

NOTE: Duplicates for field measurements (Dissolved Oxygen, pH, and temperature) are not performed.

NOTE: ♦ Not calculated due to less than value

NOTE: NF = No Flow (creek dry)

Data Table 8-4 SRS Stream and Savannah River Water Quality Duplicate Sample Results Sample Measurement Section

2014 SRS Stream and Savannah River Water Quality Duplicate Sample Results

		January 2014						February 2014					
Analyte	Units	Result BDC	Dup. Result BDC-2	% Difference	Result RM-118.8	Dup. Result RM-118.8-2	% Difference	Result FMC-2	Dup. Result FMC-2-2	% Difference	Result RM-129.1	Dup. Result RM-129.1-2	% Difference
Hardness (total)	mg/L	NF	NF	N/A	11	11	0.0	<10	<10	♦	17	15	12.5
Nitrate-Nitrogen	mg/L	NF	NF	N/A	0.093	0.095	2.1	0.530	0.540	1.9	0.280	0.280	0.0
Nitrite-Nitrogen	mg/L	NF	NF	N/A	<0.020	<0.020	♦	0.020	0.021	4.9	0.030	0.026	14.3
Phosphorus	mg/L	NF	NF	N/A	0.032	0.030	6.5	0.028	0.026	7.4	0.055	0.052	5.6
Total Organic Carbon	mg/L	NF	NF	N/A	4.1	4.1	0.0	7.2	6.9	4.3	5.5	5.0	9.5
Aluminum	mg/L	NF	NF	N/A	0.4041	0.2494	47.3	0.2268	0.1909	17.2	0.3738	0.3587	4.1
Beryllium	mg/L	NF	NF	N/A	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Cadmium	mg/L	NF	NF	N/A	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Chromium	mg/L	NF	NF	N/A	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Copper	mg/L	NF	NF	N/A	0.0011	<0.0010	♦	0.0023	0.0023	0.0	<0.0010	<0.0010	♦
Iron	mg/L	NF	NF	N/A	0.6219	0.5555	11.3	1.4283	1.3830	3.2	0.7058	0.6957	1.4
Mercury	µg/L	NF	NF	N/A	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦
Manganese	mg/L	NF	NF	N/A	0.0361	0.0296	19.8	0.0558	0.0543	2.7	0.0782	0.0811	3.6
Nickel	mg/L	NF	NF	N/A	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Lead	mg/L	NF	NF	N/A	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦
Thallium	mg/L	NF	NF	N/A	0.0105	<0.0100	♦	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦
Zinc	mg/L	NF	NF	N/A	<0.0010	<0.0010	♦	0.0217	0.0163	28.4	0.0016	<0.0010	♦
Total Suspended Solids	mg/L	NF	NF	N/A	5	5	0.0	7	8	13.3	8	8	0.0
Pesticides/Herbicides		1st Quarter											
Aldrin	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1016	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1221	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1232	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1242	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1248	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1254	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1260	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	µg/L	NF	NF	N/A	<0.029	<0.028	♦	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	µg/L	NF	NF	N/A	<0.29	<0.28	♦	N/A	N/A	N/A	N/A	N/A	N/A
2,4-D	µg/L	NF	NF	N/A	<2.0	<2.0	♦	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-TP (Silvex)	µg/L	NF	NF	N/A	<0.50	<0.50	♦	N/A	N/A	N/A	N/A	N/A	N/A

