

APPENDIX A

Ohio River Dams, Tributaries, and Flow Data

Appendix A: Ohio River Navigation Dams

Mile Point	Name	Normal Pool Elevation (ft.)*	Year Placed in Operation**
6.2	Emsworth	710.0	1921
13.2	Dashields	692.0	1929
31.7	Montgomery	682.0	1936
54.4	New Cumberland	664.5	1959
84.2	Pike Island	644.0	1963
126.4	Hannibal (h)	623.0	1972
161.7	Willow Island	602.0	1972
203.9	Bellville	582.0	1965
237.5	Racine (h)	560.0	1967
279.2	Robert C. Byrd	538.0	1937
341.0	Greenup (h)	515.0	1962
436.2	Captain Anthony Meldahl	485.0	1964
531.5	Markland (h)	455.0	1963
606.8	McAlpine (h)	420.0	1961
720.7	Cannelton	383.0	1972
776.1	Newburgh	358.0	1975
846.0	John T. Myers	342.0	1975
918.5	Smithland	324.0	1980
938.9	Lock & Dam 52	302.0	1928
962.6	Lock & Dam 53	290.0	1929

*Height of water surface above mean sea level (National Geodetic Vertical Data)

**Defined as when the pool was raised

(h) Hydropower facilities

Information provided by the U.S. Army Corps of Engineers

Enters Ohio River at Mile Point				Stream		Enters Ohio River at Mile Point				Stream		
Stream Name				State	Length (Miles)	Drainage Area (Sq. Miles)		Stream Mile		State	Length (Miles)	Drainage Area (Sq. Miles)
0.1	ALLEGHENY RIVER	PA	325	11,700	150.0	LEITHS RUN	OH					
0.1	MONONGAHELA RIVER	PA	128	7,400	150.2	SPRING RUN	WV					
2.1	CHARTIERS CREEK	PA		277	151.0	REAS RUN	OH					
9.5	MONTOUR RUN	PA			154.0	MIDDLE ISLAND CREEK	WV	70		560		
13.7	LITTLE SEWICKLEY CREEK	PA			156.9	DENAS RUN	OH					
15.5	BIG SEWICKLEY CREEK	PA			157.7	FRENCH RUN	WV					
25.4	BEAVER RIVER	PA	21	3,130	168.6	LITTLE MUSKINGUM RIVER	OH			315		
29.6	RACCOON CREEK	PA		200	170.2	DUCK CREEK	OH	52		228		
40.1	LITTLE BEAVER CREEK	PA	51	510	172.2	MUSKINGUM RIVER	OH	112		8,040		
47.3	LITTLE YELLOW CREEK	OH			174.3	WILLIAMS CREEK	WV					
47.6	CONGO RUN	WV			184.8	LITTLE KANAWHA RIVER	WV	160		2,320		
50.6	YELLOW CREEK	OH	34	240	188.7	DAVIS RUN	OH					
60.1	KINGS CREEK	WV			192.0	LITTLE HOCKING RIVER	OH	18		103		
61.7	ISLAND RUN	OH			192.5	SAWER RUN	OH					
65.3	WILLS CREEK	OH			194.0	LITTLE SAND CREEK	WV					
66.5	HARMAN CREEK	WV			199.3	HOCKING RIVER	OH	100		1,190		
71.6	CROSS CREEK	OH	27	128	200.4	INDIAN RUN	OH					
75.2	BUFFALO CREEK	WV		160	201.8	LEE CREEK	WV					
81.4	SHORT CREEK	OH	29	147	203.4	ROCK RUN	OH					
90.2	WHEELING CREEK	OH	30	108	210.2	SHADE RIVER	OH			221		
90.2	WHEELING CREEK	WV		300	217.0	LITTLE SANDY CREEK	WV					
94.9	MCMAHON CREEK	OH	28	91	218.6	GROUNDHOG CREEK	OH					
101.6	LITTLE GRAVE CREEK	WV			220.9	SANDY CREEK	WV			115		
102.4	BIG GRAVE CREEK	WV		75	223.4	CEDAR RUN	WV					
105.0	PIPE CREEK	OH			226.2	OLD TOWN CREEK	OH					
109.5	CAPTINA CREEK	OH	39	181	227.8	TANNERS RUN	OH					
113.7	FISH CREEK	WV		250	231.4	MILL CREEK	WV			230		
117.5	SUNFISH CREEK	OH	31	114	231.5	LITTLE MILL CREEK	WV					
119.8	OPOSSUM CREEK	OH			232.3	JOHNS RUN	OH					
122.2	PROCTOR CREEK	WV			234.9	TOMBLESON RUN	WV					
128.6	FISHING CREEK	WV		220	235.8	SPRING RUN	WV					
137.7	MILLER RUN	OH			236.7	VIVIAN RUN	WV					
141.3	MILL CREEK	OH			240.6	WEST CREEK	WV					
148.8	BENS RUN	WV			241.0	DUNHAM RUN	OH					
149.0	SHEETS RUN	OH			245.0	BROAD CREEK	WV					

Appendix A: Selected Tributaries to the Ohio River

Enters Ohio River at Mile Point				Stream		Enters Ohio River at Mile Point				Stream			
Stream Name				State	Length (Miles)	Drainage Area (Sq. Miles)	Stream Mile				State	Length (Miles)	Drainage Area (Sq. Miles)
253.7	LEADING CREEK	OH	30	151	336.2	LITTLE SANDY RIVER	KY			724			
255.0	STORES RUN	OH			337.4	COAL BRANCH	KY						
255.9	TEN MILE CREEK	WV			338.6	SMITH BRANCH	KY						
258.7	MILL CREEK	WV			338.9	GINAT RUN	OH						
260.6	KYGER CREEK	OH			340.8	FRANKLIN RUN	OH						
262.5	CAMPAIGN CREEK	OH			345.6	PINE CREEK	OH	48	185				
263.2	OLD TOWN CREEK	WV			349.2	LITTLE SCIOTO RIVER	OH	41	233				
264.2	GEORGES CREEK	OH			353.2	TYGARTS CREEK	KY		336				
265.5	KANAWHA RIVER	WV	97	12200	356.4	SCIOTO RIVER	OH	237	6,510				
267.3	TWO MILE CREEK	WV			361.5	TURKEY CREEK	OH						
276.0	CRAB CREEK	WV			363.2	NACE RUN	OH						
276.1	RACCOON CREEK	OH	109	684	368.4	KINNICONICK CREEK	KY		253				
277.4	BURRELS RUN	OH			373.4	UPPER TWIN CREEK	OH						
279.0	TEENS RUN	OH			373.6	LOWER TWIN CREEK	OH						
282.3	SIXTEENMILE CREEK	WV			378.4	SALT LICK CREEK	KY						
284.3	EIGHTEEN MILE CREEK	WV			388.0	OHIO BRUSH CREEK	OH	57	435				
287.4	LITTLE GUYANDOT RIVER	WV			389.4	SPRING RUN	OH						
296.7	TWO MILE CREEK	OH			391.0	LOWER SISTER CREEK	OH						
299.0	NINE MILE CREEK	WV			392.3	DONALDSON CREEK	OH						
303.9	PADDYS CREEK	OH			395.3	ISLAND CREEK	OH						
305.2	GUYANDOTTE RIVER	WV	66	1670	398.4	ISAACS CREEK	OH						
306.9	INDIAN GUYAN CREEK	OH			401.6	CROOKED CREEK	KY						
309.7	SYMAMES CREEK	OH	70	356	402.3	ELK RUN	OH						
310.7	BUFFALO CREEK	OH			403.0	CABIN CREEK	KY						
314.0	TWELVEPOLE CREEK	WV		440	405.6	LITTLE THREE MILE CREEK	OH						
317.1	BIG SANDY RIVER	WV	27	4280	406.9	SLEEPY HOLLOW CREEK	KY						
317.4	CATLETTS CREEK	KY			409.0	FISH GUT CREEK	OH						
319.4	KEYES CREEK	KY			412.1	THREE MILE CREEK	OH						
320.1	SALLIDAY CREEK	OH			414.8	LAWRENCE CREEK	KY						
324.0	HOOD CREEK	KY			415.2	EAGLE CREEK	OH	31	154				
324.3	ICE CREEK	OH			417.1	RED OAK CREEK	OH						
328.1	STORMS CREEK	OH			419.1	LEES CREEK	KY						
331.1	POND RUN	KY			422.6	STRAIGHT CREEK	OH						
332.8	UHLANDS RUND	KY			423.6	WHITE OAK CREEK	OH	49	234				

Enters Ohio River at Mile Point			Enters Ohio River at Mile Point		
Stream Name	State	Stream Length (Miles)	Drainage Area (Sq. Miles)	Stream Mile	State
425.1 HOG RUN	OH			521.4 PAINT LICK CREEK	KY
426.4 BRACKEN CREEK	KY			522.7 LITTLE SUGAR CREEK	KY
428.6 BIG TURTLE CREEK	KY			522.9 BIG SUGAR CREEK	KY
430.5 WRANGLING RUN	KY			527.2 BRYANT CREEK	IN
431.6 BULL SKIN CREEK	OH			529.1 TURTLE CREEK	IN
431.7 BYERS RUN	KY			530.3 DAN CREEK	IN
432.5 LITTLE LOCUST CREEK	KY			530.3 CRAIGS CREEK	KY
432.8 BIG LOCUST CREEK	KY			532.0 STEPHENS CREEK	KY
433.2 PATTERSONS RUN	OH			535.7 PLUM CREEK	IN
433.6 CROOKED CREEK	OH			545.8 KENTUCKY RIVER	KY
434.4 LITTLE SNAG CREEK	KY			546.4 GREEN VALLEY CREEK	IN
435.7 BIG SNAG CREEK	KY			546.6 LITTLE KENTUCKY RIVER	KY
443.8 LITTLE INDIAN CREEK	OH			549.6 LOCUST CREEK	KY
445.3 BIG INDIAN CREEK	OH			550.5 INDIAN KENTUCK CREEK	IN
451.5 TWELVEMILE CREEK	KY			553.2 BEE CAMP CREEK	IN
455.1 TEN MILE CREEK	OH			555.5 EAGLE HALLOW	IN
455.3 NINE MILE CREEK	OH			556.4 MARILYN CREEK	IN
456.5 EIGHT MILE CREEK	OH			559.5 CROOKED CREEK	IN
463.3 LITTLE MIAMI RIVER	OH	90	1670	560.3 BIG CLIFTY CREEK	IN
470.1 LICKING RIVER	KY	320	3670	563.6 CHAIN MILL CREEK	IN
472.5 MILL CREEK	OH	28	166	569.5 SALUDA CREEK	IN
484.2 MUDDY CREEK	OH			570.6 CORN CREEK	KY
491.1 GREAT MIAMI RIVER	OH	161	5400	573.2 BAREBONE CREEK	KY
494.8 TANNERS CREEK	IN		136	574.4 MIDDLE CREEK	KY
498.7 LAUGHERY CREEK	IN	39	350	574.4 KNOB CREEK	IN
499.8 WOOLPER CREEK	KY			578.4 CAMP CREEK	IN
501.5 ISLAND BRANCH	IN			580.7 EIGHTEEN MILE CREEK	KY
504.6 MIDDLE CREEK	KY			584.4 BULL CREEK	IN
508.7 ARNOLD CREEK	IN			585.6 OWEN CREEK	IN
509.9 GRANT CREEK	IN			592.8 POND CREEK	KY
512.2 LICK CREEK	KY			595.9 HARRODS CREEK	KY
513.6 GUNPOWDER CREEK	KY			596.9 GOOSE CREEK	KY
514.7 LANDING CREEK	KY			602.2 SOUTH FORK BEARGRASS CREEK	KY
517.0 BIG BONE CREEK	KY			606.5 SILVER CREEK	IN
					225

Enters Ohio River at Mile Point				Stream Mile		Enters Ohio River at Mile Point		Stream Mile		State		Stream Length (Miles)		Drainage Area (Sq. Miles)	
Stream Name				State		Stream Length (Miles)		Drainage Area (Sq. Miles)		State		Stream Length (Miles)		Drainage Area (Sq. Miles)	
616.3	MILL CREEK CUTOFF	IN				706.3	SAMPLE RUN	IN							
617.5	KNOB CREEK	IN				707.4	ADAMS RUN	IN							
623.5	BRINLEY CREEK	IN				707.5	TOWN CREEK	KY							
624.4	EVERSOLE CREEK	IN				707.7	BULL CREEK	KY							
625.0	MILLS CREEK	KY				709.0	GOEHAGAN CREEK	KY							
629.2	FOURMILE CREEK	IN				710.6	SUCK CREEK	KY							
629.7	SALT RIVER	KY	125		2,890	710.8	CLOVER CREEK	KY							
633.3	ABRAHAM'S RUN	KY				712.4	FAUCETT CREEK	KY							
634.6	MOSQUITO CREEK	IN				714.6	POND RUN	IN							
636.3	OTTER CREEK	KY				716.3	SANDY BRANCH	IN							
641.2	BIG RUN	IN				717.4	MILLSTONE CREEK	IN							
642.2	DOE RUN	KY				718.9	DEER CREEK	IN							
645.9	FLIPPINS RUN	KY				720.2	BLUE WELLS HOLLOW	IN							
647.3	BUCK CREEK	IN				721.4	INDIAN CREEK	KY							
648.1	LICK RUN	IN				724.0	CASSELBURY CREEK	IN							
651.5	FRENCH CREEK	KY				724.1	LEAD CREEK	KY							
656.9	New Amsterdam City Trib	IN				729.8	WINDY CREEK	IN							
657.0	BIG INDIAN CREEK	IN			253	731.3	ANDERSON RIVER	IN						234	
659.9	COLD FRIDAY HOLLOW	KY				731.7	MUDDY GUT CREEK	KY							
661.3	POTATO RUN	IN				733.1	CROOKED CREEK	IN							
662.8	BLUE RIVER	IN			435	736.6	YELLOW CREEK	KY							
672.3	CEDAR BRANCH	KY				740.8	BIG SLOUGH	KY							
678.6	LITTLE BLUE RIVER	IN				741.3	LITTLE SANDY CREEK	IN							
684.8	BOONE HOLLOW	KY				742.0	BLACKFORD CREEK	KY						124	
686.3	WATSON RUN	KY				742.0	SANDY CREEK	IN							
686.5	SPRING CREEK	KY				744.2	HONEY CREEK	IN							
688.3	MILL CREEK	IN				746.8	HUFFMAN DITCH	IN							
692.5	KNOB CREEK	IN				750.5	PUP CREEK	KY							
698.6	LUCK RUN	KY				752.0	YELLOW CREEK	KY							
700.8	SINKING CREEK	KY			154	757.7	PERSIMMONS DITCH	KY							
703.1	BEAR CREEK	IN				763.6	COWHIDE SLOUGH TRIB	KY							
703.9	FANNY CREEK	IN				765.2	COWHIDE SLOUGH								
704.3	BUCK CREEK	IN				769.4	FULKERSON DITCH	KY							
705.3	KINGLEY CREEK	IN				772.8	LITTLE PIGEON CREEK	IN						415	

Enters Ohio River at Mile Point				Enters Ohio River at Mile Point			
Stream Name	State	Stream Length (Miles)	Drainage Area (Sq. Miles)	Stream Mile	State	Stream Length (Miles)	Drainage Area (Sq. Miles)
784.0 GREEN RIVER	KY	370	9,230	897.8 BIG GRAND PIERRE CREEK	IL		
787.2 WALKER SLOUGH				901.9 GIVENS CREEK	KY		
792.9 PIGEON CREEK			375	902.3 LUSK CREEK	IL		
796.8 BAYOU CREEK	IN			903.5 MC GILLIGAN CREEK	KY		
800.7 MOUND SLOUGH				910.1 BIG BAY CREEK	IL		
806.6 CANOE CREEK	KY			910.8 BARREN CREEK	IL		
813.2 LOGSDEN-STROOD BRANCH	IN			911.9 BAYOU CREEK	KY		
815.0 BAYOU CREEK	IN			913.7 PHELPS CREEK	KY		
827.7 CYPRESS SLOUGH				919.8 DYER HILL CREEK	KY		
827.8 MCFADDEN CREEK	IN			920.3 CUMBERLAND RIVER	KY	693	17920
832.4 SMITH CREEK	IN			923.2 DAVIS CREEK	KY		
833.6 BEAVERDAMIN CREEK	IN			926.0 GOODLOW SLOUGH	KY		
840.7 BAYOU DRAIN	IN			927.6 DRAKE BRANCH			
841.9 HIGHLAND CREEK	KY			932.5 TENNESSEE RIVER	KY	652	40910
843.0 LOST CREEK	KY			933.3 ISLAND CREEK	KY		
846.9 SIBLEY CREEK	KY			935.8 BALLARD LAKE	IL		
847.8 WABASH RIVER	IL	474	33100	939.4 PERKINS CREEK	KY		
850.7 RUNNING SLOUGH	IL			940.4 SEVENMILE CREEK	IL		
867.2 SALINE RIVER	IL	27	1170	941.9 MASSAC CREEK	IL		
868.2 CANE CREEK	IL			942.7 MASSAC CREEK	KY		
868.7 DENNIS O'NAN DITCH	KY			947.5 BAYOU CREEK	KY		
873.4 TRADEWATER RIVER	KY	110	1000	947.5 ROCKY BRANCH	IL		
875.9 CAMP CREEK	KY			951.0 BAYOU CREEK			
877.0 CORNSTALK CREEK	KY			953.0 NEWTONS CREEK	IL		
877.6 HANEY CREEK	IL			953.3 BEAN BRANCH	KY		
877.7 ANTHONY CREEK	IL			956.2 REDSTONE CREEK	KY		
886.1 HURRICANE CREEK	KY			957.7 POST CREEK CUTOFF	IL		
886.4 PETERS CREEK	IL			962.9 GAR CREEK	KY		
887.3 FRANKLIN BRANCH				967.6 HUMPHREY'S CREEK	KY		
887.6 HOSICK CREEK	IL			968.9 HODGES BAYOU	IL		
889.5 BIG CREEK	IL			971.9 HESS BAYOU	IL		
892.9 DEER CREEK	KY			973.3 CACHE ISLAND	KY		
893.5 BUCK CREEK	KY			974.7 CACHE RIVER	IL		720
895.8 THREEMILE CREEK	IL			977.7 CROOKED CREEK			

Ohio River Flows

Month and Year	Ohio River Mile 84.2 Pike Island L&D					Ohio River Mile 531.5 Markland L&D					Ohio River Mile 918.5 Smithland L&D				
	Maximum Flow, cfs	Minimum, Flow, cfs	Average Flow, cfs	% long-term Average		Maximum Flow, cfs	Minimum, Flow, cfs	Average Flow, cfs	% long-term Average		Maximum Flow, cfs	Minimum, Flow, cfs	Average Flow, cfs	% long-term Average	
January-2010	12,153	59,114	195,378	101%		42,659	149,366	407,410	101%		72,089	195,657	456,050	79%	
February-2010	16,003	37,183	84,722	67%		59,656	122,267	254,498	80%		113,024	248,983	498,392	95%	
March-2010	25,010	79,501	183,701	114%		82,355	209,014	426,795	113%		129,627	276,898	469,711	91%	
April-2010	12,659	26,202	52,256	43%		40,908	78,082	182,885	50%		74,410	164,063	341,803	62%	
May-2010	15,417	44,090	67,369	94%		65,228	149,751	345,223	112%		149,298	303,336	576,807	125%	
June-2010	11,412	28,604	70,967	100%		36,772	93,746	174,647	113%		110,425	167,191	244,925	106%	
July-2010	3,169	12,283	24,963	58%		28,218	47,919	102,375	84%		56,547	105,165	177,515	106%	
August-2010	3,631	10,544	19,160	60%		10,128	30,997	52,316	71%		33,443	56,062	88,805	81%	
September-2010	2,882	7,953	13,564	40%		9,154	23,971	37,820	54%		4,581	37,316	85,646	56%	
October-2010	6,603	13,769	22,456	65%		7,188	27,133	44,766	58%		8,493	36,727	67,815	49%	
November-2010	6,794	22,794	69,918	66%		21,856	45,001	123,874	60%		4,374	56,158	152,816	49%	
December-2010	12,017	60,163	211,820	113%		30,844	110,963	333,718	91%		48,204	156,015	344,755	79%	
January-2011	14,238	29,629	75,003	51%		32,582	68,709	156,797	47%		35,321	101,171	214,356	41%	
February-2011	17,628	58,935	127,543	106%		50,471	139,010	369,454	91%		76,637	163,663	399,839	63%	
March-2011	45,298	144,884	263,573	208%		154,680	373,214	542,895	202%		349,386	626,186	834,361	206%	
April-2011	34,160	119,642	169,117	197%		90,968	329,709	470,089	211%		149,443	477,100	892,829	180%	
May-2011	53,038	85,094	147,825	181%		188,755	249,458	401,002	187%		359,972	614,651	946,103	254%	
June-2011	8,516	22,831	55,860	80%		32,199	76,737	165,495	92%		74,481	199,402	371,190	127%	
July-2011	3,253	11,750	20,673	55%		19,257	42,575	69,165	74%		65,698	115,591	205,243	117%	
August-2011	4,586	11,356	21,779	64%		7,507	30,217	46,824	70%		10,497	48,418	92,148	70%	
September-2011	8,078	27,689	66,967	139%		15,958	53,079	109,275	120%		12,157	70,307	145,535	105%	
October-2011	15,423	41,535	67,565	197%		29,719	79,646	136,113	170%		41,606	96,425	153,989	129%	
November-2011	17,347	59,185	146,498	172%		45,810	139,121	302,083	187%		54,127	178,706	384,965	156%	
December-2011	42,513	73,803	124,849	138%		123,550	217,881	327,447	178%		256,084	418,881	541,693	213%	
January-2012	37,770	80,181	159,833	137%		84,280	187,678	343,879	127%		151,580	294,973	480,081	120%	
February-2012	24,619	45,439	92,383	81%		67,582	125,105	293,267	82%		128,382	255,584	523,159	98%	
March-2012	25,001	62,581	151,902	90%		91,778	179,558	363,712	97%		168,667	269,756	397,751	89%	
April-2012	9,678	21,416	37,535	35%		37,873	67,054	160,314	43%		59,441	104,755	169,282	40%	
May-2012	10,933	38,455	94,052	82%		28,062	120,744	215,118	91%		56,177	171,174	274,530	71%	
June-2012	6,221	12,415	25,405	43%		5,186	30,152	51,211	36%		8,503	47,327	95,167	30%	
July-2012	1,122	12,493	32,804	59%		8,710	31,834	81,074	56%		(6,962)	39,989	103,774	40%	
August-2012	3,320	9,888	19,857	56%		6,527	24,804	49,226	57%		7,389	39,788	89,989	57%	
September-2012	2,867	10,112	21,143	51%		13,364	28,427	65,835	64%		1,764	41,728	78,738	62%	
October-2012	5,573	16,976	134,097	80%		14,270	30,237	86,750	65%		3,442	48,999	103,029	65%	
November-2012	11,571	39,105	115,795	114%		29,847	83,856	203,127	113%		26,928	101,716	221,901	89%	
December-2012	7,392	65,105	123,750	122%		22,763	135,011	242,880	110%		37,380	168,776	281,421	86%	

Ohio River Flows

Month and Year	Ohio River Mile 84.2 Pike Island L&D				Ohio River Mile 531.5 Markland L&D				Ohio River Mile 918.5 Smithland L&D			
	Maximum Flow, cfs	Minimum, Flow, cfs	Average Flow, cfs	% long-term Average	Maximum Flow, cfs	Minimum, Flow, cfs	Average Flow, cfs	% long-term Average	Maximum Flow, cfs	Minimum, Flow, cfs	Average Flow, cfs	% long-term Average
January-2013	19,205	55,570	120,792	95%	49,652	140,578	335,482	95%	89,276	289,202	528,770	117%
February-2013	22,830	61,394	164,936	110%	59,799	157,568	394,864	103%	122,267	252,076	478,404	96%
March-2013	29,108	47,191	79,910	68%	96,506	150,848	238,401	82%	146,596	269,255	404,150	89%
April-2013	28,456	55,735	116,904	92%	73,425	131,493	205,061	84%	131,017	244,662	367,106	92%
May-2013	14,010	24,244	44,218	52%	45,466	91,653	157,005	69%	90,688	239,619	347,497	99%
June-2013	14,379	35,232	82,994	123%	40,994	83,270	179,946	100%	61,258	152,539	232,676	97%
July-2013	16,656	40,671	99,812	192%	65,057	126,691	218,624	221%	107,432	219,652	339,223	222%
August-2013	6,975	26,197	84,288	149%	28,346	56,431	102,883	130%	25,847	84,387	150,379	122%
September-2013	6,165	16,144	43,290	81%	19,130	40,191	112,143	91%	16,451	56,062	120,544	84%
October-2013	3,891	13,732	19,862	65%	18,291	37,462	70,820	80%	(46,767)	61,881	159,366	83%
November-2013	17,156	31,839	61,341	92%	37,441	69,545	152,952	93%	26,867	101,347	174,118	88%
December-2013	29,023	72,235	166,207	135%	69,528	200,780	385,964	164%	94,717	286,875	563,578	146%
January-2014	15,518	56,420	111,272	96%	45,196	145,395	266,129	99%	74,238	277,379	514,555	112%
February-2014	11,765	50,929	110,067	91%	51,312	170,644	344,426	112%	81,944	246,649	439,856	94%
March-2014	24,175	50,793	100,933	73%	62,362	121,957	191,506	66%	140,154	243,785	445,246	80%
April-2014	24,033	58,254	114,208	96%	48,863	160,218	291,532	103%	115,908	330,453	566,802	125%
May-2014	34,878	73,292	168,458	156%	89,219	128,099	305,063	128%	159,915	276,060	380,377	114%
June-2014	14,798	45,000	90,066	158%	24,803	91,436	158,772	110%	88,168	139,263	178,221	88%
July-2014	13,528	27,020	47,844	128%	23,774	53,987	102,676	94%	43,994	88,510	185,402	89%
August-2014	12,731	28,338	47,997	161%	30,814	56,768	115,412	131%	39,607	84,196	151,928	121%
September-2014	5,351	14,548	29,949	73%	16,198	37,135	67,275	84%	19,266	69,026	108,809	103%
October-2014	6,860	21,097	37,049	100%	12,123	48,566	109,703	104%	17,972	93,668	186,125	125%
November-2014	13,494	23,809	35,528	69%	38,336	55,322	80,766	74%	54,121	92,441	167,404	81%
December-2014	24,151	31,059	37,966	58%	51,836	57,241	62,645	47%	152,238	152,961	153,684	78%

* Long Term Averages include 1986-2014

APPENDIX B

Bimonthly and Clean metals Data

2010-2014

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow cfs	Bromide (mg/L)	Cl ⁻ (mg/L)	Cu (ug/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ -NO ₃ -N (mg/L)	Phenols (ug/L)	SO ₄ (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (std. u)	SpCond (umhos/cm)
New Cumberland	Ohio	54.4	18-Jan-10	49.7		54	<0.005	128	0.17	0.976	<5	70		0.421	1.97	0.056	4.6	3		400
New Cumberland	Ohio	54.4	17-Mar-10	128.6		26	<0.005	72	0.05	0.811	<5	42		0.611	3.23	0.087	26.6	7		240
New Cumberland	Ohio	54.4	12-May-10	36.5		32		100	0.04	0.618	<5	66		0.501	3.1	0.065	4.91	19		440
New Cumberland	Ohio	54.4	20-Jul-10	7.8		54		148	0.08	0.822	<5	94.6		0.489	3.1	0.087	5.67	31		520
New Cumberland	Ohio	54.4	23-Sep-10	13.0		62		156	0.07	1.1	<5	87.8		1.09	3.26	0.078	5.4	28		580
New Cumberland	Ohio	54.4	02-Nov-10	16.9		46	<0.005	136	0.07	1.09	<5	90.2		0.243	4.48	0.055	3.33	18		480
New Cumberland	Ohio	54.4	18-Jan-11			48	<0.005	92	0.13	0.782	<5	57		0.594	2.5	0.061	4.4	3.5		340
New Cumberland	Ohio	54.4	21-Mar-11			24	<0.005	76	0.05	0.679	<5	47.9		0.606	1.77	0.085	11.5	8.5		200
New Cumberland	Ohio	54.4	26-May-11			18		92	<0.03	0.485	<5	49.7		0.419	3.5	0.065	10.3	19		250
New Cumberland	Ohio	54.4	21-Jul-11			42.1		136	0.05	0.92	<5	126		0.42	2.74	0.025	3	33		530
New Cumberland	Ohio	54.4	08-Sep-11			32		151	0.03	0.89	<5	108		0.12	2.62	0.028	23	24.5		490
New Cumberland	Ohio	54.4	16-Nov-11			27.5	<5	113	0.08	1	<5	49.7		0.22	2.49	0.047	7	12		258
New Cumberland	Ohio	54.4	09-Jan-12			24.9		92.8	0.11	0.79	R	73		0.19	1.9	0.022	<5	6.6		286
New Cumberland	Ohio	54.4	08-Mar-12			22.4	<0.005	79.4	<0.03	0.72	R	56.5		0.14	2	0.18	15	8.3		275
New Cumberland	Ohio	54.4	15-May-12			20.9		81	<0.03	0.62	<0.01	56.5		<0.1	2.3	0.027	<5			463
New Cumberland	Ohio	54.4	23-Jul-12			50.4		135	0.051	1.1	<0.01	110		0.3	2.7	0.045	<5	30.3		463
New Cumberland	Ohio	54.4	19-Sep-12			47		135	<0.03	1	<0.01	100		0.12	2.6	0.038	6	22.4		457
New Cumberland	Ohio	54.4	20-Nov-12			20.5		84.6	0.056	0.71	<0.01	59.2		0.12	2.5	<0.01	<5	9.5		264
New Cumberland	Ohio	54.4	09-Jan-13			44.7	<0.005	107	0.12	0.82	<0.01	75.6		<0.1	2.1	0.016	8	3.3		371
New Cumberland	Ohio	54.4	14-May-13			29.8		104	<0.03	0.63	<0.01	102		0.44	2.3	<0.01	13	5.1		339
New Cumberland	Ohio	54.4	13-Jul-13			22.4		94.5	<0.03	0.78	<0.01	62		0.48	3.7	0.026	8	27.1		303
New Cumberland	Ohio	54.4	11-Sep-13			25		100	<0.03	0.87	<0.01	50.7		0.27	2.8	0.044	5	28.5		317
New Cumberland	Ohio	54.4	14-Nov-13			25.9	<0.005	97.1	<0.03	0.57	R	55.4		0.39	3.1	0.14	<5	13.9		294
New Cumberland	Ohio	54.4	31-Mar-14		<0.5	55.6	<0.005	97.9	0.05	0.78	<0.01	52.7		0.5	2.5	0.033	28	4.8		325
New Cumberland	Ohio	54.4	13-Jan-14			36	<0.005	97.8	0.041	0.83	<0.01	77.5		0.35	1.8	0.042	<5	8.2		325
New Cumberland	Ohio	54.4	14-May-14		<1	32.2		109	<0.03	0.6	<0.01	57.8		0.29	1.9	<0.01	12	21.4		352
New Cumberland	Ohio	54.4	23-Sep-14		0.102	33.3		122	0.04	0.826	<5	67.2		0.847	3.86	0.046	7.67	23.8		360
New Cumberland	Ohio	54.4	18-Jan-14		0.091	25	<0.005	117	0.07	0.888	<5	73.4		0.524	3.06	0.051	5.14	25.3		327.6
New Cumberland	Ohio	54.4	19-Nov-14			25		100	0.07	0.782	<5	63.5		0.369	2.87	0.04	2	9.1		293.6
Pike Island	Ohio	84.2	18-Jan-10	41.5		54	<0.005	120	0.18	0.917	<5	69		0.521	2.31	0.102	22.6	2		420
Pike Island	Ohio	84.2	17-Mar-10	124.8		26	<0.005	72	0.06	0.759	<5	43		0.637	3.17	0.147	52.7	7		240
Pike Island	Ohio	84.2	12-May-10	34.9		36		116	0.03	0.667	<5	76		0.357	2.69	0.063	5.45	17		360
Pike Island	Ohio	84.2	20-Jul-10	9.1		54		160	0.1	0.787	<5	96		0.484	2.81	0.133	7.33	29.5		530
Pike Island	Ohio	84.2	02-Sep-10	7.7		62		150	0.06	1.08	<5	92		0.465	3.22	0.078	7	25		520
Pike Island	Ohio	84.2	22-Nov-10	14.3		48	<0.005	152	0.07	1.08	<5	105		0.428	3.72	0.045	4.5	14		520
Pike Island	Ohio	84.2	18-Jan-11	18.5		35	<0.005	92	0.14	0.749	<5	56.2		0.732	2.83	0.07	5.89	1		320
Pike Island	Ohio	84.2	21-Mar-11	99.8		22	<0.005	76	0.05	0.71	<5	47.8		0.403	1.73	0.04	20.5	8		240
Pike Island	Ohio	84.2	26-May-11	69.8		20		94	<0.03	0.491	<5	51		0.446	3.1	0.027	10	18		250
Pike Island	Ohio	84.2	21-Jul-11	10.2				144	<0.03	0.92	<5			0.31	2.49	0.019		30.5		520
Pike Island	Ohio	84.2	08-Sep-11	83.1		40.1		147	0.07	0.93	<5	92.7		0.16	2.53	0.035	31	24.5		480
Pike Island	Ohio	84.2	09-Jan-12	61.3		23.7	<5	113	0.06	0.91	<5	48.2		0.19	2.45	0.033	10	13.1		252
Pike Island	Ohio	84.2	09-Jan-12	42.6		23.7		93.8	0.11	0.74	R	61.8		0.19	1.8	<0.01	12	4.6		291
Pike Island	Ohio	84.2	08-Mar-12	70.4		18.9	<0.005	77.6	<0.03	0.7	R	56		0.15	2	0.026	14	8.8		224
Pike Island	Ohio	84.2	15-May-12	46.5		21.2	<0.005	81.3	<0.03	0.63	<0.01	64.5		<0.1	2.3	<0.01	<5			
Pike Island	Ohio	84.2	23-Jul-12	14.0		48.7		140	0.052	0.95	<0.01	102		0.38	2.6	0.028	6	28.3		483
Pike Island	Ohio	84.2	19-Sep-12	12.5		48.8		144	0.051	1.2	<0.01	102		<0.1	2.6	0.047	<5			478
Pike Island	Ohio	84.2	20-Nov-12	22.1		20		89.7	0.051	0.75	<0.01	68		<0.1	2.5	<0.01	6	8.8		284
Pike Island	Ohio	84.2	09-Jan-13	26.6		48.7	<0.005	110	<0.03	0.78	<0.01	79		<0.1	2.1	0.024	<5	5.9		349
Pike Island	Ohio	84.2	20-Mar-13	68.8		31	<0.005	90.5	<0.03	0.71	<0.01	56.2		0.38	2	<0.01	<5	4.9		294
Pike Island	Ohio	84.2	14-May-13	42.3		30.7		111	<0.03	0.67	<0.01	117		0.22	1.8	0.028	9	16.4		401
Pike Island	Ohio	84.2	13-Jul-13	40.7		24.2		94.7	<0.03	0.8	<0.01	53.3		0.35	3.2	0.019	<5	27		296
Pike Island	Ohio	84.2	15-Sep-13	11.4		21		94.9	<0.03	0.7	R	64		0.35	3.2	0.025	6	9.5		361
Pike Island	Ohio	84.2	14-Nov-13	25.3		32.4	<0.005	105	<0.03	0.858	<5	56.3		0.34	2.6	0.057	36	4.1		391
Pike Island	Ohio	84.2	13-Jan-14	105.2	<2.5	52.7	<0.005	105	0.051	0.79	<0.01	68.2		0.43	1.8	<0.01	9	8.4		311
Pike Island	Ohio	84.2	31-Mar-14	62.0	<0.5	31.2	<0.005	91.9	0.051	0.86	<5	60.2		0.26	1.8	0.012	10	21.4		347
Pike Island	Ohio	84.2	14-May-14	61.1	<1	29		108	<0.03	0.59	0.011	60.2		0.582	3.86	0.068	8.33	25.1		369
Pike Island	Ohio	84.2	29-Jul-14	32.5	0.079	31.7		130	0.04	0.966	<5	74.6		0.506	3	0.044	8	24		385.3
Pike Island	Ohio	84.2	23-Sep-14	11.5	0.118	40		140	0.06	0.946	<5	94.6		0.506			8			
Pike Island	Ohio	84.2	19-Nov-14	25.7	0.076	25	<0.005	100	0.08	0.734	<5	65.8		0.276	2.75	0.031	2.8	2		420
Pike Island	Ohio	84.2	20-Jan-10	71.7		52	<0.005	120	0.17	1.02	<5	72		0.276	2.18	0.067	16			
Hannibal	Ohio	126.4	18-Mar-10	122.2		26	<0.005	76	0.05	0.787	<5	44		0.554	3.04	0.098	35.1	7		240

R - Indicates data redacted due to QA issues.

