Norfolk Southern Corporation
1200 Peachtree Street, NE – Box 13
Atlanta, GA 30309

Larry G. Western
Engineer Environmental Permits and Plans
Phone (404) 582-4239

October 14, 2011
VA-WELR-LEG230

Received
OCT 18 2011
DEQ-SWRO

Mr. Mark S. Trent
Commonwealth of Virginia
Department of Environmental Quality
Southwest Regional Office
355 Deadmore Street
P.O. Box 1688
Abingdon, Virginia 24212

Re: Renewal of VPDES Permit No. VA0052639
Norfolk Southern Railway Company
Weller Yard, Buchanan County

Dear Mr. Trent:

Enclosed please find one (1) original copy of the completed Virginia Pollutant Discharge Elimination System (VPDES) permit renewal application for the Norfolk Southern Railway Company (NSRC) Weller Yard.

If you have any questions, you may contact me by mail at the letterhead address or by telephone at (404) 582-4239.

Sincerely,

Larry G. Western
Engineer Environmental Permits and Plans

cc: M.L. East, NSRC
M.A. Neal, MM&A

RECEIVED

OCT 18 2011

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

DEQ-SWRO

I. EPA I.D. NUMBER

S		T/A	C
F	VA0052639		D

LABEL ITEMS	
I. EPA I.D. NUMBER	PLEASE PLACE LABEL IN THIS SPACE
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms.**

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
	16	17	18		19	20	21
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
	22	23	24		25	26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	34	35	36		37	38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
	40	41	42		43	44	45

III. NAME OF FACILITY

C 1 SKIP: Norfolk Southern Railway Company - Weller Yard (15 – 16 – 29 – 30 – 69)

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
C 2 East, Michael, Engineer Environmental Operations (15 – 16 – 45)	(540) 524-4994 (46 – 48 – 49 – 51 – 52 – 55)

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3 110 Franklin Road, S.E., Box 13 (15 – 16 – 45)

B. CITY OR TOWN	C. STATE	D. ZIP CODE
C 4 Roanoke (15 – 16 – 40)	VA (41 – 42)	24042 (47 – 51)

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5 Route 460 Near Harmon Junction (15 – 16 – 45)

B. COUNTY NAME

Buchanan (46 – 70)

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
C 6 Grundy (15 – 16 – 40)	VA (41 – 42)	24614 (47 – 51)	(52 – 54)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST		B. SECOND	
C 7 4011	*(specify)* Railroad, Line Haul Operating	C 7	*(specify)*
C. THIRD		**D. FOURTH**	
C 7	*(specify)*	C 7	*(specify)*

VIII. OPERATOR INFORMATION

A. NAME	B. Is the name listed in Item VIII-A also the owner?
C 8 Norfolk Southern Railway Company	☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*		D. PHONE *(area code & no.)*
F = FEDERAL S = STATE P = PRIVATE M = PUBLIC *(other than federal or state)* O = OTHER *(specify)*	P *(specify)*	C A (404) 582-4239

E. STREET OR P.O. BOX
1200 Peachtree Street, N.E., Box 13

F. CITY OR TOWN	G. STATE	H. ZIP CODE	IX. INDIAN LAND
C B Atlanta	GA	30309	Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

	A. NPDES *(Discharges to Surface Water)*	D. PSD *(Air Emissions from Proposed Sources)*	
	C T I 9 N VA0052639	C T I 9 P	
	B. UIC *(Underground Injection of Fluids)*	**E. OTHER** *(specify)*	
	C T I 9 U	C T I 9	*(specify)*
	C. RCRA *(Hazardous Wastes)*	**E. OTHER** *(specify)*	
	C T I 9 R	C T I 9	*(specify)*

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

The Facility conducts direct-to-locomotive fueling, railcar classification activities, and locomotive and railcar servicing and maintenance operations.

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
R.P. Russell, System Director Environmental Protection	R.P. Russell	10/10/11

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
VA0052639

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM **2C** NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER

EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS

Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE 1. DEG.	2. MIN.	3. SEC.	C. LONGITUDE 1. DEG.	2. MIN.	3. SEC.	D. RECEIVING WATER (*name*)
001	37	19	41	-82	10	31	Levisa Fork

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUT-FALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW: a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	3. TREATMENT: a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Fueling Pad Runoff	0.0012 mgd	Grit Removal	1-M	
	Storm Water Runoff	0.0036 mgd	Flow Equalization	1-U	
			Oil/Water Separation	XX	
			Discharge to Surface Water	4-A	

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ YES (*complete the following table*) ☑ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (*specify average*)	b. MONTHS PER YEAR (*specify average*)	a. FLOW RATE (*in mgd*)		B. TOTAL VOLUME (*specify with units*)		C. DURATION (*in days*)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
NA	NA	NA	NA	NA	NA	NA	NA	NA

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES (*complete Item III-B*) ☑ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	
NA	NA	NA	NA

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
NA	NA	NA	NA	NA	NA

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
VA0052639

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
NA	NA	NA	NA

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

NA

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VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ YES (*identify the test(s) and describe their purposes below*) ☐ NO (*go to Section VIII*)

Acute Whole Effluent Toxicity (WET) testing is conducted on discharges from Outfall 001 on an annual basis. During the last three years there have been no exceedances of the permitted toxicity limitation of 1.0 TUa.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
TestAmerica Savannah	5102 LaRoche Avenue Savannah, GA 31404	(912) 354-7858	BOD COD TSS Oil & Grease pH

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
R.P. Russell, System Director Environmental Protection	(404) 582-4456
C. SIGNATURE R.P. Russell	D. DATE SIGNED 10/10/11

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
VA0052639

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM **2F** NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
001	37	19	41	-82	10	31	Levisa Fork

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
NA	NA	NA	NA		

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

 Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
001	~2,500 sq. ft.	~15,000 sq. ft.			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Petroleum products are stored in aboveground storage tanks (ASTs) and drums. ASTs are equipped with secondary containment and rain shields. Drums and additional materials are stored under roof to minimize exposure to storm water. The facility-specific Storm Water Pollution Prevention Plan (SWPPP) is used to assist personnel in understanding the importance of storm water management and pollution reduction.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
001	Structural: Wastewater treatment system utilizing grit removal and oil/water separation. Non-structural: SWPPP; personnel training; good housekeeping; routine inspections.	1-M, 1-U, 4-A

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
R.P. Russell, System Director Environmental Protection	R.P. Russell	10/10/11

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

After several days of dry weather, Outfall 001 was visually inspected by experienced personnel. No wastewater or process water was observed being discharged from the outfall.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

None

 Continue on Page 3

Continued from Page 2

EPA ID Number *(copy from Item 1 of Form 1)*
VA0052639

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (*list all such pollutants below*) ☑ No (*go to Section IX*)

NA

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ Yes (*list all such pollutants below*) ☐ No (*go to Section IX*)

Acute Whole Effluent Toxicity (WET) testing is conducted on discharges from Outfall 001 on an annual basis. During the last three years there have been no exceedances of the permitted toxicity limitation of 1.0 TUa.