2014 SRS Stream and Savannah River Water Quality Duplicate Sample Results

		March 2014						April 2014					
								Estimated: Detected in method blank					
Analyte	Units	Result FM-2B	Dup. Result FM-2B-2	% Difference	Result RM-141.5	Dup. Result RM-141.5-2	% Difference	Result FM-6	Dup. Result FM-6-2	% Difference	Result RM-150.4	Dup. Result RM-150.4-2	% Difference
Hardness (total)	mg/L	<10	<10	♦	14	17	19.4	10	10	0.0	<10	13	♦
Nitrate-Nitrogen	mg/L	0.080	0.085	6.1	0.130	0.140	7.4	0.340	0.340	0.0	0.210	0.200	4.9
Nitrite-Nitrogen	mg/L	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦
Phosphorus	mg/L	0.018	0.018	0.0	0.098	0.093	5.2	0.140	0.140	0.0	0.069	0.075	8.3
Total Organic Carbon	mg/L	5.6	5.7	1.8	6.7	6.7	0.0	6.8	6.8	0.0	4.4	4.8	8.7
Aluminum	mg/L	0.1146	0.1023	11.3	0.5001	0.4817	3.7	0.1693	0.1294	26.7	0.4618	0.4526	2.0
Beryllium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Cadmium	mg/L	0.0006	0.0007	15.4	<0.0005	<0.0005	♦	0.0006	0.0006	0.0	0.0008	0.0007	13.3
Chromium	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Copper	mg/L	<0.0010	<0.0010	♦	0.0016	0.0014	13.3	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Iron	mg/L	0.8551	0.8413	1.6	1.0854	1.0560	2.7	1.4459	1.4618	1.1	0.7053	0.7157	1.5
Mercury	µg/L	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦
Manganese	mg/L	0.0250	0.0246	1.6	0.0747	0.0743	0.5	0.0878	0.0859	2.2	0.0887	0.0912	2.8
Nickel	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Lead	mg/L	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦
Thallium	mg/L	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦	0.0117	<0.0100	♦	<0.0100	<0.0100	♦
Zinc	mg/L	0.0144	0.0143	0.7	0.0028	0.0032	13.3	0.0105	0.0085	21.1	<0.0010	0.0015	♦
Total Suspended Solids	mg/L	1	1	0.0	13	13	0.0	5	5	0.0	12	11	8.7
Pesticides/Herbicides													
Aldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Aroclor 1016	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
Aroclor 1221	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
Aroclor 1232	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
Aroclor 1242	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
Aroclor 1248	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
Aroclor 1254	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
Aroclor 1260	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
alpha-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
beta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
delta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
gamma-BHC (Lindane)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Chlordane	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
4,4'-DDD	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
4,4'-DDE	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
4,4'-DDT	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Dieldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Endosulfan I	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Endosulfan II	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Endosulfan sulfate	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	0.030	<0.028	♦	<0.030	<0.026	♦
Endrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Endrin aldehyde	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Heptachlor	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Heptachlor epoxide	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.026	<0.028	♦	<0.030	<0.026	♦
Toxaphene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.26	<0.28	♦	<0.30	<0.26	♦
2,4-D	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<2.1	<2.2	♦	<2.2	<2.0	♦
2,4,5-TP (Silvex)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.53	<0.55	♦	<0.56	<0.51	♦

2014 SRS Stream and Savannah River Water Quality Duplicate Sample Results

May 2014													
June 2014													
Estimated: Hold time exceeded													
Analyte	Units	Result L3R-2	Dup. Result L3R-2-2	% Difference	Result RM-160	Dup. Result RM-160-2	% Difference	Result PB-3	Dup. Result PB-3-2	% Difference	Result RM-118.8	Dup. Result RM-118.8-2	% Difference
Hardness (total)	mg/L	44	44	0.0	18	17	5.7	20	28	33.3	20	16	22.2
Nitrate-Nitrogen	mg/L	0.250	0.230	8.3	0.350	0.350	0.0	0.200	0.200	0.0	0.34	0.32	6.1
Nitrite-Nitrogen	mg/L	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦
Phosphorus	mg/L	0.050	0.052	3.9	0.092	0.088	4.4	0.060	0.063	4.9	0.080	0.080	0.0
Total Organic Carbon	mg/L	3.7	3.7	0.0	4.4	4.4	0.0	5.7	5.8	1.7	4.1	4.0	2.5
Aluminum	mg/L	0.2214	0.1378	46.5	0.2623	0.2434	7.5	0.1694	0.1807	6.5	0.3601	0.3363	6.8
Beryllium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Cadmium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Chromium	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Copper	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	0.0034	♦
Iron	mg/L	0.7262	0.7171	1.3	0.5573	0.5375	3.6	1.2061	1.2041	0.2	0.6378	0.6375	0.0
Mercury	µg/L	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦
Manganese	mg/L	0.0990	0.0958	3.3	0.1484	0.1420	4.4	0.0543	0.0525	3.4	0.0852	0.0879	3.1
Nickel	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Lead	mg/L	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦
Thallium	mg/L	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦
Zinc	mg/L	0.1244	0.0052	184.0	0.0011	0.0026	81.1	0.0093	0.0098	5.2	0.0018	0.0071	119.1
Total Suspended Solids	mg/L	5	5	0.0	5	6	18.2	6	6	0.0	11	12	8.7
2nd Quarter													
Pesticides/Herbicides													
Aldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1016	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1221	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1232	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1242	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1248	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1254	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1260	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-D	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-TP (Silvex)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2014 SRS Stream and Savannah River Water Quality Duplicate Sample Results