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow (mg/L)	Bromide (mg/L)	Cl ⁻ (mg/L)	Ca (ug/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ -NO ₃ -N (mg/L)	Phenols (ug/L)	SO ₄ (mg/L)	TDS (mg/L)	TN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (std.)	SpCond (umhos/cm)
Hannibal	Ohio	126.4	19-May-10	67.3		24		60	0.03	0.541	<5	64		0.763	2.8	0.075	45.8	16		310
Hannibal	Ohio	126.4	21-Jul-10	12.3		62		164	0.07	0.814	<5	106		0.497	2.93	0.129	5.2			
Hannibal	Ohio	126.4	24-Sep-10	9.6		56		156	0.03	0.802	<5	116		0.438	3.11	0.018	5.2			
Hannibal	Ohio	126.4	08-Nov-10	16.3		50	<0.005	148	0.05	1.05	<5	104		0.569	3.31	0.043	4.67	13		530
Hannibal	Ohio	126.4	25-Jan-11	18.3		54	<0.005	104	0.14	0.947	<5	61		0.514	3.14	0.058	5.25	1		400
Hannibal	Ohio	126.4	29-Mar-11	73.0		24	<0.005	80	0.07	0.572	<5	54.5		0.443	1.94	0.038	12.8			260
Hannibal	Ohio	126.4	24-May-11	74.2		18		100	0.04	0.493	<5	54.5		0.594	2.59	0.03	21	17		550
Hannibal	Ohio	126.4	19-Jul-11	8.8		45.2		143	0.06	0.67	<5	127		0.29	2.5	0.018	16	28		350
Hannibal	Ohio	126.4	14-Sep-11	29.4		23.3		111	0.02	1	<5	80.2		0.13	3.03	0.015	4	23		390
Hannibal	Ohio	126.4	09-Nov-11	25.7		22.2		97	0.04	0.85	<5	49.6		0.18	2.53	0.031	6	14.5	7.11	284
Hannibal	Ohio	126.4	10-Jan-12	39.7		25.2		98.5	0.098	0.78	R	57.8		0.18	1.8	0.017	<5	6.8	7.06	284
Hannibal	Ohio	126.4	12-Mar-12	61.7		33.4	<0.005	98	<0.03	0.75	R	65.5		0.19	2	0.051	8	7.9	7.5	294
Hannibal	Ohio	126.4	16-May-12	45.6		54.2		129	0.036	0.63	<0.01	69.2		0.33	2.2	0.034	10	21.1	7.31	268
Hannibal	Ohio	126.4	24-Jul-12	9.3		59.8		150	0.045	1.1	<0.01	120		<0.1	2.6	0.028	7	22.5	7.42	515
Hannibal	Ohio	126.4	27-Sep-12	9.3		59.8		150	0.045	1.1	<0.01	120		<0.1	2.6	0.028	7	22.5	7.06	526
Hannibal	Ohio	126.4	19-Nov-12	20.6		28.3		93.3	0.047	0.9	<0.01	67		<0.1	3	<0.01	<5	5.5	6.86	394
Hannibal	Ohio	126.4	14-Jan-13	99.6		48.5	<0.005	122	0.038	0.94	<0.01	85.9		0.33	2.1	0.065	19	5.5	6.71	340
Hannibal	Ohio	126.4	19-Mar-13	62.5		32	<0.005	107	<0.03	0.67	<0.01	70.6		0.41	1.9	<0.01	5	5.9	7.65	363
Hannibal	Ohio	126.4	21-May-13	20.6		28.7		117	<0.03	0.28	R	103		0.29	1.7	<0.01	7	23	7.16	325
Hannibal	Ohio	126.4	18-Jul-13	25.1		25.5		101	<0.03	0.81	<0.01	63.4		0.42	3.9	0.028	9	27.6	7.16	325
Hannibal	Ohio	126.4	05-Sep-13	20.3		20.5		99	<0.03	0.65	<0.01	64.4		0.23	2.7	0.025	<5	25.3	7.17	315
Hannibal	Ohio	126.4	11-Nov-13	29.0	<5	37.4	<0.005	121	<0.03	0.57	<0.01	64.2		0.31	3.2	0.21	<5	21	6.99	390
Hannibal	Ohio	126.4	20-Jan-14	56.6		29.4	<0.005	82.6	<0.03	0.69	<0.01	52.9		0.29	1.54	0.29	13	5.5	7.18	287
Hannibal	Ohio	126.4	10-Mar-14	25.6		39.3	<0.005	105	0.12	1	<0.01	60		0.46	1.9	0.025	7	5.6	6.9	367
Hannibal	Ohio	126.4	19-May-14	132.8	<0.5	18.7		84.5	<0.03	0.53	<0.01	44.6		0.48	2.7	0.048	72	18	7.33	269
Hannibal	Ohio	126.4	21-Jul-14	24.8	0.077	26.2		122	0.07	0.805	<5	70.7		0.538	2.81	0.034	5.33	27.1	7.33	358
Hannibal	Ohio	126.4	24-Sep-14	10.5	0.108	46.2		130	0.05	0.919	<5	88.2		0.56	3.04	0.066	4.29	21.2	8.21	393.8
Hannibal	Ohio	126.4	19-Nov-14	26.4	0.099	35	<0.005	104	0.06	0.771	<5	69.8		0.385	2.72	0.062	2.6			420
Hannibal	Ohio	126.4	20-Jan-10	73.1		56	<0.005	116	0.15	0.979	<5	68		0.412	2.15	0.197	27.6	2		260
Hannibal	Ohio	126.4	18-Mar-10	125.7		28	<0.005	80	0.05	0.813	<5	43		1.09	2.89	0.051	28.8	17		310
Hannibal	Ohio	126.4	19-Jul-11	78.4		24		100	<0.03	0.546	<5	65		0.412	3.27	0.026	8	30		560
Hannibal	Ohio	126.4	22-Jul-10	18.2		54		172	<0.03	0.669	<5	106		0.531	3.27	0.026	8	30		560
Hannibal	Ohio	126.4	27-Sep-10	7.0		70		172	0.03	0.889	<5	115		0.406	3.24	0.017	5.2	23.5		650
Hannibal	Ohio	126.4	08-Nov-10	21.3		56	<0.005	144	0.04	0.94	<5	107		0.542	3.05	0.078	4	13		560
Hannibal	Ohio	126.4	25-Jan-11	19.9		40	<0.005	96	0.14	0.832	<5	63.4		0.485	2.99	0.05	3.58	1		350
Hannibal	Ohio	126.4	22-Mar-11	100.0		22	<0.005	80	0.05	0.672	<5	49.8		0.652	1.88	0.066	20.7	8		250
Hannibal	Ohio	126.4	24-May-11	75.0		18		88	0.03	0.526	<5	52.1		0.668	2.87	0.039	23.1	17		260
Hannibal	Ohio	126.4	19-Jul-11	27.2		43.8		142	0.05	0.76	<5	120		0.668	2.87	0.039	23.1	17		260
Hannibal	Ohio	126.4	14-Sep-11	27.2		31.9		134	0.02	0.8	<5	108		0.69	2.58	0.015	5	24		480
Hannibal	Ohio	126.4	09-Nov-11	26.5		24.3		97	0.02	0.8	<5	48.3		<0.1	2.53	0.04	7	13.1	7.26	234
Hannibal	Ohio	126.4	10-Jan-12	41.0		24.8		96.3	0.097	0.75	R	51.5		0.18	1.9	0.013	<5	4.9	7.07	282
Hannibal	Ohio	126.4	12-Mar-12	64.5		21.2	<0.005	82.6	<0.03	0.62	<0.01	73.8		0.3	2.2	0.029	9	20.6	7.33	267
Hannibal	Ohio	126.4	16-May-12	46.8		21		82.6	<0.03	0.62	<0.01	73.8		0.3	2.2	0.029	9	20.6	7.33	267
Hannibal	Ohio	126.4	24-Jul-12			52		134	<0.03	0.87	<0.01	136		0.2	2.5	0.01	6	29.3	7.03	483
Hannibal	Ohio	126.4	27-Sep-12	9.5		54.8		141	0.074	1.1	<0.01	116		<0.1	2.8	0.014	<5			500
Hannibal	Ohio	126.4	19-Nov-12	20.9		23.2		89.7	0.036	0.92	<0.01	59.5		0.12	3.6	<0.01	5			
Hannibal	Ohio	126.4	14-Jan-13	101.6		52.4	<0.005	118	<0.03	0.86	<0.01	84.5		<0.1	1.8	0.063	20	4.8		
Hannibal	Ohio	126.4	16-Mar-13	71.0		35.8	<0.005	109	<0.03	0.65	<0.01	70.7		0.45	1.8	<0.01	6	6.2	6.72	355
Hannibal	Ohio	126.4	21-May-13	21.0		30.7		120	<0.03	0.61	<0.01	96.6		0.24	1.9	<0.01	5	21.8	7.82	380
Hannibal	Ohio	126.4	18-Jul-13	26.4		25.1		105	<0.03	0.91	<0.01	58.6		0.41	3.9	0.028	<5	27.2	7.15	333
Hannibal	Ohio	126.4	05-Sep-13	20.6		29.9		111	<0.03	0.76	R	69		0.23	2.4	0.025	6	24.6	7.14	364
Hannibal	Ohio	126.4	11-Nov-13	29.2	<0.5	38.5	<0.005	127	<0.03	0.67	<0.01	68		0.37	3	0.29	8	11.1	6.98	410
Hannibal	Ohio	126.4	20-Jan-14	58.5	<5	32.3	<0.005	84	<0.03	0.88	<0.01	55		0.3	2.1	0.027	15	2.5	7.04	298
Hannibal	Ohio	126.4	10-Mar-14	28.5		40.2	<0.005	99.5	0.1	0.98	<0.01	55		0.3	2	0.019	9	5.3	7.33	313
Hannibal	Ohio	126.4	19-May-14	141.6	<0.5	22.5		97.2	<0.03	0.83	<0.01	56.4		0.69	2.8	0.082	96	17.1	7.33	313
Hannibal	Ohio	126.4	21-Jul-14	141.6	0.074	52		116	0.06	0.88	<5	68.8		0.595	2.8	0.054	7.27	26.2	7.61	350
Hannibal	Ohio	126.4	24-Sep-14	10.7	0.083	47.5		132	<0.03	1.05	<5	94.4		0.638	3.49	0.049	12.6	22	7.86	409.7
Hannibal	Ohio	126.4	16-Nov-14	24.4	0.087	35	<0.005	110	0.05	0.813	<5	70		0.39	2.95	0.044	5.41			
Hannibal	Ohio	126.4	19-Jan-10	107.1		38	<0.005	100	0.1	0.84	<5	68		0.46	3.24	0.137	62.7	2		370
Hannibal	Ohio	126.4	24-Mar-10	141.5		24	<0.005	100	0.04	0.811	<5	56		0.679	3.85	0.581	76.7	9		290
Hannibal	Ohio	126.4	13-May-10	30		30		148	<0.03	0.491	<5	120		0.592	2.83	0.066	15.6	19		420
Hannibal	Ohio	126.4	22-Jul-10	17.3		40		148	0.06	0.561	<5	80		0.63	3.59	0.106	9.2	28		460

R - Indicates data redacted due to QA issues.

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Bromide (mg/L)	Cl ⁻ (mg/L)	Cl ⁻ (ug/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ +NO ₃ -N (mg/L)	Phenols (ug/L)	504 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (Std.)	SpCond (umhos/cm)
Belleville	Ohio	203.9	29-Sep-10	11.8		68		168	0.06	0.73	<5	115		0.261	3.52	0.028	5.14	23.5		630
Belleville	Ohio	203.9	17-Nov-10	14.9		58	<0.005	164	0.04	1.04	<5	105		0.29	3.46	0.121	3	12		550
Belleville	Ohio	203.9	02-Feb-11	47.5		52	<0.005	132	0.14	0.938	<5	70.4		0.621	3.3	0.05	7.62	1		400
Belleville	Ohio	203.9	28-Mar-11	124.0		26	<0.005	104	0.06	0.873	<5	57.3		0.545	1.86	0.089	34	9		310
Belleville	Ohio	203.9	25-May-11	96.5		20		112	<0.03	0.609	<5	56.8		0.658	3.01	0.078	44.9	19		310
Belleville	Ohio	203.9	26-Jul-11	35.4		48		164	0.14	0.57	<5	122	330	0.27	3.01	0.035	8	30		590
Belleville	Ohio	203.9	12-Sep-11	46.9		44.8		147	0.03	1.3	<5	77.3	270	0.18	3.21	0.033	16	25		490
Belleville	Ohio	203.9	14-Nov-11	25.6		25.5	<5	125	0.05	0.94	<5	51.4	180	0.24	2.73	0.037	3	13.5		360
Belleville	Ohio	203.9	24-Jan-12	128.9		26.5		109	0.99	0.82	R	64.5	189	0.23	2.1	0.038	30			320
Belleville	Ohio	203.9	14-Mar-12	82.5		31.4	<0.005	120	<0.03	0.9	R	74	206	0.15	2.6	0.031	11	11.4		320
Belleville	Ohio	203.9	21-May-12	24.9		22.1		97.5	<0.03	0.72	<0.01	78.5	182	0.23	2.2	0.011	5	21.6		298
Belleville	Ohio	203.9	18-Jul-12	12.0		60.4		145	0.049	0.8	<0.01	127	300	0.32	2.5	0.036	<5	30.2		518
Belleville	Ohio	203.9	17-Sep-12	8.1		58.4		145	<0.03	0.78	<0.01	106	326	0.2	2.8	0.014	<5			
Belleville	Ohio	203.9	13-Nov-12	42.3		23.6		103	0.031	1.1	<0.01	56.8	183	<0.1	4.3	0.034	6	10.6		309
Belleville	Ohio	203.9	17-Jan-13	132.3		64.7	<0.005	118	<0.03	0.76	<0.01	80.9	213	0.18	2.6	0.071	43	4.6		356
Belleville	Ohio	203.9	27-Mar-13	74.8		38.3	<0.005	110	<0.03	0.65	R	57	210	0.33	2.4	<0.01	10	5.4		252
Belleville	Ohio	203.9	16-May-13	40.6		32.7		125	<0.03	0.81	<0.01	82.1	216	0.35	2.2	<0.01	<5	19.2		391
Belleville	Ohio	203.9	24-Jul-13	66.1		23.5		140	<0.03	0.74	<0.01	72.1	231	0.29	4	0.042	23	24.8		367
Belleville	Ohio	203.9	09-Sep-13	14.5		34.5		136	<0.03	0.75	<0.01	80.1	235	0.32	2.4	<0.01	<5	25.8		424
Belleville	Ohio	203.9	18-Nov-13	45.6		37.2	<0.005	134	<0.03	0.86	<0.01	65.2	227	0.32	3.2	0.035	5	11.3		410
Belleville	Ohio	203.9	20-Mar-14	76.9	<0.5	37.7	<0.005	125	0.035	0.67	<0.01	63.7	208	0.42	2.4	0.016	17	5.3		361
Belleville	Ohio	203.9	27-May-14	70.2	<0.5	21.6		104	0.13	0.67	<0.01	44.3	160	0.505	2.6	0.029	16	21.8		303
Belleville	Ohio	203.9	16-Jul-14	45.2	0.051	25		104	0.07	0.72	<5	51.5	216	0.68	3.66	0.063	11.2	25.5		330
Belleville	Ohio	203.9	24-Sep-14	12.8	0.084	44		158	0.07	0.87	<5	94.8	304	0.576	3.52	0.045	3.14	22.7		424.8
Belleville	Ohio	203.9	20-Nov-14	32.5	0.082	36.2	<0.005	120	0.04	0.861	<5	69.8	284	0.445	3.07	0.049	2			260
Belleville	Ohio	203.9	19-Jan-10	183.2		18	<0.005	88	0.06	0.738	<5	44		0.432	2.46	0.089	36.2	3		200
R.C. Byrd	Ohio	279.2	24-Mar-10	199.0		14	<0.005	72	0.04	0.451	<5	39		0.502	2.39	0.075	37.3	10		340
R.C. Byrd	Ohio	279.2	13-May-10	58.1		24		120	0.04	0.665	<5	82		0.786	3.19	0.11	31.2	19		440
R.C. Byrd	Ohio	279.2	22-Jul-10	58.1		34		144	0.06	0.625	<5	82.4		0.88	3.2	0.149	30.7	29		400
R.C. Byrd	Ohio	279.2	29-Sep-10	16.4		50		152	0.04	0.656	<5	102		0.299	3.32	0.031	8.73	23.5		540
R.C. Byrd	Ohio	279.2	17-Nov-10	31.9		46	<0.005	152	0.03	0.793	<5	103		0.38	3.65	0.039	15.4	12.5		500
R.C. Byrd	Ohio	279.2	02-Feb-11	69.1		34	<0.005	100	0.1	0.832	<5	54		0.715	2.65	0.082	20.9	2		310
R.C. Byrd	Ohio	279.2	28-Mar-11	172.2		14	<0.005	72	0.05	0.605	<5	42		0.619	1.45	0.05	22.6	9		200
R.C. Byrd	Ohio	279.2	25-May-11	126.6		14		84	0.03	0.526	<5	44.4		0.619	3	0.054	24.6	18		230
R.C. Byrd	Ohio	279.2	26-Jul-11	40.0		36.5		351	0.08	0.71	<5	116		0.19	2.84	0.033	7	31		500
R.C. Byrd	Ohio	279.2	12-Sep-11	55.3		38		130	<0.03	1	<5	68		0.14	2.75	0.038	23	27		470
R.C. Byrd	Ohio	279.2	12-Nov-11	33.5		20.4	<5	109	0.05	0.83	<5	46.4		0.19	2.43	0.053	15	15.7		745
R.C. Byrd	Ohio	279.2	24-Jan-12	163.9		15.4		69.6	<0.03	0.67	R	42		0.28	1.6	0.06	29			250
R.C. Byrd	Ohio	279.2	14-Mar-12	113.4		17.6	<0.005	89.2	<0.03	0.75	R	57.5		0.1	1.9	0.026	18	10.8		237
R.C. Byrd	Ohio	279.2	21-May-12	41.3		14.7		78.6	<0.03	0.59	<0.01	50		<0.1	2	0.02	13	23.8		231
R.C. Byrd	Ohio	279.2	18-Jul-12	17.2		34.9		128	<0.03	0.51	<0.01	100		0.4	2.2	0.034	<5	30.4		413
R.C. Byrd	Ohio	279.2	13-Nov-12	54.9		45		141	<0.03	0.95	<0.01	104		<0.1	3.5	0.03	5	10.4		695
R.C. Byrd	Ohio	279.2	17-Jan-13	218.4		23.3		101	0.051	0.62	<0.01	57.8		0.23	3.5	0.032	79	6		302
R.C. Byrd	Ohio	279.2	27-Mar-13	117.5		15	<0.005	81.6	<0.03	0.66	<0.01	43.1		0.52	2	0.02	28	5.3		357
R.C. Byrd	Ohio	279.2	16-May-13	66.5		20		87.7	<0.03	0.53	<0.01	46.1		0.33	2	0.038	13	19.2		277
R.C. Byrd	Ohio	279.2	24-Jul-13	101.6		16.4		106	<0.03	0.79	<0.01	46.3		0.24	3.8	0.045	18	25.8		280
R.C. Byrd	Ohio	279.2	09-Sep-13	22.2		23.5		109	<0.03	0.67	<0.01	53		0.35	2.3	0.04	10	26.2		335
R.C. Byrd	Ohio	279.2	18-Nov-13	58.0		36	<0.005	134	<0.03	0.77	R	70.2		0.29	2.8	0.033	13	10.8		411
R.C. Byrd	Ohio	279.2	04-Feb-14	147.1		24.7	<0.005	105	0.037	0.76	<0.01	57.1		0.53	1.9	0.044	15	1		168
R.C. Byrd	Ohio	279.2	20-Mar-14	101.4	<0.5	34	<0.005	110	0.031	0.75	<0.01	48.1		0.37	2.1	0.01	14	5.8		209
R.C. Byrd	Ohio	279.2	27-May-14	82.3	<0.5	19.1		90.8	<0.03	0.62	<0.01	37.4		0.57	2.6	0.048	16	20.7		368
R.C. Byrd	Ohio	279.2	16-Jul-14	51.8	0.05	21		116	0.07	1.06	<5	58.2		0.567	3.62	0.086	24.8	26		360
R.C. Byrd	Ohio	279.2	24-Sep-14	17.1	0.065	30		130	<0.03	0.77	<5	81.2		0.454	3.21	0.045	7.69	23.7		201.6
R.C. Byrd	Ohio	279.2	20-Nov-14	51.9	0.056	22.5	<0.005	100	0.04	0.657	<5	57.5		0.448	2.62	0.058	4.67			
Greenup	Ohio	344.1	13-Jan-10	41.2		26		104	0.07	0.879	<5	62		0.362	2.12	0.042	4.6			
Greenup	Ohio	344.1	24-Mar-10	191.0		20		84	0.04	0.829	<5	52		0.643	2.87	0.329	42.5			
Greenup	Ohio	344.1	19-May-10	203.7		20		112	<0.03	0.573	<5	78		0.708	3.12	0.13	125			
Greenup	Ohio	344.1	29-Jul-10	26.2		28		136	<0.03	0.545	<5	63.4		0.763	3.73	0.046	7			
Greenup	Ohio	344.1	27-Sep-10	13.7		50		168	<0.03	0.603	<5	91.5		0.365	2.8	0.033	10			
Greenup	Ohio	344.1	18-Nov-10	29.2		48		164	0.03	0.802	<5	118		0.251	3.06	0.041	5.8			
Greenup	Ohio	344.1	10-Jan-11	69.1		32		108	0.08	0.823	<5	63.3		0.667	2.92	0.063	14.2			

R - Indicates data redacted due to QA issues.

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow cfs	Bromide (mg/L)	Cl ⁻ (mg/L)	Cl ⁻ (ug/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ -NO ₃ -N (mg/L)	Phenols (ug/L)	SO ₄ (mg/L)	TDS (mg/L)	TN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (Std.)	SpCond (umhos/cm)
Greenup	Ohio	34.1	08-Mar-11	327.8		18		84	0.06	0.755	<5	48.2		1.34	3.39	0.212	133			
Greenup	Ohio	34.1	11-Mar-11	183.3		14		124	0.05	0.451	<5	54.4		1.13	5.17	0.354	325			
Greenup	Ohio	34.1	27-Jul-11	47.9		33.1		147	<0.03	0.68	<	114	310	0.24	2.69	0.038	8			
Greenup	Ohio	34.1	15-Sep-11	45.1		40.7		145	<0.03	1.2	<	86.3	270	0.1	2.89	0.038	10		19.1	8.39
Greenup	Ohio	34.1	08-Nov-11	57.3		21.8		122	0.03	0.7	<5	62.5	200	<0.1	2.64	0.042	18		13.1	8.65
Greenup	Ohio	34.1	05-Jan-12	117.8		16.2		102	0.1	0.75	R	57	172	0.23	2	0.024	23		5.3	9.3
Greenup	Ohio	34.1	07-Mar-12	209.5		14.2		84.8	<0.03	0.62	R	69.5	145	0.34	2	0.034	63		10.2	9.37
Greenup	Ohio	34.1	17-May-12	118.8		16.7		98.3	<0.03	0.93	<0.01	70	173	0.33	2.1	0.026	30			
Greenup	Ohio	34.1	09-Jul-12	16.5		34.4		127	0.07	0.5	<0.01	120	245	0.42	2.2	0.015	<5			
Greenup	Ohio	34.1	24-Sep-12	30.4		38		144	0.041	0.51	<0.01	120	275	<0.1	2.4	<0.01	5			
Greenup	Ohio	34.1	08-Nov-12	91.5		25.3		119	0.034	0.94	<0.01	74.2	218	0.14	3.4	0.039	33		11.2	6.55
Greenup	Ohio	34.1	07-Jan-13	69.1		73.6		103	<0.03	0.83	<0.01	78.5	266	<0.1	2.1	<0.01	6		5.9	5.39
Greenup	Ohio	34.1	27-Mar-13	139.1		17.8		113	<0.03	0.56	<0.01	57.5	185	0.15	2.2	0.03	19			
Greenup	Ohio	34.1	30-May-13	40.2		20.3		113	<0.03	0.57	<0.01	66.9	173	0.7	1.9	<0.01	<5			
Greenup	Ohio	34.1	25-Jul-13	121.7		16.9		114	<0.03	0.78	<0.01	62.6	178	0.26	3.8	0.063	35			
Greenup	Ohio	34.1	05-Sep-13	35.2		25.2		127	<0.03	0.68	<0.02	82.1	241	0.22	2.4	0.036	10			
Greenup	Ohio	34.1	25-Nov-13	55.1		32.2		141	<0.03	0.65	<0.01	76.3	273	0.41	3	0.053	10		8.9	8.14
Greenup	Ohio	34.1	13-Jan-14	193.3	<2.5	20.5		132	<0.03	0.55	<0.01	45.7	204	0.31	2.7	0.027	115			
Greenup	Ohio	34.1	19-Mar-14	123.6	<0.5	36.8		132	0.058	0.73	0.04	71	221	0.39	2	0.023	16		18.1	6.57
Greenup	Ohio	34.1	22-May-14	199.9	<0.5	23.2		133	<0.03	1	<0.01	49	183	0.61	3	0.1	67		26.7	6.47
Greenup	Ohio	34.1	09-Jul-14	34.3	0.04	20		124	<0.03	1.3	<5	55.2	183	0.703	3.67	0.188	10			343.4
Greenup	Ohio	34.1	24-Sep-14	21.6	0.068	31		140	0.04	0.785	<5	89.6	256	0.531	3.07	0.057	5.67		<0	<0
Greenup	Ohio	34.1	04-Nov-14	44.8	0.095	33.3		133	<0.03	0.869	<5	91	256	0.409	3.54	0.047	12.2			
Meidahl	Ohio	436.2	13-Jan-10	44.2		38		112	0.07	1.07	<5	60		0.398	2.34	0.064	8.8			
Meidahl	Ohio	436.2	24-Mar-10	179.4		22		100	0.04	0.989	<5	45		0.687	3.87	0.118	80.5			
Meidahl	Ohio	436.2	19-May-10	172.8		22		116	<0.03	0.657	<5	72		0.717	3.86	0.188	32.6			
Meidahl	Ohio	436.2	29-Jul-10	36.4		20		116	<0.03	0.606	<5	53.2		0.745	5.61	0.087	10.6			
Meidahl	Ohio	436.2	27-Sep-10	14.8		52		188	<0.03	0.606	<5	39		0.188	3.12	0.027	10.6			
Meidahl	Ohio	436.2	23-Nov-10	40.5		48		160	<0.03	0.836	<5	111		0.274	2.34	0.049	10.7			
Meidahl	Ohio	436.2	10-Jan-11	72.7		22		108	0.12	0.854	<5	62.6		0.696	2.38	0.079	16			
Meidahl	Ohio	436.2	08-Mar-11	342.6		22		88	0.05	0.985	<5	44.3		0.712	3.39	0.253	146			
Meidahl	Ohio	436.2	11-May-11	202.4		18		116	<0.03	0.725	<5	35.2		0.585	3.68	0.093	42			
Meidahl	Ohio	436.2	27-Jul-11	55.3		30.6		146	0.12	0.63	<	94	290	0.4	2.89	0.038	8		21.6	8.28
Meidahl	Ohio	436.2	15-Sep-11	51.6		39.4		157	<0.03	0.96	<5	51.4	190	<0.1	3.2	0.051	18		12.3	8.8
Meidahl	Ohio	436.2	08-Nov-11	63.6		23.2		123	0.03	0.92	R	66.5	160	0.75	2.7	0.024	19		6.1	9.86
Meidahl	Ohio	436.2	05-Jan-12	134.1		18		112	0.049	0.74	R	65.5	171	0.13	2.6	0.056	86		10.9	8.87
Meidahl	Ohio	436.2	07-Mar-12	276.1		21.2		95	<0.03	0.87	<0.01	82		0.28	2.4	0.033	21			
Meidahl	Ohio	436.2	17-May-12	144.1		17.4		114	<0.03	0.74	<0.01	102	238	0.38	2.5	0.031	<5			
Meidahl	Ohio	436.2	09-Jul-12	18.9		32.6		127	0.12	0.38	<0.01	188		0.28	2.5	0.031	<5			
Meidahl	Ohio	436.2	24-Sep-12	33.6		50.5		170	0.04	0.53	<0.01	138	326	<0.1	2.8	0.028	5			
Meidahl	Ohio	436.2	08-Nov-12	101.2		33.1		129	<0.03	1	<0.01	76	224	<0.1	3.2	0.042	26		11.3	7.55
Meidahl	Ohio	436.2	07-Jan-13	73.3		28.1		103	<0.03	1.8	<0.01	66.5	186	<0.1	2.6	<0.01	10		7.6	5.9
Meidahl	Ohio	436.2	27-Mar-13	146.9		22.5		111	<0.03	0.8	<0.01	55.5	177	0.15	2.4	<0.01	32			
Meidahl	Ohio	436.2	30-May-13	45.6		20.4		114	<0.03	0.53	<0.01	64.8	186	0.65	2.1	0.022	5			
Meidahl	Ohio	436.2	23-Jul-13	128.0		19.5		120	<0.03	1	<0.01	54.1	182	<0.1	3.6	0.059	18			
Meidahl	Ohio	436.2	05-Sep-13	42.3		25.7		127	<0.03	0.65	<0.01	74.7	237	0.29	3.5	0.042	20			
Meidahl	Ohio	436.2	25-Nov-13	57.9		35.7		161	<0.03	0.88	<0.01	83.2	279	0.57	3.8	0.087	33		9.8	8.42
Meidahl	Ohio	436.2	14-Jan-14	221.4		23.5		111	<0.03	0.74	<0.01	36.4	234	0.33	3	0.069	88		5	9.21
Meidahl	Ohio	436.2	19-Mar-14	129.5	<0.5	34.1		136	0.066	0.87	<0.01	63.3	237	0.49	2.3	0.04	49			
Meidahl	Ohio	436.2	21-May-14	238.9	<0.5	24.3		144	<0.03	0.92	<0.01	45.8	198	0.5	3.2	0.11	72		18.4	6.43
Meidahl	Ohio	436.2	09-Jul-14	34.9	0.073	22.7		128	<0.03	1.69	<5	56.5	192	0.554	4.31	0.101	8		27.6	7.45
Meidahl	Ohio	436.2	24-Sep-14	21.8	0.102	25.6		131	<0.03	0.804	<5	77.8	268	0.644	3.36	0.087	7.67		<0	<0
Meidahl	Ohio	436.2	04-Nov-14	49.2	0.13	38.3		144	<0.03	1.03	<5	91.2	244	0.527	3.84	0.058	10.8			
Anderson Ferry	Ohio	477.5	12-Jan-10	47.0		36		120	0.11	1.09	<5	60		0.776	2.79	0.132	60.3			
Anderson Ferry	Ohio	477.5	23-Mar-10	190.9		28		104	0.07	1.01	<5	44		1.12	4.2	0.195	73			
Anderson Ferry	Ohio	477.5	20-May-10	216.4		22		120	0.04	0.659	<5	78		0.751	3.54	0.091	72			
Anderson Ferry	Ohio	477.5	13-Jul-10	23.4		30		152	0.12	0.939	<5	61.5		1.18	3.49	0.063	11.7			
Anderson Ferry	Ohio	477.5	20-Sep-10	18.1		48		172	0.03	0.779	<5	107		0.385	2.65	0.094	8.6			
Anderson Ferry	Ohio	477.5	09-Nov-10	36.2		62		188	0.06	0.885	<5	126		0.893	2.96	0.033	8.22			
Anderson Ferry	Ohio	477.5	18-Jan-11	43.1		36		124	0.15	0.937	<5	70.8		0.651	3.36	0.077	8.87			
Anderson Ferry	Ohio	477.5	08-Mar-11	368.8		26		96	0.07	1.15	<5	43		1.6	4.05	0.245	109			
Anderson Ferry	Ohio	477.5	24-May-11	241.9		22		120	<0.03	0.598	<5	50.8		0.951	2.98	0.184	76.6			

R - Indicates data redacted due to QA issues.