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ No (*go to Section X*)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
TestAmerica Savannah	5102 LaRoche Avenue Savannah, GA 31404	(912) 354-7858	BOD COD TSS Oil & Grease pH Total Nitrogen Total Phosphorus

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (*Type Or Print*)	B. Area Code and Phone No.
R.P. Russell, System Director Environmental Protection	(404) 582-4456
C. Signature R.P. Russell	D. Date Signed 10/10/11

EPA ID Number (*copy from Item 1 of Form 1*)
VA0052639

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Outfall 001 Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease	6.5 mg/L	N/A	< 5.0 mg/L	NA	12	Storm Water Runoff
Biological Oxygen Demand (BOD5)	15 mg/L	NA	NA	NA	1	Storm Water Runoff
Chemical Oxygen Demand (COD)	130 mg/L	NA	NA	NA	1	Storm Water Runoff
Total Suspended Solids (TSS)	20.0 mg/L	NA	11.2 mg/L	NA	12	Storm Water Runoff
Total Nitrogen	1.7 mg/L	NA	NA	NA	1	Storm Water Runoff
Total Phosphorus	< 0.1	NA	NA	NA	1	Storm Water Runoff
pH	Minimum	Maximum	Minimum NA	Maximum NA	12	Storm Water Runoff

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil & Grease	6.5 mg/L	NA	< 5.0 mg/L	NA	12	Storm Water Runoff
TSS	20.0 mg/L	NA	11.2 mg/L	NA	12	Storm Water Runoff
pH	7.58 s.u.	NA	7.17 s.u.	NA	12	Storm Water Runoff

 Continue on Reverse

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Outfall 001 Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil & Grease	6.5 mg/L	NA	< 5.0 mg/L	NA	12	Storm Water Runoff

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
NA	NA	NA	NA	NA	NA

7. Provide a description of the method of flow measurement or estimate.

Samples were collected from discharges at the oil/water separator, which flows continuously and is not affected by storm water discharges.

Norfolk Southern Railway Company
Weller Yard, Buchanan County, Virginia
VPDES Permit Number: VA0052639

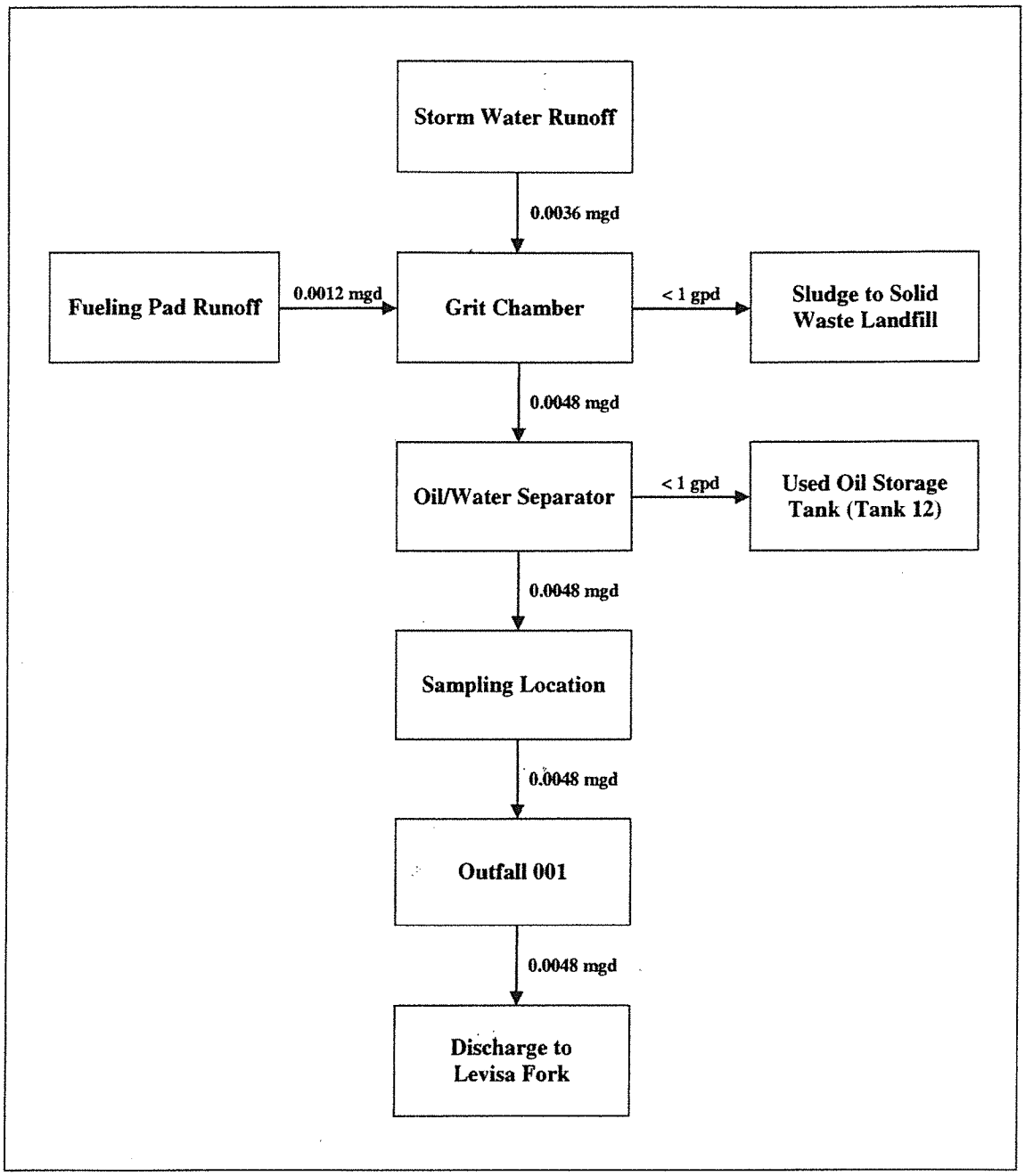

Figure 3 – Process Flow Diagram

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-71278-1
Client Project/Site: Norfolk Southern Weller NPDES

For:
Marshall Miller & Associates
534 Industrial Park Road
Bluefield, Virginia 24605

Attn: Mark Neal

Kathryn Smith

Authorized for release by:
09/09/2011 11:05:07 AM

Kathryn Smith
Project Manager I
kathye.smith@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Sample Summary