		July 2014						August 2014					
		Estimated: Recovery is out of criteria											
Analyte	Units	Result SC-4	Dup. Result SC-4-2	% Difference	Result RM-129.1	Dup. Result RM-129.1-2	% Difference	Result TB-5	Dup. Result TB-5-2	% Difference	Result RM-141.5	Dup. Result RM-141.5-2	% Difference
Hardness (total)	mg/L	23	24	4.3	41	37	10.3	<10	<10	♦	15	15	0.0
Nitrate-Nitrogen	mg/L	0.098	0.076	25.3	0.20	0.16	22.2	0.110	0.110	0.0	0.250	0.260	3.9
Nitrite-Nitrogen	mg/L	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦
Phosphorus	mg/L	0.075	0.073	2.7	0.047	0.044	6.6	0.091	0.091	0.0	0.088	0.086	2.3
Total Organic Carbon	mg/L	5.8	5.7	1.7	5.8	5.8	0.0	6.0	6.4	6.5	5.1	4.7	8.2
Aluminum	mg/L	0.1766	0.1647	7.0	0.0817	0.0704	14.9	0.0325	<0.0200	♦	0.1323	0.1309	1.1
Beryllium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Cadmium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	0.0005	♦
Chromium	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Copper	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Iron	mg/L	0.7982	0.7837	1.8	0.6221	0.6162	1.0	3.9727	3.8766	2.4	0.6259	0.5908	5.8
Mercury	µg/L	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦
Manganese	mg/L	0.0899	0.0901	0.2	0.0526	0.0521	1.0	0.1735	0.1698	2.2	0.0798	0.0767	4.0
Nickel	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Lead	mg/L	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	0.0074	<0.0050	♦
Thallium	mg/L	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦
Zinc	mg/L	0.0121	0.0122	0.8	0.0040	0.0035	13.3	0.0055	0.0035	44.4	<0.0010	<0.0010	♦
Total Suspended Solids	mg/L	10	10	0.0	2	2	0.0	6	6	0.0	8	6	28.6
Pesticides/Herbicides		3rd Quarter											
Aldrin	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1016	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1221	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1232	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1242	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1248	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1254	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1260	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	µg/L	<0.026	<0.027	♦	<0.025	<0.025	♦	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	µg/L	<0.26	<0.27	♦	<0.25	<0.25	♦	N/A	N/A	N/A	N/A	N/A	N/A
2,4-D	µg/L	<2.1	<2.1	♦	<2.1	<2.1	♦	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-TP (Silvex)	µg/L	<0.53	<0.53	♦	<0.52	<0.52	♦	N/A	N/A	N/A	N/A	N/A	N/A