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Bromide (mg/L)	Cl (mg/L)	Ca (mg/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ +NO ₃ -N (mg/L)	Phenols (ug/L)	SO ₄ (mg/L)	TDS (mg/L)	TN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (Std. U)	SpCond (umhos/cm)
Markland	Ohio	531.5	12-Jan-10	49.2		32		128	0.08	1.09	<5	56		0.79	3.07	0.138	58.8			
Markland	Ohio	531.5	23-Mar-10	212.8		26		116	0.05	1.32	<5	42		1	4.16	0.159	57			
Markland	Ohio	531.5	26-May-10	136.4		36		112	0.04	1.04	<5	52		0.806	4.61	0.105	40.7			
Markland	Ohio	531.5	14-Jul-10	70.7		30		164	0.14	0.892	<5	59.5		0.649	3.71	0.088	12.8			
Markland	Ohio	531.5	20-Sep-10	18.5		50		176	<0.03	0.914	<5	86.2		0.308	2.51	0.068	7.33			
Markland	Ohio	531.5	09-Nov-10	37.1		58		180	0.08	0.823	<5	110		0.691	3.08	0.054	7.77			
Markland	Ohio	531.5	18-Jan-11	56.8		40		124	0.19	1.03	<5	65		0.638	2.91	0.066	6.8			
Markland	Ohio	531.5	08-Mar-11	408.9		24		84	0.06	1.34	<5	40.4		1.5	4.56	0.319	155			
Markland	Ohio	531.5	25-May-11	249.6		20		132	<0.03	0.747	<5	49.1		1.04	3.26	0.137	70			
Markland	Ohio	531.5	18-Jul-11	36.6		39.7		155	0.1	0.93	<5	87.5		0.42	3.1	0.062	2		31.4	7.6
Markland	Ohio	531.5	15-Sep-11	64.8		40.9		170	<0.03	0.9	<5	95.2		0.32	3.1	0.045	6		23.1	7.82
Markland	Ohio	531.5	25-Jan-12	269.4		26.1		118	0.7	1	R	49.2		0.44	2.6	0.13	64			
Markland	Ohio	531.5	07-Mar-12	335.7		18.3		99.7	<0.03	0.76	R	63.5		0.6	2.6	0.097	135		8.8	8.81
Markland	Ohio	531.5	17-May-12	154.7		17.9		116	<0.03	0.94	<0.01	71.5		0.28	3.2	0.058	27		19.2	8.87
Markland	Ohio	531.5	17-Jul-12	20.7		34.7		143	0.049	0.6	<0.01	96		0.47	3	0.042	6		30.7	7.87
Markland	Ohio	531.5	20-Sep-12	28.2		44.5		173	<0.03	0.68	<0.01	116		0.22	2.7	0.024	<5		24.4	8.17
Markland	Ohio	531.5	08-Nov-12	109.3		34.5		132	<0.03	0.97	<0.01	50.4		0.12	3.6	0.055	23		10.66	6.39
Markland	Ohio	531.5	10-Jan-13	71.0		35.6		119	<0.03	0.96	<0.01	65.5		<0.1	2.3	0.018	9		5.2	7.85
Markland	Ohio	531.5	26-Mar-13	154.4		26.6		126	<0.03	1	<0.01	52		0.71	3.1	0.08	57		4.9	7.81
Markland	Ohio	531.5	09-May-13	128.5		17.7		120	<0.03	0.77	<0.01	49.5		0.39	4.1	0.09	10		16.4	8.03
Markland	Ohio	531.5	17-Jul-13	133.0		13.2		103	<0.03	1.1	<0.01	69.4		0.45	4	0.063	28		26	7.77
Markland	Ohio	531.5	11-Sep-13	26.0	<0.1	27.1		127	<0.03	0.82	R	49.6		0.4	2.9	0.062	8		26.7	7.3
Markland	Ohio	531.5	13-Nov-13	51.6		44.9		172	<0.03	0.9	<0.01	81		0.41	2.9	0.023	16		12.8	8.54
Markland	Ohio	531.5	14-Jan-14	246.0		29.1		124	<0.03	0.97	<0.01	50.4		0.56	2.9	0.12	68		2.9	8.5
Markland	Ohio	531.5	11-Mar-14	128.9	<0.5	22.3		119	<0.03	1.1	0.006	57.5		0.49	2.9	0.053	11		4.9	8.13
Markland	Ohio	531.5	08-Jul-14	45.5	0.058	25.3		132	<0.03	1.48	<5	39.1		0.68	4.13	0.11	19		20.8	6.75
Markland	Ohio	531.5	10-Sep-14	39.3	0.095	33.3		158	<0.03	0.932	<5	82.2		0.66	3.07	0.075	7.49		<0	<0
Markland	Ohio	531.5	24-Nov-14	96.3	0.092	30		140	<0.03	0.822	<5	89.8		0.467	2.47	0.143	4.4		9	7.52
Louisville	Ohio	600.6	26-Jan-10	323.0		24		152	0.06	0.862	<5	49		1.04	6.35	0.269	161			
Louisville	Ohio	600.6	16-Mar-10	414.4		54		148	0.06	1.08	<5	64		0.78	4.58	0.208	73			
Louisville	Ohio	600.6	20-May-10	222.0		22		140	<0.03	1.04	<5	75		0.709	3.49	0.129	85.5			
Louisville	Ohio	600.6	22-Jul-10	137.1		44		172	<0.03	1.18	<5	73		0.69	3.46	0.134	19.4			
Louisville	Ohio	600.6	16-Sep-10	15.5		44		156	0.04	0.759	<5	89.6		0.574	3.12	0.074	13.2			
Louisville	Ohio	600.6	17-Nov-10	31.5		56		204	0.1	0.93	<5	114		0.501	3.73	0.033	9.6			
Louisville	Ohio	600.6	26-Jan-11	67.6		42		140	0.19	1.32	<5	68.5		0.496	2.75	0.082	8.7			
Louisville	Ohio	600.6	28-Mar-11	268.3		22		152	0.07	1.38	<5	55.1		0.793	2.48	0.109	47.6			
Louisville	Ohio	600.6	18-May-11	247.8		16		148	0.04	0.89	<5	54		0.922	2.54	0.168	172			
Louisville	Ohio	600.6	20-May-10			22		92	<0.03	1.03	<5	75		0.911	3.49	0.188	136			
McAlpine	Ohio	606.8	22-Jul-10			30		168	<0.03	1.17	<5	68.2		0.849	3.47	0.132	37.4		29.9	7.97
McAlpine	Ohio	606.8	16-Sep-10			44		160	0.04	0.741	<5	87.3		0.482	2.95	0.253	10.8		24.4	8.31
McAlpine	Ohio	606.8	17-Nov-10			58		184	0.07	0.938	<5	103		0.457	3.7	0.028	4.6			
McAlpine	Ohio	606.8	26-Jan-11			44		136	0.23	1.32	<5	63.4		0.623	2.8	0.102	6.91			
McAlpine	Ohio	606.8	28-Mar-11			24		112	0.04	1.03	<5	53.4		0.769	2.15	0.136	64.9			
McAlpine	Ohio	606.8	18-May-11			18		152	0.04	0.85	<5	53.5		0.892	2.92	0.181	146			
McAlpine	Ohio	606.8	18-Jul-11			30.5		137	<0.03	0.94	<5	71.3		0.77	3	0.048	<5		29.9	7.97
McAlpine	Ohio	606.8	15-Sep-11			44.9		143	<0.03	0.99	<5	102		0.11	2.85	0.045	15			
McAlpine	Ohio	606.8	21-Nov-11			19.5		146	0.03	0.91	<5	50.2		0.28	3.53	0.183	150			
McAlpine	Ohio	606.8	23-Jan-12			22		122	1.7	0.84	R	43.2		0.11	2.8	0.24	139			
McAlpine	Ohio	606.8	07-Mar-12			16.2		103	<0.03	0.74	R	56.5		0.87	2.8	0.13	247		10.6	8.5
McAlpine	Ohio	606.8	12-May-12			17.3		122	0.93	1.32	<0.01	69.5		0.37	3.5	0.079	46		19.6	8.22
McAlpine	Ohio	606.8	17-Jul-12			33.7		144	<0.03	0.75	<0.01	100		0.33	2.9	0.029	<5		30.2	7.8
McAlpine	Ohio	606.8	20-Sep-12			44.9		165	<0.03	0.82	<0.01	110		0.15	2.7	0.032	5		23.1	8.05
McAlpine	Ohio	606.8	08-Nov-12			41		143	<0.03	1.1	<0.01	95.2		<0.1	3.4	0.051	42		11.38	7.27
McAlpine	Ohio	606.8	10-Jan-13			23.6		123	<0.03	0.94	<0.01	63.8		0.1	2.4	<0.01	6		4.5	8.05
McAlpine	Ohio	606.8	26-Mar-13			24.6		124	<0.03	0.97	<0.01	52.1		0.91	2.8	0.092	88		6.4	7.4
McAlpine	Ohio	606.8	09-May-13			17.6		137	<0.03	0.95	<0.01	57.3		0.4	3.1	0.096	16		17.2	7.83
McAlpine	Ohio	606.8	17-Jul-13			15.4		116	<0.03	0.91	<0.01	20.4		0.42	3.7	0.075	14		26.2	7.73
McAlpine	Ohio	606.8	11-Sep-13		<0.1	31.1		137	<0.03	0.9	<0.01	72.7		0.38	2.7	0.042	7		27.2	7.56
McAlpine	Ohio	606.8	13-Nov-13			45.7		179	<0.03	1.2	<0.01	78.3		0.72	2.9	0.04	7		12.9	8.24
McAlpine	Ohio	606.8	14-Jan-14		<5	30.8		142	<0.03	0.97	<0.01	43.4		0.58	3.1	0.18	110		3.4	8.55

R - Indicates data redacted due to QA issues.

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Bromide (mg/L)	Cr (mg/L)	Cu (ug/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ -NO ₃ -N (mg/L)	Phenols (ug/L)	SO ₄ (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (Std U)	SpCond (umhos/cm)
McAlpine	Ohio	606.8	11-Mar-14			26.1		139	0.03	0.82	<0.01	55.4	195	0.42	2.1	0.072	83	4.8	7.21	334.9
McAlpine	Ohio	606.8	28-Mar-14		<0.5	20.9		126	<0.03	1	<0.01	43.5	197	0.55	2.8	0.091	38	21.8	7.05	328.3
McAlpine	Ohio	606.8	08-Jul-14		0.06	25.8		140	<0.03	1.77	<5	57.7	204	0.382	3.56	0.084	8	26.5	7.66	372.6
McAlpine	Ohio	606.8	10-Sep-14		0.083	27.1		150	<0.03	1.04	<5	75.6	272	0.691	3.31	0.113	6.86	<0	<0	<0
McAlpine	Ohio	606.8	24-Nov-14		0.081	32		140	<0.03	0.942	<5	92.2	244	0.479	2.52	0.094	7.6	10.1	6.58	381
West Point	Ohio	625.9	26-Jan-10	323.0		26		132	0.07	0.939	<5	54		0.921	5.98	0.208	129			
West Point	Ohio	625.9	16-Mar-10	414.4		60		172	0.08	1.14	<5	72		1.19	5.98	0.39	169			
West Point	Ohio	625.9	16-Mar-10	414.4		60		172	0.08	1.14	<5	72		1.19	5.98	0.39	169			
West Point	Ohio	625.9	20-May-10	222.0		28		172	0.04	1.01	<5	84		1.05	3.72	0.349	226			
West Point	Ohio	625.9	22-Jul-10	137.1		34		176	0.07	1.25	<5	73.2		0.98	3.6	0.145	46.1			
West Point	Ohio	625.9	16-Sep-10	15.5		50		248	0.04	0.947	<5	135		0.43	3.54	0.051	6.8			
West Point	Ohio	625.9	17-Nov-10	31.5		62		220	0.27	1.04	<5	178		0.93	3.7	0.093	7.4			
West Point	Ohio	625.9	26-Jan-11	67.6		48		172	0.42	1.38	<5	88.2		1	3.16	0.14	14.7			
West Point	Ohio	625.9	18-Mar-11	268.3		24		112	0.05	1.05	<5	52.9		0.833	2.23	0.122	44.9			
West Point	Ohio	625.9	18-Mar-11	267.8		18		164	0.08	0.807	<5	54.8		1.27	3.76	0.307	234			
West Point	Ohio	625.9	12-Jan-10	59.6		22		116	0.06	1.08	<5	56		0.409	2.75	0.076	10.2			
West Point	Ohio	625.9	24-Mar-10	234.7		24		112	0.03	1.11	<5	47		0.954	5.08	0.239	108			
West Point	Ohio	625.9	11-May-10	145.6		14		116	<0.03	0.674	<5	44		0.679	5.26	0.135	35.5			
West Point	Ohio	625.9	13-Jul-10	23.1		26		164	0.05	1.38	<5	58		0.708	3.74	0.059	6.91			
West Point	Ohio	625.9	07-Sep-10	14.8		32		160	<0.03	0.646	<5	83.8		0.788	3.76	0.046	8.52			
West Point	Ohio	625.9	02-Nov-10	32.7		52		200	<0.03	1.02	<5	113		0.474	3.13	0.063	7.78			
West Point	Ohio	625.9	26-Jan-11	51.2		50		132	0.16	1.31	<5	58.8		0.657	2.54	0.086	10			
West Point	Ohio	625.9	30-Mar-11	256.7		20		116	0.04	0.969	<5	52		0.511	2.38	0.128	61.2			
West Point	Ohio	625.9	24-May-11	317.9		20		140	<0.03	0.819	<5	60.6		0.83	2.3	0.163	96.6			
West Point	Ohio	625.9	12-Jul-11	61.5		23.8		131	0.03	1.6	<5	48		0.22	3.31	0.067	10			
West Point	Ohio	625.9	29-Sep-11	92.3		40.4		172	<0.03	1.2	<5	81.9		0.27	2.94	0.042	10			
West Point	Ohio	625.9	16-Nov-11	75.1		21		133	0.06	1.1	R	46.1		0.26	3.76	0.072	11			
West Point	Ohio	625.9	09-Jan-12	134.1		16.4		132	0.11	0.96	R	47		0.13	2.3	0.054	26			
West Point	Ohio	625.9	14-Mar-12	243.5		17.4		110	<0.03	0.84	R	64		0.37	2.5	0.092	75			
West Point	Ohio	625.9	31-May-12	57.1		20.1		130	<0.03	0.98	<0.01	83.5		<0.1	2.2	0.017	<5			
West Point	Ohio	625.9	10-Jul-12	21.4		27.5		128	0.14	0.71	<0.01	79.5		0.41	2.8	0.031	<5			
West Point	Ohio	625.9	12-Sep-12	33.8		43.1		157	<0.03	1	<0.01	84		<0.1	2.9	0.018	6			
West Point	Ohio	625.9	14-Nov-12	67.9		35.8		145	<0.03	1.1	<0.01	102		0.14	3.6	<0.01	10			
West Point	Ohio	625.9	29-Jan-13			19.5		109	<0.03	1	<0.01	54.8		<0.1	2.7	0.059	13			
West Point	Ohio	625.9	26-Mar-13	197.1		26.3		119	<0.03	0.97	<0.01	46.1		0.53	3.1	0.11	95			
West Point	Ohio	625.9	07-May-13	172.1		19.3		137	<0.03	1.1	<0.01	58		0.38	2.9	0.071	28			
West Point	Ohio	625.9	16-Jul-13	245.2		15.2		109	<0.03	1.2	<0.01	19.1		0.56	3.3	0.12	78			
West Point	Ohio	625.9	24-Sep-13	54.5	<0.1	30.9		141	<0.03	0.95	<0.01	71.7		0.47	3.1	0.05	11			
West Point	Ohio	625.9	19-Nov-13	188.4	0.12	38.5		170	<0.03	1.1	<0.01	65.6		0.48	3.5	0.084	38			
West Point	Ohio	625.9	20-Jan-14	230.9	<5	28.8		123	<0.03	0.94	<0.01	56.6		0.54	2.6	0.072	68			
West Point	Ohio	625.9	18-Mar-14	187.3	<0.5	29.7		129	0.032	0.88	<0.01	47.4		0.61	2.2	0.069	64			
West Point	Ohio	625.9	28-May-14	135.8	<0.5	31.9		136	<0.03	1.37	<5	44.8		0.36	2.9	0.089	28			
West Point	Ohio	625.9	23-Jul-14	43.7	0.061	30		155	<0.03	1.37	<5	61.7		0.649	3.55	0.071	5			
West Point	Ohio	625.9	17-Sep-14	41.1	0.079	26.7		150	0.04	1.21	<5	71		0.54	3.72	0.132	7.2			
West Point	Ohio	625.9	18-Nov-14	44.9	0.093	32.5		152	<0.03	0.977	<5	89.2		0.444	2.62	0.071	4.4			
West Point	Ohio	625.9	28-Jan-10			22		136	0.07	1.04	<5	52		0.4	4.46	0.408	211			
West Point	Ohio	625.9	04-Mar-10	132.9		32		148	0.08	0.969	<5	69		0.604	2.43	0.105	37.1			
West Point	Ohio	625.9	06-May-10	441.7		22		152	<0.03	0.666	<5	54		1.16	5.52	0.614	234			
West Point	Ohio	625.9	08-Jul-10	29.7		24		160	<0.03	1.2	<5	62		1.39	5.25	0.1	12.7			
West Point	Ohio	625.9	15-Sep-10	18.7		40		160	<0.03	0.637	<5	85.6		0.443	2.95	0.073	11.2			
West Point	Ohio	625.9	04-Nov-10	31.9		54		156	0.04	1.05	<5	110		0.249	3.15	0.056	5.88			
West Point	Ohio	625.9	06-Jan-11	192.3		34		144	0.08	1.2	<5	64.4		1.01	4.15	0.182	93.3			
West Point	Ohio	625.9	10-Mar-11	572.9		28		116	0.05	1.44	<5	49.8		0.821	3.79	0.283	67.3			
West Point	Ohio	625.9	12-May-11	445.7		16		132	<0.03	0.882	<5	50.4		0.516	4.47	0.162	68.4			
West Point	Ohio	625.9	14-Jul-11	102.0		23.4		140	0.03	1.7	<5	61		0.75	3.41	0.077	74			
West Point	Ohio	625.9	08-Sep-11	168.3		36.6		181	<0.03	0.83	<5	78.2		0.307	3.08	0.028	21			
West Point	Ohio	625.9	05-Nov-11	168.3		24.4		153	0.04	1.4	<5	58.8		0.11	3.87	0.09	46			
West Point	Ohio	625.9	05-Jan-12	264.1		16		121	0.16	1	R	47.2		0.32	2.8	0.081	76			
West Point	Ohio	625.9	11-Mar-12	164.8		27.4		155	<0.03	1	R	95		0.18	2	0.038	26			
West Point	Ohio	625.9	03-May-12	193.3		28.3		152	<0.03	0.73	<0.01	98.5		0.24	1.9	0.07	42			
West Point	Ohio	625.9	12-Jul-12	25.4		26.2		133	<0.03	0.73	<0.01	77		0.26	2.7	0.022	7			
West Point	Ohio	625.9	05-Sep-12	21.5		40		149	0.11	0.82	<0.01	89		0.21	2.8	0.01	5			
West Point	Ohio	625.9	01-Nov-12	85.0		51.3		191	<0.03	1.1	<0.01	134		<0.1	2.7	0.053	30			

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Bromide (mg/L)	Cl ⁻ (mg/L)	Ca (ug/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ -NO ₃ -N (mg/L)	Phenols (ug/L)	SO ₄ (mg/L)	TDS (mg/L)	TN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (Std.)	SpCond (umhos/cm)
Newburgh	Ohio	776	29-Jan-13	296.6		19.8		114	<0.03	1.1	<0.01	57.1	166	<0.1	2.7	0.088	19	5.6		288.1
Newburgh	Ohio	776	26-Mar-13	296.6		24.8		124	<0.03	0.98	<0.01	53.5	216	0.7	3.2	0.15	150	7.2	9.11	336.5
Newburgh	Ohio	776	07-May-13	199.5		17.1		126	<0.03	1.1	<0.01	64	203	0.51	3.5	0.11	57	17.1	7.67	317.9
Newburgh	Ohio	776	11-Jul-13	314.8		13.2		123	<0.03	1.2	<0.01	49.4	366	0.94	4.3	0.26	143			
Newburgh	Ohio	776	25-Sep-13	66.6	<0.1	28.9		137	0.088	0.98	<0.01	74.7	245	0.66	2.7	0.063	17	25.7	8.18	467.7
Newburgh	Ohio	776	19-Nov-13	194.5	0.11	40.3		175	<0.03	1.1	<0.01	71.6	274	0.59	4.2	0.21	103	11.9	8.41	467.7
Newburgh	Ohio	776	20-Jan-14	304.1	<5	29.6		129	<0.03	0.97		61.2	210	0.59	2.6	0.063	79	6.5	8.66	398.6
Newburgh	Ohio	776	18-Mar-14	216.2	<0.5	41.4		141	0.032	0.94	<0.01	52	194	0.49	2.1	0.057	51			
Newburgh	Ohio	776	28-May-14	153.9	<0.5	23.7		139	<0.03	1.3	<0.01	53.3	205	0.45	2.9	0.12	71	21.2	7.5	365.5
Newburgh	Ohio	776	23-Jul-14	45.9	0.057	26		152	<0.03	1.47	<5	63.7	272	0.585	3.65	0.075	6.29	26.9	7.44	893
Newburgh	Ohio	776	17-Sep-14	42.9	0.083	30		160	<0.03	1.14	<5	88.2	264	0.667	3.3	0.188	6	25.1	7.89	381.6
Newburgh	Ohio	776	18-Nov-14	51.2	0.082	33.7		148	<0.03	1.13	<5	84.2	300	0.369	2.9	0.061	2.75	9.8	8.33	376.9
J.T. Myers	Ohio	846	28-Jan-10			24		128	0.05	0.978	<5	57		0.89	5.13	0.304	163	3	7.8	400
J.T. Myers	Ohio	846	04-Mar-10	182.1		32		140	0.07	0.977	<5	62		0.727	3.51	0.127	36.8	2	8.2	390
J.T. Myers	Ohio	846	06-May-10	460.2		18		152	<0.03	0.679	<5	55		1.23	5.48	0.546	267	20		360
J.T. Myers	Ohio	846	08-Jul-10	104.0		22		152	0.07	1.13	<5	62		0.789	3.74	0.046	6.82	29	8.5	410
J.T. Myers	Ohio	846	16-Sep-10	26.0		32		140	<0.03	0.885	<5	60.2		1	3.3	0.444	11	25	8.6	410
J.T. Myers	Ohio	846	03-Nov-10	39.0		48		200	<0.03	1.06	<5	117		0.412	3.16	0.058	8.2	14	8.2	620
J.T. Myers	Ohio	846	06-Jan-11	221.0		32		128	0.1	1.11	<5	59.4		0.871	4.78	0.133	65.2	2	8	380
J.T. Myers	Ohio	846	05-Jan-12	363.8		15.4		115	0.036	1	R	85.5	219	0.21	1.9	0.056	23	10	7	255
J.T. Myers	Ohio	846	01-Mar-12	192.9		25.6		144	<0.03	0.78	<0.01	84.5	235	0.34	2.9	0.056	45			
J.T. Myers	Ohio	846	03-May-12	209.4		27.6		149	<0.03	0.7	<0.01	83	213	0.32	2.9	0.029	<5	30	7.8	430
J.T. Myers	Ohio	846	12-Jul-12	25.3		28.1		136	0.12	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	05-Sep-12	77.4		40.2		146	<0.03	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	14-Jul-11	149.2		20.2		126	0.03	1.6	<5	50.3	200	<0.1	3.52	0.1	25	30	7.6	405
J.T. Myers	Ohio	846	08-Sep-11	37.0		36.5		194	0.04	0.73	<5	56.7	370	0.15	3.05	0.022	22	24	8.4	530
J.T. Myers	Ohio	846	03-Nov-11	186.5		23.3		149	0.03	1.4	<5	56.7	240	0.16	3.69	0.101	78	13	7.9	296
J.T. Myers	Ohio	846	05-Jan-12	363.8		15.4		115	0.036	1	R	85.5	219	0.21	1.9	0.056	23	10	7	255
J.T. Myers	Ohio	846	01-Mar-12	192.9		25.6		144	<0.03	0.78	<0.01	84.5	235	0.34	2.9	0.056	45			
J.T. Myers	Ohio	846	03-May-12	209.4		27.6		149	<0.03	0.7	<0.01	83	213	0.32	2.9	0.029	<5	30	7.8	430
J.T. Myers	Ohio	846	12-Jul-12	25.3		28.1		136	0.12	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	05-Sep-12	77.4		40.2		146	<0.03	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	14-Jul-11	149.2		20.2		126	0.03	1.6	<5	50.3	200	<0.1	3.52	0.1	25	30	7.6	405
J.T. Myers	Ohio	846	08-Sep-11	37.0		36.5		194	0.04	0.73	<5	56.7	370	0.15	3.05	0.022	22	24	8.4	530
J.T. Myers	Ohio	846	03-Nov-11	186.5		23.3		149	0.03	1.4	<5	56.7	240	0.16	3.69	0.101	78	13	7.9	296
J.T. Myers	Ohio	846	05-Jan-12	363.8		15.4		115	0.036	1	R	85.5	219	0.21	1.9	0.056	23	10	7	255
J.T. Myers	Ohio	846	01-Mar-12	192.9		25.6		144	<0.03	0.78	<0.01	84.5	235	0.34	2.9	0.056	45			
J.T. Myers	Ohio	846	03-May-12	209.4		27.6		149	<0.03	0.7	<0.01	83	213	0.32	2.9	0.029	<5	30	7.8	430
J.T. Myers	Ohio	846	12-Jul-12	25.3		28.1		136	0.12	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	05-Sep-12	77.4		40.2		146	<0.03	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	14-Jul-11	149.2		20.2		126	0.03	1.6	<5	50.3	200	<0.1	3.52	0.1	25	30	7.6	405
J.T. Myers	Ohio	846	08-Sep-11	37.0		36.5		194	0.04	0.73	<5	56.7	370	0.15	3.05	0.022	22	24	8.4	530
J.T. Myers	Ohio	846	03-Nov-11	186.5		23.3		149	0.03	1.4	<5	56.7	240	0.16	3.69	0.101	78	13	7.9	296
J.T. Myers	Ohio	846	05-Jan-12	363.8		15.4		115	0.036	1	R	85.5	219	0.21	1.9	0.056	23	10	7	255
J.T. Myers	Ohio	846	01-Mar-12	192.9		25.6		144	<0.03	0.78	<0.01	84.5	235	0.34	2.9	0.056	45			
J.T. Myers	Ohio	846	03-May-12	209.4		27.6		149	<0.03	0.7	<0.01	83	213	0.32	2.9	0.029	<5	30	7.8	430
J.T. Myers	Ohio	846	12-Jul-12	25.3		28.1		136	0.12	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	05-Sep-12	77.4		40.2		146	<0.03	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	14-Jul-11	149.2		20.2		126	0.03	1.6	<5	50.3	200	<0.1	3.52	0.1	25	30	7.6	405
J.T. Myers	Ohio	846	08-Sep-11	37.0		36.5		194	0.04	0.73	<5	56.7	370	0.15	3.05	0.022	22	24	8.4	530
J.T. Myers	Ohio	846	03-Nov-11	186.5		23.3		149	0.03	1.4	<5	56.7	240	0.16	3.69	0.101	78	13	7.9	296
J.T. Myers	Ohio	846	05-Jan-12	363.8		15.4		115	0.036	1	R	85.5	219	0.21	1.9	0.056	23	10	7	255
J.T. Myers	Ohio	846	01-Mar-12	192.9		25.6		144	<0.03	0.78	<0.01	84.5	235	0.34	2.9	0.056	45			
J.T. Myers	Ohio	846	03-May-12	209.4		27.6		149	<0.03	0.7	<0.01	83	213	0.32	2.9	0.029	<5	30	7.8	430
J.T. Myers	Ohio	846	12-Jul-12	25.3		28.1		136	0.12	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	05-Sep-12	77.4		40.2		146	<0.03	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	14-Jul-11	149.2		20.2		126	0.03	1.6	<5	50.3	200	<0.1	3.52	0.1	25	30	7.6	405
J.T. Myers	Ohio	846	08-Sep-11	37.0		36.5		194	0.04	0.73	<5	56.7	370	0.15	3.05	0.022	22	24	8.4	530
J.T. Myers	Ohio	846	03-Nov-11	186.5		23.3		149	0.03	1.4	<5	56.7	240	0.16	3.69	0.101	78	13	7.9	296
J.T. Myers	Ohio	846	05-Jan-12	363.8		15.4		115	0.036	1	R	85.5	219	0.21	1.9	0.056	23	10	7	255
J.T. Myers	Ohio	846	01-Mar-12	192.9		25.6		144	<0.03	0.78	<0.01	84.5	235	0.34	2.9	0.056	45			
J.T. Myers	Ohio	846	03-May-12	209.4		27.6		149	<0.03	0.7	<0.01	83	213	0.32	2.9	0.029	<5	30	7.8	430
J.T. Myers	Ohio	846	12-Jul-12	25.3		28.1		136	0.12	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	05-Sep-12	77.4		40.2		146	<0.03	0.58	<0.01	89.5	258	0.17	2.7	<0.01	5			
J.T. Myers	Ohio	846	14-Jul-11	149.2		20.2		126	0.03	1.6	<5	50.3	200	<0.1	3.52	0.1	25	30	7.6	405
J.T. Myers	Ohio	846	08-Sep-11	37.0		36.5		194	0.04	0.73	<5	56.7	370	0.15	3.05	0.022	22	24	8.4	530
J.T. Myers	Ohio	846	03-Nov-11	186.5		23.3		149	0.03	1.4	<5	56.7	240	0.16	3.69	0.101	78	13	7.9	296
J.T. Myers	Ohio	846	05-Jan-12	363.8		15.4		115	0.036	1	R	85.5	219	0.21	1.9	0.056	23	10	7	255
J.T. Myers	Ohio	846	01-Mar-12	192.9		25.6		144	<0.03	0.78	<0.01	84.5	235	0.34	2.9	0.056	45			
J.T. Myers	Ohio	846	03-May-12	209.4		27.6		149	<0.03	0.7	<0.01	83	213	0.32	2.9	0.029	<5	30	7.8	430
J.T. Myers	Ohio	846	12-Jul-12	25.3		28.1		136	0.12	0.58	<0.01	89.5								

Appendix B. Ohio River Bimonthly Monitoring Data, January 2010 through December, 2014

Bimonthly Station	River	Confluence Mile Point	Date	Flow	Bromide (mg/L)	Cl ⁻ (mg/L)	Ca (ug/L)	Hardness (mg/L)	NH ₃ -N (mg/L)	NO ₂ -NO ₃ -N (mg/L)	Phenols (ug/L)	SO ₄ (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	Temp (Deg C)	pH (std.u)	SpCond (umhos/cm)
Smithland	Ohio	918.5	08-Mar-13	335.1		17.9		157	0.15	2.6	<0.01	49.4	222	1.1	4.5	0.15	46	16.7	7.81	353
Smithland	Ohio	918.5	23-Jul-13	124.9		17.9		148	<0.03	1.4	<0.01	56.1	213	0.33	3.4	0.067	12	28.24	6.27	350
Smithland	Ohio	918.5	19-Sep-13			32.4		170	<0.03	0.61	<0.01	86.5	275	0.5	3.5	0.019	6			
Smithland	Ohio	918.5	20-Nov-13	208.8	<0.1	32.4		160	<0.03	0.95	<0.01	45.8	283	0.49	3.7	0.18	40	11.4	8.48	410.1
Smithland	Ohio	918.5	21-Jan-14	403.1	<5	26.5		143	<0.03	1.3	<0.01	44.7	231	0.72	3	0.12	113	2.7	8.23	257.2
Smithland	Ohio	918.5	13-Mar-14	281.0	<0.5	27.6		161	<0.03	1.3	<0.01	49.5	233	1.8	3	0.18	202	8.6	35.4	
Smithland	Ohio	918.5	29-May-14	232.0	<0.5	23.2		150	<0.03	1.9	<0.01	46	222	0.59	3.2	0.12	61	21.5	7.51	363.9
Smithland	Ohio	918.5	17-Jul-14	78.0	0.058	30.7		188	0.11	1.47	<5	72.3	344	0.715	2.92	0.069	5.2	27.55	7.81	466
Smithland	Ohio	918.5	16-Sep-14	74.7	0.082	34		177	0.06	0.931	<5	82.2	288	0.603	3.93	0.101	11.6	<0		
Smithland	Ohio	918.5	13-Nov-14	64.6	0.077	26.7		164	<0.03	1.22	<5	78.5	296	0.39	2.82	0.052	1.4	8.5	8.01	399.9
Smithland	Ohio	938.9	12-Jan-10			24		160	0.07	1.56	<5	58		0.715	4.1	0.146	42.2			
Smithland	Ohio	938.9	25-Mar-10			28		148	0.04	1.75	<5	56		0.924	6	1.32	92			
Smithland	Ohio	938.9	12-May-10			18		132	<0.03	0.905	<5	46		0.787	6.01	0.266	74.8			
Smithland	Ohio	938.9	14-Jul-10			22		180	0.06	0.998	<5	38.2		1.04	3.64	0.095	24.7			
Smithland	Ohio	938.9	08-Sep-10			20		144	<0.03	0.435	<5	61.4		1.22	4.22	0.079	19			
Smithland	Ohio	938.9	03-Nov-10	281.0		30		140	0.05	0.455	<5	54.6		0.824	3.04	0.075	11			
Smithland	Ohio	938.9	27-Jan-11			38		152	0.1	1.62	<5	73.2		0.553	2.54	0.099	15.8			
Smithland	Ohio	938.9	16-Mar-11			20		104	0.07	1.63	<5	34.9		1.08	4.93	0.192	14.4			
Smithland	Ohio	938.9	23-Jul-11			14		144	0.09	0.848	<5	42		1.83	5.45	0.287	77			
Smithland	Ohio	938.9	28-Sep-11			38		178	0.05	0.92	<5	29.9	150	0.55	3.43	0.13	30	30.5	8.27	361.8
Smithland	Ohio	938.9	17-Nov-11			23.8		151	0.03	1.3	R	49.6	220	0.3	4.06	0.119	68	20.8	8.41	537
Smithland	Ohio	938.9	30-Mar-12			20.1		131	<0.03	1.1	R	67.2	223	0.29	3.5	0.11	67	10.5	8.55	230.4
Smithland	Ohio	938.9	10-Jan-12			19.4		128	<0.03	0.86	<0.01	53	198	0.64	2.8	0.097	11.8	11.2	7.79	315.8
Smithland	Ohio	938.9	13-May-12			19.1		98.3	<0.03	0.23	<0.01	45	139	0.16	2.4	0.051	8	26.1	8.56	328.9
Smithland	Ohio	938.9	11-Jul-12			38.3		154	<0.03	0.57	<0.01	89.5	260	<0.1	3	0.038	8	27.2	7.77	475.4
Smithland	Ohio	938.9	12-Sep-12			45.7		178	<0.03	1.2	<0.01	110	336	<0.1	2.9	0.012	19			
Smithland	Ohio	938.9	15-Nov-12			17.1		126	<0.03	1.5	<0.01	68.6	154	<0.1	4.7	0.46	199	5.9		
Smithland	Ohio	938.9	30-Jan-13			23.7		125	<0.03	1.4	<0.01	41	240	0.53	4.7	0.18	103	5.2	5.04	290.7
Smithland	Ohio	938.9	27-Mar-13			16.9		154	<0.03	2.5	R	47.5	224	1.1	4.3	0.14	62	18.4	8.24	386.7
Smithland	Ohio	938.9	09-May-13			16.7		137	<0.03	1.2	<0.01	46.6	194	0.63	3.9	0.14	50	28.7	7.62	325.8
Smithland	Ohio	938.9	23-Jul-13			31.5		169	<0.03	0.6	<0.01	92.5	298	0.68	3.1	0.044	14			
Smithland	Ohio	938.9	24-Sep-13			32.1		161	<0.03	0.93	<0.01	51.9	268	0.59	3.8	0.21	96	10.1	8.69	414.8
Smithland	Ohio	938.9	20-Nov-13		<5	36.4		144	0.15	1.4	<0.01	43.9	272	0.68	3.2	0.17	133	3	8.69	181.4
Smithland	Ohio	938.9	21-Jan-14		<0.5	27.1		153	0.062	1.3	<0.01	47.2	248	0.62	2.9	0.1	84	7.5		
Smithland	Ohio	938.9	29-Mar-14		<0.5	21.7		152	<0.03	1.9	<0.01	43.9	231	0.68	3.2	0.15	107	21.6	7.62	334.3
Smithland	Ohio	938.9	17-Jul-14		0.061	30		184	0.12	1.66	<5	70.5	320	0.599	2.91	0.101	11.2	27.1	7.98	463
Smithland	Ohio	938.9	17-Sep-14		0.07	28.7		154	0.04	0.795	<5	69	256	0.684	3.58	0.193	11.7	23.8	7.72	350.4
Smithland	Ohio	938.9	19-Nov-14		0.076	27.5		164	<0.03	1.13	<5	71.5	252	0.503	2.79	0.071	8.6	8.1	8.2	386.6

Appendix B - Total Recoverable Metals Results, January 2010 through December 2014