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-71278-1	Outfall 001	Water	08/10/11 12:05	08/11/11 09:10

Method Summary

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Method	Method Description	Protocol	Laboratory
1668A	PCBs, HRGC/HRMS (1668A)	EPA-22	TAL WSC
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.4	Phosphorus, Total	EPA	TAL SAV
SM 5210B	BOD, 5-Day	SM	TAL SAV
SM 5220D	COD	SM	TAL SAV
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

EPA-22 = "Method 1668, Revision A: Chlorinated Biphenyl Congeners In Water, Soil, Sediment, And Tissue By HRGC/HRMS" EPA-821-R-00-002 12/99

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Qualifiers

DIOXIN

Qualifier	Qualifier Description
C	Co-eluting isomer.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit (Dioxin)
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or method detection limit if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): VA0052639

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 001

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	15						1	mg/L				
b. Chemical Oxygen Demand (*COD*)	130						1	mg/L				
c. Total Organic Carbon (*TOC*)	Waiver requested - pollutant not expected to be present.											
d. Total Suspended Solids (*TSS*)	20.0		NA		11.2		12	mg/L				
e. Ammonia (*as N*)	Waiver requested - pollutant not expected to be present.											
f. Flow	VALUE 0.0072		VALUE NA		VALUE 0.0048		12	mgd		VALUE		
g. Temperature (*winter*)	VALUE Ambient		VALUE NA		VALUE Ambient		12	°C		VALUE		
h. Temperature (*summer*)	VALUE Ambient		VALUE NA		VALUE Ambient		12	°C		VALUE		
i. pH	MINIMUM 6.70	MAXIMUM 7.58	MINIMUM NA	MAXIMUM NA			12	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)		X												

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)		X												
h. Oil and Grease	X		6.5		NA		< 5.0		12	mg/L				
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as* SO_4) (14808-79-8)		X												
l. Sulfide (*as S*)		X												
m. Sulfite (*as* SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
VA0052639	001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls; and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)			X												
7M. Lead, Total (7439-92-1)			X												
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)			X												
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (*Chloro-methyl*) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodi-bromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichloro-bromomethane (75-27-4)			X												
13V. Dichloro-difluoromethane (75-71-8)			X												
14V. 1,1-Dichloro-ethane (75-34-3)			X												
15V. 1,2-Dichloro-ethane (107-06-2)			X												
16V. 1,1-Dichloro-ethylene (75-35-4)			X												
17V. 1,2-Dichloro-propane (78-87-5)			X												
18V. 1,3-Dichloro-propylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloro-ethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloro-ethane (71-55-6)			X												
28V. 1,1,2-Trichloro-ethane (79-00-5)			X												
29V Trichloro-ethylene (79-01-6)			X												
30V. Trichloro-fluoromethane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichloro-phenol (120-83-2)			X												
3A. 2,4-Dimethyl-phenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichloro-phenol (88-05-2)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (*a*) Anthracene (56-55-3)			X												
6B. Benzo (*a*) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)			X												
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)			X												
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)			X												
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)			X												
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (*a,h*) Anthracene (53-70-3)			X												
20B. 1,2-Dichloro-benzene (95-50-1)			X												
21B. 1,3-Di-chloro-benzene (541-73-1)			X												

CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)			X												
23B. 3,3-Dichloro-benzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131 -11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitro-toluene (121-14-2)			X												
28B. 2,6-Dinitro-toluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachloro-benzene (118-74-1)			X												
34B. Hexachloro-butadiene (87-68-3)			X												
35B. Hexachloro-cyclopentadiene (77-47-4)			X												
36B Hexachloro-ethane (67-72-1)			X												
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitro-sodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Tri-chlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Enosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
VA0052639	001

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

Client Sample Results

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Client Sample ID: Outfall 001

Date Collected: 08/10/11 12:05
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71278-1

Matrix: Water

Method: 1668A - PCBs, HRGC/HRMS (1668A)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 1 (BZ)	ND		200	3.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 2 (BZ)	ND		200	4.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 3 (BZ)	ND		200	5.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 4 (BZ)	ND		200	19			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 5 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 6 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 7 (BZ)	ND		200	12			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 8 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 9 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 10 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 11 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 12 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 13 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 14 (BZ)	ND		200	11			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 15 (BZ)	ND		200	12			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 16 (BZ)	ND		200	4.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 17 (BZ)	ND		200	3.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 18 (BZ)	ND		200	3.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 19 (BZ)	ND		200	9.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 20 (BZ)	ND		200	5.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 21 (BZ)	ND		200	5.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 22 (BZ)	ND		200	6.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 23 (BZ)	ND		200	5.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 24 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 25 (BZ)	ND		200	5.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 26 (BZ)	ND		200	5.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 27 (BZ)	ND		200	2.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 28 (BZ)	ND		200	5.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 29 (BZ)	ND		200	5.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 30 (BZ)	ND		200	3.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 31 (BZ)	ND		200	5.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 32 (BZ)	ND		200	2.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 33 (BZ)	ND		200	5.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 34 (BZ)	ND		200	5.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 35 (BZ)	ND		200	6.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 36 (BZ)	ND		200	5.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 37 (BZ)	ND		200	4.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 38 (BZ)	ND		200	6.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 39 (BZ)	ND		200	5.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 40 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 41 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 42 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 43 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 44 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 45 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 46 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 47 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 48 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 49 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99

Client Sample ID: Outfall 001

Date Collected: 08/10/11 12:05
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71278-1
Matrix: Water

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 50 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 51 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 52 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 53 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 54 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 55 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 56 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 57 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 58 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 59 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 60 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 61 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 62 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 63 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 64 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 65 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 66 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 67 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 68 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 69 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 70 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 71 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 72 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 73 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 74 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 75 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 76 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 77 (BZ)	ND		20	2.0	0.0001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 78 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 79 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 80 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 81 (BZ)	ND		20	1.9	0.0001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 82 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 83 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 84 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 85 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 86 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 87 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 88 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 89 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 90 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 91 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 92 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 93 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 94 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 95 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 96 (BZ)	ND		200	0.69			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 97 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 98 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 99 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99

Client Sample ID: Outfall 001

Date Collected: 08/10/11 12:05
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71278-1
Matrix: Water

