyl- (03)	14.0	T	11.94	09/24/15 14:54	SW8260C/R3QA210
526-73-8	Benzene, 1,2,3-trimethyl-	18.8	T	12.53	09/24/15 14:54	SW8260C/R3QA210
496-11-7	Indane	13.4	T	12.63	09/24/15 14:54	SW8260C/R3QA210
NA	unknown (01)	5.8	T	12.73	09/24/15 14:54	SW8260C/R3QA210
NA	unknown (02)	7.8	T	12.84	09/24/15 14:54	SW8260C/R3QA210
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	15.7	T	13.14	09/24/15 14:54	SW8260C/R3QA210
NA	unknown (03)	6.6	T	13.54	09/24/15 14:54	SW8260C/R3QA210
95-93-2	Benzene, 1,2,4,5-tetramethyl-	8.1	T	13.58	09/24/15 14:54	SW8260C/R3QA210

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Tentatively Identified Compound (TIC) Report

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-01					
Station ID:	FAR-092315-P1					
Sample Matrix:	Surface Water					
Collected:	09/23/2015					
874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	8.4	T	13.72	09/24/15 14:54	SW8260C/R3QA210
824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	14.2	T	13.82	09/24/15 14:54	SW8260C/R3QA210

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Tentatively Identified Compound (TIC) Report

Semivolatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-02					
Station ID:	FAR-092315-P1D					
Sample Matrix:	Surface Water					
Collected:	09/23/2015					
75-76-3	Silane, tetramethyl-	2.58	T	3.00	09/25/15 13:25	R3QA201
108-38-3	Benzene, 1,3-dimethyl-	15.6	T	3.41	09/25/15 13:25	R3QA201
611-14-3	Benzene, 1-ethyl-2-methyl-	5.73	T	4.03	09/25/15 13:25	R3QA201
526-73-8	Benzene, 1,2,3-trimethyl-	10.6	T	4.12	09/25/15 13:25	R3QA201
95-63-6	Benzene, 1,2,4-trimethyl-	7.99	T	4.34	09/25/15 13:25	R3QA201
496-11-7	Indane	5.05	T	4.44	09/25/15 13:25	R3QA201
NA	unknown	4.39	T	4.51	09/25/15 13:25	R3QA201
934-74-7	Benzene, 1-ethyl-3,5-dimethyl-	4.33	T	4.56	09/25/15 13:25	R3QA201
488-23-3	Benzene, 1,2,3,4-tetramethyl-	2.15	T	5.01	09/25/15 13:25	R3QA201
874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	3.54	T	5.15	09/25/15 13:25	R3QA201
NA	Unknown 02	5.06	T	5.23	09/25/15 13:25	R3QA201

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-02					
Station ID:	FAR-092315-P1D					
Sample Matrix:	Surface Water					
Collected:	09/23/2015					
108-20-3	Diisopropyl ether (DIPE)	5.1	T	3.94	09/24/15 15:43	SW8260C/R3QA210
540-84-1	Pentane, 2,2,4-trimethyl-	11.7	T	6.04	09/24/15 15:43	SW8260C/R3QA210
565-75-3	Pentane, 2,3,4-trimethyl-	5.9	T	7.48	09/24/15 15:43	SW8260C/R3QA210
560-21-4	Pentane, 2,3,3-trimethyl-	7.5	T	7.60	09/24/15 15:43	SW8260C/R3QA210
611-14-3	Benzene, 1-ethyl-2-methyl- (01)	23.9	T	11.68	09/24/15 15:43	SW8260C/R3QA210
611-14-3	Benzene, 1-ethyl-2-methyl- (02)	9.9	T	11.71	09/24/15 15:43	SW8260C/R3QA210
611-14-3	Benzene, 1-ethyl-2-methyl- (03)	13.5	T	11.94	09/24/15 15:43	SW8260C/R3QA210
526-73-8	Benzene, 1,2,3-trimethyl-	18.2	T	12.53	09/24/15 15:43	SW8260C/R3QA210
496-11-7	Indane	12.9	T	12.63	09/24/15 15:43	SW8260C/R3QA210
NA	unknown (01)	5.7	T	12.73	09/24/15 15:43	SW8260C/R3QA210
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)- (01)	8.0	T	12.84	09/24/15 15:43	SW8260C/R3QA210
527-84-4	Benzene, 1-methyl-2-(1-methylethyl)- (02)	15.6	T	13.14	09/24/15 15:43	SW8260C/R3QA210
NA	unknown (02)	5.6	T	13.54	09/24/15 15:43	SW8260C/R3QA210