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (ug/L)	Cd (ug/L)	Co (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
New Cumberland	54.4	18-Jan-10	<0.1	116	0.35	52.3		34.8	<0.1	0.92	1.61	2.15	386	1.98		9.4	135	3.66	0.32	<0.5	0.58	<0.1	6.5
New Cumberland	54.4	18-Jan-10	<0.1	563	0.66	43.7		19.8	<0.1	1.61	2.15	2.98	1260	5.11	1.6	5.3	175	3.99	1.46	<0.5	<0.5	<0.1	10.8
New Cumberland	54.4	12-May-10	<0.1	147	0.48	45.3		29.9	<0.1	1.15	1.33	2.98	302	1.82		7.7	74	3.18	0.48	<0.5	0.75	<0.1	3.9
New Cumberland	54.4	20-Jul-10	<0.1	78	0.85	70.8		44.7	<0.1	1.33	1.33	5.77	151	<1.5		12.2	68	2.11	0.38	<0.5	0.93	0.14	5.0
New Cumberland	54.4	23-Sep-10	<0.1	98	0.89	91.8		49.0	<0.1	1.37	1.37	7.24	189	<1.5		11.5	51	2.96	0.36	<0.5	1.56	<0.1	6.2
New Cumberland	54.4	02-Nov-10	<0.1	73	0.52	57.2		38.1	<0.1	1.55	5.12	38.1	152	<1.5		10.3	26	3.01	0.39	<0.5	<0.1	1.0	5.0
New Cumberland	54.4	18-Jan-11	<0.1	158	0.33	52.2		25.9	<0.1	1.68	2.43	398	1.74			6.8	93	3.24	0.32	<0.5	0.67	<0.1	6.4
New Cumberland	54.4	21-Mar-11	<0.1	512	0.43	44.3		23.1	<0.1	1.08	2.39	1092	3.15			7.5	81	3.93	0.77	<0.5	0.57	<0.1	5.2
New Cumberland	54.4	26-May-11	<0.1	260	0.74	40.1		26.4	<0.1	0.84	2.72	554	2.94			11.8	26	3.01	0.3	<0.5	0.94	<0.1	4.8
New Cumberland	54.4	21-Jul-11	<0.1	76	1.79	54.2		41.9	<0.1	1.63	1.63	7.1	114	<1.5		10.7	119	3.82	2.19	<0.5	<0.5	<0.1	13.2
New Cumberland	54.4	08-Sep-11	<0.1	588	0.8	55.2		38.8	<0.1	1.63	4.51	1138	7.12			8.5	96	4.11	0.64	<0.5	0.69	<0.1	5.8
New Cumberland	54.4	16-Nov-11	<0.1	191	0.9	40.7		30.2	<0.1	0.96	1.51	2.7	470	1.63		7.2	112	4.05	0.28	<0.5	<0.5	<0.1	6.5
New Cumberland	54.4	09-Jan-12	<0.1	210	0.7	35.2		25.8	<0.1	0.97	2.02	1090	4.29			5.9	62	3.54	0.99	<0.5	<0.5	<0.1	10.6
New Cumberland	54.4	08-Mar-12	<0.1	592	0.77	36.9		21.2	<0.1	1.37	3.77	553	2.1			6.2	58	2.86	0.73	<0.5	<0.5	<0.1	6.7
New Cumberland	54.4	15-May-12	<0.1	399	0.56	37.2		21.5	<0.1	1.37	6.24	236	<1.5			10.6	58	2.75	0.53	<0.5	1.05	<0.1	5.9
New Cumberland	54.4	23-Jul-12	<0.1	151	0.95	50.8		34.7	<0.1	0.42	2.49	218	<1.5			45	45	2.42	0.5	<0.5	<0.5	<0.1	5.1
New Cumberland	54.4	19-Sep-12	<0.1	123	0.82	50.4		23.9	<0.1	0.29	2.57	264	<1.5			7.8	110	3.77	0.37	<0.5	0.58	<0.1	6.8
New Cumberland	54.4	20-Nov-12	<0.1	107	0.49	34.4		29.6	<0.1	0.56	2.4	381	<1.5			6.6	96	3.61	0.63	<0.5	0.63	<0.1	7.9
New Cumberland	54.4	09-Jan-13	<0.1	164	0.81	36.4		25.5	<0.1	0.51	1.6	537	1.53			8.4	49	2.39	0.38	<0.5	0.71	<0.1	5.4
New Cumberland	54.4	14-May-13	<0.1	268	0.73	34.6		29.3	<0.1	0.6	3.35	224	<1.5			6.6	53	2.41	0.93	<0.5	0.71	<0.1	5.4
New Cumberland	54.4	15-Jul-13	<0.1	214	0.91	39.6		27.1	<0.1	0.88	3.6	508	1.79			7.0	49	2.16	0.43	<0.5	0.62	<0.1	5.3
New Cumberland	54.4	11-Sep-13	<0.1	144	0.99	38.5		26.0	<0.1	0.7	3.45	265	<1.5			6.6	34	1.72	0.37	<0.5	<0.5	<0.1	3.5
New Cumberland	54.4	14-Nov-13	<0.1	114	0.69	35.2		26.5	<0.1	0.5	3.45	265	<1.5			7.3	176	6.03	3.11	0.27	1.75	0.15	14.2
New Cumberland	54.4	13-Jan-14	0.13	656	2.13	44.7		27.2	<0.1	1.29	2.57	4.33	1490	8.2		8.3	66	2.28	<1	<0.1	<1	<0.1	4.3
New Cumberland	54.4	31-Mar-14	<0.1	354	<1	36.4		27.1	<1	<1	1.96	502	<5			7.8	123	3.34	<1	<0.1	<1	<0.1	6.6
New Cumberland	54.4	14-May-14	<0.1	179	<1	38.9		30.0	<1	<1	2.15	367	<5			8.1	48	1.92	<1	<0.1	<1	<0.1	3.7
New Cumberland	54.4	29-Jul-14	<0.1	153	1.42	44.7		31.1	<1	<1	3.84	315	2.8			8.9	89	2	<1	0.15	1.02	<0.1	5.9
New Cumberland	54.4	19-Nov-14	<0.1	78	<1	37.5		28.0	<1	<1	2.7	228	<1.5			7.4	54	1.85	<1	<0.1	<1	<0.1	3.6
New Cumberland	54.4	18-Jan-10	<0.1	457	0.59	56.5		32.0	<0.1	1.48	2.45	1029	4.75			10.2	187	4.4	1.24	<0.5	0.65	<0.1	10.0
Pike Island	84.2	12-May-10	<0.1	157	0.43	47.2		32.7	<0.1	0.5	4.37	5.09	332	<1.5		8.6	61	3.26	0.59	<0.5	0.64	<0.1	4.3
Pike Island	84.2	20-Jul-10	<0.1	75	0.84	67.3		49.2	<0.1	1.23	3.46	158	9.33			14.1	38	2.12	0.39	<0.5	1.04	0.14	2.8
Pike Island	84.2	23-Sep-10	<0.1	136	1.02	89.4		43.3	<0.1	1.66	3.83	262	4.01			12.3	58	3.2	0.5	<0.5	1.81	<0.1	2.6
Pike Island	84.2	02-Nov-10	<0.1	101	0.66	61.4		41.3	<0.1	2.06	3.27	192	2.02			10.9	35	3.18	0.62	<0.5	1.23	0.11	4.2
Pike Island	84.2	18-Jan-11	<0.1	235	0.24	48.4		25.6	<0.1	2.06	1.93	527	1.63			6.6	111	3.7	0.48	<0.5	0.7	<0.1	7.1
Pike Island	84.2	21-Mar-11	<0.1	581	0.37	47.0		24.6	<0.1	1.19	2.05	1270	3.64			7.0	103	4.44	1.18	<0.5	0.54	<0.1	10.9
Pike Island	84.2	26-May-11	<0.1	355	0.38	43.1		26.2	<0.1	0.96	2.44	781	3.15			12.3	24	3.03	0.26	<0.5	1.27	<0.1	6.4
Pike Island	84.2	21-Jul-11	<0.1	75	2.22	56.9		42.4	<0.1	1.72	3.9	97	<1.5			10.5	153	4.5	2.56	<0.5	0.75	<0.1	19.1
Pike Island	84.2	08-Sep-11	<0.1	591	1.06	55.6		38.1	<0.1	1.83	4.18	1183	8.01			8.1	138	4.98	1.34	<0.5	0.77	<0.1	9.4
Pike Island	84.2	16-Nov-11	<0.1	388	0.95	44.0		30.9	<0.1	1.42	2.57	948	3.57			7.3	124	4.38	0.58	<0.5	0.57	<0.1	9.3
Pike Island	84.2	09-Jan-12	<0.1	307	0.73	37.2		27.1	<0.1	1.16	1.64	669	2.68			5.4	101	3.39	0.92	<0.5	<0.5	<0.1	8.5
Pike Island	84.2	08-Mar-12	<0.1	572	0.79	35.5		21.5	<0.1	1.34	1.76	1020	4.71			5.9	42	2.3	0.5	<0.5	0.56	<0.1	3.7
Pike Island	84.2	15-May-12	<0.1	312	0.56	36.2		21.8	<0.1	1.1	1.75	394	2.29			11.0	36	2.56	0.3	<0.5	1.05	<0.1	3.8
Pike Island	84.2	23-Jul-12	<0.1	130	1.17	48.5		36.6	<0.1	0.45	3.53	166	<1.5			10.6	44	2.74	0.52	<0.5	1.49	<0.1	4.2
Pike Island	84.2	19-Sep-12	<0.1	128	1.11	48.7		35.6	<0.1	0.54	3.22	220	<1.5			6.5	65	2.97	0.37	<0.5	0.57	<0.1	5.0
Pike Island	84.2	20-Nov-12	<0.1	101	0.49	34.4		25.5	<0.1	0.11	1.92	269	<1.5			7.8	93	3.19	0.25	<0.5	0.55	<0.1	5.9
Pike Island	84.2	09-Jan-13	<0.1	358	0.76	36.6		30.8	<0.1	0.69	1.72	761	2.42			6.1	118	4.48	0.8	<0.5	0.51	<0.1	9.5
Pike Island	84.2	14-May-13	<0.1	93	0.45	41.6		34.5	<0.1	0.55	1.76	205	<1.5			9.7	42	2.26	0.35	<0.5	0.66	<0.1	3.3
Pike Island	84.2	15-Jul-13	<0.1	303	0.94	40.4		28.4	<0.1	<0.5	2.96	640	2.05			6.6	56	2.54	1.08	<0.5	0.88	<0.1	5.9
Pike Island	84.2	11-Sep-13	<0.1	95	0.99	36.6		24.8	<0.1	<0.5	2.58	195	<1.5			7.8	33	2.1	0.41	<0.5	0.77	<0.1	4.2
Pike Island	84.2	14-Nov-13	<0.1	110	0.9	37.5		31.7	<0.1	<0.5	2.23	246	1.88			7.5	205	5.17	2.57	0.11	<1	<0.1	18.8
Pike Island	84.2	13-Jan-14	<0.1	1140	1.09	48.4		29.7	<1	1.95	3.56	2090	12.5			6.9	69	3.28	<1	<0.1	<1	<0.1	6.8
Pike Island	84.2	31-Mar-14	<0.1	301	<1	35.7		26.5	<1	<1	1.66	280	<5			7.9	64	2.37	<1	<0.1	<1	<0.1	3.9
Pike Island	84.2	29-Jul-14	<0.1	288	1.46	45.3		33.0	<1	<1	2.56	503	1.8			8.6	56	2.18	<1	0.14	1.18	<0.1	4.9
Pike Island	84.2	23-Sep-14	<0.1	189	1.17	49.3		27.6	<1	<1	2.65	372	2.8			7.5	54	1.72	<1	<0.1	<1	<0.1	3.4

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Hannibal	126.4	20-Jan-10	<0.1	588	0.41	39.4		24.1	<0.1	1.39	1.85	1074	4.18		8.7	87	2.68	1.09	<0.5	0.56	<0.1	12.6
Hannibal	126.4	18-Mar-10	<0.1	594	0.73	43.2		21.0	0.38	1.47	2.53	1533	5.32		5.4	186	5.17	1.92	<0.5	0.52	<0.1	12.6
Hannibal	126.4	19-May-10	<0.1	1115	0.76	61.6		27.9	0.11	1.8	3.2	1748	3.65		7.6	115	4.73	1.59	<0.5	0.77	<0.1	9.6
Hannibal	126.4	21-Jul-10	<0.1	92	0.69	66.8		40.7	<0.1	1.46	3.09	155	<1.5		11.6	36	2.16	0.26	<0.5	1.27	<0.1	1.9
Hannibal	126.4	14-Sep-10	<0.1	93	0.83	75.0		41.1	<0.1	1.45	3.56	151	<1.5		11.9	32	2.97	0.21	<0.5	1.5	<0.1	2.2
Hannibal	126.4	08-Nov-10	<0.1	102	0.79	62.0		42.2	0.11	1.64	3.3	221	1.8		11.2	35	3.3	0.41	<0.5	1.48	<0.1	4.5
Hannibal	126.4	25-Jan-11	<0.1	154	0.12	54.0		29.7	<0.1	1.91	1.92	432	1.91		7.6	101	3.41	0.43	<0.5	0.89	<0.1	6.0
Hannibal	126.4	29-Mar-11	<0.1	466	<0.1	41.5		25.8	<0.1	1.37	1.99	940	3.94		7.0	158	4.81	0.87	<0.5	0.55	<0.1	10.9
Hannibal	126.4	24-May-11	<0.1	441	0.8	43.0		28.1	0.16	0.99	2.56	939	3.02		7.7	89	4.42	1.24	<0.5	0.52	<0.1	8.3
Hannibal	126.4	19-Jul-11	<0.1	75	1.85	55.5		42.9	<0.1	1.76	2.93	106	<1.5		12.6	24	2.77	0.24	<0.5	1.08	<0.1	2.4
Hannibal	126.4	14-Sep-11	<0.1	145	0.93	46.6		33.0	<0.1	0.56	2.6	274	<1.5		8.3	32	2.2	0.35	<0.5	0.5	<0.1	6.1
Hannibal	126.4	09-Nov-11	<0.1	153	0.99	38.2		29.0	<0.1	0.69	1.62	346	13.63		7.6	53	3.17	0.4	<0.5	0.59	<0.1	4.0
Hannibal	126.4	10-Jan-12	<0.1	190	0.7	35.3		27.9	<0.1	1.06	1.37	409	<1.5		7.7	84	3.76	0.28	<0.5	0.53	<0.1	6.0
Hannibal	126.4	12-Mar-12	<0.1	447	0.76	35.8		26.8	<0.1	1.22	2.14	737	2.74		7.0	75	3.16	0.9	<0.5	0.51	<0.1	8.0
Hannibal	126.4	16-May-12	<0.1	465	0.55	36.8		23.5	<0.1	1.38	2.02	477	1.9		6.5	49	2.51	0.61	<0.5	<0.5	<0.1	4.5
Hannibal	126.4	24-Jul-12	<0.1	121	0.98	48.8		36.3	<0.1	0.63	2.76	127	<1.5		11.0	23	2.77	0.17	<0.5	1.17	<0.1	5.6
Hannibal	126.4	27-Sep-12	<0.1	162	0.99	49.5		38.4	<0.1	0.32	2.89	242	<1.5		11.3	61	2.64	0.44	<0.5	1.34	<0.1	4.2
Hannibal	126.4	19-Nov-12	<0.1	101	0.65	37.0		26.7	<0.1	0.15	1.83	288	<1.5		7.1	52	2.87	0.35	<0.5	0.64	<0.1	3.0
Hannibal	126.4	14-Jan-13	<0.1	562	1.12	43.9		35.0	0.11	0.74	3	1208	4.95		9.1	193	5.38	1.7	<0.5	0.81	<0.1	16.4
Hannibal	126.4	19-Mar-13	<0.1	226	0.99	37.3		29.5	<0.1	0.67	1.67	533	2.71		7.6	99	4.61	0.76	<0.5	0.57	<0.1	6.5
Hannibal	126.4	21-May-13	<0.1	98	0.41	37.8		29.0	<0.1	<0.5	1.57	174	<1.5		8.5	54	2.23	0.24	<0.5	0.77	<0.1	2.7
Hannibal	126.4	05-Sep-13	<0.1	256	1.07	39.2		28.4	<0.1	0.68	2.99	546	2.59		7.1	46	2.4	0.86	<0.5	0.72	<0.1	5.1
Hannibal	126.4	11-Nov-13	<0.1	131	1.07	38.8		32.8	<0.1	0.97	2.2	348	1.64		6.9	47	1.9	0.52	<0.5	0.53	<0.1	3.5
Hannibal	126.4	18-Jul-13	<0.1	467	<1	36.7		30.3	<1	<1	1.81	441	<5		8.5	111	3.59	<1	<0.1	<1	<0.1	8.3
Hannibal	126.4	10-Mar-14	<0.1	173	<1	37.7		24.4	<1	<1	1.86	916	<5		6.7	103	3.81	<1	<0.1	<1	<0.1	7.0
Hannibal	126.4	19-May-14	<0.1	1360	1.14	51.3	<1	24.9	<1	1.14	4.96	3090	10.7	1.71	6.3	282	7.24	4.3	0.12	<1	<0.1	25.4
Hannibal	126.4	21-Jul-14	<0.1	118	1.32	44.8	<1	30.5	<1	<1	1.97	243	<1.5	2.24	8.3	52	1.63	<1	0.12	<1	<0.1	4.1
Hannibal	126.4	24-Sep-14	<0.1	133	1.67	43.8	<1	34.5	<1	<1	2.46	239	<1.5	2.52	9.6	39	1.9	<1	0.17	1.39	<0.1	3.5
Hannibal	126.4	19-Nov-14	<0.1	98	<1	37.7	<1	29.3	<1	<1	1.69	264	R	2.3	7.9	48	1.72	<1	0.11	<1	<0.1	2.8
Willow Island	161.8	20-Jan-10	<0.1	518	0.55	52.4		35.4	<0.1	1.43	2.63	1207	5.95		9.3	160	4.48	1.26	<0.5	<0.5	<0.1	9.6
Willow Island	161.8	18-Mar-10	<0.1	770	0.75	47.4		21.4	0.13	2.03	3.22	1804	7.33		5.5	238	6.65	2.81	<0.5	0.88	<0.1	18.0
Willow Island	161.8	19-May-10	<0.1	729	0.73	54.2		28.3	<0.1	1.49	2.85	1268	4.06		7.3	110	4.33	1.44	<0.5	0.54	<0.1	8.7
Willow Island	161.8	27-Jul-10	<0.1	107	0.65	66.5		47.6	<0.1	0.79	2.65	183	<1.5		13.9	33	2.67	0.3	<0.5	1.19	<0.1	2.6
Willow Island	161.8	27-Sep-10	<0.1	136	0.95	84.5		45.7	<0.1	1.35	2.88	211	<1.5		13.5	36	3.29	0.27	<0.5	2.25	<0.1	3.2
Willow Island	161.8	08-Nov-10	<0.1	78	0.54	69.7		42.2	<0.1	1.76	2.92	158	<1.5		12.0	28	2.99	0.28	<0.5	1.38	<0.1	2.3
Willow Island	161.8	25-Jan-11	<0.1	131	0.14	48.7		27.9	<0.1	1.72	2.54	1339	5.26		7.3	97	3.4	0.39	<0.5	0.56	<0.1	5.1
Willow Island	161.8	22-Mar-11	<0.1	707	0.44	46.5		24.6	0.12	1.43	2.54	1339	5.26		6.6	217	5.81	1.82	<0.5	0.55	<0.1	13.4
Willow Island	161.8	19-Jul-11	<0.1	484	1.03	43.7		28.3	<0.1	1.15	2.65	1047	3.39		7.7	91	4.7	1.32	<0.5	<0.5	<0.1	8.6
Willow Island	161.8	14-Sep-11	<0.1	53	1.52	56.5		42.5	<0.1	1.47	2.48	74	<1.5		12.6	20	2.46	0.16	<0.5	0.93	<0.1	2.0
Willow Island	161.8	09-Nov-11	<0.1	197	0.72	48.9		37.8	<0.1	0.9	2.48	324	1.93		10.1	38	2.47	0.5	<0.5	0.72	<0.1	5.3
Willow Island	161.8	10-Jan-12	<0.1	184	0.76	38.5		28.7	<0.1	1.09	1.93	414	2.24		7.6	48	3.26	0.53	<0.5	0.94	<0.1	6.4
Willow Island	161.8	12-Mar-12	<0.1	184	0.72	34.8		27.4	<0.1	1.04	1.16	389	<1.5		7.5	69	3.35	0.25	<0.5	0.54	<0.1	4.0
Willow Island	161.8	16-May-12	<0.1	467	0.77	34.9		24.6	<0.1	1.21	1.81	785	3.27		6.8	78	3.06	0.82	<0.5	0.57	<0.1	8.8
Willow Island	161.8	16-May-12	<0.1	439	0.68	36.7		23.6	<0.1	1.64	2.15	505	1.95		6.2	43	2.46	0.69	<0.5	<0.5	<0.1	4.7
Willow Island	161.8	24-Jul-12	<0.1	60	0.81	47.7		34.7	<0.1	0.19	2.44	72	<1.5		10.8	22	2.02	0.13	<0.5	1.26	<0.1	2.0
Willow Island	161.8	27-Sep-12	<0.1	156	1.1	50.0		36.7	<0.1	0.31	2.82	230	<1.5		11.1	40	2.39	0.4	<0.5	1.4	<0.1	4.1
Willow Island	161.8	19-Nov-12	<0.1	127	0.61	35.0		25.4	<0.1	0.2	1.92	337	1.62		6.5	48	2.89	0.5	<0.5	0.57	<0.1	3.6
Willow Island	161.8	14-Jan-13	<0.1	423	0.86	40.7		33.0	<0.1	1.7	2.11	897	3.01		8.6	152	4.31	0.99	<0.5	0.79	<0.1	9.2
Willow Island	161.8	19-Mar-13	<0.1	300	0.77	39.3		29.8	<0.1	0.55	1.66	629	4.25		7.7	96	3.81	0.55	<0.5	0.53	<0.1	6.9
Willow Island	161.8	21-May-13	<0.1	88	0.36	39.6		30.6	<0.1	<0.5	1.66	164	<1.5		8.8	29	2	0.26	<0.5	<0.5	<0.1	3.0
Willow Island	161.8	18-Jul-13	<0.1	149	1.02	38.3		29.6	<0.1	<0.5	2.93	308	2.15		7.1	23	1.95	0.5	<0.5	0.66	<0.1	2.9
Willow Island	161.8	05-Sep-13	<0.1	135	0.74	40.6		30.8	<0.1	<0.5	2.06	213	2.07		8.0	42	1.55	0.35	<0.5	0.69	<0.1	3.2
Willow Island	161.8	11-Nov-13	<0.1	154	1.11	43.6		34.0	<0.1	<0.5	2.33	285	<1.5		8.9	43	1.94	0.45	<0.5	0.61	<0.1	3.5
Willow Island	161.8	20-Jan-14	<0.1	465	<1	39.4		25.0	<1	<1	2.46	1100	<5		6.6	127	3.79	1.09	<0.5	<0.5	<0.1	13.8
Willow Island	161.8	10-Mar-14	<0.1	215	1.38	37.0		29.0	<1	<1	1.74	498	<5		8.0	108	3.16	<1	<0.1	<1	<0.1	5.5
Willow Island	161.8	19-May-14	<0.1	2260	1.69	65.7	<1	28.0	<1	2.75	8.12	4690	19.1	1.93	7.2	462	11.5	7.46	0.17	<1	<0.1	42.4
Willow Island	161.8	21-Jul-14	<0.1	104	1.12	42.0	<1	28.9	<1	<1	2.07	224	<5	2.35	7.6	64	1.64	<1	0.14	<1	<0.1	4.1
Willow Island	161.8	24-Sep-14	<0.1	216	1.03	47.6	<1	35.6	<1	<1	2.54	428	9.2	2.68	9.9	64	2.19	<1	0.18	<1	<0.1	5.1
Willow Island	161.8	20-Nov-14	<0.1	185	<1	39.3	<1	30.0	<1	<1	3.14	426	2.3	2.28	8.0	55	2.13	<1	0.11	<1	<0.1	4.4
Ballville	203.9	19-Jan-10	<0.1	1149	0.8	56.3		36.3	<0.1	2.03	3.14	2191	6.79		10.0	235	4.95	1.97	<0.5	<0.5	<0.1	14.5

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Ca (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Belleville	203.9	24-Mar-10	<0.1	995	0.96	48.2		27.7	<0.1	2.16	3.24	1952	7.49		7.8	205	5.45	2.32	<0.5	<0.5	<0.1	13.5
Belleville	203.9	13-Mar-10	<0.1	373	0.52	50.9		42.0	<0.1	1.39	2.13	625	2.22		11.9	77	3.19	0.74	<0.5	0.73	<0.1	4.8
Belleville	203.9	22-Jul-10	<0.1	164	0.92	56.7		40.3	<0.1	1.22	2.4	270	1.73		12.3	45	1.77	0.44	<0.5	0.85	0.12	2.4
Belleville	203.9	29-Sep-10	<0.1	251	1.02	72.2		44.2	<0.1	1.49	2.62	339	<1.5		15.0	52	3.22	0.23	<0.5	1.64	<0.1	3.1
Belleville	203.9	17-Nov-10	<0.1	52	0.5	62.5		45.5	<0.1	1.63	2.59	97	<1.5		12.9	24	3.11	0.2	<0.5	1.21	<0.1	2.6
Belleville	203.9	07-Feb-11	<0.1	269	0.22	55.6		36.5	<0.1	2.09	1.76	611	1.8		10.0	115	3.38	0.99	<0.5	0.83	<0.1	4.6
Belleville	203.9	28-Mar-11	<0.1	793	0.66	46.4		34.3	0.11	1.61	2.61	1624	7.01		9.5	196	4.97	1.75	<0.5	0.55	<0.1	10.9
Belleville	203.9	25-May-11	<0.1	978	1.09	47.7		35.7	0.13	1.62	2.5	101	<1.5		15.3	37	2.87	0.19	<0.5	1.1	<0.1	3.5
Belleville	203.9	26-Jul-11	<0.1	75	1.79	55.7		46.2	<0.1	1.62	2.5	101	<1.5		15.3	37	2.87	0.19	<0.5	1.1	<0.1	3.5
Belleville	203.9	12-Sep-11	<0.1	312	1.04	53.1		41.5	<0.1	1.74	2.53	485	1.69		11.7	61	2.8	0.54	<0.5	0.79	<0.1	4.6
Belleville	203.9	14-Nov-11	<0.1	108	0.68	39.6		34.2	<0.1	1.87	2.36	1645	5.09		9.6	50	2.95	0.25	<0.5	0.75	<0.1	2.4
Belleville	203.9	24-Jan-12	<0.1	1000	1.12	41.5		32.0	<0.1	1.87	2.36	1645	5.09		9.2	137	4.67	1.3	<0.5	0.5	<0.1	12.3
Belleville	203.9	14-Mar-12	<0.1	462	0.81	36.0		30.6	<0.1	1.3	2.25	801	3.46		8.7	63	2.73	0.77	<0.5	0.67	<0.1	5.7
Belleville	203.9	21-May-12	<0.1	306	0.71	40.2		27.7	<0.1	1.13	1.71	312	<1.5		8.2	58	1.92	0.36	<0.5	0.58	<0.1	4.3
Belleville	203.9	18-Jul-12	<0.1	22	0.75	50.2		35.7	<0.1	0.49	2.06	<50	<1.5		12.0	20	2.07	<0.1	<0.5	0.83	<0.1	1.1
Belleville	203.9	17-Sep-12	<0.1	49	0.77	49.5		34.9	<0.1	0.35	2.07	70	<1.5		11.8	24	2.95	0.11	<0.5	1.11	<0.1	2.3
Belleville	203.9	13-Nov-12	<0.1	190	0.8	34.2		27.5	<0.1	0.57	2.04	397	1.94		7.2	41	2.71	0.6	<0.5	0.71	<0.1	3.4
Belleville	203.9	17-Jan-13	<0.1	972	1.36	46.0		32.3	<0.1	1.32	3.37	1957	8.03		8.8	247	5.25	2.23	<0.5	0.71	<0.1	15.6
Belleville	203.9	27-Mar-13	<0.1	404	0.85	36.9		29.7	<0.1	0.71	1.62	639	1.63		8.0	67	2.73	0.7	<0.5	<0.5	<0.1	6.1
Belleville	203.9	16-May-13	<0.1	100	0.58	40.8		35.8	<0.1	<0.5	1.7	178	<1.5		10.6	36	1.78	0.29	<0.5	0.51	<0.1	5.7
Belleville	203.9	24-Jul-13	<0.1	872	1.4	46.4		36.4	<0.1	0.93	2.96	1106	4.05		9.9	70	2.83	0.98	<0.5	0.51	<0.1	5.7
Belleville	203.9	09-Sep-13	<0.1	142	0.82	38.0		36.4	<0.1	0.62	1.77	209	1.89		10.5	87	1.45	0.22	<0.5	0.65	<0.1	2.2
Belleville	203.9	18-Nov-13	<0.1	124	0.74	38.0		36.7	<0.1	0.61	2.32	225	<1.5		9.9	33	1.99	0.4	<0.5	0.61	<0.1	4.3
Belleville	203.9	20-Mar-14	<0.1	978	<1	41.5		32.0	<1	<1	2.08	1230	<5		8.9	93	3.99	<1	<0.1	<1	<0.1	9.0
Belleville	203.9	27-May-14	<0.1	231	<1	36.8	<1	28.4	<1	<1	1.53	432	<5	1.82	8.0	44	1.92	<1	<0.1	<1	<0.1	6.0
Belleville	203.9	16-Jul-14	<0.1	297	1.24	42.5	<1	27.9	<1	<1	1.91	450	<5	2.28	7.6	42	1.66	<1	0.12	<1	<0.1	2.8
Belleville	203.9	24-Sep-14	<0.1	160	1.43	46.4	<1	39.2	<1	<1	1.98	252	<1.5	2.92	11.1	72	1.86	<1	0.17	1.11	<0.1	4.4
Belleville	203.9	20-Nov-14	<0.1	69	<1	37.4	<1	34.2	<1	<1	1.64	168	<1.5	2.56	9.5	35	1.76	<1	0.12	<1	<0.1	2.9
Belleville	203.9	19-Jan-10	<0.1	343	0.89	56.2		36.2	<0.1	0.87	2.33	884	4.4		9.6	173	4.99	1.08	<0.5	0.61	<0.1	9.5
Belleville	203.9	24-Mar-10	<0.1	428	0.41	39.8		17.8	<0.1	1.33	1.78	910	4.08		6.2	98	3.13	1.38	<0.5	<0.5	<0.1	7.8
Belleville	203.9	13-May-10	<0.1	748	0.7	53.9		33.9	<0.1	1.56	2.35	1186	3.13		10.6	174	3.6	1.2	<0.5	0.78	<0.1	6.6
Belleville	203.9	22-Jul-10	<0.1	445	1.17	66.5		37.2	<0.1	1.52	2.32	931	2.53		12.9	222	2.91	1.09	<0.5	0.83	<0.1	5.7
Belleville	203.9	29-Sep-10	<0.1	213	0.88	65.7		37.6	<0.1	1.58	2.14	303	<1.5		13.3	38	2.71	0.32	<0.5	1.35	<0.1	2.7
Belleville	203.9	17-Nov-10	<0.1	292	0.59	62.5		39.8	<0.1	1.63	2.51	587	2.02		13.6	69	3.36	0.82	<0.5	1.18	<0.1	4.9
Belleville	203.9	02-Feb-11	<0.1	608	<0.1	45.7		23.9	<0.1	2.07	1.95	971	3.08		7.7	99	2.95	0.78	<0.5	0.83	<0.1	6.1
Belleville	203.9	28-Mar-11	<0.1	574	0.12	38.6		21.9	<0.1	1.39	1.77	1088	4.19		6.9	131	3.06	1.11	<0.5	<0.5	<0.1	6.4
Belleville	203.9	25-May-11	<0.1	513	0.52	47.0		26.0	0.12	0.97	2.54	972	2.55		7.8	100	3.32	1.07	<0.5	<0.5	<0.1	5.6
Belleville	203.9	26-Jul-11	<0.1	171	1.86	51.5		42.4	<0.1	1.75	2.54	319	<1.5		13.7	68	2.93	0.47	<0.5	0.81	<0.1	3.1
Belleville	203.9	12-Sep-11	<0.1	352	0.84	54.5		34.7	<0.1	0.81	1.97	556	2.03		11.5	87	2.5	0.57	<0.5	0.88	<0.1	4.0
Belleville	203.9	14-Nov-11	<0.1	619	1.06	44.6		29.4	<0.1	1.7	2.5	1210	3.84		8.8	115	3.74	1.32	<0.5	0.59	<0.1	7.3
Belleville	203.9	24-Jan-12	<0.1	795	0.95	36.1		19.6	<0.1	1.65	2.08	1332	3.72		6.7	142	3.44	1.32	<0.5	0.6	<0.1	8.4
Belleville	203.9	14-Mar-12	<0.1	534	0.66	37.0		22.3	<0.1	1.3	1.76	885	3.26		6.9	100	2.58	0.91	<0.5	<0.5	<0.1	6.3
Belleville	203.9	21-May-12	<0.1	729	0.62	40.2		21.0	<0.1	1.49	1.66	896	1.5		6.6	142	2.03	0.69	<0.5	<0.5	<0.1	4.5
Belleville	203.9	18-Jul-12	<0.1	110	0.78	52.6		29.8	<0.1	0.21	1.58	187	<1.5		11.9	81	1.71	0.27	<0.5	0.63	<0.1	2.2
Belleville	203.9	17-Sep-12	<0.1	169	0.83	53.2		34.0	<0.1	0.68	2.16	294	<1.5		13.0	60	2.62	0.39	<0.5	0.94	<0.1	2.8
Belleville	203.9	13-Nov-12	<0.1	891	0.71	37.3		26.3	<0.1	0.34	2.11	480	1.87		7.9	50	2.59	0.72	<0.5	0.72	<0.1	4.6
Belleville	203.9	17-Jan-13	<0.1	896	0.63	43.6		17.1	<0.1	1.18	2.67	1649	5.55		6.2	174	3.89	2.08	<0.5	0.5	<0.1	9.7
Belleville	203.9	27-Mar-13	<0.1	457	0.89	35.1		21.7	<0.1	0.84	1.64	753	2.13		6.4	126	2.64	0.8	<0.5	0.52	<0.1	5.2
Belleville	203.9	16-May-13	<0.1	269	0.58	38.4		24.3	<0.1	0.57	1.58	475	1.64		7.4	114	1.83	0.98	<0.5	<0.5	<0.1	4.2
Belleville	203.9	24-Jul-13	<0.1	848	1.22	43.4		27.0	<0.1	0.87	2.66	1028	2.96		7.8	81	2.65	0.56	<0.5	<0.5	<0.1	5.1
Belleville	203.9	09-Sep-13	<0.1	295	0.91	46.5		29.0	<0.1	0.67	2.01	489	<1.5		8.5	106	1.84	0.63	<0.5	0.83	<0.1	3.5
Belleville	203.9	18-Nov-13	<0.1	296	0.95	41.6		35.3	<0.1	0.5	2.24	560	4.05		10.5	62	2.21	0.71	<0.5	0.65	<0.1	5.1
Belleville	203.9	04-Feb-14	<0.1	336	<1	37.7		26.9	<1	<1	2.03	692	<5		9.4	99	2.58	<1	<0.1	<1	<0.1	5.7
Belleville	203.9	20-Mar-14	<0.1	1010	<1	43.3		30.2	<1	1.6	2.16	1100	<5	1.68	9.1	88	3.19	<1	<0.1	<1	<0.1	6.5
Belleville	203.9	27-May-14	<0.1	257	<1	35.5	<1	24.6	<1	1.43	1.76	532	<5	2.42	6.8	62	2.51	<1	<0.1	<1	<0.1	4.6
Belleville	203.9	16-Jul-14	<0.1	415	1.59	48.4	<1	29.2	<1	<1	2.14	835	<5		8.4	208	2.51	<1	0.2	<1	<0.1	5.1
Belleville	203.9	24-Sep-14	<0.1	261	1	46.0	<1	33.6	<1	<1	2.09	427	1.8	2.79	10.8	67	1.88	<1	0.21	<1	<0.1	5.3
Belleville	203.9	20-Nov-14	<0.1	154	<1	36.8	<1	25.9	<1	<1	1.51	315	<1.5	2.47	8.6	39	1.56	<1	0.1	<1	<0.1	3.7
Belleville	203.9	13-Jan-10	<0.1	110	0.3	36.1		29.5	<0.1	0.97	1.18	362	<1.5		10.3	63	2.88	0.45	<0.5	<0.5	<0.1	4.0
Belleville	341	24-Mar-10	<0.1	655	0.61	44.1		22.2	<0.1	1.56	2.68	1533	6.52		7.2	161	4.2	2.19	<0.5	<0.5	<0.1	