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 100 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 101 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 102 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 103 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 104 (BZ)	ND		200	0.76			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 105 (BZ)	ND		20	1.3	0.0001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 106 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 107 (BZ)/109 (IUPAC)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 108 (BZ)/107 (IUPAC)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 109 (BZ)/108 (IUPAC)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 110 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 111 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 112 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 113 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 114 (BZ)	ND		20	1.4	0.0005		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 115 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 116 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 117 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 118 (BZ)	ND		20	1.3	0.0001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 119 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 120 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 121 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 122 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 123 (BZ)	ND		20	1.4	0.0001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 124 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 125 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 126 (BZ)	ND		20	1.3	0.1		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 127 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 128 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 129 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 130 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 131 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 132 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 133 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 134 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 135 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 136 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 137 (BZ)	ND		200	1.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 138 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 139 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 140 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 141 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 142 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 143 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 144 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 145 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 146 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99

Client Sample ID: Outfall 001

Date Collected: 08/10/11 12:05
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71278-1

Matrix: Water

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 147 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 148 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 149 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 150 (BZ)	ND		200	0.98			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 151 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 152 (BZ)	ND		200	1.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 153 (BZ)	ND		200	1.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 154 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 155 (BZ)	ND		200	0.96			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 156 (BZ)	ND		40	1.8	0.0005		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 157 (BZ)	ND		40	1.8	0.0005		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 158 (BZ)	ND		200	1.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 159 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 160 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 161 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 162 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 163 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 164 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 165 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 166 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 167 (BZ)	ND		20	1.2	0.00001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 168 (BZ)	ND		200	1.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 169 (BZ)	ND		20	1.3	0.01		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 170 (BZ)	ND		200	2.1	0.0001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 171 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 172 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 173 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 174 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 175 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 176 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 177 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 178 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 179 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 180 (BZ)	ND		200	1.6	0.00001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 181 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 182 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 183 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 184 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 185 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 186 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 187 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 188 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 189 (BZ)	ND		20	1.6	0.0001		pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 190 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 191 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 192 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 193 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 194 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 195 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 196 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99

Client Sample Results

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Client Sample ID: Outfall 001

Date Collected: 08/10/11 12:05
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71278-1
Matrix: Water

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Analyte	Result	Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 197 (BZ)	ND		200	0.71			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 198 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 199 (BZ)/200 (IUPAC)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 200 (BZ)/201 (IUPAC)	ND		200	0.93			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 201 (BZ)/199 (IUPAC)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 202 (BZ)	ND		200	1.0			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 203 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 204 (BZ)	ND		200	0.97			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 205 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 206 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 207 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 208 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
PCB 209 (BZ)	ND		200	0.96			pg/L		08/30/11 15:00	08/31/11 17:09	0.99
Total TEQ (EPA 1989)						0.00					

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C12-PCB 28	*68*		*30 - 135*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 178	*90*		*30 - 135*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 111	*93*		*30 - 135*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*

Internal Standard	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C12-PCB 1	*48*		*15 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 3	*40*		*15 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 4	*53*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 15	*81*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 19	*28*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 37	*69*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 54	*46*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 77	*85*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 81	*83*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 104	*53*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 105	*88*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 114	*85*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 118	*84*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 123	*86*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 126	*96*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 155	*65*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 156	*92*	*C*	*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 157	*92*	*C*	*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 167	*90*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 169	*93*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 188	*85*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 189	*102*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 202	*92*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 205	*82*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 206	*79*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 208	*99*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*
13C12-PCB 209	*73*		*25 - 150*	*08/30/11 15:00*	*08/31/11 17:09*	*0.99*

Client Sample Results

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Client Sample ID: Outfall 001

Date Collected: 08/10/11 12:05
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71278-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.7		0.20		mg/L		08/16/11 16:02	08/17/11 17:55	1
Nitrate Nitrite as N	0.050	U	0.050		mg/L			08/19/11 16:31	1
Phosphorus	0.10	U	0.10		mg/L		08/16/11 16:02	08/17/11 19:05	1
Chemical Oxygen Demand	130		20		mg/L			08/16/11 07:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	15		2.0		mg/L			08/11/11 16:02	1
Nitrogen, Total	1.7		0.25		mg/L			08/22/11 09:32	1

Surrogate Summary

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Method: 1668A - PCBs, HRGC/HRMS (1668A)

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)		
		28L	178L	111L
Lab Sample ID	Client Sample ID	(30-135)	(30-135)	(30-135)
680-71278-1	Outfall 001	68	90	93
G1H240000138B	Method Blank	59	70	63
G1H240000138C	Lab Control Sample	69	74	73

Surrogate Legend

28L = 13C12-PCB 28

178L = 13C12-PCB 178

111L = 13C12-PCB 111

QC Sample Results

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Method: 1668A - PCBs, HRGC/HRMS (1668A)

Lab Sample ID: G1H240000138B
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1236138_P

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 1 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 2 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 3 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 4 (BZ)	ND		200	20			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 5 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 6 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 7 (BZ)	ND		200	13			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 8 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 9 (BZ)	ND		200	15			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 10 (BZ)	ND		200	15			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 11 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 12 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 13 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 14 (BZ)	ND		200	12			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 15 (BZ)	ND		200	14			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 16 (BZ)	ND		200	2.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 17 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 18 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 19 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 20 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 21 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 22 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 23 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 24 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 25 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 26 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 27 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 28 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 29 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 30 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 31 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 32 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 33 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 34 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 35 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 36 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 37 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 38 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 39 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 40 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 41 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 42 (BZ)	ND		200	2.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 43 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 44 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 45 (BZ)	ND		200	2.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 46 (BZ)	ND		200	2.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 47 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 48 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 49 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Lab Sample ID: G1H240000138B
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1236138_P

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 50 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 51 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 52 (BZ)	ND		200	2.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 53 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 54 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 55 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 56 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 57 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 58 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 59 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 60 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 61 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 62 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 63 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 64 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 65 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 66 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 67 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 68 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 69 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 70 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 71 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 72 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 73 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 74 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 75 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 76 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 77 (BZ)	ND		20	2.5	0.0001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 78 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 79 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 80 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 81 (BZ)	ND		20	2.4	0.0001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 82 (BZ)	ND		200	3.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 83 (BZ)	ND		200	3.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 84 (BZ)	ND		200	3.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 85 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 86 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 87 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 88 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 89 (BZ)	ND		200	3.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 90 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 91 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 92 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 93 (BZ)	ND		200	2.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 94 (BZ)	ND		200	3.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 95 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 96 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 97 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 98 (BZ)	ND		200	2.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 99 (BZ)	ND		200	2.8			pg/L		08/30/11 15:00	08/31/11 19:21	1

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Lab Sample ID: G1H240000138B
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1236138_P