Site Name: **Fairfax Pipeline Emergency Response** **Project #:** **DAS R34715**

Tentatively Identified Compound (TIC) Report

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-02					
Station ID:	FAR-092315-P1D					
Sample Matrix:	Surface Water					
Collected:	09/23/2015					
95-93-2	Benzene, 1,2,4,5-tetramethyl-	8.0	T	13.58	09/24/15 15:43	SW8260C/R3QA210
874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	8.2	T	13.72	09/24/15 15:43	SW8260C/R3QA210
824-22-6	1H-Indene, 2,3-dihydro-4-methyl-	14.5	T	13.82	09/24/15 15:43	SW8260C/R3QA210

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-03					
Station ID:	FAR-092315-P2					
Sample Matrix:	Surface Water					
Collected:	09/23/2015					
NA	None Detected	0.0			09/24/15 17:21	SW8260C/R3QA210

Volatile Organic Compounds

CAS Number	Compound	Result ug/L	Analyte Qualifiers	Retention Time	Analyzed	Method/SOP#
Lab ID:	1509022-04					
Station ID:	FAR-TB-092315					
Sample Matrix:	Water					
Collected:	09/23/2015					
7446-09-5	Sulfur dioxide	2.4	T	1.06	09/24/15 13:10	SW8260C/R3QA210

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Alcohols

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52403 - Alcohols										
Blank (BI52403-BLK1)				Prepared: 09/24/15 13:00			Analyzed: 09/24/15 17:28			
Ethanol	U	10.0	ug/mL							
LCS (BI52403-BS1)				Prepared: 09/24/15 13:00			Analyzed: 09/24/15 17:47			
Ethanol	100	10.0	ug/mL	100.00		100	70-130			
MRL Check (BI52403-MRL1)				Prepared: 09/24/15 13:00			Analyzed: 09/24/15 17:37			
Ethanol	9.34	10.0	ug/mL	10.000		93				
Matrix Spike (BI52403-MS1)	**Source: 1509022-03**			Prepared: 09/24/15 13:00			Analyzed: 09/24/15 18:25			
Ethanol	100	10.0	ug/mL	100.00	0.00	100	70-130			
Matrix Spike Dup (BI52403-MSD1)	**Source: 1509022-03**			Prepared: 09/24/15 13:00			Analyzed: 09/24/15 18:35			
Ethanol	102	10.0	ug/mL	100.00	0.00	102	70-130	1	25	

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52404 - EPA 3520C SVOC										
Blank (BI52404-BLK1)				Prepared: 09/24/15 14:39		Analyzed: 09/25/15 10:53				
Acenaphthene	U	5.00	ug/L							
Acenaphthylene	U	5.00	"							
Acetophenone	U	5.00	"							
Anthracene	U	5.00	"							
Atrazine	U	5.00	"							
Benzaldehyde	U	5.00	"							
Benzo(a)anthracene	U	5.00	"							
Benzo(b)fluoranthene	U	5.00	"							
Benzo(k)fluoranthene	U	5.00	"							
Benzo(ghi)perylene	U	5.00	"							
Benzo(a)pyrene	U	5.00	"							
1,1-Biphenyl	U	5.00	"							
Bis(2-chloroethoxy)methane	U	5.00	"							
Bis(2-chloroethyl)ether	U	5.00	"							
Bis(2-chloroisopropyl)ether	U	5.00	"							
Bis(2-ethylhexyl)phthalate	U	5.00	"							
4-Bromophenyl phenyl ether	U	5.00	"							
Butyl benzyl phthalate	U	5.00	"							
Carbazole	U	5.00	"							
Caprolactam	U	5.00	"							
4-Chloroaniline	U	5.00	"							
4-Chloro-3-methylphenol	U	5.00	"							
2-Chloronaphthalene	U	5.00	"							
2-Chlorophenol	U	5.00	"							
4-Chlorophenyl phenyl ether	U	5.00	"							
Chrysene	U	5.00	"							
Dibenz(a,h)anthracene	U	5.00	"							
Dibenzofuran	U	5.00	"							
3,3'-Dichlorobenzidine	U	5.00	"							
Diethyl phthalate	U	5.00	"							
2,4-Dichlorophenol	U	5.00	"							
2,4-Dimethylphenol	U	5.00	"							
Dimethyl phthalate	U	5.00	"							
2,4-Dinitrophenol	U	5.00	"							
Di-n-butyl phthalate	U	5.00	"							
4,6-Dinitro-2-methylphenol	U	10.0	"							
2,4-Dinitrotoluene	U	5.00	"							
2,6-Dinitrotoluene	U	5.00	"							
Di-n-octyl phthalate	U	5.00	"							
Fluoranthene	U	5.00	"							
Fluorene	U	5.00	"							
Hexachlorobenzene	U	5.00	"							
Hexachlorobutadiene	U	5.00	"							
Hexachlorocyclopentadiene	U	5.00	"							
Hexachloroethane	U	5.00	"							

