



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



Draft Report

Site Name..... Westvaco Spill - NBP Monitor
 Sample Collection Date(s)..... 09/26/15 08:00- 09/26/15 08:55
 Contact..... Rick Rogers
 Report Date..... 09/29/15 15:10
 Project #..... NSF 701
 Work Order..... 1509027

Analyses included in this report:

Total Dissolved Solids by SM 2540C
 Total Metals by EPA 200.8
 VOCs based on SW846 5030B/8260C

Total Metals by EPA 200.7
 Total Suspended Solids by SM 2540D



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DRAFT



Report Narrative

VOA Analysis Note:

In addition to the routine target volatile organic compounds, the samples were examined for tentatively identified compounds, with particular attention on the masses characteristic to 1,3-Butadiene. No tentatively identified compounds were detected, except for a trace of sulfur dioxide in the trip blank.

Additional sample volume was not available for matrix spiking.



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701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Westvaco Spill - NBP Monitor **Project #: NSF 701**

Physical Parameters

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
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Lab ID: 1509027-01
Station ID: NBP @ RT28_EOS
Sample Matrix: Surface Water
Collected: 09/26/2015

Total Suspended Solids	U		10	mg/L	1	09/29/15	09/29/15 15:07	SM2540D/R3QA106
Total Dissolved Solids	424		10	mg/L	1	09/29/15	09/29/15 15:05	SM2540C/R3QA105

Lab ID: 1509027-01
Station ID: NBP @ RT28_EOS
Sample Matrix: Surface Water
Collected: 09/26/2015

Acetone	2.4	B, J	5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Benzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
sec-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Cyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210



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Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-01							
Station ID:	NBP @ RT28_EOS							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Dibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,3-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Ethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Isopropylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
p-Isopropyltoluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Methylcyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Methyl-tert-butyl ether	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Naphthalene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210



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Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-01							
Station ID:	NBP @ RT28_EOS							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Toluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Trichlorofluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,2,4-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
1,3,5-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
Vinyl chloride	U		5.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
m-Xylene/p-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
o-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210
None Detected	0.0			ug/L	1	09/28/15	09/28/15 18:20	SW8260C/R3QA210

Surrogates

Lab ID: 1509027-01
Station ID: NBP @ RT28_EOS
Sample Matrix: Surface Water
Collected: 09/26/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
<i>Surrogate: 4-Bromofluorobenzene</i>	21.78		109 %	ug/L	86-115	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: 1,2-Dichloroethane-d4</i>	21.13		106 %	ug/L	76-114	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: Toluene-d8</i>	19.16		96 %	ug/L	88-110	09/28/15	09/28/15	SW8260C/R3QA210



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Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-02							
Station ID:	NBP @ FB_EOS							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Acetone	2.4	J	5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Benzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
sec-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Cyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210



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Project #: NSF 701

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-02							
Station ID:	NBP @ FB_EOS							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,3-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Ethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Isopropylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
p-Isopropyltoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Methylcyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Methyl-tert-butyl ether	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Naphthalene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Toluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210



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Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-02							
Station ID:	NBP @ FB_EOS							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Trichlorofluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,2,4-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
1,3,5-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
Vinyl chloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
m-Xylene/p-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
o-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210
None Detected	0.0			ug/L	1	09/28/15	09/28/15 15:25	SW8260C/R3QA210

Surrogates

Lab ID: 1509027-02
Station ID: NBP @ FB_EOS
Sample Matrix: Surface Water
Collected: 09/26/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
<i>Surrogate: 4-Bromofluorobenzene</i>	21.88		109 %	ug/L	86-115	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.74		104 %	ug/L	76-114	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: Toluene-d8</i>	19.67		98 %	ug/L	88-110	09/28/15	09/28/15	SW8260C/R3QA210

Lab ID: 1509027-03
Station ID: NBP @ RT28_MID
Sample Matrix: Surface Water
Collected: 09/26/2015

Total Dissolved Solids	411		10	mg/L	1	09/29/15	09/29/15 15:05	SM2540C/R3QA105
Total Suspended Solids	U		10	mg/L	1	09/29/15	09/29/15 15:07	SM2540D/R3QA106