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 100 (BZ)	ND		200	2.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 101 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 102 (BZ)	ND		200	2.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 103 (BZ)	ND		200	2.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 104 (BZ)	ND		200	1.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 105 (BZ)	ND		20	2.3	0.0001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 106 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 107 (BZ)/109 (IUPAC)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 108 (BZ)/107 (IUPAC)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 109 (BZ)/108 (IUPAC)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 110 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 111 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 112 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 113 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 114 (BZ)	ND		20	2.3	0.0005		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 115 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 116 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 117 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 118 (BZ)	ND		20	2.2	0.0001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 119 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 120 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 121 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 122 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 123 (BZ)	ND		20	2.3	0.0001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 124 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 125 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 126 (BZ)	ND		20	2.5	0.1		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 127 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 128 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 129 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 130 (BZ)	ND		200	2.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 131 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 132 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 133 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 134 (BZ)	ND		200	2.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 135 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 136 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 137 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 138 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 139 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 140 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 141 (BZ)	ND		200	2.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 142 (BZ)	ND		200	2.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 143 (BZ)	ND		200	2.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 144 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 145 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 146 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Lab Sample ID: G1H240000138B
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1236138_P

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 147 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 148 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 149 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 150 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 151 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 152 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 153 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 154 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 155 (BZ)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 156 (BZ)	ND		40	2.6	0.0005		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 157 (BZ)	ND		40	2.6	0.0005		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 158 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 159 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 160 (BZ)	ND		200	2.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 161 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 162 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 163 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 164 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 165 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 166 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 167 (BZ)	ND		20	1.8	0.00001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 168 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 169 (BZ)	ND		20	2.0	0.01		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 170 (BZ)	ND		200	2.4	0.0001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 171 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 172 (BZ)	ND		200	2.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 173 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 174 (BZ)	ND		200	2.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 175 (BZ)	ND		200	2.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 176 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 177 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 178 (BZ)	ND		200	2.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 179 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 180 (BZ)	ND		200	1.9	0.00001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 181 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 182 (BZ)	ND		200	2.0			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 183 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 184 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 185 (BZ)	ND		200	2.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 186 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 187 (BZ)	ND		200	2.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 188 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 189 (BZ)	ND		20	2.1	0.0001		pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 190 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 191 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 192 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 193 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 194 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 195 (BZ)	ND		200	1.9			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 196 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Lab Sample ID: G1H240000138B
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1236138_P

Analyte	MB Result	MB Qualifier	ML	EDL	TEF	TEQ	Unit	D	Prepared	Analyzed	Dil Fac
PCB 197 (BZ)	ND		200	0.93			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 198 (BZ)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 199 (BZ)/200 (IUPAC)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 200 (BZ)/201 (IUPAC)	ND		200	1.2			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 201 (BZ)/199 (IUPAC)	ND		200	1.8			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 202 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 203 (BZ)	ND		200	1.7			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 204 (BZ)	ND		200	1.3			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 205 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 206 (BZ)	ND		200	1.5			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 207 (BZ)	ND		200	1.4			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 208 (BZ)	ND		200	1.6			pg/L		08/30/11 15:00	08/31/11 19:21	1
PCB 209 (BZ)	ND		200	1.1			pg/L		08/30/11 15:00	08/31/11 19:21	1
Total TEQ						0.00					

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C12-PCB 28	*59*		*30 - 135*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 178	*70*		*30 - 135*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 111	*63*		*30 - 135*	*08/30/11 15:00*	*08/31/11 19:21*	*1*

Internal Standard	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C12-PCB 1	*24*		*15 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 3	*33*		*15 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 4	*38*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 15	*47*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 19	*49*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 37	*53*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 54	*53*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 77	*52*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 81	*51*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 104	*62*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 105	*60*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 114	*59*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 118	*60*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 123	*60*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 126	*61*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 155	*69*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 156	*64*	*C*	*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 157	*64*	*C*	*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 167	*62*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 169	*66*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 188	*78*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 189	*82*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 202	*80*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 205	*80*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*
13C12-PCB 206	*79*		*25 - 150*	*08/30/11 15:00*	*08/31/11 19:21*	*1*

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Lab Sample ID: G1H240000138B
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 1236138_P

Internal Standard	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C12-PCB 208	81		25 - 150	08/30/11 15:00	08/31/11 19:21	1
13C12-PCB 209	76		25 - 150	08/30/11 15:00	08/31/11 19:21	1

Lab Sample ID: G1H240000138C
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1236138_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB 1 (BZ)	2000	2170		pg/L		109	50 - 150
PCB 3 (BZ)	2000	2150		pg/L		108	50 - 150
PCB 4 (BZ)	2000	2250		pg/L		112	50 - 150
PCB 15 (BZ)	2000	2140		pg/L		107	50 - 150
PCB 19 (BZ)	2000	2140		pg/L		107	50 - 150
PCB 37 (BZ)	2000	2070		pg/L		103	50 - 150
PCB 54 (BZ)	2000	2110		pg/L		105	50 - 150
PCB 77 (BZ)	2000	2000		pg/L		100	50 - 150
PCB 81 (BZ)	2000	2080		pg/L		104	50 - 150
PCB 104 (BZ)	2000	2200		pg/L		110	50 - 150
PCB 105 (BZ)	2000	2050		pg/L		102	50 - 150
PCB 114 (BZ)	2000	2100		pg/L		105	50 - 150
PCB 118 (BZ)	2000	2080		pg/L		104	50 - 150
PCB 123 (BZ)	2000	2100		pg/L		105	50 - 150
PCB 126 (BZ)	2000	2080		pg/L		104	50 - 150
PCB 155 (BZ)	2000	2250		pg/L		112	50 - 150
PCB 156 (BZ)	4000	3980	C	pg/L		100	50 - 150
PCB 157 (BZ)	4000	3980	C	pg/L		100	50 - 150
PCB 167 (BZ)	2000	2000		pg/L		100	50 - 150
PCB 169 (BZ)	2000	2080		pg/L		104	50 - 150
PCB 188 (BZ)	2000	2160		pg/L		108	50 - 150
PCB 189 (BZ)	2000	2010		pg/L		100	50 - 150
PCB 202 (BZ)	2000	2120		pg/L		106	50 - 150
PCB 205 (BZ)	2000	2000		pg/L		100	50 - 150
PCB 206 (BZ)	2000	2030		pg/L		102	50 - 150
PCB 208 (BZ)	2000	2050		pg/L		103	50 - 150
PCB 209 (BZ)	2000	2110		pg/L		105	50 - 150

Surrogate	LCS % Recovery	LCS Qualifier	Limits
13C12-PCB 28	69		30 - 135
13C12-PCB 178	74		30 - 135
13C12-PCB 111	73		30 - 135