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52404 - EPA 3520C SVOC										
Blank (BI52404-BLK1)				Prepared: 09/24/15 14:39		Analyzed: 09/25/15 10:53				
Indeno(1,2,3-cd)pyrene	U	5.00	ug/L							
Isophorone	U	5.00	"							
2-Methylnaphthalene	U	5.00	"							
2-Methylphenol	U	5.00	"							
4-Methylphenol	U	5.00	"							
Naphthalene	U	5.00	"							
2-Nitroaniline	U	5.00	"							
3-Nitroaniline	U	5.00	"							
4-Nitroaniline	U	5.00	"							
Nitrobenzene	U	5.00	"							
2-Nitrophenol	U	5.00	"							
4-Nitrophenol	U	10.0	"							
N-Nitrosodimethylamine	U	5.00	"							
N-Nitroso-di-n-propylamine	U	5.00	"							
N-Nitrosodiphenylamine	U	5.00	"							
Pentachlorophenol	U	5.00	"							
Phenanthrene	U	5.00	"							
Phenol	U	5.00	"							
Pyrene	U	5.00	"							
1,2,4,5-Tetrachlorobenzene	U	5.00	"							
2,3,4,6-Tetrachlorophenol	U	5.00	"							
2,4,5-Trichlorophenol	U	5.00	"							
2,4,6-Trichlorophenol	U	5.00	"							
Surrogate: 2-Fluorophenol	*25.9*		*"*	*50.000*		*52*	*21-110*			
Surrogate: Phenol-d5	*27.4*		*"*	*50.000*		*55*	*39-106*			
Surrogate: Nitrobenzene-d5	*12.5*		*"*	*25.000*		*50*	*43-108*			
Surrogate: 2-Fluorobiphenyl	*13.1*		*"*	*25.000*		*53*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*22.9*		*"*	*50.000*		*46*	*10-123*			
Surrogate: Terphenyl-d14	*12.5*		*"*	*25.000*		*50*	*33-141*			

