

**Shelia Mcfalls**

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**From:** Shelia Mcfalls  
**Sent:** Monday, February 25, 2019 1:41 PM  
**To:** Ken Feely (feely.ken@epa.gov)  
**Cc:** 'crosby-vega.terri@epa.gov'; Keehna Frasier (frasielkb@dhec.sc.gov); 'David Bender'; DEMASS, JAMES G; ADAMS, KAREN; HAMMETT, AVERY G; Chris Bergren; Mike Griffith; Thomas Kmetz; Thomas Gaughan; J Ross; Manuel Terronez; Amy Meyer; Thelesia Oliver; Joao Cardoso-Neto; John02 Bradley; Branden Kramer; Michele Wilson; Ted Millings; Bryce Garner  
**Subject:** Submittal of the Annual Polychlorinated Biphenyl (PCB) Report for the Western Sector Treatment System (WSTS) Project at the M-Area Settling Basin January 1, 2018 through December 31, 2018 (SRNS-RP-2019-00102, February 2019)  
**Attachments:** SRNS-RP-2019-00102.pdf

SRNS-J2000-2019-00150

Ken,

The subject annual report contains the data requested by the U. S. Environmental Protection Agency (USEPA) in the November 16, 2012 USEPA Approval for Operation of the WSTS and Management of PCBs at the WSTS. The report is submitted electronically as stated in the November 16, 2012 USEPA's approval letter.

Please contact me if you have any questions, comments, or concerns.

Thanks

**Shelia L. McFalls** | Savannah River Nuclear Solutions, LLC | Environmental Compliance & Area Completion Projects | [shelia.mcfalls@srs.gov](mailto:shelia.mcfalls@srs.gov) | 1.803.952.6819 office | 1.803.725.7243, #19367 pager | 1.803.952.6403 fax | Savannah River Site | Building 730-4B, 3134 | Aiken, SC 29808



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**Annual Polychlorinated Biphenyl (PCB) Report for the  
Western Sector Treatment System (WSTS) Project at the M-Area Settling Basin  
January 1, 2018 through December 31, 2018**

### Summary

The WSTS conducted soil vapor extraction operations during 2018. As required by the United States Environmental Protection Agency's (EPA) 2012 Toxic Substances Control Act (TSCA) approval for the operation of the WSTS and management of PCBs at WSTS, this document contains the 2018 PCB sampling data [i.e., Mycelx inlet (HV-706) and outlet (HV-766) water sample data] for the WSTS facility. Samples were collected on February 20, 2018, June 5, 2018, September 5, 2018, and December 10, 2018.

AROCLOR 1254 was detected at the Mycelx inlet (HV-706) on February 20, 2018, June 5, 2018, September 5, 2018, and December 10, 2018 with concentrations of 54 µg/L, 2.1 µg/L, 11 µg/L, and 2.3 µg/L, respectively. All other congeners were non-detect. Table 1 provides the results of the Mycelx inlet (HV-706) sampling.

AROCLOR 1254 was detected at the Mycelx outlet (HV-766) on February 20, 2018, June 5, 2018, September 5, 2018, and December 10, 2018 with concentrations of 1.8 µg/L, 2.9 µg/L, 4.1 µg/L, and 1.1 µg/L, respectively. All other congeners were non-detect. Table 2 provides the results of the Mycelx outlet (HV-766) sampling.

AROCLOR 1254 was detected at V-374 on September 5, 2018 with a concentration of 0.66 µg/L (J-qualified). J-qualified means that the concentration is an estimate. V-374 is located just downstream of the WSTS, after the final filtration step of treatment, before entering the M-1 Air Stripper.

The concentration of total PCBs entering the M-1 Air Stripper were within the waste acceptance criteria for the air stripper. The waste acceptance criteria include a limit of <3 µg/L of PCBs at the inlet to the M-1 Air Stripper, which is the TSCA point of compliance for the PCB limit in the EPA approval; thus, no TSCA limits were exceeded.

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There were no indications of Dense Non-Aqueous Phase Liquid that separate into the liquid waste stream and thereby show up in the filter system. The PCB Mycelx filter system will continue to be monitored and maintained to verify that there are no issues pertaining to operational parameters.