Internal Standard	LCS % Recovery	LCS Qualifier	Limits
13C12-PCB 1	63		15 - 150
13C12-PCB 3	64		15 - 150
13C12-PCB 4	70		25 - 150
13C12-PCB 15	62		25 - 150
13C12-PCB 19	71		25 - 150
13C12-PCB 37	62		25 - 150

Method: 1668A - PCBs, HRGC/HRMS (1668A) (Continued)

Lab Sample ID: G1H240000138C
Matrix: Water
Analysis Batch: 1236138

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 1236138_P

Internal Standard	*LCS % Recovery*	*LCS Qualifier*	*Limits*
13C12-PCB 54	*66*		*25 - 150*
13C12-PCB 77	*63*		*25 - 150*
13C12-PCB 81	*61*		*25 - 150*
13C12-PCB 104	*70*		*25 - 150*
13C12-PCB 105	*70*		*25 - 150*
13C12-PCB 114	*67*		*25 - 150*
13C12-PCB 118	*70*		*25 - 150*
13C12-PCB 123	*70*		*25 - 150*
13C12-PCB 126	*73*		*25 - 150*
13C12-PCB 155	*71*		*25 - 150*
13C12-PCB 156	*72*		*25 - 150*
13C12-PCB 157	*72*		*25 - 150*
13C12-PCB 167	*69*		*25 - 150*
13C12-PCB 169	*73*		*25 - 150*
13C12-PCB 188	*76*		*25 - 150*
13C12-PCB 189	*82*		*25 - 150*
13C12-PCB 202	*78*		*25 - 150*
13C12-PCB 205	*78*		*25 - 150*
13C12-PCB 206	*76*		*25 - 150*
13C12-PCB 208	*82*		*25 - 150*
13C12-PCB 209	*72*		*25 - 150*

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-212092/1-A
Matrix: Water
Analysis Batch: 212186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.20	U	0.20		mg/L		08/16/11 16:02	08/17/11 15:06	1

Lab Sample ID: LCS 680-212092/2-A
Matrix: Water
Analysis Batch: 212186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	1.00	1.07		mg/L		107	75 - 125

Lab Sample ID: 680-71278-1 MS
Matrix: Water
Analysis Batch: 212186

Client Sample ID: Outfall 001
Prep Type: Total/NA
Prep Batch: 212092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrogen, Kjeldahl	1.7		1.00	2.64		mg/L		98	75 - 125

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 680-71278-1 MSD
Matrix: Water
Analysis Batch: 212186

Client Sample ID: Outfall 001
Prep Type: Total/NA
Prep Batch: 212092

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.7		1.00	2.41	F	mg/L		74	75 - 125	9	40

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-212465/14
Matrix: Water
Analysis Batch: 212465

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.050	U	0.050		mg/L			08/19/11 16:07	1

Lab Sample ID: LCS 680-212465/15
Matrix: Water
Analysis Batch: 212465

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Nitrate Nitrite as N	1.00	1.00		mg/L		100	90 - 110

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 680-212099/1-A
Matrix: Water
Analysis Batch: 212188

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.10	U	0.10		mg/L		08/16/11 16:02	08/17/11 18:55	1

Lab Sample ID: LCS 680-212099/2-A
Matrix: Water
Analysis Batch: 212188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Phosphorus	1.00	0.892		mg/L		89	60 - 140

Lab Sample ID: 680-71278-1 MS
Matrix: Water
Analysis Batch: 212188

Client Sample ID: Outfall 001
Prep Type: Total/NA
Prep Batch: 212099

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Phosphorus	0.10	U	1.00	1.07		mg/L		99	60 - 140

Lab Sample ID: 680-71278-1 MSD
Matrix: Water
Analysis Batch: 212188

Client Sample ID: Outfall 001
Prep Type: Total/NA
Prep Batch: 212099

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Phosphorus	0.10	U	1.00	1.10		mg/L		102	60 - 140	3	40

QC Sample Results

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 680-211568/1 USB
Matrix: Water
Analysis Batch: 211568

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

Analyte	USB Result	USB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0		mg/L			08/11/11 16:02	1

Lab Sample ID: LCS 680-211568/2
Matrix: Water
Analysis Batch: 211568

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Biochemical Oxygen Demand	198	199		mg/L		101	85 - 115

Lab Sample ID: LCSD 680-211568/3
Matrix: Water
Analysis Batch: 211568

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Biochemical Oxygen Demand	198	199		mg/L		101	85 - 115	0	30

Method: SM 5220D - COD

Lab Sample ID: MB 680-211942/3
Matrix: Water
Analysis Batch: 211942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	20	U	20		mg/L			08/16/11 07:30	1

Lab Sample ID: LCS 680-211942/4
Matrix: Water
Analysis Batch: 211942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chemical Oxygen Demand	100	101		mg/L		101	90 - 110

Lab Chronicle

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Client Sample ID: Outfall 001
Date Collected: 08/10/11 12:05
Date Received: 08/11/11 09:10

Lab Sample ID: 680-71278-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total	Prep	LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal			1236138_P	08/30/11 15:00	CC	TAL WSC
Total	Analysis	1668A		0.99	1236138	08/31/11 17:09	GSV	TAL WSC
Total/NA	Analysis	SM 5210B		1	211568	08/11/11 16:02	JKL	TAL SAV
Total/NA	Analysis	SM 5220D		1	211942	08/16/11 07:30	DAM	TAL SAV
Total/NA	Prep	351.2			212092	08/16/11 16:02	JR	TAL SAV
Total/NA	Analysis	351.2		1	212186	08/17/11 17:55	JR	TAL SAV
Total/NA	Prep	365.2/365.3/365			212099	08/16/11 16:02	JR	TAL SAV
Total/NA	Analysis	365.4		1	212188	08/17/11 19:05	JR	TAL SAV
Total/NA	Analysis	353.2		1	212465	08/19/11 16:31	JR	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	212476	08/22/11 09:32	JR	TAL SAV

Laboratory References:
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Serial Number 043219

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)	PAGE	OF
Weller YARD	NS1670-08	VA	1	1

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
MARK NEAL	(276)322-5467	(276)322-1510

CLIENT NAME	CLIENT E-MAIL
Norfolk Southern	mark.neal@mmal.com

CLIENT ADDRESS: 110 Franklin Rd. SE, Roanoke, VA

COMPANY CONTRACTING THIS WORK (if applicable): Marshall Miller + Assoc. 53 Industrial Park Rd. Bluefield, VA 24605

STANDARD REPORT DELIVERY ⊗ DATE DUE ____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	BOD - 5210B (None)	Low Level PCB (None)	COD, Total Phos, Total Nitrogen (Sulfuric)	REMARKS
8/10/11	1205	Outfall 001	G	X				1	2	1	Custody seal ~~[illegible]~~ JW 2485678