2014 SRS Stream and Savannah River Water Quality Duplicate Sample Results

		September 2014						October 2014					
Analyte	Units	Result TC-1	Dup. Result TC-1-2	% Difference	Result RM-150.4	Dup. Result RM-150.4-2	% Difference	Result U3R-1A	Dup. Result U3R-1A-2	% Difference	Result RM-160	Dup. Result RM-160-2	% Difference
Hardness (total)	mg/L	12	12	0.0	19	19	0.0	<10	<10	♦	21	13	47.1
Nitrate-Nitrogen	mg/L	0.098	0.120	20.2	0.250	0.230	8.3	<0.020	<0.020	♦	0.130	0.130	0.0
Nitrite-Nitrogen	mg/L	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦	<0.020	<0.020	♦
Phosphorus	mg/L	0.150	0.130	14.3	0.096	0.096	0.0	0.015	0.017	12.5	0.120	0.120	0.0
Total Organic Carbon	mg/L	4.6	4.7	2.2	4.7	4.1	13.6	1.3	1.4	7.4	3.5	3.5	0.0
Aluminum	mg/L	0.1133	0.1027	9.8	0.2063	0.2404	15.3	0.0539	0.0626	14.9	0.1005	0.0896	11.5
Beryllium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Cadmium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Chromium	mg/L	0.0021	0.0017	21.1	0.0016	0.0023	35.9	0.0013	0.0013	0.0	<0.0010	0.0011	♦
Copper	mg/L	0.0040	0.0032	22.2	0.0045	0.0058	25.2	<0.0010	<0.0010	♦	0.0018	0.0016	11.8
Iron	mg/L	0.5086	0.4827	5.2	0.3492	0.3726	6.5	0.2971	0.3661	20.8	0.2994	0.3045	1.7
Mercury	µg/L	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦
Manganese	mg/L	0.0221	0.0226	2.2	0.0625	0.0630	0.8	0.0082	0.0087	5.9	0.0762	0.0785	3.0
Nickel	mg/L	0.0111	0.0081	31.3	0.0094	0.0141	40.0	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Lead	mg/L	<0.0050	<0.0050	♦	0.0072	<0.0050	♦	0.0074	0.0076	2.7	0.0058	0.0074	24.2
Thallium	mg/L	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦	<0.0100	<0.0100	♦
Zinc	mg/L	0.0166	0.0112	38.8	0.0116	0.0157	30.0	0.0080	0.0115	35.9	0.0107	0.0104	2.8
Total Suspended Solids	mg/L	4	4	0.0	7	7	0.0	1	3	100.0	5	4	22.2
Pesticides/Herbicides													
Aldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Aroclor 1016	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
Aroclor 1221	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
Aroclor 1232	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
Aroclor 1242	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
Aroclor 1248	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
Aroclor 1254	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
Aroclor 1260	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
alpha-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
beta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
delta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
gamma-BHC (Lindane)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Chlordane	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
4,4'-DDD	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
4,4'-DDE	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
4,4'-DDT	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Dieldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Endosulfan I	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Endosulfan II	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Endosulfan sulfate	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Endrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Endrin aldehyde	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Heptachlor	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Heptachlor epoxide	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.025	<0.025	♦	<0.025	<0.026	♦
Toxaphene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.25	<0.25	♦	<0.25	<0.26	♦
2,4-D	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<2.1	<2.1	♦	<2.1	<2.1	♦
2,4,5-TP (Silvex)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	<0.52	<0.53	♦	<0.52	<0.53	♦

2014 SRS Stream and Savannah River Water Quality Duplicate Sample Results

		November 2014						December 2014					
Analyte	Units	Result U3R-4	Dup. Result U3R-4-2	% Difference	Result RM-118.8	Dup. Result RM-118.8-2	% Difference	Result U3R-1A	Dup. Result U3R-1A-2	% Difference	Result RM-129.1	Dup. Result RM-129.1-2	% Difference
Hardness (total)	mg/L	<10	<10	♦	19	18	5.4	<10	<10	♦	45	44	2.2
Nitrate-Nitrogen	mg/L	0.099	0.089	10.6	0.200	0.190	5.1	<0.020	<0.020	♦	0.026	0.110	123.5
Nitrite-Nitrogen	mg/L	<0.020	<0.020	♦	<0.020	0.027	♦	<0.020	<0.020	♦	<0.020	<0.020	♦
Phosphorus	mg/L	0.024	0.029	18.9	0.088	0.085	3.5	0.043	0.049	13.0	0.035	0.034	2.9
Total Organic Carbon	mg/L	2.4	2.3	4.3	4.2	4.2	0.0	2.5	4.6	59.2	5.7	5.6	1.8
Aluminum	mg/L	<0.0200	0.0443	♦	0.0799	0.0855	6.8	0.0369	0.0500	30.1	0.1588	0.0449	111.8
Beryllium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦
Cadmium	mg/L	<0.0005	<0.0005	♦	<0.0005	<0.0005	♦	<0.0005	0.0005	♦	0.0005	0.0006	18.2
Chromium	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Copper	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Iron	mg/L	0.3187	0.3266	2.4	0.2684	0.2932	8.8	0.3038	0.3128	2.9	0.5298	0.5957	11.7
Mercury	µg/L	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦	<0.02000	<0.02000	♦
Manganese	mg/L	0.0127	0.0123	3.2	0.0601	0.0620	3.1	0.0086	0.0087	1.2	0.1045	0.0419	85.5
Nickel	mg/L	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Lead	mg/L	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦	<0.0050	<0.0050	♦
Thallium	mg/L	<0.0100	0.0184	♦	0.0117	<0.0100	♦	<0.0100	0.0100	♦	<0.0100	<0.0100	♦
Zinc	mg/L	0.0027	0.0021	25.0	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦	<0.0010	<0.0010	♦
Total Suspended Solids	mg/L	3	2	40.0	6	5	18.2	8	6	28.6	1	<1	♦
Pesticides/Herbicides		4th Quarter											
Aldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1016	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1221	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1232	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1242	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1248	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1254	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aroclor 1260	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4-D	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2,4,5-TP (Silvex)	µg/L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A