**Table 1. Inlet Valve (HV-706) Concentrations**

Location	DATE	Constituent	Qualifier	Result	Units
HV-706	2/20/2018	AROCLOR 1016	U	0.96	µg/L
HV-706	2/20/2018	AROCLOR 1221	U	0.96	µg/L
HV-706	2/20/2018	AROCLOR 1232	U	0.96	µg/L
HV-706	2/20/2018	AROCLOR 1242	U	0.96	µg/L
HV-706	2/20/2018	AROCLOR 1248	U	0.96	µg/L
HV-706	2/20/2018	AROCLOR 1254		54	µg/L
HV-706	2/20/2018	AROCLOR 1260	U	0.96	µg/L
HV-706	6/5/2018	AROCLOR 1016	U	1	µg/L
HV-706	6/5/2018	AROCLOR 1221	U	1	µg/L
HV-706	6/5/2018	AROCLOR 1232	U	1	µg/L
HV-706	6/5/2018	AROCLOR 1242	U	1	µg/L
HV-706	6/5/2018	AROCLOR 1248	U	1	µg/L
HV-706	6/5/2018	AROCLOR 1254		2.1	µg/L
HV-706	6/5/2018	AROCLOR 1260	U	1	µg/L
HV-706	9/5/2018	AROCLOR 1016	U	1	µg/L
HV-706	9/5/2018	AROCLOR 1221	U	1	µg/L
HV-706	9/5/2018	AROCLOR 1232	U	1	µg/L
HV-706	9/5/2018	AROCLOR 1242	U	1	µg/L
HV-706	9/5/2018	AROCLOR 1248	U	1	µg/L
HV-706	9/5/2018	AROCLOR 1254		11	µg/L
HV-706	9/5/2018	AROCLOR 1260	U	1	µg/L
HV-706	12/10/2018	AROCLOR 1016	U	0.98	µg/L
HV-706	12/10/2018	AROCLOR 1221	U	0.98	µg/L
HV-706	12/10/2018	AROCLOR 1232	U	0.98	µg/L
HV-706	12/10/2018	AROCLOR 1242	U	0.98	µg/L
HV-706	12/10/2018	AROCLOR 1248	U	0.98	µg/L
HV-706	12/10/2018	AROCLOR 1254		2.3	µg/L
HV-706	12/10/2018	AROCLOR 1260	U	0.98	µg/L

U = non-detect

**Table 2. Outlet Valve (HV-766) Concentrations**

Location	Date	Constituent	Qualifier	Result	Units
HV-766	2/20/2018	AROCLOR 1016	U	0.97	µg/L
HV-766	2/20/2018	AROCLOR 1221	U	0.97	µg/L
HV-766	2/20/2018	AROCLOR 1232	U	0.97	µg/L
HV-766	2/20/2018	AROCLOR 1242	U	0.97	µg/L
HV-766	2/20/2018	AROCLOR 1248	U	0.97	µg/L
HV-766	2/20/2018	AROCLOR 1254		1.8	µg/L
HV-766	2/20/2018	AROCLOR 1260	U	0.97	µg/L
HV-766	6/5/2018	AROCLOR 1016	U	0.97	µg/L
HV-766	6/5/2018	AROCLOR 1221	U	0.97	µg/L
HV-766	6/5/2018	AROCLOR 1232	U	0.97	µg/L
HV-766	6/5/2018	AROCLOR 1242	U	0.97	µg/L
HV-766	6/5/2018	AROCLOR 1248	U	0.97	µg/L
HV-766	6/5/2018	AROCLOR 1254		2.9	µg/L
HV-766	6/5/2018	AROCLOR 1260	U	0.97	µg/L
HV-766	9/5/2018	AROCLOR 1016	U	1	µg/L
HV-766	9/5/2018	AROCLOR 1221	U	1	µg/L
HV-766	9/5/2018	AROCLOR 1232	U	1	µg/L
HV-766	9/5/2018	AROCLOR 1242	U	1	µg/L
HV-766	9/5/2018	AROCLOR 1248	U	1	µg/L
HV-766	9/5/2018	AROCLOR 1254		4.1	µg/L
HV-766	9/5/2018	AROCLOR 1260	U	1	µg/L
HV-766	12/10/2018	AROCLOR 1016	U	1	µg/L
HV-766	12/10/2018	AROCLOR 1221	U	1	µg/L
HV-766	12/10/2018	AROCLOR 1232	U	1	µg/L
HV-766	12/10/2018	AROCLOR 1242	U	1	µg/L
HV-766	12/10/2018	AROCLOR 1248	U	1	µg/L
HV-766	12/10/2018	AROCLOR 1254		1.1	µg/L
HV-766	12/10/2018	AROCLOR 1260	U	1	µg/L

U = non-detect