



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..... Westvaco Spill - NBP Monitor
 Sample Collection Date(s)..... 09/29/15 11:30- 09/29/15 12:00
 Contact..... Rick Rogers
 Report Date..... 10/02/15 08:16
 Project #..... NSF 701
 Work Order..... 1509032

DRAFT

Analyses included in this report:

Total Metals by EPA 200.7

Total Metals by EPA 200.8



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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.

Additional sample volume was not available for matrix spiking.



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Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Station ID: POT_EOS

Lab ID: 1509032-01

Sample Matrix: Surface Water

Date Collected: 09/29/2015

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	25.8		20.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Barium	53.8		10.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Cadmium	U		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Calcium	55700		500	1	09/30/15	10/01/15 11:35	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Copper	U		2.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Iron	U		100	1	09/30/15	10/01/15 11:35	EPA 200.7/R3QA159
Lead	U		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Magnesium	14400		500	1	09/30/15	10/01/15 11:35	EPA 200.7/R3QA159
Manganese	14.4		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Nickel	3.6		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Potassium	3310		2000	1	09/30/15	10/01/15 11:35	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Silver	U		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Sodium	27600		1000	1	09/30/15	10/01/15 11:35	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116
Zinc	2.0		2.0	2.5	09/30/15	10/01/15 14:41	EPA 200.8/R3QA116



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701 Mapes Road

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Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Station ID: POT_MID

Lab ID: 1509032-03

Sample Matrix: Surface Water

Date Collected: 09/29/2015

Total Metals

Targets

Analyte	Result ug/L	Flags Qualifiers	Quantitation Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	31.4		20.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Arsenic	1.1		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Barium	55.9		10.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Cadmium	U		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Calcium	56000		500	1	09/30/15	10/01/15 11:47	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Copper	U		2.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Iron	U		100	1	09/30/15	10/01/15 11:47	EPA 200.7/R3QA159
Lead	U		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Magnesium	14400		500	1	09/30/15	10/01/15 11:47	EPA 200.7/R3QA159
Manganese	13.2		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Nickel	3.6		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Potassium	3340		2000	1	09/30/15	10/01/15 11:47	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Silver	U		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Sodium	27400		1000	1	09/30/15	10/01/15 11:47	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116
Zinc	2.4		2.0	2.5	09/30/15	10/01/15 14:46	EPA 200.8/R3QA116



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701 Mapes Road

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Site Name: Westvaco Spill - NBP Monitor

Project #: NSF 701

Station ID: 92915JH

Lab ID: 1509032-05

Sample Matrix: Water

Date Collected: 09/29/2015

Total Metals

Targets

Analyte	Result	Flags	Quantitation				
	ug/L	Qualifiers	Limit	Dilution	Prepared	Analyzed	Method/SOP#
Aluminum	U		20.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Antimony	U		2.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Arsenic	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Barium	U		10.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Beryllium	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Cadmium	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Calcium	U		500	1	09/30/15	10/01/15 11:58	EPA 200.7/R3QA159
Chromium	U		2.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Cobalt	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Copper	U		2.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Iron	U		100	1	09/30/15	10/01/15 11:58	EPA 200.7/R3QA159
Lead	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Magnesium	U		500	1	09/30/15	10/01/15 11:58	EPA 200.7/R3QA159
Manganese	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Nickel	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Potassium	U		2000	1	09/30/15	10/01/15 11:58	EPA 200.7/R3QA159
Selenium	U		5.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Silver	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Sodium	U		1000	1	09/30/15	10/01/15 11:58	EPA 200.7/R3QA159
Thallium	U		1.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Vanadium	U		5.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116
Zinc	U		2.0	2.5	09/30/15	10/01/15 14:50	EPA 200.8/R3QA116



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Notes and Definitions

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.

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.

SOLID SAMPLE RESULTS - REPORTING PROTOCOL: Solid samples where % Solids (percent dry wt at 105 degrees C) has been performed, are analyzed wet and converted to a dry weight result for reporting purposes. This is routine for organics and most inorganic analyses. When metals and mercury analyses are requested, solid samples are routinely analyzed and reported on a dry weight basis. Solid samples for metals/mercury are prepared for analysis by an initial drying at 60 degree C and homogenization before digestion. Oil-type samples will be analyzed and reported on a wet weight basis for all analyses because of the nature of the sample. Any exceptions to the protocol will be noted with a qualifier