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52404 - EPA 3520C SVOC										
LCS (BI52404-BS1)				Prepared: 09/24/15 14:39		Analyzed: 09/25/15 11:43				
Acenaphthene	22.6	5.00	ug/L	40.000		57	60-132			A
Acenaphthylene	22.1	5.00	"	40.000		55	53-126			
Acetophenone	21.5	5.00	"	40.000		54	30-160			
Anthracene	23.1	5.00	"	40.000		58	43-118			
Atrazine	19.3	5.00	"	40.000		48	30-160			
Benzaldehyde	26.0	5.00	"	40.000		65	30-160			
Benzo(a)anthracene	21.7	5.00	"	40.000		54	41-133			
Benzo(b)fluoranthene	18.0	5.00	"	40.000		45	42-140			
Benzo(k)fluoranthene	24.2	5.00	"	40.000		60	25-146			
Benzo(ghi)perylene	29.0	5.00	"	40.000		72	0.01-195			
Benzo(a)pyrene	19.7	5.00	"	40.000		49	31-148			
1,1-Biphenyl	23.4	5.00	"	40.000		58	30-160			
Bis(2-chloroethoxy)methane	21.6	5.00	"	40.000		54	19-165			
Bis(2-chloroethyl)ether	18.6	5.00	"	40.000		46	42-126			
Bis(2-chloroisopropyl)ether	24.3	5.00	"	40.000		61	62-139			A
Bis(2-ethylhexyl)phthalate	17.0	5.00	"	40.000		42	28-137			
4-Bromophenyl phenyl ether	20.4	5.00	"	40.000		51	64-114			A
Butyl benzyl phthalate	16.3	5.00	"	40.000		41	0.01-140			
Carbazole	24.6	5.00	"	40.000		61	30-160			
Caprolactam	17.4	5.00	"	40.000		43	30-160			
4-Chloroaniline	19.9	5.00	"	40.000		50	30-160			
4-Chloro-3-methylphenol	19.1	5.00	"	40.000		48	40-128			
2-Chloronaphthalene	22.2	5.00	"	40.000		55	64-114			A
2-Chlorophenol	19.6	5.00	"	40.000		49	36-121			
4-Chlorophenyl phenyl ether	23.5	5.00	"	40.000		59	38-145			
Chrysene	23.9	5.00	"	40.000		60	44-140			
Dibenz(a,h)anthracene	26.1	5.00	"	40.000		65	0.01-200			
Dibenzofuran	21.2	5.00	"	40.000		53	30-160			
3,3'-Dichlorobenzidine	32.3	5.00	"	40.000		81	8-213			
Diethyl phthalate	19.9	5.00	"	40.000		50	10-100			
2,4-Dichlorophenol	19.7	5.00	"	40.000		49	52-122			A
2,4-Dimethylphenol	22.5	5.00	"	40.000		56	41-109			
Dimethyl phthalate	20.8	5.00	"	40.000		52	0.01-100			
2,4-Dinitrophenol	8.30	5.00	"	40.000		21	0.01-173			
Di-n-butyl phthalate	20.8	5.00	"	40.000		52	8-111			
4,6-Dinitro-2-methylphenol	15.4	10.0	"	40.000		38	53-100			A
2,4-Dinitrotoluene	18.2	5.00	"	40.000		45	47-127			A
2,6-Dinitrotoluene	21.6	5.00	"	40.000		54	68-138			A
Di-n-octyl phthalate	13.9	5.00	"	40.000		35	18-132			
Fluoranthene	22.0	5.00	"	40.000		55	42-122			
Fluorene	24.1	5.00	"	40.000		60	71-109			A
Hexachlorobenzene	22.4	5.00	"	40.000		56	10-142			
Hexachlorobutadiene	21.7	5.00	"	40.000		54	37-103			
Hexachlorocyclopentadiene	8.34	5.00	"	40.000		21	0.01-104			
Hexachloroethane	21.3	5.00	"	40.000		53	55-100			A

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Semivolatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52404 - EPA 3520C SVOC										
LCS (BI52404-BS1)				Prepared: 09/24/15 14:39		Analyzed: 09/25/15 11:43				
Indeno(1,2,3-cd)pyrene	24.9	5.00	ug/L	40.000		62	0.01-151			
Isophorone	22.0	5.00	"	40.000		55	46-181			
2-Methylnaphthalene	23.5	5.00	"	40.000		59	30-160			
2-Methylphenol	20.7	5.00	"	40.000		52	30-160			
4-Methylphenol	22.8	5.00	"	40.000		57	30-160			
Naphthalene	22.5	5.00	"	40.000		56	35-120			
2-Nitroaniline	16.3	5.00	"	40.000		41	30-160			
3-Nitroaniline	23.2	5.00	"	40.000		58	30-160			
4-Nitroaniline	25.0	5.00	"	40.000		63	30-160			
Nitrobenzene	21.7	5.00	"	40.000		54	54-158			
2-Nitrophenol	17.9	5.00	"	40.000		45	45-167			
4-Nitrophenol	13.2	10.0	"	40.000		33	13-107			
N-Nitrosodimethylamine	15.8	5.00	"	40.000		40	30-160			
N-Nitroso-di-n-propylamine	23.3	5.00	"	40.000		58	41-116			
N-Nitrosodiphenylamine	24.1	5.00	"	40.000		60	30-160			
Pentachlorophenol	14.0	5.00	"	40.000		35	9-103			
Phenanthrene	21.2	5.00	"	40.000		53	65-109			A
Phenol	20.9	5.00	"	40.000		52	12-110			
Pyrene	18.3	5.00	"	40.000		46	69-100			A
1,2,4,5-Tetrachlorobenzene	21.1	5.00	"	40.000		53	30-160			
2,3,4,6-Tetrachlorophenol	17.2	5.00	"	40.000		43	30-160			
2,4,5-Trichlorophenol	18.1	5.00	"	40.000		45	30-160			
2,4,6-Trichlorophenol	16.6	5.00	"	40.000		41	52-130			A
Surrogate: 2-Fluorophenol	*23.2*		*"*	*50.000*		*46*	*21-110*			
Surrogate: Phenol-d5	*28.3*		*"*	*50.000*		*57*	*39-106*			
Surrogate: Nitrobenzene-d5	*12.8*		*"*	*25.000*		*51*	*43-108*			
Surrogate: 2-Fluorobiphenyl	*13.3*		*"*	*25.000*		*53*	*43-116*			
Surrogate: 2,4,6-Tribromophenol	*25.1*		*"*	*50.000*		*50*	*10-123*			
Surrogate: Terphenyl-d14	*11.4*		*"*	*25.000*		*45*	*33-141*			