SampleSite	Mill Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Greenup	341	29-Jul-10	<0.1	90	0.53	48.1		26.9	<0.1	1.42	1.99	142	<1.5		9.4	20	1.48	0.3	<0.5	0.76	<0.1	1.8
Greenup	341	27-Sep-10	<0.1	237	0.74	69.1		41.1	<0.1	1.48	1.92	332	<1.5		14.7	47	2.82	0.33	<0.5	1.24	<0.1	3.2
Greenup	341	18-Nov-10	<0.1	89	0.54	61.1		42.2	<0.1	1.63	2.08	190	<1.5		15.0	38	3.33	0.28	<0.5	1.13	<0.1	2.1
Greenup	341	10-Jan-11	<0.1	452	0.58	55.1		29.3	<0.1	2.3	2.11	977	3.45		9.4	110	3.56	1.05	<0.5	0.91	<0.1	8.8
Greenup	341	08-Mar-11	<0.1	2240	1.35	65.1		23.8	0.17	3.81	5.35	5315	13.38		7.8	402	8.5	5.28	<0.5	0.58	<0.1	27.4
Greenup	341	11-May-11	<0.1	4166	1.66	78.0		27.6	0.11	5.28	8.83	7576	16.51		10.5	375	11.48	7.51	<0.5	0.84	0.11	35.3
Greenup	341	27-Jul-11	<0.1	146	0.94	57.4		41.0	<0.1	1.63	2.55	260	<1.5		13.8	45	2.61	0.39	<0.5	0.79	<0.1	3.3
Greenup	341	15-Sep-11	<0.1	803	0.92	57.9		37.0	<0.1	1.49	2.57	1028	2.32		11.7	93	3	0.94	<0.5	0.71	<0.1	8.7
Greenup	341	08-Nov-11	<0.1	283	0.9	41.9		31.8	<0.1	1.09	1.93	552	11.53		10.4	55	2.88	0.61	<0.5	0.73	<0.1	5.6
Greenup	341	07-Jan-12	<0.1	672	1.2	39.0		27.5	<0.1	1.73	2.24	1334	4.61		9.4	121	3.95	1.4	<0.5	0.73	<0.1	11.6
Greenup	341	05-Jan-12	<0.1	1260	0.94	43.1		21.4	<0.1	1.81	3.15	2230	5.89		7.7	132	4.07	2.24	<0.5	0.55	<0.1	15.3
Greenup	341	17-May-12	<0.1	1063	0.9	43.2		25.4	<0.1	2.03	2.61	1302	3.52		9.1	82	3.01	1.21	<0.5	0.54	<0.1	9.0
Greenup	341	09-Jul-12	<0.1	60	0.64	51.0		32.6	<0.1	0.52	1.69	62	<1.5		12.6	11	1.53	0.13	<0.5	0.85	<0.1	6.4
Greenup	341	24-Sep-12	<0.1	149	0.86	49.1		32.9	<0.1	0.18	2.06	219	<1.5		14.0	31	2	0.28	<0.5	1.13	<0.1	7.6
Greenup	341	08-Nov-12	<0.1	625	1.11	45.6		30.9	<0.1	1.27	3.42	1316	6.06		9.9	153	4.61	2.12	<0.5	0.76	<0.1	15.1
Greenup	341	07-Jan-13	<0.1	215	0.56	34.0		25.6	<0.1	0.54	1.34	438	<1.5		8.9	52	1.94	0.67	<0.5	0.55	<0.1	40.7
Greenup	341	27-Mar-13	<0.1	535	0.79	35.2		23.1	<0.1	0.94	1.81	1006	2.73		8.2	62	2.72	0.96	<0.5	0.57	<0.1	6.1
Greenup	341	30-May-13	<0.1	174	0.77	40.2		29.1	<0.1	<0.5	1.58	331	1.66		10.8	49	1.63	0.46	<0.5	<0.5	<0.1	3.2
Greenup	341	25-Jul-13	<0.1	972	1.5	47.1		28.9	<0.1	1.66	3.48	1543	7		8.7	105	3.31	1.76	<0.5	0.6	<0.1	11.7
Greenup	341	05-Sep-13	<0.1	297	0.67	40.5		34.9	<0.1	<0.5	2.42	539	2.19		11.0	45	2.11	0.55	<0.5	0.65	<0.1	5.2
Greenup	341	25-Nov-13	0.18	2060	1.38	59.8		24.4	<1	4.09	5.83	5280	15.2		9.3	211	7.68	4	0.1	<1	<0.1	22.8
Greenup	341	13-Jan-14	<0.1	1210	1.08	46.6		33.1	<1	1.35	3.17	1540	<5		11.3	95	4.1	1.44	0.11	<1	<0.1	15.5
Greenup	341	19-Mar-14	<0.1	1300	1.55	51.4	<1	24.8	<1	2.1	5.24	3060	11.7	1.72	6.3	235	6.03	3.93	0.14	<1	<0.1	51.0
Greenup	341	21-May-14	<0.1	227	1.25	39.8	<1	29.2	<1	1.07	2.19	421	<5	2.94	8.5	43	1.96	<1	0.19	<1	<0.1	11.1
Greenup	341	09-Jul-14	<0.1	170	<1	47.8	<1	35.1	<1	<1	1.9	303	<1.5	3.28	12.4	62	1.86	<1	0.19	<1	<0.1	10.4
Greenup	341	24-Sep-14	<0.1	219	<1	44.3	<1	33.0	<1	<1	1.84	468	1.7	2.75	11.7	47	1.96	<1	0.12	1.14	<0.1	3.9
Greenup	341	04-Nov-14	<0.1	111	0.4	36.3		33.9	<0.1	1.32	1.29	295	1.57		11.1	34	1.74	0.34	<0.5	0.69	<0.1	2.6
Greenup	341	13-Jan-10	<0.1	737	0.73	46.3		26.0	<0.1	2.3	2.92	1526	5.14		8.3	139	4.92	2.17	<0.5	0.84	<0.1	14.6
Greenup	341	24-Mar-10	<0.1	1414	1.18	55.1		31.4	0.1	2.28	3.56	2508			10.2	141	5.16	2.31	<0.5	0.66	<0.1	15.2
Greenup	341	19-May-10	<0.1	787	1.07	53.3		31.5	<0.1	1.92	3.2	1328	4.53		10.1	71	3.37	1.5	<0.5	0.76	<0.1	5.9
Greenup	341	27-Sep-10	<0.1	289	1.14	71.1		44.8	<0.1	2.91	2.2	398	<1.5		16.5	43	3.31	0.3	<0.5	1.53	<0.1	2.7
Greenup	341	23-Nov-10	<0.1	151	0.74	60.4		41.4	<0.1	1.58	2.09	291	<1.5		15.3	30	3.21	0.44	<0.5	1.25	0.1	2.9
Greenup	341	10-Jan-11	<0.1	1424	1.16	59.2		28.2	<0.1	3.12	3.6	2468	7.27		9.2	171	5.03	2.39	<0.5	0.64	<0.1	15.7
Greenup	341	08-Mar-11	<0.1	3089	1.55	70.0		25.3	0.22	4.34	6.91	5884	17.6		7.8	478	10.37	6.65	<0.5	0.66	0.11	32.1
Greenup	341	11-May-11	<0.1	995	0.95	47.8		34.0	<0.1	1.41	3.33	1823	5.28		10.9	125	5.16	1.92	<0.5	0.78	<0.1	11.1
Greenup	341	27-Jul-11	<0.1	158	1.97	52.7		39.5	<0.1	1.74	2.43	260	<1.5		14.3	41	2.88	0.36	<0.5	1.16	<0.1	3.4
Greenup	341	15-Sep-11	<0.1	218	0.72	54.9		39.5	<0.1	0.53	1.95	348	<1.5		13.4	36	2.2	0.33	<0.5	0.69	<0.1	4.3
Greenup	341	08-Nov-11	<0.1	651	1.3	44.7		32.0	<0.1	1.61	2.83	1052	2.9		10.2	78	3.76	1.21	<0.5	0.78	<0.1	8.0
Greenup	341	05-Jan-12	<0.1	626	1.24	38.5		30.2	<0.1	1.84	3.76	1104	3.36		9.7	83	3.55	1.1	<0.5	0.72	<0.1	9.3
Greenup	341	07-Mar-12	<0.1	1550	1.29	48.8		24.9	<0.1	2.65	3.67	2670	9.2		8.0	171	4.81	2.91	<0.5	0.55	<0.1	18.1
Greenup	341	17-May-12	<0.1	1085	0.87	45.1		30.6	<0.1	1.92	2.2	1026	2.44		10.1	48	2.73	0.88	<0.5	0.53	<0.1	7.1
Greenup	341	09-Jul-12	<0.1	94	1	49.3		33.1	<0.1	0.14	1.89	83	<1.5		12.9	18	1.74	0.12	<0.5	1.27	<0.1	2.5
Greenup	341	24-Sep-12	<0.1	154	1.13	59.2		40.7	<0.1	0.11	2.86	201	<1.5		16.0	34	2.9	0.25	<0.5	1.27	<0.1	5.9
Greenup	341	08-Nov-12	<0.1	385	0.86	44.5		35.1	<0.1	0.61	3.21	732	3.56		10.4	63	2.94	1.17	<0.5	0.71	<0.1	8.2
Greenup	341	07-Jan-13	<0.1	311	0.64	35.0		26.7	<0.1	0.68	1.56	674	<1.5		8.3	28	2.2	0.49	<0.5	0.6	<0.1	17.7
Greenup	341	27-Mar-13	<0.1	706	0.88	38.6		28.2	<0.1	1.04	2.2	1199	3.04		9.1	70	3.04	1.21	<0.5	<0.5	<0.1	8.2
Greenup	341	30-May-13	<0.1	191	1	40.2		27.5	<0.1	<0.5	1.84	313	<1.5		10.1	35	1.81	0.45	<0.5	1	<0.1	4.8
Greenup	341	25-Jul-13	<0.1	748	1.35	44.9		31.1	<0.1	0.84	2.97	991	3.76		8.8	53	2.49	1.01	<0.5	0.69	<0.1	5.4
Greenup	341	05-Sep-13	<0.1	413	1.04	46.6		34.1	<0.1	0.67	2.38	1137	3.09		9.8	51	1.92	0.64	<0.5	0.6	<0.1	3.6
Greenup	341	25-Nov-13	<0.1	676	1.31	45.3		40.0	<0.1	0.97	3.75	631	4.21		12.1	79	3.6	1.27	<0.5	0.74	<0.1	10.4
Greenup	341	14-Jan-14	<0.1	2590	1.77	57.1		29.2	<1	3.58	5.17	4150	6.9		9.9	219	6.82	3.54	0.12	<1	<0.1	16.1
Greenup	341	19-Mar-14	<0.1	3070	1.49	62.2		38.7	<1	3.51	4.66	3120	7.6		11.1	122	6.88	2.52	0.14	<1	<0.1	17.0
Greenup	341	21-May-14	<0.1	2400	2.18	66.9		31.3	<1	3.34	6.96	4710	6.3	3.32	9.3	391	8.27	6.22	0.16	<1	<0.1	32.3
Greenup	341	09-Jul-14	<0.1	192	1.36	43.2	<1	32.5	<1	<1	2.72	354	<5	3.33	9.4	30	2.02	<1	0.18	<1	<0.1	7.7
Greenup	341	24-Sep-14	<0.1	311	1.37	45.9	<1	33.1	<1	<1	2.31	410	1.7	3.32	11.1	46	2.1	2.42	0.2	1.33	<0.1	4.3
Greenup	341	04-Jan-10	<0.1	181	<1	47.4	<1	37.7	<1	<1	2.05	322	1.7	3.25	11.9	31	1.87	<1	0.16	1.24	<0.1	4.1
Greenup	341	12-Jan-10	<0.1	1211	0.8	52.0		36.5	0.1	2.75	3.51	2424	8.48		12.2	267	4.86	2.89	<0.5	0.5	<0.1	15.8
Greenup	341	23-Mar-10	<0.1	982	1.05	46.6		27.4	0.12	2.88	3.81	2030	6.52		8.5	209	5.65	3.46	<0.5	<0.5	<0.1	16.2
Greenup	341	20-May-10	<0.1	1593	1.08	56.5		32.4	0.12	2.42	3.87	2610	8.4		10.4	152	5.33	2.46	<0.5	0.81	<0.1	17.6
Greenup	341	13-Jul-10	<0.1	163	0.89	51.7		40.9	<0.1	1.26	2.29	296	<1.5		13.7	41	2.12	0.47	<0.5	0.75	<0.1	2.5

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Co (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (mg/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Anderson Ferry	477.5	20-Sep-10	<0.1	199	0.95	70.1		43.1	<0.1	2.01	2.46	299	<1.5		13.6	32	3.62	0.26	<0.5	1.63	<0.1	2.6
Anderson Ferry	477.5	19-Nov-10	<0.1	157	1.07	72.0		47.9	<0.1	1.58	2.58	323	<1.5		16.4	33	3.49	0.38	<0.5	1.74	<0.1	4.1
Anderson Ferry	477.5	18-Jan-11	<0.1	251	0.2	50.7		39.1	<0.1	1.73	1.91	495	<1.5		10.3	51	2.67	0.49	<0.5	0.81	<0.1	4.2
Anderson Ferry	477.5	08-Mar-11	<0.1	2828	1.55	64.4		29.5	0.37	3.59	5.67	5592	13.42		8.8	363	8.4	5.2	<0.5	0.65	<0.1	28.1
Anderson Ferry	477.5	24-May-11	<0.2	1345	1.3	45.0		35.9	<0.1	2.25	3.89	2245	6.05		9.6	165	5.37	2.46	<0.5	0.7	<0.1	14.6
Markland	531.5	12-Jan-10	<0.1	1212	1.05	49.3		37.5	0.11	3.41	3.21	2307	7.77		12.0	216	4.36	2.38	<0.5	<0.5	<0.1	13.6
Markland	531.5	23-Mar-10	<0.1	852	0.82	48.5		28.5	0.14	2.28	3.56	1784	6.56		8.7	174	5.06	2.78	<0.5	<0.5	<0.1	15.9
Markland	531.5	26-May-10	<0.1	944	0.89	44.2		31.4	<0.1	1.54	2.62	1384	4.23		9.3	48	3.6	1.23	<0.5	0.54	<0.1	6.6
Markland	531.5	14-Jul-10	<0.1	328	1.02	54.7		42.3	<0.1	1.53	2.55	509	<1.5		15.1	40	1.98	0.55	<0.5	0.74	<0.1	3.8
Markland	531.5	20-Sep-10	<0.1	158	1.07	70.0		44.0	<0.1	1.24	2.12	265	<1.5		16.2	39	3.07	0.31	<0.5	1.12	<0.1	2.3
Markland	531.5	19-Nov-10	<0.1	148	0.59	68.1		46.0	<0.1	1.58	2.85	240	<1.5		16.5	27	3.29	0.29	<0.5	1.53	<0.1	2.8
Markland	531.5	18-Jan-11	<0.1	207	0.26	46.7		33.3	<0.1	2.04	1.79	401	1.5		10.3	32	2.43	0.39	<0.5	0.58	<0.1	3.8
Markland	531.5	08-Mar-11	<0.1	1821	1.45	77.9		34.0	0.22	5.03	7.29	6780	19.37		9.9	497	10.41	7.31	<0.5	0.62	<0.1	34.6
Markland	531.5	24-May-11	<0.1	1207	1.4	49.2		36.0	0.11	1.7	3.87	2243	5.96		10.8	160	5.26	2.44	<0.5	0.63	<0.1	13.4
Markland	531.5	18-Jul-11	<0.1	101	1.85	56.6		45.5	<0.1	1.17	2.44	257	<1.5		15.2	35	2.8	0.38	<0.5	1.07	<0.1	5.0
Markland	531.5	16-Sep-11	<0.1	286	0.79	63.2		43.4	<0.1	0.65	2.13	402	<1.5		15.0	47	2.85	0.38	<0.5	0.86	<0.1	4.4
Markland	531.5	21-Nov-11	<0.1	1110	1.53	52.3		34.5	0.35	2.33	3.58	1881	5.45		10.8	121	5.38	2.04	<0.5	0.82	0.11	12.4
Markland	531.5	25-Jan-12	<0.1	1961	1.43	46.1		34.0	<0.1	2.79	3.37	2789	7.45		10.8	134	5.09	2.19	<0.5	0.59	<0.1	50.8
Markland	531.5	07-Mar-12	<0.1	2750	1.6	65.0		26.9	<0.1	3.95	5.7	4800	15.5		8.6	315	8.44	5.06	<0.5	0.59	<0.1	27.7
Markland	531.5	17-May-12	<0.1	1593	1.19	46.7		32.8	<0.1	2.5	2.92	1509	3.36		9.8	60	3.56	1.15	<0.5	0.57	<0.1	7.5
Markland	531.5	17-Jul-12	<0.1	44	1.44	48.9		33.6	<0.1	0.54	1.72	62	<1.5		13.6	26	1.65	<0.1	<0.5	0.67	<0.1	1.5
Markland	531.5	20-Sep-12	<0.1	242	1.18	58.5		40.5	<0.1	0.6	2.37	925	<1.5		15.9	49	2.46	0.4	<0.5	1.47	<0.1	3.7
Markland	531.5	08-Nov-12	<0.1	547	1.06	50.8		36.5	<0.1	0.88	3.61	922	3.4		11.3	77	3.4	1.36	<0.5	0.96	<0.1	8.6
Markland	531.5	10-Jan-13	<0.1	324	0.97	36.4		31.5	<0.1	0.46	1.73	661	1.99		9.6	41	2.23	0.62	<0.5	0.73	<0.1	5.5
Markland	531.5	26-Mar-13	<0.1	1260	1.49	44.3		31.9	<0.1	2.52	3.08	1887	4.28		9.4	85	3.81	0.57	<0.5	0.65	<0.1	11.1
Markland	531.5	09-May-13	<0.1	766	0.99	28.9		34.0	<0.1	1.25	2.17	1038	1.9		8.1	39	2.29	0.85	<0.5	<0.5	<0.1	4.7
Markland	531.5	17-Jul-13	<0.1	930	1.26	44.3		28.4	<0.1	1.29	3.55	1409	4.11		7.9	58	3.25	1.43	<0.5	0.54	<0.1	10.7
Markland	531.5	11-Sep-13	<0.1	269	1.15	45.2		31.9	<0.1	<0.5	2.2	401	<1.5		10.0	65	1.81	0.4	<0.5	0.7	<0.1	4.8
Markland	531.5	13-Nov-13	<0.1	329	1.19	48.1		42.1	<0.1	1.22	2.53	469	2.26		11.8	31	2.47	0.48	<0.5	0.7	<0.1	3.9
Markland	531.5	14-Jan-14	<0.1	2220	1.86	52.2		34.6	<1	3.39	4.26	3430	13.6		13.2	196	6.13	3.05	0.13	<1	<0.1	18.7
Markland	531.5	11-Mar-14	<0.1	564	<1	37.8		32.0	<1	1.4	1.94	1140	<5		10.2	59	2.6	<1	<0.1	<1	<0.1	6.2
Markland	531.5	28-May-14	<0.1	326	<1	39.7		31.9	<1	<1	2.37	603	<5		9.3	45	2.1	1.26	0.12	<1	<0.1	9.8
Markland	531.5	08-Jul-14	<0.1	625	1.14	45.1	<1	33.8	<1	1.52	2.82	1030	<5		9.8	73	2.63	<1	0.15	<1	<0.1	5.5
Markland	531.5	10-Sep-14	<0.1	340	1.18	50.4	<1	37.4	<1	<1	2.16	460	<1.5		12.5	51	2.14	<1	0.18	1.29	<0.1	5.1
Markland	531.5	24-Nov-14	<0.1	233	<1	38.6	<1	36.8	<1	<1	1.62	401	2.5		13.4	25	1.73	<1	0.12	1.02	<0.1	21.0
Louisville	600.6	26-Jan-10	<0.1	1958	0.98	49.2		37.0	<0.1	3.22	4.44	3422	13.27		10.2	252	5.94	3.56	<0.5	<0.5	<0.1	13.7
Louisville	600.6	16-Mar-10	<0.1	1080	0.81	56.9		39.7	<0.1	2.91	3.14	1844	5.54		12.1	130	5.23	2.21	<0.5	<0.5	<0.1	10.8
Louisville	600.6	20-May-10	<0.1	1474	0.95	50.4		37.0	<0.1	1.95	3.28	2379	5.57		11.2	128	4.58	1.91	<0.5	0.74	<0.1	10.4
Louisville	600.6	22-Jul-10	<0.1	477	1.37	55.3		45.8	<0.1	1.8	2.44	741	1.77		15.5	54	2.36	0.75	<0.5	1.06	<0.1	4.0
Louisville	600.6	16-Sep-10	<0.1	373	1.25	60.1		41.3	<0.1	1.79	2.21	513	<1.5		17.4	41	2.08	0.45	<0.5	1.73	<0.1	3.5
Louisville	600.6	17-Nov-10	<0.1	150	0.88	67.3		47.8	<0.1	1.79	2.43	264	<1.5		11.7	27	3.4	0.38	<0.5	1.56	0.15	2.9
Louisville	600.6	26-Jan-11	<0.1	821	0.46	57.6		39.3	<0.1	2.64	3.1	1635	5.88		11.7	147	4.5	1.67	<0.5	1.06	<0.1	11.9
Louisville	600.6	28-Mar-11	<0.1	3572	1.24	98.0		62.0	0.31	5.02	7.83	6510	20.61		16.0	921	11.87	6.94	<0.5	2.09	0.1	39.5
Louisville	600.6	18-May-11	<0.1	3518	2.39	80.8		50.3	0.2	5.79	8.08	7132	18.59		15.8	609	13.43	7.8	<0.5	1.09	0.16	61.0
Louisville	600.6	22-Jul-10	<0.1	761	1.14	56.2		45.9	<0.1	1.78	3.01	1191	3.07		11.5	222	6.58	3.25	<0.5	0.85	<0.1	16.7
Louisville	600.6	16-Sep-10	<0.1	391	1.19	58.5		41.6	<0.1	1.85	2.06	510	<1.5		15.3	88	2.8	1.14	<0.5	1.02	<0.1	6.0
Louisville	600.6	17-Nov-10	<0.1	92	0.7	67.2		47.4	<0.1	1.74	2.3	149	<1.5		17.6	19	3.23	0.21	<0.5	1.55	<0.1	<1
Louisville	600.6	26-Jan-11	<0.1	299	0.17	52.5		37.7	<0.1	2.69	2.2	620	4.53		11.4	68	3.13	0.6	<0.5	0.65	<0.1	5.4
Louisville	600.6	28-Mar-11	<0.1	1295	0.77	52.2		35.1	0.12	2.27	3.5	2382	8.54		10.8	238	5.66	2.68	<0.5	0.72	<0.1	16.6
Louisville	600.6	18-May-11	<0.1	2440	1.61	40.7		40.7	<0.1	3.52	5.51	4608	9.1		13.8	278	7.83	3.96	<0.5	0.8	<0.1	19.8
Louisville	600.6	18-Jul-11	<0.1	89	1.92	46.8		40.4	<0.1	1.19	2.19	154	<1.5		13.1	18	2.39	0.21	<0.5	0.86	<0.1	2.5
Louisville	600.6	20-Sep-11	<0.1	471	0.83	64.6		41.6	<0.1	0.67	1.95	613	<1.5		14.5	57	3.05	0.47	<0.5	0.56	<0.1	3.1
Louisville	600.6	21-Nov-11	<0.1	5300	3.01	94.2		41.4	0.28	8.21	12.41	9427	18.48		13.0	761	16.04	9.86	<0.5	0.66	0.15	45.6
Louisville	600.6	25-Jan-12	<0.1	2930	1.56	48.1		35.5	<0.1	3.88	4.75	4258	9.65		10.6	202	6.81	3.29	<0.5	0.56	<0.1	18.8
Louisville	600.6	07-Mar-12	<0.1	5080	2.12	81.6		28.3	0.1	7.02	9.35	8280	26.06		9.4	465	11.97	7.45	<0.5	0.51	<0.1	37.8
Louisville	600.6	17-May-12	<0.1	2430	1.24	48.4		34.6	<0.1	3.31	3.54	2278	<1.5		10.0	86	4.07	1.49	<0.5	0.59	<0.1	10.6
Louisville	600.6	17-Jul-12	<0.1	89	0.83	47.8		33.6	<0.1	0.49	1.99	118	<1.5		13.4	22	1.72	0.2	<0.5	0.53	<0.1	2.9
Louisville	600.6	20-Sep-12	<0.1	174	1.15	53.8		38.8	<0.1	0.36	2.38	225	<1.5		14.8	28	2.25	0.26	<0.5	1.44	<0.1	3.4
Louisville	600.6	08-Nov-12	<0.1	782	1.14	57.7		38.4	<0.1	1.15	3.84	1258	5.3		12.3	129	4.56	1.72	<0.5	1.03	<0.1	10.3
Louisville	600.6	10-Jan-13	<0.1	392	0.7	31.0		32.9	0.17	0.6	1.94	598	2.57		9.3	42	2.35	0.74	<0.5	0.97	0.15	5.

Sample/Station	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (mg/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
McAlpine	26-Mar-13	<0.1	2060	1.61	47.3		32.2	0.11	2.84	4.66	3516	7.28		9.4	160	6.36	3.23	<0.5	0.55	<0.1	17.6
McAlpine	09-Mar-13	<0.1	533	0.94	31.3		38.4	<0.1	0.76		819	2.55		9.7	45	2.12	0.82	<0.5	<0.5	<0.1	9.7
McAlpine	17-Jul-13	<0.1	832	1.27	44.0		31.8	<0.1	1.43	5.51	1407	6.35		8.6	86	3.41	1.49	<0.5	0.6	<0.1	11.1
McAlpine	11-Sep-13	<0.1	248	1.07	45.5		34.2	<0.1	<0.5	1.88	319	2.15		11.0	31	1.6	0.31	<0.5	0.92	<0.1	7.0
McAlpine	13-Nov-13	<0.1	298	1.11	46.8		45.6	<0.1	0.71	2.55	404	<1.5		14.3	23	2.34	0.43	<0.5	0.88	<0.1	3.5
McAlpine	14-Jan-14	<0.1	2710	1.45	50.8		41.0	<1	3.6	4.85	4150	9.8		11.6	193	6.09	3.38	0.11	<1	<0.1	18.9
McAlpine	11-Mar-14	<0.1	1210	<1	40.4		34.9	<1	2.83	3.22	2570	8.3		11.0	127	4.46	2.15	<0.1	<1	<0.1	12.3
McAlpine	28-May-14	<0.1	692	<1	42.5		34.5	<1	1.63	2.92	1260	<5		9.6	102	2.93	1.58	0.14	<1	<0.1	9.5
McAlpine	08-Jul-14	<0.1	208	1.29	43.8		36.1	<1	1.09	2.7	390	<5		10.3	27	1.8	<1	0.16	<1	<0.1	3.5
McAlpine	10-Sep-14	<0.1	349	1.11	47.1	<1	36.1	<1	<1	2.23	447	<1.5		11.7	37	2	<1	0.19	1.31	<0.1	4.7
McAlpine	24-Nov-14	<0.1	277	<1	40.0	<1	41.3	0.16	2.71	1.86	314	<1.5		11.4	24	1.92	<1	0.13	<1	<0.1	3.1
McAlpine	26-Jan-15	<0.1	1990	0.94	51.7		41.3	0.16	2.71	3.93	3611	14.68		11.7	291	3.97	3.43	<0.5	0.65	<0.1	15.4
West Point	16-Mar-10	<0.1	2622	1.55	80.3		43.8	0.13	4.71	6.81	4755	21.62		13.3	401	10.43	6.3	<0.5	0.74	<0.1	29.9
West Point	20-May-10	<0.1	3519	1.9	74.9		47.2	0.28	5.37	7.35	6864	24.51		13.1	398	12.3	6.97	<0.5	1.52	0.13	34.4
West Point	22-Jul-10	<0.1	733	1.29	57.8		46.9	<0.1	1.89	3.57	1257	7.81		15.2	120	3.24	1.43	<0.5	1.51	<0.1	7.5
West Point	16-Sep-10	<0.1	234	2.13	64.6		68.1	0.12	2.63	5.07	256	42.41		17.5	29	5.06	0.3	0.5	6.06	0.25	3.6
West Point	17-Nov-10	<0.1	140	0.95	68.5		57.7	<0.1	1.93	2.68	257	5.67		18.3	42	4.16	0.3	<0.5	2.35	<0.1	3.9
West Point	26-Jan-11	<0.1	336	0.6	51.5		45.5	<0.1	2.06	2.51	623	18		12.3	72	3.98	0.7	<0.5	1.71	<0.1	12.1
West Point	28-Mar-11	<0.1	1173	0.68	50.4		55.3	<0.1	1.9	3.45	2355	7.26		10.5	208	5.22	2.47	<0.5	0.78	<0.1	17.9
West Point	18-May-11	<0.1	2435	1.43	63.0		42.2	<0.1	3.53	5.74	4579	10.76		14.1	293	8.19	3.99	<0.5	0.94	<0.1	21.2
West Point	12-Jan-10	<0.1	242	0.46	31.7		32.9	<0.1	1.69	1.48	468	2.43		10.4	74	1.61	0.51	<0.5	0.59	<0.1	2.5
West Point	24-Mar-10	<0.1	1332	1.05	57.8		30.6	<0.1	2.75	4.8	2710	11.58		9.0	273	6.8	4.34	<0.5	<0.5	0.1	20.1
West Point	11-May-10	<0.1	1330	0.89	40.3		47.3	<0.1	2.08	2.99	1951	3.57		8.2	56	4.21	1.47	<0.5	0.51	<0.1	7.4
West Point	13-Jul-10	<0.1	103	0.76	48.4		32.9	<0.1	1.77	2.11	200	<1.5		14.9	18	1.52	0.27	<0.5	0.7	<0.1	1.9
West Point	02-Sep-10	<0.1	213	0.97	67.3		50.1	<0.1	2.36	2.46	322	<1.5		19.0	29	3.44	0.39	<0.5	1.69	<0.1	2.7
West Point	26-Jan-11	<0.1	264	0.36	43.8		34.9	<0.1	2.29	1.72	498	2.84		10.7	30	2.31	0.38	<0.5	1.18	<0.1	3.8
West Point	30-Mar-11	<0.1	1423	0.78	53.0		33.4	0.1	2.38	3.73	2683	7.55		10.1	223	5.61	2.61	<0.5	0.74	<0.1	18.0
West Point	24-May-11	<0.1	2553	1.99	72.0		41.4	0.19	4.02	6.51	5035	11.8		13.3	463	10.06	5.97	<0.5	0.88	0.13	28.0
West Point	12-Jul-11	<0.1	159	1.83	42.6		41.4	<0.1	2.09	0.69	257	<1.5		11.6	27	2.47	0.35	<0.5	0.68	<0.1	3.1
West Point	29-Sep-11	<0.1	336	1.02	57.4		42.6	<0.1	0.89	2.2	446	1.8		14.1	30	2.8	0.46	<0.5	1.14	<0.1	5.5
West Point	16-Nov-11	<0.1	382	1.11	38.8		37.1	<0.1	1.78	2.32	557	2.33		10.9	31	2.91	0.51	<0.5	0.88	<0.1	5.5
West Point	09-Jan-12	<0.1	846	1.01	37.6		31.8	<0.1	2.21	2.62	1433	4.23		9.7	96	3.77	1.35	<0.5	0.56	<0.1	8.8
West Point	14-Mar-12	<0.1	2500	1.61	51.3		31.3	<0.1	3.58	4.69	3980	11.08		9.1	225	6.31	3.68	<0.5	0.6	<0.1	22.3
West Point	31-May-12	<0.1	298	0.6	41.2		35.2	<0.1	1.49	1.7	269	<1.5		10.9	16	1.51	0.25	<0.5	0.57	<0.1	6.0
West Point	10-Jul-12	<0.1	284	1.23	46.6		35.0	<0.1	0.43	1.95	323	<1.5		12.2	22	1.79	0.32	<0.5	1.03	<0.1	3.1
West Point	12-Sep-12	<0.1	138	1.03	49.4		37.2	<0.1	0.27	2.09	182	<1.5		13.2	26	2.17	0.24	<0.5	1.24	<0.1	2.5
West Point	14-Nov-12	<0.1	241	0.84	50.0		39.3	<0.1	0.75	2.75	398	<1.5		12.3	29	2.66	0.49	<0.5	1.05	<0.1	3.3
West Point	29-Jan-13	<0.1	809	0.94	38.2		29.2	0.18	1.4	3.21	1493	<1.5		8.4	97	4.17	2.09	<0.5	0.79	<0.1	9.9
West Point	26-Mar-13	<0.1	2340	1.89	48.7		31.9	0.16	2.33	4.42	3709	10.13		8.9	162	6.38	3.59	<0.5	0.68	0.15	18.1
West Point	07-May-13	<0.1	771	0.89	38.0		37.1	<0.1	1.38	2.24	1033	3.32		10.3	57	2.58	1.01	<0.5	0.69	<0.1	6.5
West Point	16-Jul-13	<0.1	1690	1.64	48.9		30.8	<0.1	2.09	5.01	2887	7.75		9.2	165	5.52	2.88	<0.5	0.54	<0.1	17.6
West Point	24-Sep-13	<0.1	173	1.25	42.6		35.0	<0.1	<0.5	2.05	227	<1.5		10.7	25	1.78	0.28	<0.5	1	<0.1	2.4
West Point	20-Nov-13	<0.1	1140	1.37	48.8		43.5	<0.1	1.18	3.15	1584	4.72		13.0	64	3.41	1.61	<0.5	0.9	<0.1	9.9
West Point	20-Jan-14	<0.1	2060	1.46	51.3		34.6	<1	3.99	4.43	3270	11		10.7	181	6.8	3.06	0.2	<1	<0.1	18.0
West Point	18-Mar-14	<0.1	2490	1.41	50.2		35.4	<1	2.84	3.73	2850	8.7		11.7	114	5	2.29	0.12	<1	<0.1	14.9
West Point	28-May-14	<0.1	1210	1.27	45.6	<1	35.0	<1	2	3.53	1860	7.2		9.6	87	3.58	1.8	0.18	<1	<0.1	12.0
West Point	23-Jul-14	<0.1	206	1.54	43.5	<1	37.4	<1	<1	2.23	317	<1.5		11.3	25	1.67	<1	0.15	1.11	<0.1	3.6
West Point	17-Sep-14	<0.1	272	1.08	45.9	<1	37.7	<1	<1	2.23	393	1.7		11.6	36	2.14	<1	0.19	1.25	<0.1	5.1
West Point	18-Nov-14	<0.1	211	<1	42.3	<1	38.1	<1	<1	1.77	356	1.5		13.7	25	1.72	<1	0.14	1.06	<0.1	4.4
West Point	12-Jan-15	<0.1	388	0.5	33.9		36.2	<0.1	1.77	1.89	710	3.48		11.6	46	2.14	0.72	<0.5	0.66	0.1	2.7
West Point	24-Mar-15	<0.1	803	0.68	48.5		20.6	0.12	1.18	2.85	1836	13.1		5.3	245	5.76	2.61	<0.5	<0.5	0.1	16.4
West Point	11-May-15	<0.1	2011	1.33	46.9		34.7	0.1	2.86	3.98	2921	6.3		9.7	145	5.55	2.2	<0.5	0.63	<0.1	15.8
West Point	13-Jul-15	<0.1	49	1.02	48.8		45.2	<0.1	1.88	2.34	80	<1.5		14.4	14	1.35	0.19	<0.5	0.82	<0.1	1.4
West Point	07-Sep-15	<0.1	380	1.04	52.0		37.3	<0.1	2.26	2.47	438	<1.5		11.9	32	3.05	0.37	<0.5	1.18	<0.1	2.6
West Point	02-Nov-15	<0.1	170	1.17	67.2		51.8	<0.1	1.48	2.52	263	<1.5		18.3	25	3.64	0.3	<0.5	2.17	<0.1	2.6
West Point	26-Jan-16	<0.1	271	<0.1	44.0		35.7	<0.1	1.63	1.92	530	3.42		11.3	38	2.59	0.74	<0.5	0.98	<0.1	4.4
West Point	01-Mar-16	<0.1	5467	1.62	85.6		44.7	0.22	6.34	8.19	8377	17.82		12.1	483	11.88	7.25	<0.5	0.75	0.12	31.9
West Point	24-May-16	<0.1	109	1.36	53.0		38.5	<0.1	2.11	3.92	2127	6.09		13.2	210	5.82	2.56	<0.5	0.7	<0.1	13.1
West Point	12-Jul-11	<0.1	234	1.98	43.3		41.9	<0.1	1.73	2.45	378	2.77		13.3	38	2.77	0.42	<0.5	0.91	<0.1	3.1
West Point	29-Sep-11	<0.1	386	1.1	54.3		41.8	<0.1	1.2	2.32	556	2.35		14.5	40	2.86	0.46	<0.5	0.96	<0.1	3.4

