

## Shelia Mcfalls

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**From:** Shelia Mcfalls  
**Sent:** Thursday, February 01, 2018 4:57 PM  
**To:** Ken Feely (feely.ken@epa.gov)  
**Cc:** 'crosby-vega.terri@epa.gov'; Keehna Frasier (frasiemb@dhec.sc.gov); Kimberly Wilson (wilsonka@dhec.sc.gov); 'David Bender'; DEMASS, JAMES G; ADAMS, KAREN; HAMMETT, AVERY G; Chris Bergren; Mike Griffith; Thomas Kmetz; Thomas Gaughan; Catherine Lewis; Manuel Terronez; Amy Meyer; Jeffcj Ward; Benjamin Terry; Joao Cardoso-Neto; J Ross; John02 Bradley; Branden Kramer; Michele Wilson; Ted Millings  
**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, 2017 through December 31, 2017 (SRNS-RP-2018-00100, January 2018)  
**Attachments:** SRNS-RP-2018-00100.pdf

SRNS-J2000-2018-00097

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

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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, 2017 through December 31, 2017**

**Summary**

The WSTS conducted soil vapor extraction operations during 2017. 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 2017 PCB sampling data [i.e., Mycelx inlet (HV-706) and outlet (HV-766) water sample data] for the WSTS facility. Samples were collected on March 6, 2017, June 5, 2017, September 5, 2017, and December 4, 2017.

AROCLOR 1254 was detected at the Mycelx inlet (HV-706) on March 6, 2017, June 5, 2017, September 5, 2017, and December 4, 2017 with concentrations of 2 µg/L, 6.4 µg/L, 4.2 µg/L, and 4.4 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 March 6, 2017, June 5, 2017, September 5, 2017, and December 4, 2017 with concentrations of 1.2 µg/L, 1.4 µg/L, 0.49 µg/L (J-qualified), and 0.51 µg/L (J-qualified), respectively. All other congeners were non-detect. J-qualified means that the concentration is an estimate. Table 2 provides the results of the Mycelx outlet (HV-766) sampling.

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.

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	3/6/2017	AROCLOR 1016	U	0.96	µg/L
HV-706	3/6/2017	AROCLOR 1221	U	0.96	µg/L
HV-706	3/6/2017	AROCLOR 1232	U	0.96	µg/L
HV-706	3/6/2017	AROCLOR 1242	U	0.96	µg/L
HV-706	3/6/2017	AROCLOR 1248	U	0.96	µg/L
HV-706	3/6/2017	AROCLOR 1254		2	µg/L
HV-706	3/6/2017	AROCLOR 1260	U	0.96	µg/L
HV-706	6/5/2017	AROCLOR 1016	U	0.97	µg/L
HV-706	6/5/2017	AROCLOR 1221	U	0.97	µg/L
HV-706	6/5/2017	AROCLOR 1232	U	0.97	µg/L
HV-706	6/5/2017	AROCLOR 1242	U	0.97	µg/L
HV-706	6/5/2017	AROCLOR 1248	U	0.97	µg/L
HV-706	6/5/2017	AROCLOR 1254		6.4	µg/L
HV-706	6/5/2017	AROCLOR 1260	U	0.97	µg/L
HV-706	9/5/2017	AROCLOR 1016	U	1	µg/L
HV-706	9/5/2017	AROCLOR 1221	U	1	µg/L
HV-706	9/5/2017	AROCLOR 1232	U	1	µg/L
HV-706	9/5/2017	AROCLOR 1242	U	1	µg/L
HV-706	9/5/2017	AROCLOR 1248	U	1	µg/L
HV-706	9/5/2017	AROCLOR 1254		4.2	µg/L
HV-706	9/5/2017	AROCLOR 1260	U	0.98	µg/L
HV-706	12/4/2017	AROCLOR 1016	U	0.98	µg/L
HV-706	12/4/2017	AROCLOR 1221	U	0.98	µg/L
HV-706	12/4/2017	AROCLOR 1232	U	0.98	µg/L
HV-706	12/4/2017	AROCLOR 1242	U	0.98	µg/L
HV-706	12/4/2017	AROCLOR 1248	U	0.98	µg/L
HV-706	12/4/2017	AROCLOR 1254		4.4	µg/L
HV-706	12/4/2017	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	3/6/2017	AROCLOR 1016	U	0.99	µg/L
HV-766	3/6/2017	AROCLOR 1221	U	0.99	µg/L
HV-766	3/6/2017	AROCLOR 1232	U	0.99	µg/L
HV-766	3/6/2017	AROCLOR 1242	U	0.99	µg/L
HV-766	3/6/2017	AROCLOR 1248	U	0.99	µg/L
HV-766	3/6/2017	AROCLOR 1254		1.2	µg/L
HV-766	3/6/2017	AROCLOR 1260	U	0.99	µg/L
HV-766	6/6/2017	AROCLOR 1016	U	1	µg/L
HV-766	6/6/2017	AROCLOR 1221	U	1	µg/L
HV-766	6/6/2017	AROCLOR 1232	U	1	µg/L
HV-766	6/6/2017	AROCLOR 1242	U	1	µg/L
HV-766	6/6/2017	AROCLOR 1248	U	1	µg/L
HV-766	6/6/2017	AROCLOR 1254		1.4	µg/L
HV-766	6/6/2017	AROCLOR 1260	U	1	µg/L
HV-766	9/5/2017	AROCLOR 1016	U	0.99	µg/L
HV-766	9/5/2017	AROCLOR 1221	U	0.99	µg/L
HV-766	9/5/2017	AROCLOR 1232	U	0.99	µg/L
HV-766	9/5/2017	AROCLOR 1242	U	0.99	µg/L
HV-766	9/5/2017	AROCLOR 1248	U	0.99	µg/L
HV-766	9/5/2017	AROCLOR 1254	J	0.49	µg/L
HV-766	9/5/2017	AROCLOR 1260	U	0.99	µg/L
HV-766	12/4/2017	AROCLOR 1016	U	1	µg/L
HV-766	12/4/2017	AROCLOR 1221	U	1	µg/L
HV-766	12/4/2017	AROCLOR 1232	U	1	µg/L
HV-766	12/4/2017	AROCLOR 1242	U	1	µg/L
HV-766	12/4/2017	AROCLOR 1248	U	1	µg/L
HV-766	12/4/2017	AROCLOR 1254	J	0.51	µg/L
HV-766	12/4/2017	AROCLOR 1260	U	1	µg/L

U = non-detect  
 J = estimated value