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52501 - VOC Purge and Trap										
Blank (BI52501-BLK1)				Prepared & Analyzed: 09/24/15 11:12						
Acetone	U	5.0	ug/L							
Benzene	U	5.0	"							
Bromobenzene	U	5.0	"							
Bromochloromethane	U	5.0	"							
Bromodichloromethane	U	5.0	"							
Bromoform	U	5.0	"							
Bromomethane	U	5.0	"							
2-Butanone	U	5.0	"							
sec-Butylbenzene	U	5.0	"							
tert-Butylbenzene	U	5.0	"							
n-Butylbenzene	U	5.0	"							
Carbon disulfide	U	5.0	"							
Carbon Tetrachloride	U	5.0	"							
Chlorobenzene	U	5.0	"							
Chlorodibromomethane	U	5.0	"							
Chloroethane	U	5.0	"							
Chloroform	U	5.0	"							
Chloromethane	U	5.0	"							
2-Chlorotoluene	U	5.0	"							
4-Chlorotoluene	U	5.0	"							
Cyclohexane	U	5.0	"							
1,2-Dibromo-3-chloropropane	U	5.0	"							
1,2-Dibromoethane (EDB)	U	5.0	"							
Dibromomethane	U	5.0	"							
1,2-Dichlorobenzene	U	5.0	"							
1,3-Dichlorobenzene	U	5.0	"							
1,4-Dichlorobenzene	U	5.0	"							
Dichlorodifluoromethane	U	5.0	"							
1,1-Dichloroethane	U	5.0	"							
1,2-Dichloroethane	U	5.0	"							
1,1-Dichloroethene	U	5.0	"							
cis-1,2-Dichloroethene	U	5.0	"							
trans-1,2-Dichloroethene	U	5.0	"							
1,2-Dichloropropane	U	5.0	"							
1,3-Dichloropropane	U	5.0	"							
2,2-Dichloropropane	U	5.0	"							
1,1-Dichloropropene	U	5.0	"							
cis-1,3-Dichloropropene	U	5.0	"							
trans-1,3-Dichloropropene	U	5.0	"							
Ethylbenzene	U	5.0	"							
Freon 113	U	5.0	"							
Hexachlorobutadiene	U	5.0	"							
2-Hexanone	U	5.0	"							
Isopropylbenzene	U	5.0	"							
p-Isopropyltoluene	U	5.0	"							