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cl (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (mg/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sr (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Newburgh	776	16-Nov-11	<0.1	799	1.57	429		41.5	<0.1	1.79	3.11	1220	5.66		14.0	78	4.35	1.08	<0.5	0.89	<0.1	7.6
Newburgh	776	09-Jan-12	<0.1	1018	1.18	39.4		33.5	<0.1	1.95	7.41	1700	5.66		10.8	125	4.15	1.97	<0.5	0.88	<0.1	21.5
Newburgh	776	14-Mar-12	<0.1	1970	1.3	49.7		32.2	<0.1	3.1	4.37	3360	9.88		9.3	208	5.86	3.4	<0.5	0.88	<0.1	19.9
Newburgh	776	31-May-12	<0.1	410	0.9	41.4		35.6	<0.1	1.18	2.15	404	<1.5		11.3	27	1.88	0.45	<0.5	0.74	<0.1	4.4
Newburgh	776	10-Jul-12	<0.1	242	0.81	42.7		35.9	<0.1	0.28	2.17	175	<1.5		11.9	14	1.45	0.15	<0.5	0.89	<0.1	2.3
Newburgh	776	12-Sep-12	<0.1	240	1.04	51.2		38.3	<0.1	0.22	2.42	330	<1.5		13.7	34	2.3	0.33	<0.5	0.97	<0.1	4.4
Newburgh	776	14-Nov-12	<0.1	353	1.07	54.2		39.4	<0.1	0.38	2.67	501	1.54		12.6	44	3.01	0.58	<0.5	1.07	<0.1	4.9
Newburgh	776	29-Jan-13	<0.1	772	0.95	38.2		30.2	0.31	1.13	3.01	1456	3.05		8.9	102	3.51	2.17	<0.5	0.9	0.16	10.4
Newburgh	776	26-Mar-13	<0.1	320	2.49	59.7		34.2	0.21	3.96	6.26	5484	13.81		9.9	268	9.54	5.18	<0.5	<0.5	0.17	26.5
Newburgh	776	07-May-13	<0.1	903	1.16	39.4		33.5	<0.1	1.31	2.8	1546	5.79		10.4	93	3.31	1.49	<0.5	<0.5	<0.1	8.7
Newburgh	776	11-Jul-13	<0.1	1950	1.45	48.5		36.5	0.11	2.43	4.69	3404	8.37		8.1	200	5.56	3.55	<0.5	0.56	<0.1	15.0
Newburgh	776	24-Sep-13	<0.1	737	1.46	44.6		33.8	<0.1	0.7	2.93	899	3.15		10.9	99	2.77	0.91	<0.5	1.06	<0.1	6.1
Newburgh	776	20-Nov-13	<0.1	2580	2.01	60.6		44.7	0.11	3	5.61	3796	15.03		14.0	217	6.64	3.62	<0.5	0.85	<0.1	13.4
Newburgh	776	20-Jan-14	<0.1	2580	1.62	53.0		35.3	<1	4.04	4.67	3860	8.8		11.1	192	7.12	3.32	0.38	<1	<0.1	21.2
Newburgh	776	18-Mar-14	<0.1	2180	1.21	49.5		39.8	<1	2.21	3.39	2880	7.8		12.4	131	4.31	1.87	0.11	<1	<0.1	11.8
Newburgh	776	28-May-14	<0.1	1340	1.45	50.6		37.7	<1	2.01	4.04	2440	7.9	2.55	10.9	175	4.39	2.58	0.14	<1	<0.1	14.8
Newburgh	776	23-Jul-14	<0.1	159	1.38	42.5		38.6	<1	<1	2.38	245	1.6	3.14	11.1	24	1.68	<1	0.18	1.08	<0.1	2.1
Newburgh	776	17-Sep-14	<0.1	225	1.06	47.5		38.9	<1	<1	2.12	325	<1.5	3.21	12.9	26	1.87	<1	0.19	1.22	<0.1	4.5
Newburgh	776	18-Nov-14	<0.1	92	<1	40.7	<1	38.2	<1	<1	1.59	139	<1.5	2.94	13.6	19	1.64	<1	0.16	1.06	<0.1	1.9
Newburgh	776	13-Jan-10	<0.1	328	0.42	34.2		37.4	<0.1	1.48	1.56	625	2.9		12.0	43	1.85	0.61	<0.5	<0.5	<0.1	4.3
Newburgh	846	25-Mar-10	<0.1	1643	1.1	62.2		32.7	0.17	2.51	5.35	3224	13.41		9.9	312	7.14	4.86	<0.5	<0.5	0.18	21.7
Newburgh	846	12-May-10	<0.1	2441	1.34	49.3		31.4	0.15	2.95	4.3	3643	9.15		7.7	163	6.15	3.08	<0.5	<0.5	0.11	16.9
Newburgh	846	14-Jul-10	<0.1	156	0.82	46.2		42.9	<0.1	1.66	2.24	245	<1.5		13.0	27	1.37	0.25	<0.5	0.84	<0.1	1.9
Newburgh	846	08-Sep-10	<0.1	252	0.93	49.0		40.9	<0.1	2.44	2.12	320	3.11		12.3	33	2.84	0.94	<0.5	1.13	<0.1	2.3
Newburgh	846	03-Nov-10	<0.1	275	0.88	61.3		50.9	<0.1	2.09	2.92	183	<1.5		16.6	21	3.48	0.27	<0.5	1.83	0.33	3.8
Newburgh	846	26-Jan-11	<0.1	127	0.1	43.2		36.4	<0.1	2.23	1.9	529	2.33		11.1	37	2.71	0.53	<0.5	0.77	<0.1	3.8
Newburgh	846	01-Mar-11	<0.1	8208	2.04	121.5		47.8	0.46	10.15	14.21	1437	40.64		13.7	1011	20.72	13.78	<0.5	0.77	0.19	60.0
Newburgh	846	23-May-11	<0.1	3195	1.52	75.6		39.6	0.29	3.97	6.08	1739	<1.5		12.6	523	11.45	6.53	<0.5	0.61	0.11	38.0
Newburgh	846	12-Jul-11	<0.1	287	1.86	38.3		38.6	<0.1	1.24	2.34	455	<1.5		10.9	37	2.54	0.53	<0.5	0.75	<0.1	2.8
Newburgh	846	28-Sep-11	<0.1	892	1.26	62.4		44.9	<0.1	1.56	3.17	1291	2.91		15.4	78	3.99	1.24	<0.5	1.02	<0.1	10.6
Newburgh	846	17-Nov-11	<0.1	962	1.73	46.5		37.9	0.15	2.54	3.98	1669	7.14		11.4	99	4.68	1.9	<0.5	0.92	0.12	10.2
Newburgh	846	09-Jan-12	<0.1	1940	1.58	49.2		33.4	<0.1	3.3	5.11	3324	9.89		9.9	260	6.53	3.52	<0.5	0.55	<0.1	21.0
Newburgh	846	13-Mar-12	<0.1	2790	1.85	58.5		31.7	0.14	4.26	5.94	4550	13.18		9.3	285	7.64	4.72	<0.5	0.62	<0.1	27.1
Newburgh	846	30-May-12	<0.1	876	0.96	42.9		36.1	<0.1	1.57	1.68	891	2.31		10.3	56	2.31	0.72	<0.5	0.56	<0.1	5.3
Newburgh	846	10-Jul-12	<0.1	355	0.89	45.2		37.4	<0.1	0.39	1.87	253	<1.5		12.2	32	1.52	0.2	<0.5	0.91	<0.1	2.2
Newburgh	846	13-Sep-12	<0.1	159	1.08	52.9		39.6	<0.1	0.29	2.16	223	<1.5		14.7	36	2.14	0.28	<0.5	1.26	<0.1	4.9
Newburgh	846	15-Nov-12	<0.1	272	1.03	56.4		41.4	<0.1	0.58	2.64	451	<1.5		13.5	33	2.89	0.53	<0.5	1.14	<0.1	4.1
Newburgh	846	30-Jan-13	<0.1	919	1.11	37.8		30.4	0.23	1.39	3.53	1866	5.4		8.4	98	4.39	2.07	<0.5	0.79	<0.1	10.9
Newburgh	846	27-Mar-13	<0.1	2480	1.8	55.2		34.4	<0.1	3.21	5.58	4355	15.2		10.0	262	8.01	4.56	<0.5	0.56	<0.1	22.0
Newburgh	846	08-May-13	<0.1	1070	1.28	41.5		33.4	<0.1	1.56	3.28	1932	6.85		9.9	129	3.78	1.96	<0.5	0.54	<0.1	12.1
Newburgh	846	23-Jul-13	<0.1	689	1.18	42.6		35.2	<0.1	0.67	3.13	1173	3.71		9.5	76	2.58	1.2	<0.5	0.76	<0.1	6.6
Newburgh	846	19-Sep-13	<0.1	205	1.46	41.8		36.6	<0.1	<0.5	2.25	255	<1.5		11.7	23	1.59	0.3	<0.5	0.87	<0.1	3.7
Newburgh	846	20-Nov-13	<0.1	1390	1.57	52.9		43.9	<0.1	1.88	4.51	2334	11.43		13.6	134	5.39	2.46	<0.5	0.76	<0.1	14.3
Newburgh	846	21-Jan-14	<0.1	402	<1	32.8		35.6	<1	<1	1.84	669	<1.5		9.9	28	2.12	<1	<0.1	<1	<0.1	5.8
Newburgh	846	19-Mar-14	<0.1	865	<1	35.2		35.9	<1	<1	1.94	927	<1.5		10.5	37	2.41	<1	<0.1	<1	<0.1	5.8
Newburgh	846	29-May-14	<0.1	1300	1.44	49.8	<1	35.0	<1	2.29	4.09	2450	11	2.46	9.7	190	4.72	2.83	0.14	<1	<0.1	14.2
Newburgh	846	17-Jul-14	<0.1	139	1.04	45.2	<1	37.9	<1	<1	2.12	224	<1.5	3.24	10.8	28	1.43	<1	0.19	<1	<0.1	2.6
Newburgh	846	16-Sep-14	<0.1	234	1.01	50.1	<1	41.8	<1	<1	2.09	334	<1.5	3.45	13.4	254	5.67	3.3	0.17	<1	<0.1	7.2
Newburgh	846	19-Nov-14	<0.1	1700	1.61	58.1	<1	38.6	<1	2.48	4.77	2710	13.3	3.45	13.4	254	5.67	3.3	0.17	<1	<0.1	7.2
Newburgh	846	13-Jan-10	<0.1	1070	0.8	43.6		48.0	0.1	2.58	2.64	1638	4.3		15.2	85	3.07	1.29	<0.5	0.71	<0.1	17.6
Newburgh	918.5	25-Mar-10	<0.1	1559	1.02	62.9		38.5	<0.1	2.53	5.02	2773	10.3		11.9	234	6.67	3.78	<0.5	0.71	<0.1	19.6
Newburgh	918.5	13-May-10	<0.1	2486	1.53	57.4		38.9	0.16	3.82	4.57	3587	8.99		10.8	209	6.6	3.27	<0.5	0.66	<0.1	16.6
Newburgh	918.5	15-Jul-10	<0.1	285	1.01	49.4		53.5	<0.1	2.11	2.77	988	<1.5		16.5	30	1.61	0.35	<0.5	0.59	<0.1	2.1
Newburgh	918.5	09-Sep-10	<0.1	505	1.2	54.9		44.5	<0.1	2.46	1.96	632	<1.5		15.5	50	3.08	0.41	<0.5	0.95	<0.1	3.0
Newburgh	918.5	03-Nov-10	<0.1	151	0.83	61.0		52.3	<0.1	1.83	1.89	228	<1.5		18.9	46	3.11	0.3	<0.5	1.59	<0.1	2.4
Newburgh	918.5	27-Jan-11	<0.1	281	0.14	44.8		42.2	<0.1	1.84	1.85	519	<1.5		12.8	39	2.58	0.46	<0.5	0.65	<0.1	3.7
Newburgh	918.5	29-Mar-11	<0.1	1751	0.94	56.2		41.4	0.15	2.81	4.03	2889	8.53		12.1	212	5.68	2.67	<0.5	0.75	<0.1	14.1
Newburgh	918.5	23-May-11	<0.1	1987	2.11	58.3		42.0	0.1	3.17	4.59	3493	7.85		13.2	264	6.72	3.09	<0.5	0.81	<0.1	15.3
Newburgh	918.5	13-Jul-11	<0.1	349	2.44	39.7		36.8	<0.1	2.32	2.35	516	<1.5		10.7	90	2.45	0.49	<0.5	0.85	<0.1	2.5
Newburgh	918.5	28-Sep-11	<0.1	1166	1.59	59.5		42.5	<0.1	1.94	2.96	1599	2.82		14.5	35	3.64	1.31	<0.5	0.84	<0.1	8.0
Newburgh	918.5	17-Nov-11	<0.1	528	1.46	46.3		40.7	<0.1	1.39	2.58	820	3									

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Smithland	918.5	10-Jan-12	<0.1	1465	1.97	46.2		44.3	<0.1	243	3.46	2104	5.38		13.5	133	4.65	2.25	<0.5	0.73	<0.1	11.0
Smithland	918.5	13-Mar-12	<0.1	3220	1.9	62.5		37.7	0.24	4.21	5.61	4790	12.59		11.6	268	7.52	4.26	<0.5	0.62	<0.1	23.8
Smithland	918.5	30-May-12	<0.1	388	0.83	40.5		38.4	<0.1	1.13	2.07	366	<1.5		12.0	32	1.6	0.36	<0.5	0.66	<0.1	2.8
Smithland	918.5	11-Jul-12	<0.1	58	1.38	43.5		38.2	<0.1	1.57	1.48	104	<1.5		15.5	36	1.26	0.14	<0.5	0.67	<0.1	8.8
Smithland	918.5	13-Sep-12	<0.1	157	1.24	51.2		40.1	<0.1	0.33	1.9	220	<1.5		14.8	59	2.31	0.32	<0.5	0.99	<0.1	1.0
Smithland	918.5	15-Nov-12	<0.1	250	0.93	60.4		45.5	<0.1	0.25	2.36	382	<1.5		15.7	28	2.71	0.47	<0.5	0.87	<0.1	4.0
Smithland	918.5	27-Mar-13	<0.1	2400	1.6	53.8		36.1	0.14	3.24	4.45	3374	7.65		10.7	134	5.52	3.56	<0.5	1.13	<0.1	17.9
Smithland	918.5	30-Jan-13	<0.1	2560	1.25	55.5		38.6	0.11	3.62	4.53	3871	9.42		11.3	188	5.77	3.82	<0.5	<0.5	0.33	18.1
Smithland	918.5	08-May-13	<0.1	1170	1.63	50.0		42.8	0.11	1.76	3.44	1701	7.19		12.8	88	3.54	1.52	<0.5	0.6	<0.1	8.2
Smithland	918.5	23-Jul-13	<0.1	273	1.18	39.1		36.6	<0.1	<0.5	2.14	392	<1.5		10.7	27	1.62	0.4	<0.5	0.71	<0.1	3.0
Smithland	918.5	19-Sep-13	<0.1	205	2.49	46.0		40.2	<0.1	<0.5	4.26	1991	7.24		14.3	30	1.72	0.25	<0.5	0.91	<0.1	3.0
Smithland	918.5	20-Nov-13	<0.1	1280	1.65	47.4		40.0	<0.1	1.54	4.26	1991	7.24		12.2	98	4.09	1.78	<0.5	0.78	<0.1	12.4
Smithland	918.5	21-Jan-14	<0.1	1620	1.12	50.2		41.0	<1	2.73	3.77	2750	8.4		12.3	152	4.62	2.54	0.1	<1	<0.1	12.9
Smithland	918.5	19-Mar-14	<0.1	3920	1.65	58.7		41.0	<1	4.17	4.62	4120	15.2		12.7	142	6.28	3.74	0.13	<1	<0.1	17.7
Smithland	918.5	29-May-14	<0.1	1070	1.29	48.3		40.5	<1	1.6	3.82	1790	9.7		11.3	118	3.58	1.91	0.14	<1	<0.1	24.5
Smithland	918.5	16-Sep-14	<0.1	386	1.17	47.8		41.9	<1	1.01	1.87	203	<1.5		13.4	41	2.11	<1	0.2	1.15	<0.1	3.4
Smithland	918.5	19-Nov-14	<0.1	60	<1	40.3		43.8	<1	<1	1.41	80	<1.5		14.7	13	1.25	<1	0.15	1.1	<0.1	2.6
Smithland	938.9	25-Mar-10	<0.1	1353	1.2	58.2		37.8	<0.1	2.28	2.38	1486	4.4		14.1	102	2.67	1.37	<0.5	0.58	<0.1	7.1
Smithland	938.9	12-May-10	<0.1	1946	1.31	48.2		36.1	0.13	2.89	3.89	2678	6.27		9.6	120	5.19	2.28	<0.5	0.6	0.11	11.8
Smithland	938.9	08-Sep-10	<0.1	484	1.33	47.6		37.3	<0.1	2.02	1.75	616	3.25		12.0	56	2.7	0.45	<0.5	0.92	<0.1	3.3
Smithland	938.9	03-Nov-10	<0.1	269	1	45.7		36.8	<0.1	2	1.56	389	<1.5		12.9	53	2.37	0.45	<0.5	1.36	<0.1	6.3
Smithland	938.9	27-Jan-11	<0.1	379	0.34	45.9		41.5	<0.1	1.7	1.95	733	2.61		12.3	54	2.86	0.65	<0.5	0.88	<0.1	4.2
Smithland	938.9	16-Mar-11	<0.1	1250	0.84	46.4		32.7	<0.1	1.79	2.88	1681	5.52		8.5	44	3.42	1.7	<0.5	0.53	<0.1	10.2
Smithland	938.9	23-May-11	<0.1	1763	1.97	57.0		43.8	0.13	2.9	4.32	2867	7.83		11.6	434	5.79	4.11	<0.5	0.85	<0.1	15.7
Smithland	938.9	13-Jul-11	<0.1	1355	1.75	65.0		45.8	<0.1	2.24	3.34	1897	4.02		16.2	127	4.66	1.81	<0.5	0.95	<0.1	11.2
Smithland	938.9	28-Sep-11	<0.1	1560	1.76	53.4		40.3	0.18	2.88	3.97	2023	6.39		12.7	109	5.1	2.03	<0.5	0.85	0.13	11.0
Smithland	938.9	17-Nov-11	<0.1	1708	1.54	47.4		40.0	<0.1	2.55	3.85	2515	7.53		12.0	176	5.04	2.26	<0.5	0.64	<0.1	14.0
Smithland	938.9	13-Mar-12	<0.1	2140	1.67	52.4		34.9	<0.1	3.4	4.28	3290	9.25		10.5	175	5.52	3.14	<0.5	0.59	<0.1	18.3
Smithland	938.9	30-May-12	<0.1	411	0.89	38.5		35.1	<0.1	1.23	1.87	370	<1.5		10.8	37	1.53	0.36	<0.5	0.99	<0.1	4.0
Smithland	938.9	11-Jul-12	<0.1	132	1.51	33.0		26.1	<0.1	0.39	1.16	175	<1.5		8.8	56	1.04	0.21	<0.5	<0.5	<0.1	5.2
Smithland	938.9	12-Sep-12	<0.1	230	1.34	51.0		38.2	<0.1	0.34	2.19	330	<1.5		13.7	55	2.34	0.46	<0.5	1.45	<0.1	4.7
Smithland	938.9	15-Nov-12	<0.1	351	0.94	61.9		46.2	<0.1	0.37	2.53	561	<1.5		16.4	40	2.76	0.55	<0.5	0.96	<0.1	5.7
Smithland	938.9	30-Jan-13	<0.1	4680	2.04	79.8		34.3	0.21	6.5	7.46	6407	17.24		10.2	285	9.78	6.31	<0.5	0.72	<0.1	42.2
Smithland	938.9	27-Mar-13	<0.1	2980	1.79	64.7		36.5	0.21	4.36	6.03	5008			10.8	281	8.26	6.31	<0.5	0.58	0.13	27.4
Smithland	938.9	21-May-13	<0.1	1220	1.56	49.9		41.7	<0.1	1.95	3.35	1751	8.96		12.2	99	3.57	1.67	<0.5	0.74	<0.1	9.4
Smithland	938.9	23-Jul-13	<0.1	1190	1.58	45.2		36.4	<0.1	1.2	3.27	1865	5		9.8	156	3.26	1.55	<0.5	0.54	<0.1	12.1
Smithland	938.9	24-Sep-13	<0.1	574	1.62	48.0		40.8	<0.1	0.64	2.27	597	4.05		13.7	52	1.99	0.66	<0.5	0.97	<0.1	5.3
Smithland	938.9	20-Nov-13	<0.1	1900	1.79	54.7		42.0	0.12	2.51	6.5	3083	14.56		12.7	177	5.64	2.95	<0.5	0.88	<0.1	16.4
Smithland	938.9	21-Jan-14	<0.1	4720	2.32	69.4		41.7	<1	5.94	6.59	6000	18		12.5	301	9.09	5.29	0.25	<1	<0.1	36.3
Smithland	938.9	19-Mar-14	<0.1	4050	1.85	61.6		43.2	<1	4.17	5.02	4270	11.8		13.2	144	6.5	3.22	0.14	<1	<0.1	20.3
Smithland	938.9	29-May-14	<0.1	1730	1.57	57.1		41.4	<1	2.63	4.56	2940	16		11.8	205	4.88	3	0.14	<1	<0.1	15.9
Smithland	938.9	17-Jul-14	<0.1	259	1.29	49.5		46.8	<1	<1	2.02	416	<1.5		14.3	37	1.65	<1	0.18	<1	<0.1	3.9
Smithland	938.9	17-Sep-14	<0.1	514	1.62	45.6		38.7	<1	1.16	2.17	597	<1.5		12.0	44	2.21	<1	0.2	1.03	<0.1	3.9
Smithland	938.9	19-Nov-14	<0.1	191	<1	40.4		42.5	<1	<1	1.64	290	<1.5		14.3	25	1.6	<1	0.16	1.04	<0.1	2.6

Appendix B. Dissolved Metals Results, January 2010 through December 2014

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Si (ug/L)	Zn (ug/L)
New Cumberland	1	18-Jan-10	<0.1	17.8	0.32	50.5		34.2	<0.1	1.15	1.17	<50	<1.5		9.2	119.3	3.80	0.11	<0.5	<0.5	<0.1	4.52
New Cumberland	54.4	17-Mar-10	<0.1	18.8	0.33	33.2		19.0	<0.1	0.46	1.11	<50	<1.5		5.0	75.1	2.87	0.11	<0.5	<0.5	<0.1	2.45
New Cumberland	54.4	12-May-10	<0.1	18.7	0.49	40.6		30.6	<0.1	1.12	2.59	<50	<1.5		8.0	35.6	2.74	<0.1	<0.5	<0.5	<0.1	2.08
New Cumberland	54.4	20-Jul-10	<0.1	13.4	0.78	62.3		36.7	<0.1	0.94	5.11	<50	R		10.0	3.2	1.78	<0.1	<0.5	0.87	<0.1	3.25
New Cumberland	54.4	23-Sep-10	<0.1	9.0	0.93	91.0		42.5	<0.1	2.42	5.17	<50	<1.5		11.3	1.4	2.59	<0.1	<0.5	1.23	<0.1	2.97
New Cumberland	54.4	02-Nov-10	<0.1	9.4	0.76	57.9		38.1	<0.1	0.77	4.78	<50	<1.5		10.1	6.6	2.78	<0.1	<0.5	1.07	<0.1	3.61
New Cumberland	54.4	18-Jan-11	<0.1	14.3	0.38	43.4		23.5	<0.1	1.06	1.93	<50	<1.5		6.1	73.3	3.11	<0.1	<0.5	<0.5	<0.1	3.92
New Cumberland	54.4	21-Mar-11	<0.1	16.4	0.29	35.7		22.3	<0.1	0.34	1.38	<50	<1.5		6.1	118.2	3.90	<0.1	<0.5	<0.5	<0.1	3.14
New Cumberland	54.4	26-May-11	<0.1	27.3	0.64	36.4		26.5	<0.1	0.32	1.87	<50	<1.5		7.6	37.1	3.22	0.13	<0.5	0.59	<0.1	1.59
New Cumberland	54.4	21-Jul-11	<0.1	17.7	0.85	55.6		42.3	<0.1	1.04	5.78	<50	<1.5		11.8	3.4	2.29	<0.1	<0.5	0.77	<0.1	4.3
New Cumberland	54.4	08-Sep-11	<0.1	11.5	0.55	48.3		39.1	<0.1	1.68	2.76	<50	<1.5		10.5	3.1	2.12	<0.1	<0.5	0.7	<0.1	2.42
New Cumberland	54.4	15-Nov-11	<0.1	13.6	0.45	38.2		30.1	<0.1	0.99	1.79	<50	<1.5		8.4	67.4	3.06	<0.1	<0.5	<0.5	<0.1	R
New Cumberland	54.4	09-Jan-12	<0.1	16.4	0.48	33.0		23.5	<0.1	0.99	1.35	<50	<1.5		7.1	90.0	3.99	0.12	<0.5	0.51	<0.1	3.88
New Cumberland	54.4	08-Mar-12	<0.1	18.2	0.18	29.8		21.1	<0.1	0.5	0.98	<50	<1.5		5.7	63.2	2.16	<0.1	<0.5	<0.5	<0.1	2.04
New Cumberland	54.4	15-May-12	<0.1	14.6	0.41	35.2		21.9	<0.1	<0.1	2.99	<50	<1.5		6.0	24.7	2.08	<0.1	<0.5	<0.5	<0.1	1.76
New Cumberland	54.4	23-Jul-12	<0.1	11.9	0.79	51.1		37.5	<0.1	0.37	R	<50	<1.5		11.1	3.3	2.07	<0.1	<0.5	1.05	<0.1	2.59
New Cumberland	54.4	19-Sep-12	<0.1	9.5	0.9	46.3		34.9	<0.1	0.5	2.08	<50	<1.5		9.7	11.3	2.21	<0.1	<0.5	1.23	<0.1	2.18
New Cumberland	54.4	20-Nov-12	<0.1	17.5	0.36	33.3		23.2	<0.1	0.18	2.12	<50	<1.5		5.9	66.3	2.58	<0.1	<0.5	<0.5	<0.1	2.95
New Cumberland	54.4	09-Jan-13	<0.1	16.7	0.36	35.9		29.2	<0.1	0.2	1.85	<50	<1.5		7.7	94.0	3.27	0.14	<0.5	<0.5	<0.1	R
New Cumberland	54.4	20-Mar-13	<0.1	19.4	0.25	31.6		24.8	<0.1	0.18	1.06	<50	<1.5		6.7	75.7	3.15	<0.1	<0.5	<0.5	<0.1	3.28
New Cumberland	54.4	14-May-13	<0.1	19.6	0.45	40.0		31.2	<0.1	<0.5	2.54	<50	<1.5		9.0	13.6	2.13	<0.1	<0.5	0.55	<0.1	2.14
New Cumberland	54.4	15-Jul-13	<0.1	16.2	0.63	36.3		27.2	<0.1	<0.5	2.68	<50	<1.5		6.9	4.1	1.66	<0.1	<0.5	0.63	<0.1	1.27
New Cumberland	54.4	11-Sep-13	<0.1	14.2	0.64	40.2		26.1	<0.1	<0.5	4.49	<50	<1.5		6.8	23.0	1.73	<0.1	<0.5	0.63	<0.1	2.18
New Cumberland	54.4	14-Nov-13	<0.1	9.1	0.69	36.1		26.5	<0.1	<0.5	3.3	<50	<1.5		6.5	18.5	1.59	<0.1	<0.5	<0.5	<0.1	2.23
New Cumberland	54.4	13-Jan-14	<0.1	13.3	<1	32.5		26.3	<1	<1	1.66	<50	<1.5		6.6	88.4	2.65	<1	<0.1	<1	<0.1	3.32
New Cumberland	54.4	31-Mar-14	<0.1	19.8	<1	32.9		25.7	<1	<1	1.28	<50	<1.5		7.6	109.0	3.01	<1	<0.1	<1	<0.1	1.77
New Cumberland	54.4	14-May-14	<0.1	18.9	<1	30.2		30.3	<1	<1	1.65	<50	<1.5		7.8	9.5	1.39	<1	0.11	<1	<0.1	R
New Cumberland	54.4	29-Jul-14	<0.1	18.9	<1	43.4		30.3	<1	<1	2.94	<50	<1.5		8.7	52.6	1.44	<1	0.13	<1	<0.1	2.3
New Cumberland	54.4	23-Sep-14	<0.1	13.6	<1	43.8		42.3	<0.1	1.71	3.03	<50	<1.5		11.8	3.5	2.62	<0.1	<0.5	1.6	<0.1	1.18
New Cumberland	54.4	19-Nov-14	<0.1	12.6	<1	37.1		27.3	<1	<1	2.19	<50	<1.5		7.1	43.4	1.47	<1	<0.1	<1	<0.1	1.7
Pike Island	84.2	18-Jan-10	<0.1	10.3	0.31	47.1		36.2	<0.1	1.02	0.95	<50	<1.5		9.0	103.2	2.95	<0.1	<0.5	0.53	<0.1	3.04
Pike Island	84.2	17-Mar-10	<0.1	18.9	0.35	34.3		20.5	<0.1	0.63	1.01	<50	<1.5		5.2	71.7	2.74	<0.1	<0.5	<0.5	<0.1	1.83
Pike Island	84.2	12-May-10	<0.1	16.3	0.46	41.0		30.4	<0.1	1.03	1.61	<50	<1.5		7.8	16.9	2.60	<0.1	<0.5	<0.5	<0.1	3.51
Pike Island	84.2	20-Jul-10	<0.1	17.9	0.91	58.1		40.2	<0.1	0.61	R	<50	<1.5		11.4	0.6	1.92	<0.1	<0.5	1.13	<0.1	<1
Pike Island	84.2	23-Sep-10	<0.1	12.6	<1	37.1		42.3	<0.1	1.71	3.03	<50	<1.5		10.9	8.1	2.51	<0.1	<0.5	0.33	<0.1	2.03
Pike Island	84.2	02-Nov-10	<0.1	6.6	0.66	58.3		40.1	<0.1	1.18	2.46	<50	<1.5		10.9	8.1	2.51	<0.1	<0.5	0.33	<0.1	2.03
Pike Island	84.2	18-Jan-11	<0.1	17.8	0.16	35.8		22.7	<0.1	0.21	1	<50	<1.5		6.0	118.1	3.74	<0.1	<0.5	<0.5	<0.1	3.19
Pike Island	84.2	21-Mar-11	<0.1	12.7	0.43	38.3		22.3	<0.1	0.71	1.25	<50	<1.5		5.9	83.2	3.01	<0.1	<0.5	<0.5	<0.1	3.09
Pike Island	84.2	26-May-11	<0.1	27.1	0.42	35.1		23.5	<0.1	0.48	1.44	<50	<1.5		6.8	24.3	3.05	<0.1	<0.5	0.59	<0.1	1.55
Pike Island	84.2	08-Sep-11	<0.1	17.0	0.87	56.3		43.1	<0.1	0.97	3.18	<50	<1.5		12.6	0.4	2.37	<0.1	<0.5	1.12	<0.1	1.79
Pike Island	84.2	16-Nov-11	<0.1	14.5	0.25	32.3		25.8	<0.1	0.58	1.14	<50	<1.5		6.6	50.2	2.37	<0.1	<0.5	<0.5	<0.1	R
Pike Island	84.2	09-Jan-12	<0.1	17.0	0.27	28.9		22.6	<0.1	0.58	1.01	<50	<1.5		6.1	66.2	3.11	<0.1	<0.5	<0.5	<0.1	3.64
Pike Island	84.2	08-Mar-12	<0.1	18.8	0.22	29.7		21.1	<0.1	0.51	1	<50	<1.5		5.4	57.8	2.18	<0.1	<0.5	<0.5	<0.1	2.18
Pike Island	84.2	15-May-12	<0.1	12.9	0.29	35.0		22.3	<0.1	<0.1	1.58	<50	<1.5		6.0	17.1	1.78	<0.1	<0.5	<0.5	<0.1	<1
Pike Island	84.2	23-Jul-12	<0.1	14.3	1.02	47.5		36.9	<0.1	0.35	2.69	<50	<1.5		10.9	5.8	2.30	<0.1	<0.5	1.21	<0.1	2.2
Pike Island	84.2	19-Sep-12	<0.1	9.9	1.05	45.2		35.9	<0.1	0.18	2.24	<50	<1.5		10.6	3.0	2.26	<0.1	<0.5	1.21	<0.1	1.56
Pike Island	84.2	20-Nov-12	<0.1	14.7	0.36	33.2		24.6	<0.1	0.33	1.38	<50	<1.5		6.4	54.5	2.39	<0.1	<0.5	0.52	<0.1	1.62
Pike Island	84.2	09-Jan-13	<0.1	17.7	0.38	36.4		30.1	<0.1	0.15	1.23	<50	<1.5		7.8	82.3	2.95	<0.1	<0.5	<0.5	<0.1	2.99
Pike Island	84.2	20-Mar-13	<0.1	16.6	0.76	32.6		23.5	<0.1	0.14	R	<50	<1.5		6.2	84.9	3.25	<0.1	<0.5	<0.5	<0.1	R
Pike Island	84.2	14-May-13	<0.1	19.7	0.42	42.9		35.9	<0.1	<0.5	R	<50	<1.5		10.3	7.5	2.01	<0.1	<0.5	0.55	<0.1	1.78
Pike Island	84.2	15-Jul-13	<0.1	15.6	0.22	36.4		27.9	<0.1	<0.5	2.17	<50	<1.5		6.9	7.5	1.76	<0.1	<0.5	0.55	<0.1	1.22
Pike Island	84.2	11-Sep-13	<0.1	14.1	0.69	37.7		24.4	<0.1	<0.5	2.22	<50	<1.5		6.6	41.8	1.56	<0.1	<0.5	0.58	<0.1	1.78
Pike Island	84.2	14-Nov-13	<0.1	10.3	0.65	37.9		31.8	<0.1	<0.5	1.55	<50	<1.5		7.9	18.2	1.73	0.11	<0.5	0.57	<0.1	1.78
Pike Island	84.2	13-Jan-14	<0.1	11.2	<1	33.3		28.5	<1	<1	<1	<50	<1.5		7.0	81.0	2.62	<1	<0.1	<1	<0.1	2.48
Pike Island	84.2	31-Mar-14	<0.1	19.5	<1	33.3		29.9	<1	<1	<1	<50	<1.5		7.8	34.0	1.59	<1	<0.1	<1	<0.1	R
Pike Island	84.2	29-Jul-14	<0.1	16.0	<1	42.8		32.1	<1	<1	1.77	<50	<1.5		8.5	16.2	1.43	<1	0.12	<1	<0.1	1.72
Pike Island	84.2	23-Sep-14	<0.1	14.4	<1	45.3		36.4	<1	<1	2.16	<50	<1.5		10.8	19.4	1.43	<1	0.15	<1	<0.1	1.72
Pike Island	84.2	19-Nov-14	<0.1	12.0	<1	34.3		27.0	<1	<1	1.21	<50	<1.5		7.1	38.7	1.19	<1	<0.1	<1	<0.1	1.66

R - Indicates data redacted due to QA issues.