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
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701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Westvaco Spill - NBP Monitor **Project #: NSF 701**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-03							
Station ID:	NBP @ RT28_MID							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Acetone	3.0	B, J	5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Benzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
sec-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Cyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-03							
Station ID:	NBP @ RT28_MID							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,3-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Ethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Isopropylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
p-Isopropyltoluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Methylcyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Methyl-tert-butyl ether	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Naphthalene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Toluene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Site Name: Westvaco Spill - NBP Monitor **Project #: NSF 701**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-03							
Station ID:	NBP @ RT28_MID							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Trichlorofluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,2,4-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
1,3,5-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
Vinyl chloride	U		5.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
m-Xylene/p-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
o-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210
None Detected	0.0			ug/L	1	09/28/15	09/28/15 18:45	SW8260C/R3QA210

Surrogates

Lab ID: 1509027-03
Station ID: NBP @ RT28_MID
Sample Matrix: Surface Water
Collected: 09/26/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
<i>Surrogate: 4-Bromofluorobenzene</i>	20.94		105 %	ug/L	86-115	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.48		102 %	ug/L	76-114	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: Toluene-d8</i>	20.05		100 %	ug/L	88-110	09/28/15	09/28/15	SW8260C/R3QA210



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Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-04							
Station ID:	NBP @ FB_MID							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Acetone	2.8	J	5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Benzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
sec-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Cyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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701 Mapes Road
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Site Name: Westvaco Spill - NBP Monitor **Project #: NSF 701**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-04							
Station ID:	NBP @ FB_MID							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,3-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Ethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Isopropylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
p-Isopropyltoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Methylcyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Methyl-tert-butyl ether	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Naphthalene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Toluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 3 Environmental Science Center
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701 Mapes Road
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Site Name: Westvaco Spill - NBP Monitor **Project #: NSF 701**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-04							
Station ID:	NBP @ FB_MID							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Trichlorofluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,2,4-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
1,3,5-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
Vinyl chloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
m-Xylene/p-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
o-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210
None Detected	0.0			ug/L	1	09/28/15	09/28/15 15:50	SW8260C/R3QA210

Surrogates

Lab ID: 1509027-04
Station ID: NBP @ FB_MID
Sample Matrix: Surface Water
Collected: 09/26/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
<i>Surrogate: 4-Bromofluorobenzene</i>	21.87		109 %	ug/L	86-115	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.82		104 %	ug/L	76-114	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: Toluene-d8</i>	19.75		99 %	ug/L	88-110	09/28/15	09/28/15	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: Westvaco Spill - NBP Monitor **Project #: NSF 701**

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-06							
Station ID:	92615JH							
Sample Matrix:	Water							
Collected:	09/26/2015							
Acetone	3.0	J	5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Benzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Bromobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Bromochloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Bromodichloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Bromoform	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Bromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
2-Butanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
sec-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
tert-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
n-Butylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Carbon disulfide	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Carbon Tetrachloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Chlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Chlorodibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Chloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Chloroform	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Chloromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
2-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
4-Chlorotoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Cyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2-Dibromo-3-chloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2-Dibromoethane (EDB)	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Dibromomethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,3-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,4-Dichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Dichlorodifluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,1-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2-Dichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,1-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-06							
Station ID:	92615JH							
Sample Matrix:	Water							
Collected:	09/26/2015							
cis-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
trans-1,2-Dichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,3-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
2,2-Dichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,1-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
cis-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
trans-1,3-Dichloropropene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Ethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Freon 113	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Hexachlorobutadiene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
2-Hexanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Isopropylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
p-Isopropyltoluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Methyl Acetate	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Methylcyclohexane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Methyl-tert-butyl ether	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Methylene Chloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
4-Methyl-2-pentanone	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Naphthalene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
n-Propylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Styrene	U		10.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,1,2,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,1,1,2-Tetrachloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Tetrachloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Toluene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2,3-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2,4-Trichlorobenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,1,1-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,1,2-Trichloroethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Trichloroethene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210



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Site Name: Westvaco Spill - NBP Monitor **Project #:** NSF 701

Volatile Organic Compounds

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-06							
Station ID:	92615JH							
Sample Matrix:	Water							
Collected:	09/26/2015							
Trichlorofluoromethane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2,3-Trichloropropane	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,2,4-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
1,3,5-Trimethylbenzene	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Vinyl acetate	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Vinyl chloride	U		5.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
m-Xylene/p-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
o-Xylene	U		10.0	ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210
Sulfur dioxide	2.7	T		ug/L	1	09/28/15	09/28/15 15:01	SW8260C/R3QA210