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52501 - VOC Purge and Trap										
Blank (BI52501-BLK1)				Prepared & Analyzed: 09/24/15 11:12						
Methyl Acetate	U	5.0	ug/L							
Methylcyclohexane	U	5.0	"							
Methyl-tert-butyl ether	U	5.0	"							
Methylene Chloride	U	5.0	"							
4-Methyl-2-pentanone	U	5.0	"							
Naphthalene	U	5.0	"							
n-Propylbenzene	U	5.0	"							
Styrene	U	10.0	"							
1,1,2,2-Tetrachloroethane	U	5.0	"							
1,1,1,2-Tetrachloroethane	U	5.0	"							
Tetrachloroethene	U	5.0	"							
Toluene	U	5.0	"							
1,2,3-Trichlorobenzene	U	5.0	"							
1,2,4-Trichlorobenzene	U	5.0	"							
1,1,1-Trichloroethane	U	5.0	"							
1,1,2-Trichloroethane	U	5.0	"							
Trichloroethene	U	5.0	"							
Trichlorofluoromethane	U	5.0	"							
1,2,3-Trichloropropane	U	5.0	"							
1,2,4-Trimethylbenzene	U	5.0	"							
1,3,5-Trimethylbenzene	U	5.0	"							
Vinyl acetate	U	5.0	"							
Vinyl chloride	U	5.0	"							
m-Xylene/p-Xylene	U	10.0	"							
o-Xylene	U	10.0	"							
Surrogate: 4-Bromofluorobenzene	*22.35*		*"*	*20.000*		*112*	*86-115*			
Surrogate: 1,2-Dichloroethane-d4	*22.40*		*"*	*20.000*		*112*	*76-114*			
Surrogate: Toluene-d8	*20.03*		*"*	*20.000*		*100*	*88-110*			

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52501 - VOC Purge and Trap										
LCS (BI52501-BS1)				Prepared & Analyzed: 09/22/15 08:32						
Acetone	4.18	5.0	ug/L				80-120			J
Benzene	20.12	5.0	"	20.000		101	80-120			
Bromobenzene	19.54	5.0	"	20.000		98	80-120			
Bromochloromethane	20.47	5.0	"	20.000		102	80-120			
Bromodichloromethane	19.19	5.0	"	20.000		96	80-120			
Bromoform	18.29	5.0	"	20.000		91	80-120			
Bromomethane	23.34	5.0	"	20.000		117	80-120			
2-Butanone	U	5.0	"				80-120			
sec-Butylbenzene	20.14	5.0	"	20.000		101	80-120			
tert-Butylbenzene	19.73	5.0	"	20.000		99	80-120			
n-Butylbenzene	19.71	5.0	"	20.000		99	80-120			
Carbon disulfide	U	5.0	"				80-120			
Carbon Tetrachloride	19.58	5.0	"	20.000		98	80-120			
Chlorobenzene	19.38	5.0	"	20.000		97	80-120			
Chlorodibromomethane	18.92	5.0	"	20.000		95	80-120			
Chloroethane	19.44	5.0	"	20.000		97	80-120			
2-Chloroethylvinyl ether	U	5.0	"				80-120			
Chloroform	20.00	5.0	"	20.000		100	80-120			
Chloromethane	17.80	5.0	"	20.000		89	80-120			
2-Chlorotoluene	20.17	5.0	"	20.000		101	80-120			
4-Chlorotoluene	19.93	5.0	"	20.000		100	80-120			
Cyclohexane	U	5.0	"				80-120			
1,2-Dibromo-3-chloropropane	18.98	5.0	"	20.000		95	80-120			
1,2-Dibromoethane (EDB)	19.39	5.0	"	20.000		97	80-120			
Dibromomethane	19.53	5.0	"	20.000		98	80-120			
1,2-Dichlorobenzene	19.95	5.0	"	20.000		100	80-120			
1,3-Dichlorobenzene	20.51	5.0	"	20.000		103	80-120			
1,4-Dichlorobenzene	20.04	5.0	"	20.000		100	80-120			
Dichlorodifluoromethane	15.97	5.0	"	20.000		80	80-120			
1,1-Dichloroethane	21.64	5.0	"	20.000		108	80-120			
1,2-Dichloroethane	19.56	5.0	"	20.000		98	80-120			
1,1-Dichloroethene	19.43	5.0	"	20.000		97	80-120			
cis-1,2-Dichloroethene	19.42	5.0	"	20.000		97	80-120			
trans-1,2-Dichloroethene	19.43	5.0	"	20.000		97	80-120			
1,2-Dichloropropane	19.05	5.0	"	20.000		95	80-120			
1,3-Dichloropropane	19.60	5.0	"	20.000		98	80-120			
2,2-Dichloropropane	18.65	5.0	"	20.000		93	80-120			
1,1-Dichloropropene	20.86	5.0	"	20.000		104	80-120			
cis-1,3-Dichloropropene	19.97	5.0	"	20.000		100	80-120			
trans-1,3-Dichloropropene	19.06	5.0	"	20.000		95	80-120			
Ethylbenzene	19.25	5.0	"	20.000		96	80-120			
Freon 113	U	5.0	"				80-120			
Hexachlorobutadiene	20.27	5.0	"	20.000		101	80-120			
2-Hexanone	U	5.0	"				80-120			
Isopropylbenzene	18.95	5.0	"	20.000		95	80-120			