Appendix B. Dissolved Metals Results, January 2010 through December 2014

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Bg (ug/L)	Ca (mg/L)	Cd (ug/L)	Ce (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Tl (ug/L)	Zn (ug/L)
Hannibal	126.4	20-Jan-10	<0.1	11.2	0.33	50.9		35.3	<0.1	0.7	1.21	<50	<1.5		9.4	108.1	3.76	<0.1	<0.5	0.53	<0.1	2.77
Hannibal	126.4	18-Mar-10	<0.1	18.1	0.16	30.9		18.6	<0.1	0.32	0.8	<50	<1.5		4.9	62.0	2.39	<0.1	<0.5	<0.5	<0.1	1.44
Hannibal	126.4	19-May-10	<0.1	13.2	0.42	40.4		24.0	<0.1	0.39	1.35	<50	<1.5		6.5	16.0	2.54	<0.1	<0.5	<0.5	<0.1	2.41
Hannibal	126.4	21-Jul-10	<0.1	12.3	0.9	62.6		43.6	<0.1	0.46	2.52	<50	<1.5		12.3	4.0	2.51	<0.1	<0.5	1.25	<0.1	<1
Hannibal	126.4	14-Sep-10	<0.1	9.7	0.8	78.7		42.4	<0.1	1.85	3.22	<50	<1.5		11.9	7.2	2.17	<0.1	<0.5	1.37	<0.1	<1
Hannibal	126.4	08-Nov-10	<0.1	7.2	0.85	58.5		40.7	<0.1	0.74	3.1	<50	<1.5		11.2	9.5	2.68	<0.1	<0.5	1.15	<0.1	1.81
Hannibal	126.4	25-Jan-11	<0.1	8.9	0.36	42.9		24.7	<0.1	0.77	1.41	<50	<1.5		6.3	76.7	2.73	<0.1	<0.5	0.56	<0.1	3.52
Hannibal	126.4	29-Mar-11	<0.1	26.0	0.2	36.6		26.0	<0.1	0.69	1.76	<50	<1.5		7.1	114.3	3.53	<0.1	<0.5	<0.5	<0.1	R
Hannibal	126.4	24-May-11	<0.1	27.5	0.47	46.2		26.9	<0.1	0.89	1.02	<50	<1.5		7.3	13.2	3.35	<0.1	<0.5	0.52	<0.1	1.11
Hannibal	126.4	19-Jul-11	<0.1	22.7	0.64	56.3		42.5	<0.1	0.49	2.48	<50	<1.5		12.3	2.2	2.14	<0.1	<0.5	0.74	<0.1	1.82
Hannibal	126.4	14-Sep-11	<0.1	10.4	0.53	39.7		31.3	<0.1	0.94	2.4	<50	<1.5		7.8	3.9	1.97	<0.1	<0.5	<0.5	<0.1	1.74
Hannibal	126.4	09-Nov-11	<0.1	13.6	0.38	30.1		23.4	<0.1	0.93	1.26	<50	<1.5		6.1	26.8	2.16	<0.1	<0.5	<0.5	<0.1	2.17
Hannibal	126.4	10-Jan-12	<0.1	17.6	0.34	28.1		29.3	<0.1	0.57	0.88	<50	<1.5		6.4	56.8	3.09	0.16	<0.5	<0.5	<0.1	2.38
Hannibal	126.4	12-Mar-12	<0.1	18.3	0.3	30.5		26.5	<0.1	0.24	1.04	<50	<1.5		6.9	49.7	2.05	<0.1	<0.5	<0.5	<0.1	1
Hannibal	126.4	16-May-12	<0.1	13.6	0.4	34.7		23.8	<0.1	0.15	1.31	<50	<1.5		6.5	23.6	1.78	<0.1	<0.5	<0.5	<0.1	1
Hannibal	126.4	24-Jul-12	<0.1	15.3	0.77	49.5		38.9	<0.1	0.35	2.32	<50	<1.5		11.6	9.9	2.10	<0.1	<0.5	1.16	<0.1	1.93
Hannibal	126.4	27-Sep-12	<0.1	10.1	0.97	46.2		37.3	<0.1	0.23	2.48	<50	<1.5		11.0	32.9	2.94	<0.1	<0.5	1.18	<0.1	1.93
Hannibal	126.4	19-Nov-12	<0.1	14.2	0.51	35.3		26.1	<0.1	0.22	1.22	<50	<1.5		6.9	40.2	2.38	<0.1	<0.5	0.59	<0.1	1.03
Hannibal	126.4	14-Jan-13	<0.1	15.3	0.44	38.0		34.2	<0.1	0.34	1.24	<50	<1.5		9.0	64.8	3.00	<0.1	<0.5	0.54	<0.1	3.33
Hannibal	126.4	19-Mar-13	<0.1	21.8	0.35	35.8		28.4	<0.1	0.21	1.02	<50	<1.5		7.6	78.2	3.10	<0.1	<0.5	<0.5	<0.1	2.12
Hannibal	126.4	21-May-13	<0.1	16.7	0.4	37.9		29.8	<0.1	<0.5	1.22	<50	<1.5		9.0	26.7	1.94	<0.1	<0.5	0.56	<0.1	R
Hannibal	126.4	18-Jul-13	<0.1	13.9	0.69	37.6		29.3	<0.1	0.21	1.02	<50	<1.5		7.1	7.9	1.63	<0.1	<0.5	0.55	<0.1	<1
Hannibal	126.4	05-Sep-13	<0.1	13.3	0.51	39.4		26.1	<0.1	<0.5	1.79	<50	<1.5		6.9	29.4	1.54	<0.1	<0.5	0.57	<0.1	2.07
Hannibal	126.4	11-Nov-13	<0.1	9.6	0.69	39.1		34.5	<0.1	<0.5	1.66	<50	<1.5		8.7	17.3	1.72	<0.1	<0.5	0.78	<0.1	1.9
Hannibal	126.4	20-Jan-14	<0.1	15.1	<1	32.8		26.2	<1	<1	<1	<50	<1.5		6.4	56.7	2.55	<1	<0.1	<1	<0.1	2.27
Hannibal	126.4	10-Mar-14	<0.1	17.0	<1	35.3		29.6	<1	<1	1.31	<50	<1.5		8.3	102.0	3.30	<1	<0.1	<1	<0.1	R
Hannibal	126.4	19-May-14	<0.1	15.7	<1	32.4	<1	24.5	<1	<1	1.2	<50	<1.5		5.9	5.8	1.31	<1	<0.1	<1	<0.1	1.01
Hannibal	126.4	21-Jul-14	<0.1	16.8	<1	41.7	<1	30.1	<1	<1	1.56	<50	<1.5		8.3	25.1	1.37	<1	0.13	<1	<0.1	1.91
Hannibal	126.4	24-Sep-14	<0.1	14.8	<1	39.6	<1	27.3	<1	<1	1.27	<50	<1.5		7.2	30.2	1.32	<1	<0.1	<1	<0.1	1.74
Hannibal	126.4	19-Nov-14	<0.1	11.2	<1	34.5	<1	35.6	<0.1	1.13	1.23	<50	<1.5		9.1	70.7	2.97	<0.1	<0.5	0.63	<0.1	1.73
Willow Island	161.8	20-Jan-10	<0.1	11.3	0.38	44.9		32.2	<0.1	0.43	1.21	<50	<1.5		5.3	56.5	2.49	<0.1	<0.5	<0.5	<0.1	1.16
Willow Island	161.8	18-Mar-10	<0.1	16.2	0.36	32.2		22.4	<0.1	0.46	1.42	<50	<1.5		5.9	13.6	2.30	<0.1	<0.5	0.51	<0.1	1.86
Willow Island	161.8	19-May-10	<0.1	13.1	0.44	37.9		43.5	<0.1	0.3	2.41	<50	<1.5		12.4	0.4	2.14	<0.1	<0.5	1.39	<0.1	2.08
Willow Island	161.8	27-Jul-10	<0.1	12.1	0.83	60.1		43.3	<0.1	1.95	2.15	<50	<1.5		12.6	1.6	2.48	<0.1	<0.5	1.8	<0.1	1.22
Willow Island	161.8	27-Sep-10	<0.1	7.4	0.86	79.5		43.0	<0.1	0.71	2.57	<50	<1.5		11.2	6.1	2.65	<0.1	<0.5	1.13	<0.1	2.29
Willow Island	161.8	08-Nov-10	<0.1	6.6	0.82	67.2		22.5	<0.1	0.75	1.37	<50	<1.5		5.8	75.0	3.07	<0.1	<0.5	0.71	<0.1	3.02
Willow Island	161.8	25-Jan-11	<0.1	11.9	0.4	36.3		23.2	<0.1	0.27	1.08	<50	<1.5		6.3	104.2	3.47	<0.1	<0.5	0.53	<0.1	2.76
Willow Island	161.8	22-Mar-11	<0.1	18.6	0.3	36.6		27.9	<0.1	0.72	1.69	<50	<1.5		7.4	6.6	3.09	<0.1	<0.5	0.69	<0.1	R
Willow Island	161.8	24-May-11	<0.1	24.2	0.27	36.0		42.5	<0.1	0.76	1.84	<50	<1.5		12.6	3.9	2.13	<0.1	<0.5	0.84	<0.1	<1
Willow Island	161.8	19-Jul-11	<0.1	12.8	0.66	55.6		36.9	<0.1	1.43	1.96	<50	<1.5		10.0	5.5	2.02	<0.1	<0.5	0.5	<0.1	1.57
Willow Island	161.8	14-Sep-11	<0.1	8.7	0.4	45.9		22.9	<0.1	0.54	1.24	<50	<1.5		6.0	15.3	2.06	<0.1	<0.5	<0.5	<0.1	3.66
Willow Island	161.8	09-Nov-11	<0.1	13.5	0.1	29.8		25.9	<0.1	0.81	1.26	<50	<1.5		7.1	50.2	2.77	0.12	<0.5	<0.5	<0.1	1.72
Willow Island	161.8	10-Jan-12	<0.1	18.5	0.37	31.5		24.1	<0.1	R	0.96	<50	<1.5		6.3	45.6	1.90	<0.1	<0.5	<0.5	<0.1	R
Willow Island	161.8	12-Mar-12	<0.1	18.7	0.14	30.2		23.8	<0.1	0.47	1.31	<50	<1.5		6.3	13.7	1.35	<0.1	<0.5	<0.5	<0.1	<1
Willow Island	161.8	16-May-12	<0.1	10.8	0.4	33.3		37.7	<0.1	0.1	1.98	<50	<1.5		11.8	7.5	1.92	<0.1	<0.5	0.91	<0.1	1.2
Willow Island	161.8	24-Jul-12	<0.1	R	0.67	49.8		35.6	<0.1	0.17	2.28	<50	<1.5		10.5	6.4	2.95	<0.1	<0.5	1.27	<0.1	1.87
Willow Island	161.8	27-Sep-12	<0.1	6.8	0.87	47.1		24.8	<0.1	0.27	1.81	<50	<1.5		6.3	27.6	2.23	<0.1	<0.5	0.51	<0.1	1.97
Willow Island	161.8	19-Nov-12	<0.1	16.4	0.47	33.2		26.4	<0.1	0.35	1.1	<50	<1.5		7.1	56.3	2.31	<0.1	<0.5	<0.5	<0.1	1.37
Willow Island	161.8	14-Jan-13	<0.1	12.6	0.32	30.6		29.3	<0.1	1.02	1.02	<50	<1.5		7.9	64.2	3.01	<0.1	<0.5	<0.5	<0.1	1.57
Willow Island	161.8	19-Mar-13	<0.1	21.2	0.29	36.7		32.6	<0.1	<0.5	1.36	<50	<1.5		9.4	2.6	1.92	<0.1	<0.5	0.61	<0.1	1.57
Willow Island	161.8	21-May-13	<0.1	14.9	0.53	41.0		30.7	<0.1	0.72	2.22	<50	<1.5		7.2	2.6	1.54	<0.1	<0.5	0.74	<0.1	<1
Willow Island	161.8	18-Jul-13	<0.1	12.8	0.67	38.0		29.4	<0.1	<0.5	1.7	<50	<1.5		8.0	28.5	1.27	<0.1	<0.5	0.59	<0.1	1.19
Willow Island	161.8	05-Sep-13	<0.1	12.3	0.65	44.3		35.7	<0.1	<0.5	1.82	<50	<1.5		9.0	22.4	2.30	0.12	<0.5	0.69	<0.1	1.69
Willow Island	161.8	11-Nov-13	<0.1	9.9	0.7	40.7		28.4	<1	<1	<1	<50	<1.5		6.0	50.9	2.44	<1	<0.1	<1	<0.1	6.06
Willow Island	161.8	20-Jan-14	<0.1	11.7	<1	30.7		28.3	<1	<1	1.26	<50	<1.5		7.7	95.7	2.76	<1	<0.1	<1	<0.1	1.7
Willow Island	161.8	10-Mar-14	<0.1	15.0	<1	34.1	<1	27.0	<1	<1	1.36	<50	<1.5		6.7	16.7	1.70	<1	0.1	<1	<0.1	1.7
Willow Island	161.8	19-May-14	<0.1	7.9	<1	38.6	<1	29.2	<1	<1	1.6	<50	<1.5		7.8	7.9	1.25	<1	0.12	<1	<0.1	1.21
Willow Island	161.8	21-Jul-14	<0.1	12.2	<1	41.9	<1	29.2	<1	<1	1.79	<50	<1.5		2.52	9.3	1.46	<1	0.17	<1	<0.1	3.56
Willow Island	161.8	24-Sep-14	<0.1	10.4	<1	42.2	<1	29.8	<1	<1	1.39	<50										

Appendix B. Dissolved Metals Results: January 2010 through December 2014

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Ce (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Belleville	203.9	19-Jan-10	<0.1	12.6	0.32	40.2		34.6	<0.1	1.5	1.3	<50	<1.5		9.5	55.6	2.43	<0.1	<0.5	<0.5	<0.1	2.14
Belleville	203.9	24-Mar-10	<0.1	20.0	0.46	31.8		25.6	<0.1	0.2	1.53	<50	<1.5		7.0	22.0	2.37	<0.1	<0.5	<0.5	<0.1	1.94
Belleville	203.9	13-May-10	<0.1	17.4	0.34	43.6		40.1	<0.1	1.19	1.35	<50	<1.5		11.5	6.2	2.47	<0.1	<0.5	0.64	<0.1	2.26
Belleville	203.9	22-Jul-10	<0.1	7.7	0.32	50.0		36.8	<0.1	0.58	1.94	<50	<1.5		11.2	3.0	1.50	<0.1	<0.5	0.9	<0.1	<1
Belleville	203.9	29-Sep-10	<0.1	5.1	1.08	76.8		42.4	<0.1	1.83	2.27	<50	<1.5		13.7	3.3	2.76	<0.1	<0.5	1.71	<0.1	1.03
Belleville	203.9	17-Nov-10	<0.1	4.2	1.44	61.4		45.6	0.3	1.16	3.13	<50	<1.5		12.8	12.8	4.07	0.4	<0.5	1.75	R	3.42
Belleville	203.9	02-Feb-11	<0.1	9.2	0.45	49.0		34.2	<0.1	0.55	1.31	<50	<1.5		9.3	89.6	2.75	<0.1	<0.5	0.57	<0.1	3.35
Belleville	203.9	28-Mar-11	<0.1	17.3	0.34	35.5		33.2	<0.1	0.13	1.13	<50	<1.5		9.2	48.4	2.85	<0.1	<0.5	0.64	<0.1	1.45
Belleville	203.9	25-May-11	<0.1	21.6	0.55	30.5		28.5	<0.1	0.9	1.61	<50	<1.5		8.4	4.4	3.17	<0.1	<0.5	0.88	<0.1	<1
Belleville	203.9	26-Jul-11	<0.1	14.3	1.07	55.8		44.4	<0.1	1.44	R	<50	<1.5		14.7	1.7	2.10	<0.1	<0.5	0.84	<0.1	R
Belleville	203.9	12-Sep-11	<0.1	8.7	0.99	47.7		39.7	<0.1	2.21	2.09	<50	<1.5		11.0	7.8	2.33	<0.1	<0.5	0.84	<0.1	R
Belleville	203.9	24-Jan-12	<0.1	18.7	0.32	31.9		31.2	<0.1	1.29	R	<50	<1.5		8.7	37.3	3.14	0.11	<0.5	0.56	R	1.27
Belleville	203.9	14-Mar-12	<0.1	15.0	0.22	31.5		30.7	<0.1	0.63	1.04	<50	<1.5		8.6	26.0	1.54	<0.1	<0.5	<0.5	<0.1	<1
Belleville	203.9	21-May-12	<0.1	11.7	0.49	36.6		27.8	<0.1	0.24	1.26	<50	<1.5		7.9	36.7	1.41	<0.1	<0.5	<0.5	<0.1	1.73
Belleville	203.9	18-Jul-12	<0.1	5.5	0.69	41.0		31.6	<0.1	<0.1	1.3	<50	<1.5		10.5	8.5	1.33	<0.1	<0.5	0.62	<0.1	1.75
Belleville	203.9	17-Sep-12	<0.1	4.4	0.72	48.4		35.5	<0.1	0.65	1.74	<50	<1.5		12.2	1.4	2.53	<0.1	<0.5	0.91	<0.1	1.37
Belleville	203.9	13-Nov-12	<0.1	8.7	0.58	33.6		28.3	<0.1	0.4	1.48	<50	<1.5		7.5	8.7	1.93	<0.1	<0.5	<0.5	<0.1	1.14
Belleville	203.9	27-Mar-13	<0.1	12.6	0.39	33.9		31.0	<0.1	0.16	1	<50	<1.5		8.3	17.0	2.63	<0.1	<0.5	<0.5	<0.1	2.13
Belleville	203.9	17-Jan-13	<0.1	14.4	0.35	32.4		28.0	<0.1	0.22	1	<50	<1.5		7.8	40.3	2.11	<0.1	<0.5	<0.5	<0.1	2.48
Belleville	203.9	16-May-13	<0.1	12.9	0.47	34.3		29.9	<0.1	<0.5	1.11	<50	<1.5		8.7	12.7	1.17	<0.1	<0.5	<0.5	<0.1	<1
Belleville	203.9	09-Sep-13	<0.1	8.6	0.83	48.5		36.6	<0.1	0.54	1.58	<50	<1.5		9.4	6.3	1.61	<0.1	<0.5	0.59	<0.1	<1
Belleville	203.9	18-Nov-13	<0.1	7.6	0.87	38.9		37.1	<0.1	<0.5	1.69	<50	<1.5		10.2	73.8	1.44	<0.1	<0.5	0.6	<0.1	1.03
Belleville	203.9	20-Mar-14	<0.1	13.6	<1	32.9		30.2	<1	<1	<1	<50	<1.5		8.5	47.3	2.16	<1	<0.1	<1	<0.1	3.99
Belleville	203.9	27-May-14	<0.1	11.6	<1	33.8		27.9	<1	<1	1.09	<50	<1.5		7.8	19.2	1.43	<1	<0.1	<1	<0.1	2.48
Belleville	203.9	16-Jul-14	<0.1	11.0	<1	40.3	<1	28.7	<1	<1	1.4	<50	<1.5	2.27	7.7	5.9	1.14	<1	0.12	<1	<0.1	<1
Belleville	203.9	24-Sep-14	<0.1	9.1	<1	42.3	<1	36.8	<1	<1	1.63	<50	<1.5	2.69	11.3	52.7	1.60	<1	0.16	<1	<0.1	3.21
Belleville	203.9	20-Nov-14	<0.1	8.0	<1	37.3	<1	33.8	<1	<1	1.45	<50	<1.5	2.53	9.4	26.6	1.48	<1	0.11	<1	<0.1	1.6
Belleville	203.9	19-Jan-10	<0.1	8.4	0.33	32.6		22.9	<0.1	1.26	1.12	<50	<1.5		8.2	34.3	1.80	<0.1	<0.5	<0.5	<0.1	1.89
Belleville	203.9	24-Mar-10	<0.1	11.3	0.28	27.5		15.8	<0.1	0.91	1.17	<50	<1.5		5.5	25.7	1.49	<0.1	<0.5	0.51	<0.1	1.89
Belleville	203.9	13-May-10	<0.1	14.6	0.38	43.8		31.9	<0.1	0.95	1.17	<50	<1.5		9.7	99.6	1.81	<0.1	<0.5	0.62	<0.1	<1
Belleville	203.9	22-Jul-10	<0.1	10.8	0.88	53.6		34.1	<0.1	0.29	2.55	<50	<1.5		11.7	149.9	1.64	<0.1	<0.5	0.87	<0.1	1
Belleville	203.9	29-Sep-10	<0.1	7.4	0.78	58.0		34.7	<0.1	2.03	1.73	<50	<1.5		12.8	3.6	2.29	<0.1	<0.5	1.15	<0.1	<1
Belleville	203.9	17-Nov-10	<0.1	4.1	1.31	56.7		39.0	0.42	0.78	1.67	<50	<1.5		13.0	32.3	3.43	0.43	<0.5	1.74	R	1.96
Belleville	203.9	02-Feb-11	<0.1	8.9	0.33	36.9		24.0	<0.1	0.33	1.07	<50	<1.5		7.6	66.3	2.11	<0.1	<0.5	0.53	<0.1	2.1
Belleville	203.9	28-Mar-11	<0.1	12.6	0.38	31.5		21.3	<0.1	0.6	0.74	<50	<1.5		6.7	57.5	1.67	<0.1	<0.5	<0.5	<0.1	1.01
Belleville	203.9	25-May-11	<0.1	16.0	0.38	28.6		21.9	<0.1	1.03	1.63	<50	<1.5		6.5	41.9	2.11	<0.1	<0.5	<0.5	<0.1	1.84
Belleville	203.9	26-Jul-11	<0.1	16.3	0.76	54.7		39.1	<0.1	1.63	1.63	<50	<1.5		12.7	29.0	1.89	<0.1	<0.5	0.65	<0.1	<1
Belleville	203.9	12-Sep-11	<0.1	9.8	0.77	49.3		33.7	<0.1	2.06	1.69	<50	<1.5		11.0	46.5	2.17	<0.1	<0.5	0.81	<0.1	1.67
Belleville	203.9	14-Nov-11	<0.1	8.2	0.3	31.2		24.2	<0.1	0.67	1.02	<50	<1.5		7.1	35.1	1.71	<0.1	<0.5	<0.5	<0.1	1.74
Belleville	203.9	24-Jan-12	<0.1	9.5	0.28	23.9		16.3	0.12	0.85	0.83	<50	<1.5		5.6	66.7	1.55	0.16	<0.5	<0.5	R	<1
Belleville	203.9	14-Mar-12	<0.1	13.1	0.23	31.2		23.1	<0.1	0.71	R	<50	<1.5		7.1	66.2	1.20	<0.1	<0.5	<0.5	<0.1	R
Belleville	203.9	21-May-12	<0.1	9.2	0.37	35.0		21.8	<0.1	<0.1	0.89	<50	<1.5		6.6	115.0	0.93	<0.1	<0.5	0.62	<0.1	R
Belleville	203.9	18-Jul-12	<0.1	11.0	0.79	52.0		37.1	<0.1	<0.1	1.74	<50	<1.5		12.5	53.7	1.31	<0.1	<0.5	0.62	<0.1	R
Belleville	203.9	17-Sep-12	<0.1	8.4	0.83	49.7		33.8	<0.1	<0.1	2.03	<50	<1.5		12.5	11.9	2.66	<0.1	<0.5	0.92	<0.1	1.31
Belleville	203.9	13-Jan-12	<0.1	7.1	0.47	35.0		26.6	<0.1	0.35	1.35	<50	<1.5		8.0	14.1	1.88	<0.1	<0.5	<0.5	<0.1	<1
Belleville	203.9	17-Jan-13	<0.1	7.1	0.3	32.7		16.9	<0.1	0.14	0.62	<50	<1.5		6.0	78.3	1.32	<0.1	<0.5	<0.5	<0.1	1.08
Belleville	203.9	27-Mar-13	<0.1	9.0	0.22	30.3		21.0	<0.1	0.5	0.65	<50	<1.5		6.5	90.5	1.38	<0.1	<0.5	<0.5	<0.1	<1
Belleville	203.9	16-May-13	<0.1	10.4	0.42	37.0		25.5	<0.1	<0.5	1	<50	<1.5		7.9	83.4	1.09	<0.1	<0.5	<0.5	<0.1	1.36
Belleville	203.9	24-Jul-13	<0.1	9.7	0.74	36.7		26.7	<0.1	<0.5	1.65	<50	<1.5		7.6	19.6	1.17	<0.1	<0.5	<0.5	<0.1	<1
Belleville	203.9	09-Sep-13	<0.1	11.0	0.76	44.5		27.5	<0.1	0.72	1.32	<50	<1.72		8.4	54.7	1.23	<0.1	<0.5	0.66	<0.1	<1
Belleville	203.9	18-Nov-13	<0.1	6.3	0.83	41.8		36.5	<0.1	<0.5	1.66	<50	<1.5		10.7	32.2	1.79	<0.1	<0.5	0.63	<0.1	2.27
Belleville	203.9	04-Feb-14	<0.1	10.3	<1	33.9		27.2	<1	<1	<1	<50	<1.5		9.4	66.4	1.82	<1	<0.1	<1	<0.1	1.63
Belleville	203.9	20-Mar-14	<0.1	12.2	<1	31.3		25.8	<1	<1	1.01	<50	<1.5		7.8	48.6	1.85	<1	<0.1	<1	<0.1	1.41
Belleville	203.9	27-May-14	<0.1	13.0	<1	32.4		24.5	<1	<1	1.13	<50	<1.5	1.78	6.8	16.9	1.15	<1	<0.1	<1	<0.1	<1
Belleville	203.9	16-Jul-14	<0.1	14.2	1	45.2	<1	29.9	<1	<1	1.28	<50	<1.5	2.54	8.5	167.0	1.45	<1	0.19	<1	<0.1	<1
Belleville	203.9	24-Sep-14	<0.1	10.3	<1	42.5	<1	33.2	<1	<1	1.56	<50	<1.5	2.65	10.8	18.1	1.30	<1	0.21	<1	<0.1	2.34
Belleville	203.9	20-Nov-14	<0.1	17.5	<1	34.9	<1	25.5	<1	<1	1.18	<50	<1.5	2.49	8.2	22.9	1.26	<1	0.1	<1	<0.1	1.84
Belleville	341	13-Jan-10	<0.1	6.8	0.28	33.3		26.8	<0.1	1.42	0.78	<50	<1.5		9.1	47.7	2.28	<0.1	<0.5	0.51	<0.1	1.62
Belleville	341	24-Mar-10	<0.1																			

Appendix B. Dissolved Metals Results, January 2010 through December 2014

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Greenup	341	19-May-10	<0.1	9.5	0.44	38.2		26.7	<0.1	0.21	1.17	<50	<1.5		9.0	11.3	1.96	<0.1	<0.5	<0.5	<0.1	1.4
Greenup	341	29-Jul-10	<0.1	8.3	0.73	46.7		27.4	<0.1	0.22	1.52	<50	<1.5		9.7	1.8	1.31	<0.1	<0.5	0.84	<0.1	<1
Greenup	341	27-Sep-10	<0.1	11.9	0.9	71.1		41.6	<0.1	1.92	1.72	<50	<1.5		15.3	1.5	2.44	<0.1	<0.5	1.23	<0.1	1.18
Greenup	341	18-Nov-10	<0.1	2.8	0.76	60.4		41.1	<0.1	0.11	1.72	<50	<1.5		14.8	17.6	3.07	<0.1	<0.5	1.07	<0.1	1.28
Greenup	341	10-Jan-11	<0.1	11.6	0.45	44.8		28.3	<0.1	1.98	1.2	<50	<1.5		9.2	41.5	2.55	<0.1	<0.5	0.72	<0.1	2.15
Greenup	341	08-Mar-11	<0.1	14.2	0.31	31.8		23.5	<0.1	0.4	1.14	<50	<1.5		7.3	17.2	2.00	<0.1	<0.5	<0.5	<0.1	3.31
Greenup	341	11-May-11	<0.1	16.2	0.45	29.4		26.3	<0.1	0.83	1.27	<50	<1.5		9.2	28.4	2.29	<0.1	<0.5	<0.5	<0.1	R
Greenup	341	27-Jul-11	<0.1	10.7	0.61	53.3		37.6	<0.1	0.14	1.76	<50	3.24		12.6	0.8	1.95	<0.1	<0.5	0.69	<0.1	4.59
Greenup	341	15-Sep-11	<0.1	5.6	0.65	46.9		34.2	<0.1	1.01	1.7	<50	<1.5		10.8	4.9	1.98	<0.1	<0.5	0.71	<0.1	3.16
Greenup	341	08-Nov-11	<0.1	7.5	0.45	35.4		29.1	<0.1	1.57	1.18	<50	<1.5		9.3	13.2	1.92	<0.1	<0.5	<0.5	<0.1	1.36
Greenup	341	05-Jan-12	<0.1	15.0	0.42	30.9		28.9	<0.1	1.67	R	<50	<1.5		9.0	12.0	2.38	0.13	<0.5	0.57	R	1.3
Greenup	341	07-Mar-12	<0.1	12.6	0.21	27.5		19.5	<0.1	0.15	R	<50	<1.5		6.9	7.2	1.03	<0.1	<0.5	<0.5	<0.1	1.31
Greenup	341	17-May-12	<0.1	11.1	0.42	35.7		25.2	<0.1	0.86	1.13	<50	<1.5		9.0	7.5	1.23	<0.1	<0.5	<0.5	<0.1	R
Greenup	341	09-Jul-12	<0.1	6.9	0.77	48.3		33.3	<0.1	0.17	1.48	<50	<1.5		12.8	1.4	1.53	<0.1	<0.5	0.81	<0.1	1.31
Greenup	341	24-Sep-12	<0.1	7.5	0.78	48.3		32.2	<0.1	<0.1	1.73	<50	<1.5		13.3	4.9	2.27	<0.1	<0.5	1.02	<0.1	2.78
Greenup	341	08-Nov-12	<0.1	8.2	0.44	37.1		31.1	<0.1	0.75	1.51	<50	<1.5		10.0	1.7	1.49	<0.1	<0.5	0.55	<0.1	1.11
Greenup	341	07-Jan-13	<0.1	12.5	0.34	31.9		24.5	<0.1	0.13	0.93	<50	<1.5		8.7	25.8	1.55	<0.1	<0.5	0.53	<0.1	3.22
Greenup	341	27-Mar-13	<0.1	13.4	0.28	27.5		20.8	<0.1	0.1	1	<50	<1.5		7.8	21.6	1.73	<0.1	<0.5	0.55	<0.1	R
Greenup	341	30-May-13	<0.1	9.1	0.46	38.0		29.4	<0.1	<0.5	1.17	<50	<1.5		10.5	23.7	1.31	<0.1	<0.5	0.55	<0.1	2.28
Greenup	341	25-Jul-13	<0.1	8.8	0.71	45.7		31.1	<0.1	<0.5	1.44	<50	<1.5		9.8	10.2	1.34	<0.1	<0.5	0.7	<0.1	<1
Greenup	341	05-Sep-13	<0.1	8.8	0.71	45.7		34.8	<0.1	<0.5	1.93	<50	<1.5		10.9	8.2	1.57	<0.1	<0.5	0.66	<0.1	1.61
Greenup	341	25-Nov-13	<0.1	5.7	0.64	37.6		23.0	<0.1	<1	1.45	<50	<1.5		8.0	16.5	1.47	<1	<0.1	<1	<0.1	1.76
Greenup	341	13-Jan-14	<0.1	11.1	<1	28.0		28.8	<1	<1	1.24	<50	<1.5		9.5	21.1	1.85	<1	<0.1	<1	<0.1	2.07
Greenup	341	19-Mar-14	<0.1	13.5	<1	32.8		27.2	<1	<1	1.51	<50	<1.5	2.34	7.6	2.9	1.11	<1	0.1	<1	<0.1	1.48
Greenup	341	21-May-14	<0.1	10.6	<1	34.8	<1	29.8	<1	<1	1.76	<50	<1.5	3.03	8.8	8.8	1.33	<1	0.13	<1	<0.1	3.06
Greenup	341	09-Jul-14	<0.1	12.8	<1	38.6	<1	30.4	<1	<1	1.35	<50	<1.5	2.76	11.2	19.4	1.40	<1	0.17	<1	<0.1	R
Greenup	341	24-Sep-14	<0.1	7.8	<1	40.1	<1	33.1	<1	<1	1.26	<50	<1.5	2.7	11.4	16.4	1.19	<1	0.12	<1	<0.1	R
Greenup	341	04-Nov-14	<0.1	6.4	<1	41.3	<1	27.8	<0.1	1.19	0.98	<50	<1.5		9.0	25.2	1.85	<0.1	<0.5	<0.5	<0.1	1.55
Greenup	341	13-Jan-10	<0.1	7.1	0.27	33.7		25.7	<0.1	0.84	1.09	<50	<1.5		8.0	3.8	1.79	<0.1	<0.5	<0.5	<0.1	1.29
Greenup	341	24-Mar-10	<0.1	11.6	0.33	31.8		28.4	<0.1	0.19	1.81	<50	<1.5		7.5	3.7	1.84	<0.1	<0.5	<0.5	<0.1	<1
Greenup	341	19-May-10	<0.1	7.3	0.39	30.9		23.0	<0.1	0.44	2.1	<50	<1.5		8.9	16.8	1.54	<0.1	<0.5	0.71	R	<1
Greenup	341	29-Jul-10	<0.1	10.8	1.11	67.6		42.6	<0.1	2.63	1.75	<50	<1.5		15.6	1.1	2.83	<0.1	<0.5	1.54	<0.1	<1
Greenup	341	27-Sep-10	<0.1	10.8	1.11	67.6		41.2	<0.1	0.44	1.63	<50	<1.5		14.9	1.6	2.81	<0.1	<0.5	1.21	<0.1	1.93
Greenup	341	23-Nov-10	<0.1	2.4	0.74	58.6		27.7	<0.1	1.2	1.17	<50	<1.5		8.4	8.7	1.96	<0.1	<0.5	<0.5	<0.1	1.85
Greenup	341	10-Jan-11	<0.1	8.7	0.37	39.8		22.0	<0.1	0.69	0.93	<50	<1.5		6.9	4.4	1.20	<0.1	<0.5	<0.5	<0.1	1.53
Greenup	341	08-Mar-11	<0.1	13.7	0.38	31.0		26.8	<0.1	0.4	1.36	<50	<1.5		7.0	8.5	2.24	<0.1	<0.5	<0.5	<0.1	1.41
Greenup	341	11-May-11	<0.1	14.5	0.75	33.5		33.4	<0.1	1.02	1.38	<50	<1.5		10.7	2.1	2.36	<0.1	<0.5	<0.5	<0.1	1.35
Greenup	341	27-Jul-11	<0.1	9.8	0.79	50.8		39.3	<0.1	1.19	1.77	<50	<1.5		13.6	2.7	2.39	<0.1	<0.5	0.89	<0.1	1.14
Greenup	341	15-Sep-11	<0.1	6.4	0.85	52.3		31.7	<0.1	1.29	1.54	<50	<1.5		9.9	3.5	1.98	<0.1	<0.5	0.73	R	R
Greenup	341	08-Nov-11	<0.1	5.9	0.71	38.2		27.0	<0.1	1.85	1.36	<50	<1.5		8.5	3.9	2.43	<0.1	<0.5	<0.5	<0.1	R
Greenup	341	05-Jan-12	<0.1	11.3	0.66	29.3		22.0	<0.1	0.2	0.93	<50	<1.5		6.9	4.4	1.20	<0.1	<0.5	<0.5	<0.1	1.53
Greenup	341	07-Mar-12	<0.1	11.1	0.24	28.3		29.5	<0.1	<0.1	1.28	<50	<1.5		9.3	5.6	1.10	<0.1	<0.5	<0.5	<0.1	1.67
Greenup	341	17-May-12	<0.1	8.2	0.42	37.0		32.2	<0.1	0.24	1.47	<50	<1.5		12.5	0.6	1.50	<0.1	<0.5	0.69	<0.1	1.28
Greenup	341	09-Jul-12	<0.1	5.7	0.79	45.4		35.2	<0.1	0.19	2.26	<50	<1.5		15.1	2.7	3.67	<0.1	<0.5	0.89	<0.1	2.39
Greenup	341	24-Sep-12	<0.1	5.7	1	55.4		35.9	<0.1	<0.1	2.34	<50	<1.5		10.6	2.2	1.70	<0.1	<0.5	0.68	<0.1	3.11
Greenup	341	08-Nov-12	<0.1	7.4	0.63	41.0		25.5	<0.1	0.46	1.16	<50	<1.5		8.1	8.0	1.50	<0.1	<0.5	<0.5	<0.1	R
Greenup	341	07-Jan-13	<0.1	11.3	0.34	31.4		22.8	<0.1	<0.1	0.87	<50	<1.5		7.5	4.2	1.37	<0.1	<0.5	<0.5	<0.1	R
Greenup	341	27-Mar-13	<0.1	8.8	0.35	26.4		29.3	<0.1	<0.5	1.25	<50	<1.5		10.8	5.7	1.24	<0.1	<0.5	0.58	<0.1	1.34
Greenup	341	30-May-13	<0.1	7.2	0.44	37.9		30.7	<0.1	<0.5	2.01	<50	<1.5		8.7	0.7	1.36	<0.1	<0.5	0.58	<0.1	<1
Greenup	341	25-Jul-13	<0.1	9.1	0.85	32.9		37.1	<0.1	0.85	2.39	<50	<1.5		9.5	12.7	1.37	<0.1	<0.5	0.58	<0.1	1.2
Greenup	341	05-Sep-13	<0.1	7.8	0.83	46.6		39.1	<0.1	<0.5	2.37	<50	<1.5		11.9	3.2	1.84	<0.1	<0.5	0.69	<0.1	2.23
Greenup	341	25-Nov-13	<0.1	5.7	0.84	38.8		27.4	<1	<1	1.17	<50	<1.5		8.5	4.5	1.47	<1	<0.1	<1	<0.1	1.12
Greenup	341	14-Jan-14	<0.1	11.3	<1	29.8		32.0	<1	<1	1.24	<50	<1.5		10.0	3.3	1.60	<1	<0.1	<1	<0.1	1.78
Greenup	341	19-Mar-14	<0.1	11.2	<1	34.5		30.1	<1	<1	1.61	<50	<1.5		8.8	6.2	1.40	<1	0.11	<1	<0.1	1.48
Greenup	341	21-May-14	<0.1	9.3	<1	35.0	<1	31.4	<1	<1	2.14	<50	<1.5		8.4	1.4	1.28	<1	0.16	<1	<0.1	1.65
Greenup	341	09-Jul-14	<0.1	10.0	1	38.1	<1	32.4	<1	<1	1.68	<50	<1.5		11.2	12.7	1.42	<1	0.18	<1	<0.1	R
Greenup	341	24-Sep-14	<0.1	8.6	<1	42.0	<1	32.0	<1	<1	1.71	<50	<1.5	3.12	12.3	4.2	1.45	<1	0.15	1.15	<0.1	1.8
Greenup	341	04-Nov-14	<0.1	6.4	<1	45.9	<1	35.5	<1	<1	1.21	<50	<1.5	3.27	10.9	32.4	1.97	<0.1	<0.5	<0.5	<0.1	1.88
Greenup	341	12-Jan-10	<0.1	6.0	0.37	31.5		34.2	<0.1	2.62	1.11	<50	<1.5		7.6	21.6	1.98	<0.1	<0.5	0.58	<0.1	6.83
Anderson Ferry	477.5	23-Mar-10	<0.1	11.7	0.51			26.1	<0.1	1.1												