RELINQUISHED BY: (SIGNATURE) [signature] DATE 8/10/11 TIME 1700

RECEIVED BY: (SIGNATURE) DATE TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
Beth A Daughty	08/10/11	0910	YES ○ NO ○		680-71278	Temp 1.2°C

TAL 8240-680 (1008)

Certification Summary

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Savannah	A2LA	DoD ELAP		0399-01
TestAmerica Savannah	A2LA	ISO/IEC 17025		399.01
TestAmerica Savannah	Alabama	State Program	4	41450
TestAmerica Savannah	Arkansas	Arkansas DOH	6	N/A
TestAmerica Savannah	Arkansas	State Program	6	88-0692
TestAmerica Savannah	California	NELAC	9	3217CA
TestAmerica Savannah	Colorado	State Program	8	N/A
TestAmerica Savannah	Connecticut	State Program	1	PH-0161
TestAmerica Savannah	Delaware	State Program	3	N/A
TestAmerica Savannah	Florida	NELAC	4	E87052
TestAmerica Savannah	Georgia	Georgia EPD	4	N/A
TestAmerica Savannah	Georgia	State Program	4	803
TestAmerica Savannah	Guam	State Program	9	09-005r
TestAmerica Savannah	Hawaii	State Program	9	N/A
TestAmerica Savannah	Illinois	NELAC	5	200022
TestAmerica Savannah	Indiana	State Program	5	N/A
TestAmerica Savannah	Iowa	State Program	7	353
TestAmerica Savannah	Kentucky	Kentucky UST	4	18
TestAmerica Savannah	Kentucky	State Program	4	90084
TestAmerica Savannah	Louisiana	NELAC	6	LA100015
TestAmerica Savannah	Louisiana	NELAC	6	30690
TestAmerica Savannah	Maine	State Program	1	GA00006
TestAmerica Savannah	Maryland	State Program	3	250
TestAmerica Savannah	Massachusetts	State Program	1	M-GA006
TestAmerica Savannah	Michigan	State Program	5	9925
TestAmerica Savannah	Mississippi	State Program	4	N/A
TestAmerica Savannah	Montana	State Program	8	CERT0081
TestAmerica Savannah	Nebraska	State Program	7	TestAmerica-Savannah
TestAmerica Savannah	New Jersey	NELAC	2	GA769
TestAmerica Savannah	New Mexico	State Program	6	N/A
TestAmerica Savannah	New York	NELAC	2	10842
TestAmerica Savannah	North Carolina	North Carolina DENR	4	269
TestAmerica Savannah	North Carolina	North Carolina PHL	4	13701
TestAmerica Savannah	Pennsylvania	NELAC	3	68-00474
TestAmerica Savannah	Puerto Rico	State Program	2	GA00006
TestAmerica Savannah	Rhode Island	State Program	1	LAO00244
TestAmerica Savannah	South Carolina	State Program	4	98001
TestAmerica Savannah	Tennessee	State Program	4	TN02961
TestAmerica Savannah	Texas	NELAC	6	T104704185-08-TX
TestAmerica Savannah	USDA	USDA		SAV 3-04
TestAmerica Savannah	Vermont	State Program	1	87052
TestAmerica Savannah	Virginia	NELAC Secondary AB	3	460161
TestAmerica Savannah	Virginia	State Program	3	302
TestAmerica Savannah	Washington	State Program	10	C1794
TestAmerica Savannah	West Virginia	West Virginia DEP	3	94
TestAmerica Savannah	West Virginia	West Virginia DHHR (DW)	3	9950C
TestAmerica Savannah	Wyoming	State Program	8	8TMS-Q
TestAmerica West Sacramento		USEPA UCMR		CA00044
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska	Alaska UST	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A