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

QC Data
Volatile Organic Compounds

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BI52501 - VOC Purge and Trap										
LCS (BI52501-BS1)				Prepared & Analyzed: 09/22/15 08:32						
p-Isopropyltoluene	19.94	5.0	ug/L	20.000		100	80-120			
Methyl Acetate	U	5.0	"				80-120			
Methylcyclohexane	U	5.0	"				80-120			
Methyl-tert-butyl ether	U	5.0	"				80-120			
Methylene Chloride	18.79	5.0	"	20.000		94	80-120			
4-Methyl-2-pentanone	U	5.0	"				80-120			
Naphthalene	19.56	5.0	"	20.000		98	80-120			
n-Propylbenzene	19.64	5.0	"	20.000		98	80-120			
Styrene	18.92	10.0	"	20.000		95	80-120			
1,1,2,2-Tetrachloroethane	20.39	5.0	"	20.000		102	80-120			
1,1,1,2-Tetrachloroethane	18.50	5.0	"	20.000		92	80-120			
Tetrachloroethene	19.57	5.0	"	20.000		98	80-120			
Toluene	19.30	5.0	"	20.000		96	80-120			
1,2,3-Trichlorobenzene	19.63	5.0	"	20.000		98	80-120			
1,2,4-Trichlorobenzene	19.76	5.0	"	20.000		99	80-120			
1,1,1-Trichloroethane	19.38	5.0	"	20.000		97	80-120			
1,1,2-Trichloroethane	19.74	5.0	"	20.000		99	80-120			
Trichloroethene	19.30	5.0	"	20.000		96	80-120			
Trichlorofluoromethane	19.47	5.0	"	20.000		97	80-120			
1,2,3-Trichloropropane	19.73	5.0	"	20.000		99	80-120			
1,2,4-Trimethylbenzene	20.22	5.0	"	20.000		101	80-120			
1,3,5-Trimethylbenzene	19.87	5.0	"	20.000		99	80-120			
Vinyl acetate	U	5.0	"				80-120			
Vinyl chloride	19.96	5.0	"	20.000		100	80-120			
m-Xylene/p-Xylene	38.89	10.0	"	40.000		97	80-120			
o-Xylene	19.82	10.0	"	20.000		99	80-120			
Surrogate: 4-Bromofluorobenzene	*20.30*		*"*	*20.000*		*102*	*86-115*			
Surrogate: 1,2-Dichloroethane-d4	*20.07*		*"*	*20.000*		*100*	*76-114*			
Surrogate: Toluene-d8	*19.52*		*"*	*20.000*		*98*	*88-110*			

Site Name: Fairfax Pipeline Emergency Response **Project #: DAS R34715**

Notes and Definitions

UJ	The analyte was not detected at or above the quantitation limit. The quantitation limit is an estimate.
T	Tentatively Identified Compound. Identified as a result of a library search using the EPA/NIST Mass Spectral Library. Standards were not used to verify the identity and quantity of the compound. The reported value is an estimate.
J	The identification of the analyte is acceptable; the reported value is an estimate.
B	Not detected substantially above (10 times) the level reported in the laboratory or field blanks (including field, trip, rinsate, and equipment blanks).
A	Quality control value is outside acceptance limits.
%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.
NR	Not Reported

QUANTITATION LIMIT: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

SOLID SAMPLE RESULTS - REPORTING PROTOCOL: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

ON-DEMAND: The term 'on-demand' analysis, if noted in the report narrative, refers to Section 13.1.4 in the Region III OASQA Laboratory Quality Manual, which provides procedures for non-routine analyses or analytes.