Surrogates

Lab ID: 1509027-06
Station ID: 92615JH
Sample Matrix: Water
Collected: 09/26/2015

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
<i>Surrogate: 4-Bromofluorobenzene</i>	22.07		110 %	ug/L	86-115	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.20		101 %	ug/L	76-114	09/28/15	09/28/15	SW8260C/R3QA210
<i>Surrogate: Toluene-d8</i>	20.02		100 %	ug/L	88-110	09/28/15	09/28/15	SW8260C/R3QA210



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701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Westvaco Spill - NBP Monitor **Project #: NSF 701**

Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-01							
Station ID:	NBP @ RT28_EOS							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Aluminum	76.1		20.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Antimony	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Arsenic	1.7		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Barium	56.4		10.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Beryllium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Cadmium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Calcium	67700		500	ug/L	1	09/28/15	09/29/15 11:06	EPA 200.7/R3QA159
Chromium	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Cobalt	1.0		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Copper	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Iron	156		100	ug/L	1	09/28/15	09/29/15 11:06	EPA 200.7/R3QA159
Lead	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Magnesium	19200		500	ug/L	1	09/28/15	09/29/15 11:06	EPA 200.7/R3QA159
Manganese	142		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Nickel	7.4		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Potassium	3860		2000	ug/L	1	09/28/15	09/29/15 11:06	EPA 200.7/R3QA159
Selenium	U		5.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Silver	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Sodium	38000		1000	ug/L	1	09/28/15	09/29/15 11:06	EPA 200.7/R3QA159
Thallium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Vanadium	U		5.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116
Zinc	3.6		2.0	ug/L	2.5	09/28/15	09/29/15 09:05	EPA 200.8/R3QA116



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Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-03							
Station ID:	NBP @ RT28_MID							
Sample Matrix:	Surface Water							
Collected:	09/26/2015							
Aluminum	77.1		20.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Antimony	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Arsenic	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Barium	60.1		10.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Beryllium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Cadmium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Calcium	68600		500	ug/L	1	09/28/15	09/29/15 11:18	EPA 200.7/R3QA159
Chromium	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Cobalt	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Copper	2.3		2.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Iron	132		100	ug/L	1	09/28/15	09/29/15 11:18	EPA 200.7/R3QA159
Lead	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Magnesium	19300		500	ug/L	1	09/28/15	09/29/15 11:18	EPA 200.7/R3QA159
Manganese	130		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Nickel	6.8		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Potassium	4020		2000	ug/L	1	09/28/15	09/29/15 11:18	EPA 200.7/R3QA159
Selenium	U		5.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Silver	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Sodium	39200		1000	ug/L	1	09/28/15	09/29/15 11:18	EPA 200.7/R3QA159
Thallium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Vanadium	U		5.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116
Zinc	3.7		2.0	ug/L	2.5	09/28/15	09/29/15 09:12	EPA 200.8/R3QA116



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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701 Mapes Road
Fort Meade, Maryland 20755-5350



Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID:	1509027-05							
Station ID:	92615JH							
Sample Matrix:	Water							
Collected:	09/26/2015							
Aluminum	U		20.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Antimony	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Arsenic	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Barium	U		10.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Beryllium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Cadmium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Calcium	U		500	ug/L	1	09/28/15	09/29/15 11:30	EPA 200.7/R3QA159
Chromium	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Cobalt	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Copper	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Iron	U		100	ug/L	1	09/28/15	09/29/15 11:30	EPA 200.7/R3QA159
Lead	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Magnesium	U		500	ug/L	1	09/28/15	09/29/15 11:30	EPA 200.7/R3QA159
Manganese	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Nickel	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Potassium	U		2000	ug/L	1	09/28/15	09/29/15 11:30	EPA 200.7/R3QA159
Selenium	U		5.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Silver	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Sodium	U		1000	ug/L	1	09/28/15	09/29/15 11:30	EPA 200.7/R3QA159
Thallium	U		1.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Vanadium	U		5.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116
Zinc	U		2.0	ug/L	2.5	09/28/15	09/29/15 09:19	EPA 200.8/R3QA116



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



DRAFT

Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Notes and Definitions

- 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.
- D Source sample result and/or duplicate sample result are below the quantitation limit and the RPD is artificially high. Precision data (RPD value) has no significance for this QC Sample.
- 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.
- NR Not Reported
- 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.

REPORTING PROTOCOL FOR SOLID SAMPLE RESULTS: 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.