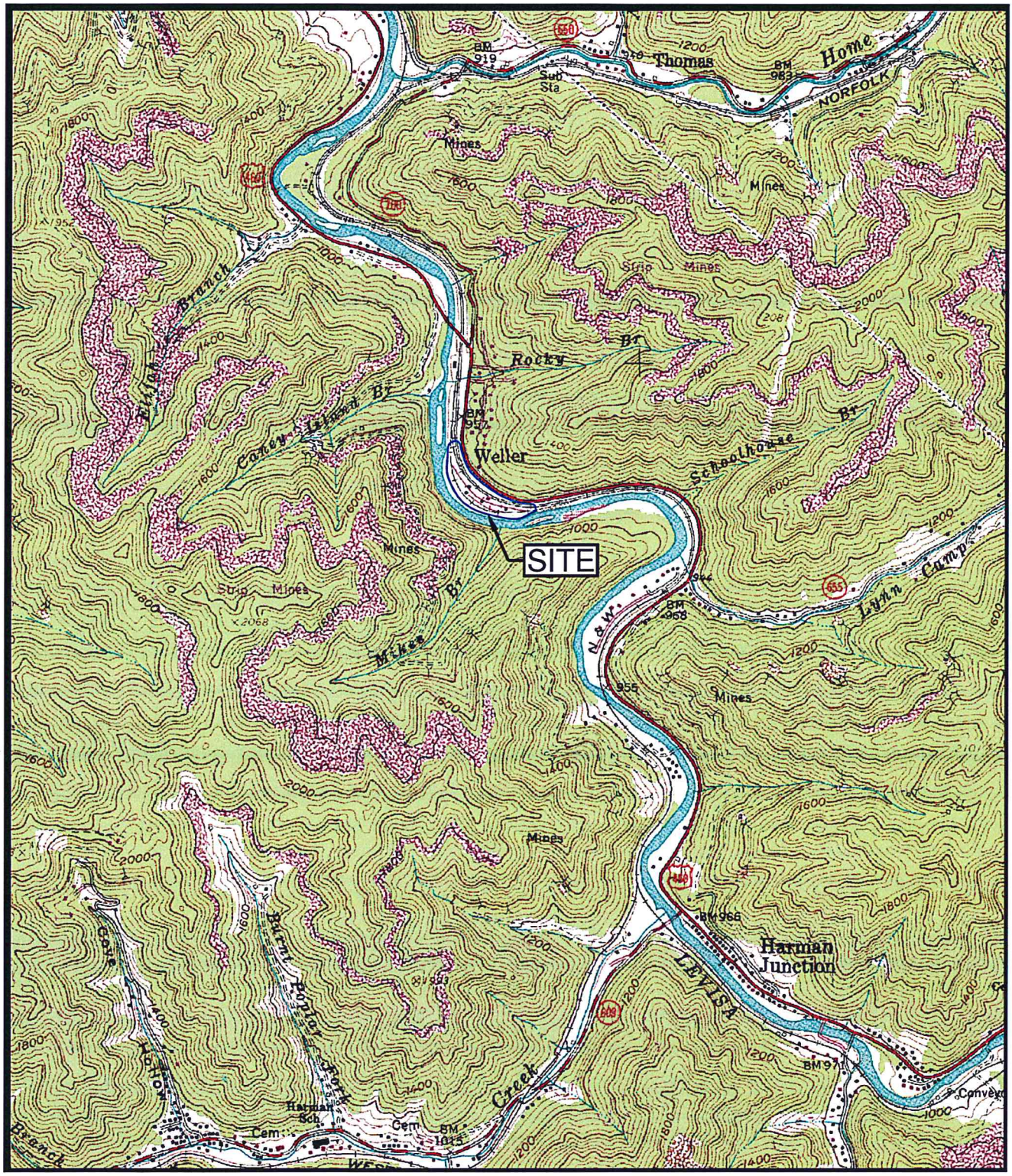
Certification Summary

Client: Marshall Miller & Associates
Project/Site: Norfolk Southern Weller NPDES

TestAmerica Job ID: 680-71278-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	US Fish & Wildlife		LE148388-0
TestAmerica West Sacramento	USDA	USDA		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	West Virginia DEP	3	334
TestAmerica West Sacramento	West Virginia	West Virginia DHHR (DW)	3	9930C
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



NORFOLK SOUTHERN RAILWAY COMPANY - WELLER YARD

CENTRAL PORTION OF USGS 7.5' HARMAN, VA. QUADRANGLE

Prepared by:

MARSHALL MILLER & ASSOCIATES

Prepared for:

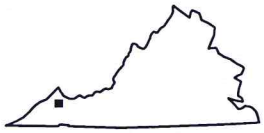
NS

2,000' 0 2,000'

SCALE 1:24,000

TOPOGRAPHIC SITE VICINITY MAP

FIGURE 1

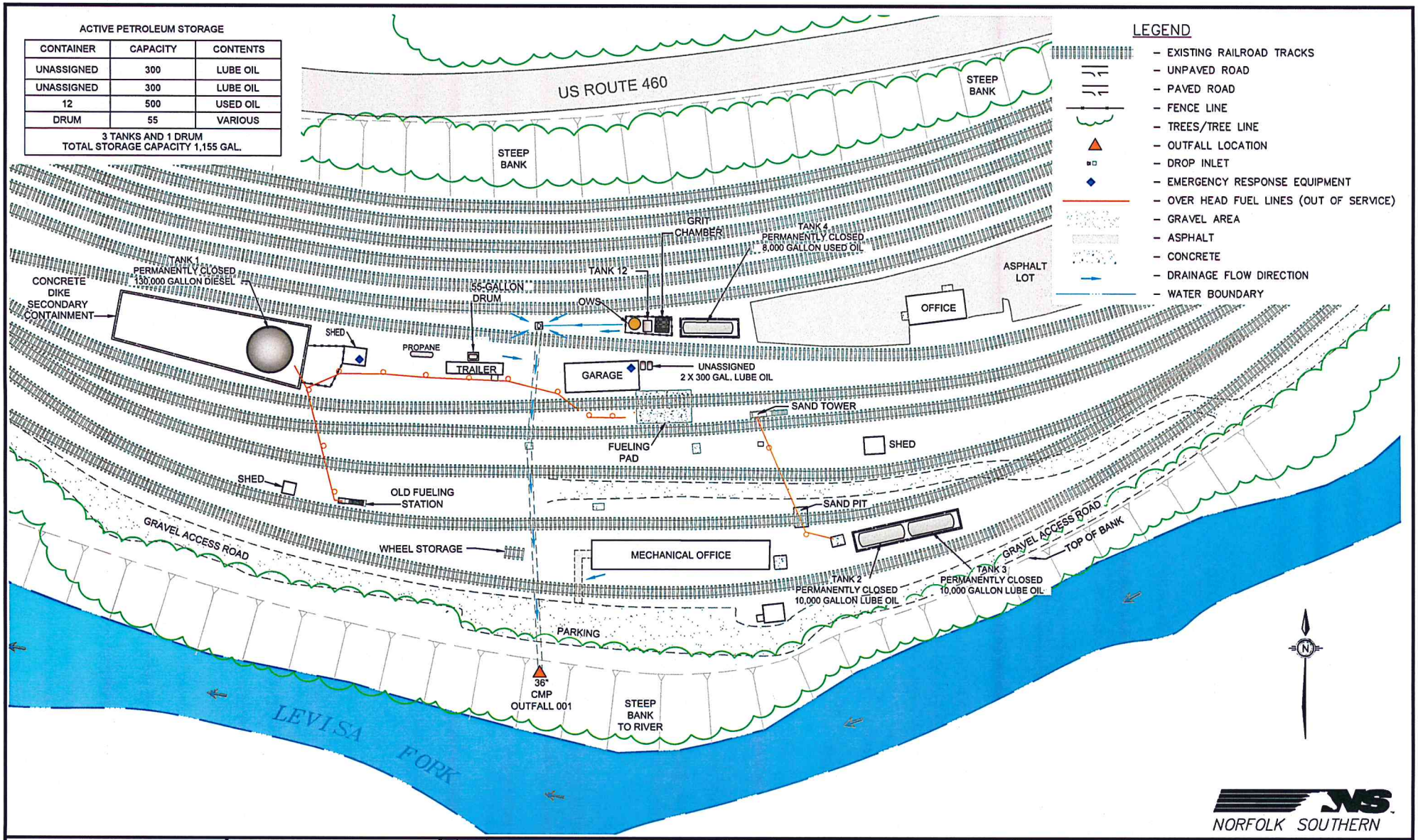


VIRGINIA

QUADRANGLE LOCATION

ACTIVE PETROLEUM STORAGE

CONTAINER	CAPACITY	CONTENTS
UNASSIGNED	300	LUBE OIL
UNASSIGNED	300	LUBE OIL
12	500	USED OIL
DRUM	55	VARIOUS
3 TANKS AND 1 DRUM TOTAL STORAGE CAPACITY 1,155 GAL.		



60' 0 60'
1" = 60'

MARSHALL MILLER & ASSOCIATES
Prepared by Marshall Miller & Associates Headquarters: Bluefield, Virginia

NO.	DATE	REVISION	NO.	DATE	REVISION

DESIGNED	MN
DRAWN	DJD
CHECKED	MN
DATE	09/20/11
FILE NO.	WELLER_SITE

NORFOLK SOUTHERN RAILWAY COMPANY
WELLER RAIL YARD
GRUNDY, VIRGINIA

FACILITY LAYOUT AND DRAINAGE MAP

PROJECT NO. NS1710/1

FIGURE 2