Appendix B. Dissolved Metals Results, January 2010 through December 2014

SampleSite	Site Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cl (ug/L)	Cr (ug/L)	Cd (ug/L)	Co (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (mg/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Anderson Ferry	477.5	20-May-10	<0.1	6.7	0.52	37.5		29.0	<0.1	0.51	1.35	1.93	<50	<50	<1.5		12.3	7.1	1.57	<0.1	<0.5	0.77	<0.1	<1
Anderson Ferry	477.5	13-Jul-10	<0.1	6.7	1.06	47.8		37.4	<0.1	1.25	2.76	1.96	<50	<50	<1.5		14.9	2.1	2.81	<0.1	<0.5	1.31	<0.1	<1
Anderson Ferry	477.5	20-Sep-10	<0.1	12.3	0.93	72.3		44.8	<0.1	2.76	1.96	<50	<50	<1.5			16.2	9.0	2.92	<0.1	<0.5	1.36	<0.1	<1
Anderson Ferry	477.5	19-Nov-10	<0.1	3.2	0.87	72.1		47.1	<0.1	0.29	2.02	<50	<50	<1.5			10.0	32.8	2.35	<0.1	<0.5	0.6	<0.1	1.97
Anderson Ferry	477.5	18-Jan-11	<0.1	10.2	0.52	47.4		32.4	<0.1	1.64	1.4	<50	<50	<1.5			8.1	6.7	2.27	<0.1	<0.5	<0.5	<0.1	2.95
Anderson Ferry	477.5	08-Mar-11	<0.1	12.5	0.39	32.6		28.0	<0.1	0.28	1.32	<50	<50	<1.5			9.1	22.8	2.66	<0.1	<0.5	<0.5	<0.1	1.66
Anderson Ferry	477.5	24-May-11	<0.1	11.7	0.6	30.6		34.6	<0.1	0.8	1.6	<50	<50	<1.5			11.0	9.2	1.81	<0.1	<0.5	<0.5	<0.1	1.71
Markland	531.5	12-Jan-10	<0.1	6.9	0.32	34.5		26.0	<0.1	0.63	1.27	<50	<50	<1.5			7.8	3.7	1.72	0.31	<0.5	<0.5	<0.1	1.94
Markland	531.5	23-Mar-10	<0.1	12.5	0.44	31.7		34.5	<0.1	0.63	1.27	<50	<50	<1.5			8.9	3.1	2.00	<0.1	<0.5	0.57	<0.1	<1
Markland	531.5	26-May-10	<0.1	R	0.65	33.0		30.1	<0.1	0.24	1.57	<50	<50	<1.5			12.6	5.2	1.28	<0.1	<0.5	0.71	R	1.1
Markland	531.5	14-Jul-10	<0.1	5.5	1.01	45.8		35.2	<0.1	0.16	1.68	<50	<50	<1.5			15.8	12.3	2.97	<0.1	<0.5	1.5	<0.1	1.66
Markland	531.5	20-Sep-10	<0.1	7.3	1.12	65.6		43.6	<0.1	1.49	1.76	<50	<50	<1.5			16.4	3.7	2.97	<0.1	<0.5	1.56	<0.1	1.47
Markland	531.5	19-Nov-10	<0.1	3.2	1.02	68.8		45.7	<0.1	0.84	1.94	<50	<50	<1.5			16.4	3.7	2.97	<0.1	<0.5	1.56	<0.1	1.47
Markland	531.5	18-Jan-11	<0.1	7.6	0.45	35.2		27.6	<0.1	1.13	1.34	<50	<50	<1.5			8.5	18.5	4.59	0.17	<0.5	0.84	<0.1	2.26
Markland	531.5	08-Mar-11	<0.1	12.4	0.98	31.9		30.2	<0.1	0.5	2.93	<50	<50	<1.5			8.1	18.5	4.59	0.17	<0.5	0.84	<0.1	2.26
Markland	531.5	24-May-11	<0.1	13.4	0.62	33.3		34.5	<0.1	0.76	1.65	<50	<50	<1.5			10.0	1.2	2.64	<0.1	<0.5	<0.5	<0.1	2.03
Markland	531.5	18-Jul-11	<0.1	8.4	1	55.6		45.5	<0.1	1.51	1.86	<50	<50	<1.5			15.2	6.1	2.40	<0.1	<0.5	0.73	<0.1	1.37
Markland	531.5	16-Sep-11	<0.1	10.3	0.84	59.6		43.8	<0.1	2.41	1.78	<50	<50	<1.5			14.8	1.5	2.72	<0.1	<0.5	0.73	<0.1	1.44
Markland	531.5	21-Nov-11	<0.1	5.7	0.62	40.3		33.9	<0.1	0.91	1.39	<50	<50	<1.5			10.3	1.9	2.55	<0.1	<0.5	0.54	<0.1	1.02
Markland	531.5	25-Jan-12	<0.1	11.4	0.63	29.5		32.7	<0.1	1.38	1.29	<50	<50	<1.5			9.9	2.8	2.15	0.15	<0.5	0.58	R	1.98
Markland	531.5	07-Mar-12	<0.1	11.0	0.34	30.7		25.5	<0.1	0.65	0.94	<50	<50	<1.5			7.8	4.6	1.10	<0.1	<0.5	<0.5	<0.1	1.95
Markland	531.5	17-May-12	<0.1	7.9	0.56	35.7		33.6	<0.1	0.95	1.59	<50	<50	<1.5			9.3	5.2	1.12	<0.1	<0.5	<0.5	<0.1	<1
Markland	531.5	17-Jul-12	<0.1	4.1	1.13	49.2		35.7	<0.1	<0.1	1.42	<50	<50	<1.5			14.0	0.6	1.39	<0.1	<0.5	0.79	<0.1	1.24
Markland	531.5	20-Sep-12	<0.1	7.7	0.97	53.7		39.4	<0.1	0.92	4.98	<50	<50	<1.5			15.3	3.3	2.53	0.17	<0.5	1.15	<0.1	3.28
Markland	531.5	08-Nov-12	<0.1	5.6	0.66	45.3		37.3	<0.1	0.2	2.67	<50	<50	<1.5			11.7	1.4	1.76	<0.1	<0.5	0.71	<0.1	1.81
Markland	531.5	10-Jan-13	<0.1	10.1	0.46	32.4		30.7	<0.1	0.33	R	<50	<50	<1.5			9.2	8.6	1.38	<0.1	<0.5	0.53	<0.1	R
Markland	531.5	26-Mar-13	<0.1	10.5	0.39	31.6		31.4	<0.1	0.15	1.22	<50	<50	<1.5			9.4	2.2	1.31	<0.1	<0.5	<0.5	<0.1	<1
Markland	531.5	09-May-13	<0.1	13.8	0.65	25.3		37.1	<0.1	0.68	1.44	<50	<50	<1.5			8.6	4.2	1.16	<0.1	<0.5	<0.5	<0.1	2.22
Markland	531.5	17-Jul-13	<0.1	9.2	0.73	34.5		28.8	<0.1	<0.5	2	<50	<50	<1.5			8.1	1.4	1.18	<0.1	<0.5	<0.5	<0.1	5.58
Markland	531.5	11-Sep-13	<0.1	6.1	0.82	44.9		31.0	<0.1	<0.5	1.51	<50	<50	<1.5			9.6	21.9	1.29	<0.1	<0.5	0.63	<0.1	<1
Markland	531.5	13-Nov-13	<0.1	5.1	0.94	48.3		42.6	<0.1	<0.5	1.85	<50	<50	<1.5			13.5	9.1	1.87	0.12	<0.5	0.96	<0.1	1.33
Markland	531.5	14-Jan-14	<0.1	8.9	<1	29.6		32.4	<0.1	<1	1.36	<50	<50	<1.5			9.6	3.0	1.30	<0.1	<0.5	<0.5	<0.1	1.54
Markland	531.5	11-Mar-14	<0.1	10.8	<1	30.6		31.0	<0.1	<1	1.15	<50	<50	<1.5			9.7	7.5	1.97	<0.1	<0.5	<0.5	<0.1	1.23
Markland	531.5	28-May-14	<0.1	14.2	<1	34.9		31.2	<0.1	<1	1.66	<50	<50	<1.5			9.0	4.6	1.16	<0.1	<0.5	<0.5	<0.1	R
Markland	531.5	08-Jul-14	<0.1	10.0	<1	40.1		33.9	<0.1	<1	1.81	<50	<50	<1.5			10.0	6.0	1.17	<0.1	<0.5	<0.5	<0.1	4.37
Markland	531.5	10-Sep-14	<0.1	8.8	1.02	46.6		37.9	<0.1	<1	1.49	<50	<50	<1.5			12.4	12.5	1.25	<0.1	<0.5	<0.5	<0.1	4.37
Markland	531.5	24-Nov-14	<0.1	5.2	<1	36.4		36.1	<0.1	<1	<1	<50	<50	<1.5			12.6	4.7	1.18	<0.1	<0.5	<0.5	<0.1	17.7
Louisville	600.6	26-Jan-10	<0.1	7.7	0.4	27.6		35.8	<0.1	1.48	0.95	<50	<50	<1.5			9.6	4.9	1.56	<0.1	<0.5	0.57	<0.1	<1
Louisville	600.6	16-Mar-10	<0.1	7.7	0.54	41.5		37.1	<0.1	1.22	1.14	<50	<50	<1.5			10.9	10.9	2.05	<0.1	<0.5	0.57	<0.1	<1
Louisville	600.6	20-May-10	<0.1	7.0	0.51	32.0		30.7	<0.1	0.3	1.22	<50	<50	<1.5			9.0	10.2	1.83	<0.1	<0.5	0.52	<0.1	1.23
Louisville	600.6	22-Jul-10	<0.1	6.7	1.19	48.7		44.2	<0.1	0.69	1.86	<50	<50	<1.5			14.8	3.6	1.50	0.11	<0.5	0.98	R	<1
Louisville	600.6	16-Sep-10	<0.1	12.7	1.06	58.9		41.7	<0.1	1.16	1.87	<50	<50	<1.5			13.8	8.1	2.39	<0.1	<0.5	1.36	<0.1	<1
Louisville	600.6	17-Nov-10	<0.1	3.6	1.2	67.1		47.7	<0.1	0.35	2.18	<50	<50	<1.5			16.7	10.9	3.18	<0.1	<0.5	1.33	<0.1	2.16
Louisville	600.6	26-Jan-11	<0.1	7.7	0.54	41.2		35.7	<0.1	2.33	1.54	<50	<50	<1.5			10.4	38.8	2.42	<0.1	<0.5	0.76	<0.1	1.81
Louisville	600.6	28-Mar-11	<0.1	5.3	0.58	58.0		59.9	<0.1	<0.1	1.03	<50	<50	<1.5			14.8	604.8	2.54	<0.1	<0.5	2.06	<0.1	5.06
Louisville	600.6	18-May-11	<0.1	8.5	0.94	42.9		46.5	<0.1	1.12	1.5	<50	<50	<1.5			14.0	214.7	3.04	<0.1	<0.5	0.76	<0.1	12.08
Louisville	600.6	20-May-10	<0.1	8.0	0.65	37.9		36.5	<0.1	0.45	1.33	<50	<50	<1.5			10.9	4.0	1.82	<0.1	<0.5	0.61	<0.1	<1
Louisville	600.6	22-Jul-10	<0.1	6.0	1.1	48.3		43.9	<0.1	0.67	1.85	<50	<50	<1.5			14.6	0.5	1.42	<0.1	<0.5	0.92	<0.1	<1
Louisville	600.6	16-Sep-10	<0.1	12.7	0.99	58.1		41.7	<0.1	0.76	1.71	<50	<50	<1.5			14.0	3.9	2.44	<0.1	<0.5	1.33	<0.1	<1
Louisville	600.6	17-Nov-10	<0.1	<1	1.71	67.9		47.2	<0.1	0.46	1.25	<50	<50	<1.5			17.5	5.0	4.20	0.47	<0.5	2.19	R	1.75
Louisville	600.6	26-Jan-11	<0.1	8.8	0.57	40.7		31.7	<0.1	0.83	1.59	<50	<50	<1.5			9.6	20.8	2.64	0.11	<0.5	0.76	<0.1	1.99
Louisville	600.6	28-Mar-11	<0.1	11.9	0.5	34.2		32.9	<0.1	0.21	R	<50	<50	<1.5			12.6	5.2	1.97	<0.1	<0.5	0.62	<0.1	1.69
Louisville	600.6	18-May-11	<0.1	10.1	0.64	35.6		39.9	<0.1	1.21	1.55	<50	<50	<1.5			12.6	3.1	2.70	<0.1	<0.5	<0.5	<0.1	R
Louisville	600.6	18-Jul-11	<0.1	6.3	0.88	47.3		40.7	<0.1	1.13	1.76	<50	<50	<1.5			13.5	0.8	2.09	<0.1	<0.5	0.72	<0.1	<1
Louisville	600.6	14-Sep-11	<0.1	6.5	0.87	59.8		41.7	<0.1	3.12	1.92	<50	<50	<1.5			14.6	2.5	3.01	<0.1	<0.5	0.76		

Appendix B. Dissolved Metals Results, January 2010 through December 2014

Sample Site	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Co (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Medline	606.8	20-Sep-12	<0.1	3.9	1.15	510		39.1	<0.1	0.18	2.05	<50	<15		14.6	2.3	2.81	<0.1	<0.5	1.88	<0.1	2.02
Medline	606.8	08-Nov-12	<0.1	4.1	0.66	49.9		39.1	<0.1	0.12	2.1	<50	<15		12.4	0.9	2.39	<0.1	<0.5	0.87	<0.1	4.16
Medline	606.8	10-Jan-13	<0.1	9.4	0.36	28.9		32.0	<0.1	0.15	2.46	<50	<15		9.3	8.1	1.24	<0.1	<0.5	0.6	<0.1	2.28
Medline	606.8	26-Mar-13	<0.1	9.6	0.45	27.7		30.8	<0.1	0.29	1.15	<50	<15		8.9	2.3	1.25	<0.1	<0.5	0.36	<0.1	1.17
Medline	606.8	09-May-13	<0.1	8.1	0.56	28.6		41.7	<0.1	0.26	1.33	<50	<15		10.4	1.3	0.96	<0.1	<0.5	<0.5	<0.1	1.24
Medline	606.8	17-Jul-13	<0.1	8.2	0.77	36.8		33.6	<0.1	<0.5	2.05	<50	<15		8.9	0.9	1.21	<0.1	<0.5	0.63	<0.1	<1
Medline	606.8	11-Sep-13	<0.1	5.7	0.94	45.1		33.3	<0.1	<0.5	1.69	<50	<15		11.0	2.2	1.38	<0.1	<0.5	0.93	<0.1	3.83
Medline	606.8	13-Nov-13	<0.1	5.0	1.05	47.5		46.4	<0.1	<0.5	1.84	<50	<15		13.8	2.1	1.87	<0.1	<0.5	0.93	<0.1	1.99
Medline	606.8	14-Jan-14	<0.1	8.7	<1	26.0		36.5	<1	<1	1.58	<50	<5		9.5	1.9	1.18	<1	<0.1	<1	<0.1	3.33
Medline	606.8	11-Mar-14	<0.1	9.4	<1	26.6		33.7	<1	<1	1.1	<50	<5		10.1	4.5	1.17	<1	<0.1	<1	<0.1	R
Medline	606.8	28-Mar-14	<0.1	11.3	<1	34.0		33.4	<1	<1	1.59	<50	<5	2.49	9.0	34.2	1.16	<1	0.12	<1	<0.1	R
Medline	606.8	08-Jul-14	<0.1	9.3	<1	42.1		36.4	<1	<1	1.88	<50	<5	2.86	10.6	2.4	1.16	<1	0.15	<1	<0.1	1.52
Medline	606.8	10-Sep-14	<0.1	7.1	1	43.7		37.0	<1	<1	1.83	<50	<15	3.03	11.6	9.8	1.27	<1	0.19	<1	<0.1	1.56
Medline	606.8	24-Nov-14	<0.1	6.1	<1	40.2		35.4	<1	<1	1.36	<50	<15	2.76	11.8	9.2	1.45	<1	0.12	1.01	<0.1	1.06
Medline	625.9	26-Jan-10	<0.1	7.6	0.45	29.0		38.5	<0.1	1.6	1	<50	1.95		10.5	4.4	1.81	<0.1	<0.5	0.63	<0.1	1.18
West Point	625.9	16-Mar-10	<0.1	7.8	0.52	43.7		40.0	<0.1	1.21	1.35	<50	<15		11.7	3.6	2.34	<0.1	<0.5	0.78	<0.1	1.42
West Point	625.9	20-May-10	<0.1	7.0	0.71	34.2		35.9	<0.1	0.62	1.67	<50	<15		9.9	2.7	2.11	<0.1	<0.5	1.37	<0.1	1.04
West Point	625.9	22-Jul-10	<0.1	8.5	1.19	46.5		44.6	<0.1	0.3	1.97	<50	<15		14.4	4.8	1.56	<0.1	<0.5	1.36	<0.1	1.03
West Point	625.9	16-Sep-10	<0.1	37.1	1.96	67.0		68.3	<0.1	1.43	4.95	<50	9.04		17.2	7.2	4.48	<0.1	<0.5	5.99	0.22	1.6
West Point	625.9	26-Jan-11	<0.1	7.8	1.24	68.3		58.0	<0.1	0.58	2.35	<50	<15		18.8	26.9	3.98	<0.1	<0.5	2.84	R	3.66
West Point	625.9	17-Nov-10	<0.1	12.8	0.24	40.5		42.2	<0.1	0.91	1.9	<50	4.11		11.2	38.2	3.44	<0.1	<0.5	1.91	R	7.76
West Point	625.9	28-Mar-11	<0.1	10.0	0.42	31.0		28.6	1	<0.1	1.22	<50	<15		8.5	8.8	1.71	<0.1	<0.5	<0.5	<0.1	R
West Point	625.9	18-May-11	<0.1	8.3	0.44	32.0		40.2	<0.1	0.79	1.45	<50	1.86		12.5	4.5	2.38	<0.1	<0.5	0.69	<0.1	2.4
Cannellton	720.7	12-Jan-10	<0.1	4.5	0.35	29.5		33.1	<0.1	1.95	0.93	<50	<15		9.9	4.8	1.45	<0.1	<0.5	<0.5	<0.1	1.46
Cannellton	720.7	24-Mar-10	<0.1	10.9	0.35	30.1		28.3	<0.1	0.18	1.19	<50	<15		8.1	1.9	1.72	<0.1	<0.5	<0.5	<0.1	R
Cannellton	720.7	11-May-10	<0.1	7.4	0.63	30.1		32.9	<0.1	0.92	1.7	<50	<15		7.8	3.2	2.05	<0.1	<0.5	<0.5	<0.1	<1
Cannellton	720.7	13-Jul-10	<0.1	5.0	1.05	46.0		41.6	<0.1	1.61	1.8	<50	<15		13.0	2.2	1.32	<0.1	<0.5	0.81	<0.1	<1
Cannellton	720.7	02-Nov-10	<0.1	12.9	1	53.3		38.5	<0.1	1.39	1.8	<50	<15		13.8	4.8	1.97	<0.1	<0.5	1.67	<0.1	<1
Cannellton	720.7	26-Jan-11	<0.1	5.8	1.06	63.2		47.6	<0.1	0.53	1.86	<50	<15		18.0	2.5	2.87	<0.1	<0.5	1.67	<0.1	1.11
Cannellton	720.7	30-Mar-11	<0.1	6.4	0.36	35.3		30.5	<0.1	0.6	1.39	<50	<15		9.5	7.8	1.83	<0.1	<0.5	<0.5	<0.1	2.23
Cannellton	720.7	12-Jul-11	<0.1	8.9	0.62	36.2		31.7	<0.1	0.64	1.58	<50	<15		9.2	1.6	1.82	<0.1	<0.5	<0.5	<0.1	2.29
Cannellton	720.7	29-Sep-11	<0.1	4.9	0.87	53.5		42.9	<0.1	2.42	1.81	<50	<15		14.2	0.9	2.61	<0.1	<0.5	0.9	<0.1	R
Cannellton	720.7	16-Nov-11	<0.1	4.6	0.64	32.3		33.1	<0.1	1.2	1.63	<50	<15		9.6	1.9	1.99	<0.1	<0.5	<0.5	<0.1	<1
Cannellton	720.7	09-Jan-12	<0.1	9.7	0.46	28.5		30.3	<0.1	1.12	1.29	<50	<15		9.1	2.5	2.09	<0.1	<0.5	0.36	R	1.13
Cannellton	720.7	14-Mar-12	<0.1	13.6	0.38	28.6		31.2	<0.1	0.29	R	<50	<15		8.6	1.1	0.85	<0.1	<0.5	<0.5	<0.1	R
Cannellton	720.7	31-May-12	<0.1	6.2	0.82	38.6		35.8	<0.1	0.84	2.06	<50	<15		12.1	1.1	1.11	<0.1	<0.5	0.52	<0.1	3.06
Cannellton	720.7	10-Jul-12	<0.1	7.5	0.88	43.6		35.2	<0.1	<0.1	1.31	<50	<15		12.1	1.1	1.11	<0.1	<0.5	0.82	<0.1	1.01
Cannellton	720.7	12-Sep-12	<0.1	4.6	1.13	46.2		37.0	<0.1	0.27	1.96	<50	<15		13.1	1.0	2.15	<0.1	<0.5	1.22	<0.1	R
Cannellton	720.7	14-Nov-12	<0.1	3.8	0.71	47.2		38.9	<0.1	0.68	2.31	<50	<15		11.9	1.0	2.06	<0.1	<0.5	0.95	<0.1	1.17
Cannellton	720.7	29-Jan-13	<0.1	9.0	0.45	30.0		28.7	<0.1	0.33	1.12	<50	<15		8.0	1.9	1.22	<0.1	<0.5	<0.5	<0.1	1.17
Cannellton	720.7	26-Mar-13	<0.1	10.0	0.49	27.4		31.0	<0.1	0.4	1.17	<50	<15		8.7	1.7	1.36	<0.1	<0.5	0.52	<0.1	1.06
Cannellton	720.7	07-May-13	<0.1	8.4	0.56	33.1		37.3	<0.1	<0.5	1.31	<50	<15		9.9	6.5	1.08	<0.1	<0.5	<0.5	<0.1	1.09
Cannellton	720.7	16-Jul-13	<0.1	7.6	0.76	32.1		30.1	<0.1	0.59	1.84	<50	<15		8.7	0.9	1.00	<0.1	<0.5	<0.5	<0.1	<1
Cannellton	720.7	24-Sep-13	<0.1	4.9	0.89	44.3		37.0	<0.1	<0.5	1.64	<50	<15		11.2	8.5	1.36	<0.1	<0.5	0.98	<0.1	8.24
Cannellton	720.7	26-Nov-13	<0.1	5.0	1	41.0		42.8	<0.1	<0.5	1.67	<50	<15		12.4	1.7	1.76	<0.1	<0.5	0.81	<0.1	2.62
Cannellton	720.7	20-Jan-14	<0.1	11.7	<1	26.7		30.3	<1	<1	1.03	<50	<5		8.7	2.5	1.23	<1	<0.1	<1	<0.1	<1
Cannellton	720.7	18-Mar-14	<0.1	7.5	<1	30.0		32.1	<1	<1	<1	<50	<5	2.45	10.3	1.1	<1	<1	0.12	<1	<0.1	<1
Cannellton	720.7	28-May-14	<0.1	7.7	<1	34.1		34.5	<1	<1	1.69	<50	<5		9.1	1.4	1.13	<1	<0.1	<1	<0.1	<1
Cannellton	720.7	23-Jul-14	<0.1	6.1	<1	40.5		34.7	<1	<1	1.7	<50	<5	2.91	10.7	6.4	1.20	<1	0.17	<1	<0.1	1.55
Cannellton	720.7	17-Sep-14	<0.1	6.7	<1	43.0		38.6	<1	<1	1.7	<50	<15	3.27	11.5	14.3	1.44	<1	0.17	<1	<0.1	2.38
Cannellton	720.7	18-Nov-14	<0.1	4.5	<1	40.5		38.7	<1	<1	1.4	<50	<15	3.17	13.3	5.0	1.14	<1	0.13	<1	<0.1	1.18
Newburgh	776	12-Jan-10	<0.1	5.5	0.45	31.3		36.1	<0.1	2.41	1.1	<50	<15		12.0	12.2	1.59	<0.1	<0.5	0.56	<0.1	<1
Newburgh	776	24-Mar-10	<0.1	7.2	0.49	32.2		28.8	<0.1	0.17	1.69	<50	<15		8.9	12.4	2.03	<0.1	<0.5	<0.5	<0.1	1.99
Newburgh	776	11-May-10	<0.1	5.0	0.77	30.6		33.1	<0.1	1.1	1.8	<50	<15		9.0	43.3	2.38	<0.1	<0.5	0.53	<0.1	1.69
Newburgh	776	13-Jul-10	<0.1	5.5	1.07	45.1		41.2	<0.1	0.7	2.1	<50	<15		13.1	0.9	1.32	<0.1	<0.5	0.86	<0.1	<1
Newburgh	776	07-Sep-10	<0.1	5.3	0.99	48.2		38.3	<0.1	1.09	2.07	<50	<15		12.0	0.6	2.22	<0.1	<0.5	1.01	<0.1	<1
Newburgh	776	02-Nov-10	<0.1	6.6	1.05	64.9		49.5	<0.1	0.13	1.86	<50	<15		17.6	2.0	2.54	<0.1	<0.5	1.6	<0.1	R
Newburgh	776	26-Jan-11	<0.1	5.5	0.51	39.1		34.5	<0.1	0.73	1.4	<50	<15		10.8	15.3	2.24	<0.1	<0.5	0.9	<0.1	1.24

R - Indicates data redacted due to QA issues.

Appendix B. Dissolved Metals Results, January 2010 through December 2014

Sample Site	Site Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Ce (ug/L)	Co (ug/L)	Fe (ug/L)	Hg (ug/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Newburgh	776	01-Mar-11	<0.1	9.1	0.65	36.5		42.0	<0.1	0.1	1.56	<50	<1.5		10.6	2.6	2.50	<0.1	<0.5	0.34	<0.1	1.21
Newburgh	776	24-Mar-11	<0.1	8.5	1.19	41.4		41.5	0.18	1.65	2.17	<50	<1.5		11.7	2.4	2.76	<0.1	<0.5	0.62	<0.1	1.2
Newburgh	776	12-Jul-11	<0.1	8.8	0.71	45.3		41.5	<0.1	2.62	1.81	<50	<1.5		12.8	2.6	2.67	0.17	<0.5	0.97	R	<1
Newburgh	776	29-Sep-11	<0.1	6.3	0.83	36.2		41.7	<0.1	0.48	2.01	<50	5.2		13.1	4.1	2.26	<0.1	<0.5	0.99	<0.1	1.52
Newburgh	776	16-Nov-11	<0.1	9.1	0.6	28.2		31.8	<0.1	0.38	1.59	<50	<1.5		10.0	1.77	2.90	<0.1	<0.5	0.53	<0.1	R
Newburgh	776	09-Jan-12	<0.1	10.0	0.26	29.2		32.3	<0.1	0.9	1.09	<50	<1.5		9.0	2.3	0.90	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	776	31-Mar-12	<0.1	5.4	0.8	39.0		36.6	0.13	0.22	1.86	<50	<1.5		11.2	0.6	1.39	0.14	<0.5	0.71	R	1.66
Newburgh	776	10-Jul-12	<0.1	6.7	0.73	40.7		36.6	<0.1	0.12	1.53	<50	<1.5		11.8	0.2	1.09	<0.1	<0.5	0.59	<0.1	<1
Newburgh	776	12-Sep-12	<0.1	7.8	0.96	44.7		35.5	<0.1	0.24	1.88	<50	<1.5		12.9	0.4	1.84	<0.1	<0.5	1.09	<0.1	2.07
Newburgh	776	14-Nov-12	<0.1	3.5	0.65	52.3		41.0	<0.1	0.58	R	<50	<1.5		12.9	3.6	2.12	<0.1	<0.5	0.95	<0.1	R
Newburgh	776	29-Jan-13	<0.1	8.8	0.44	29.9		29.2	<0.1	0.39	1.11	<50	<1.5		8.4	8.6	1.22	<0.1	<0.5	0.51	<0.1	<1
Newburgh	776	06-Mar-13	<0.1	8.2	0.44	27.3		32.2	<0.1	0.22	2.41	<50	<1.5		9.3	7.5	1.43	<0.1	<0.5	0.88	<0.1	3.18
Newburgh	776	27-May-13	<0.1	8.6	0.61	32.1		32.9	<0.1	<0.5	1.41	<50	<1.5		9.9	13.9	1.36	<0.1	<0.5	<0.5	<0.1	2.99
Newburgh	776	11-Jul-13	<0.1	8.4	0.81	29.0		36.1	<0.1	<0.5	1.91	<50	<1.5		7.6	1.1	1.15	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	776	24-Sep-13	<0.1	6.7	0.94	42.2		35.6	<0.1	<0.5	1.57	<50	<1.5		11.1	7.0	1.20	<0.1	<0.5	0.88	<0.1	1.27
Newburgh	776	20-Nov-13	<0.1	5.9	1.08	39.7		42.3	<0.1	<0.5	1.98	<50	<1.5		12.8	5.0	1.80	0.1	<0.5	0.9	<0.1	7.81
Newburgh	776	20-Jan-14	<0.1	8.5	<1	28.9		33.3	<1	<1	1.53	<50	<1.5		9.9	6.3	1.48	<1	<0.1	<1	<0.1	2.78
Newburgh	776	28-Mar-14	<0.1	7.4	<1	31.3		35.3	<1	<1	<1	<50	<1.5	2.34	11.1	45.2	1.08	<1	<0.1	<1	<0.1	1.84
Newburgh	776	23-Jul-14	<0.1	5.2	<1	40.2		38.3	<1	<1	1.92	<50	<1.5	3.06	10.8	1.1	1.26	<1	0.18	<1	<0.1	<1
Newburgh	776	17-Sep-14	<0.1	7.7	<1	44.7		39.9	<1	<1	1.57	<50	<1.5	2.99	12.6	4.8	1.42	<1	0.2	1.07	<0.1	1.5
Newburgh	776	18-Nov-14	<0.1	5.2	<1	40.0		38.3	<1	<1	1.47	<50	<1.5		13.1	11.6	1.46	<1	0.15	1.03	<0.1	1.06
Newburgh	846	13-Jan-10	<0.1	5.8	0.25	30.9		37.4	<0.1	1.51	0.83	<50	<1.5		11.9	15.3	1.48	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	846	25-Mar-10	<0.1	6.6	0.47	35.5		31.7	<0.1	0.16	1.41	<50	<1.5		9.3	1.6	1.43	<0.1	<0.5	0.53	<0.1	<1
Newburgh	846	12-May-10	<0.1	8.8	0.64	29.0		30.8	<0.1	0.16	1.53	<50	<1.5		7.3	2.6	2.00	<0.1	<0.5	0.76	<0.1	<1
Newburgh	846	14-Jul-10	<0.1	6.4	1.08	42.3		40.1	<0.1	0.69	1.81	<50	<1.5		12.1	5.1	1.17	<0.1	<0.5	0.87	<0.1	<1
Newburgh	846	08-Sep-10	<0.1	20.6	0.94	44.5		39.4	<0.1	0.85	1.55	<50	<1.5		12.0	0.2	2.05	<0.1	<0.5	0.84	<0.1	<1
Newburgh	846	09-Nov-10	<0.1	7.0	0.99	56.0		46.4	<0.1	1.33	1.67	<50	<1.5		15.7	0.5	2.73	<0.1	<0.5	1.36	<0.1	1.41
Newburgh	846	26-Jan-11	<0.1	8.4	0.5	35.6		32.7	<0.1	0.56	1.54	<50	<1.5		10.1	10.9	2.25	<0.1	<0.5	0.68	<0.1	2.66
Newburgh	846	01-Mar-11	<0.1	6.7	0.62	37.4		41.4	<0.1	1.02	1.57	<50	<1.5		10.4	1.9	2.48	<0.1	<0.5	0.61	<0.1	<1
Newburgh	846	23-May-11	<0.1	6.0	0.69	34.4		37.3	<0.1	1.2	1.57	<50	<1.5	R	11.3	9.7	2.80	<0.1	<0.5	0.67	<0.1	1.15
Newburgh	846	12-Jul-11	<0.1	5.7	0.99	36.3		39.0	<0.1	1.53	1.85	<50	<1.5		11.0	2.1	2.04	<0.1	<0.5	0.57	<0.1	<1
Newburgh	846	28-Sep-11	<0.1	8.2	0.93	54.9		45.0	<0.1	1.98	1.7	<50	<1.5		15.5	2.1	2.44	<0.1	<0.5	0.69	<0.1	1.44
Newburgh	846	17-Nov-11	<0.1	5.7	0.73	37.2		37.5	<0.1	1	1.83	<50	<1.5		10.9	2.8	2.28	<0.1	<0.5	0.54	<0.1	1.35
Newburgh	846	09-Jan-12	<0.1	8.3	0.5	26.9		30.5	<0.1	0.27	R	<50	<1.5		8.8	24.8	1.98	<0.1	<0.5	0.52	<0.1	R
Newburgh	846	14-Mar-12	<0.1	9.4	0.44	28.0		30.4	<0.1	0.43	R	<50	<1.5		8.4	2.0	1.03	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	846	30-May-12	<0.1	7.2	0.63	36.4		37.1	<0.1	0.16	1.51	<50	<1.5		10.2	0.4	1.12	<0.1	<0.5	0.66	<0.1	1.09
Newburgh	846	10-Jul-12	<0.1	13.8	0.76	42.9		37.7	<0.1	0.16	1.51	<50	<1.5		12.1	3.5	1.03	<0.1	<0.5	0.66	<0.1	1.09
Newburgh	846	13-Sep-12	<0.1	7.8	0.8	37.3		29.6	<0.1	0.19	1.24	<50	<1.5		10.3	0.7	1.38	<0.1	<0.5	0.81	<0.1	2.78
Newburgh	846	15-Nov-12	<0.1	5.7	0.7	53.1		40.6	<0.1	0.36	1.95	<50	<1.5		13.2	3.1	2.28	<0.1	<0.5	0.93	<0.1	1.95
Newburgh	846	30-Jan-13	<0.1	9.0	0.65	29.4		29.6	<0.1	0.21	1.24	<50	<1.5		8.0	6.5	1.31	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	846	27-Mar-13	<0.1	7.1	0.46	26.3		39.2	<0.1	0.22	1.24	<50	<1.5		8.5	2.2	1.31	<0.1	<0.5	<0.5	<0.1	1.87
Newburgh	846	08-May-13	<0.1	6.8	0.51	31.1		33.2	<0.1	<0.5	1.95	<50	<1.5	R	9.3	2.4	1.12	<0.1	<0.5	<0.5	<0.1	1.4
Newburgh	846	23-Jul-13	<0.1	7.5	0.75	35.5		34.7	<0.1	<0.5	2.07	<50	<1.5		8.8	0.9	1.19	<0.1	<0.5	<0.5	<0.1	1.5
Newburgh	846	10-Sep-13	<0.1	5.4	0.87	<10		37.5	<0.1	0.56	1.67	<50	<1.5		11.7	1.0	1.14	<0.1	<0.5	0.9	<0.1	3.29
Newburgh	846	20-Nov-13	<0.1	4.3	0.87	33.4		36.3	<0.1	<0.5	1.69	<50	<1.5		10.9	1.9	1.53	<0.1	<0.5	0.63	<0.1	5.05
Newburgh	846	21-Jan-14	<0.1	6.9	<1	27.0		34.2	<1	<1	1.3	<50	<1.5		9.0	4.3	1.20	<1	<0.1	<1	<0.1	1.2
Newburgh	846	19-Mar-14	<0.1	7.8	<1	29.6		35.1	<1	<1	1.13	<50	<1.5		10.1	12.7	1.14	<1	<0.1	<1	<0.1	1.6
Newburgh	846	29-May-14	<0.1	7.7	<1	34.4		35.3	<1	<1	1.73	<50	<1.5	2.37	9.3	1.3	1.13	<1	0.12	<1	<0.1	<1
Newburgh	846	17-Jul-14	<0.1	6.2	1.02	44.3		34.5	<1	<1	1.73	<50	<1.5	2.8	11.4	1.6	1.12	<1	0.18	<1	<0.1	1.12
Newburgh	846	16-Sep-14	<0.1	8.9	1.06	<1		42.5	<1	<1	1.68	<50	<1.5	3.21	14.2	3.1	1.31	<1	0.2	<1	<0.1	R
Newburgh	846	19-Nov-14	<0.1	9.7	<1	39.3		37.7	<1	<1	1.41	<50	<1.5	3.26	12.6	11.0	1.23	<1	0.15	<1	<0.1	1.23
Newburgh	846	13-Jan-10	<0.1	3.4	0.46	34.7		49.3	<0.1	2.85	3.47	<50	<1.5		15.6	14.4	1.95	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	918.5	25-Mar-10	<0.1	6.3	0.67	39.1		37.8	<0.1	0.22	1.78	<50	<1.5		11.4	3.9	2.22	0.11	<0.5	0.5	<0.1	1.77
Newburgh	918.5	13-May-10	<0.1	5.3	0.92	34.8		36.9	<0.1	1.36	1.68	<50	<1.5		10.3	22.3	2.23	<0.1	<0.5	0.56	<0.1	<1
Newburgh	918.5	15-Jul-10	<0.1	2.9	1.26	44.5		46.4	<0.1	1.34	1.7	<50	<1.5		14.3	1.2	1.19	<0.1	<0.5	0.68	R	<1
Newburgh	918.5	09-Sep-10	<0.1	6.5	1.14	53.3		45.2	<0.1	0.66	1.51	<50	<1.5		15.1	0.6	2.26	<0.1	<0.5	0.82	<0.1	<1
Newburgh	918.5	03-Nov-10	<0.1	3.1	1.01	57.2		49.8	<0.1	1.5	1.54	<50	<1.5		18.1	0.4	2.71	<0.1	<0.5	1.7	<0.1	1.04
Newburgh	918.5	27-Jan-11	<0.1	3.1	0.3	19.3		19.6	<0.1	0.56	0.89	<50	<1.5		6.1	9.1	1.43	<0.1	<0.5	<0.5	<0.1	<1

R - Indicates data redacted due to QA issues.

Appendix B. Dissolved Metals Results, January 2010 through December 2014

Sample Site	Site Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Be (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/L)	K (mg/L)	Mg (mg/L)	Mn (ug/L)	Ni (ug/L)	Pb (ug/L)	Sb (ug/L)	Se (ug/L)	Ti (ug/L)	Zn (ug/L)
Smithland	918.5	29-Mar-11	<0.1	6.0	0.62	36.6		41.1	<0.1	<0.1	1.52	<50	<1.5		11.6	4.7	2.11	<0.1	<0.5	0.53	<0.1	2.38
Smithland	918.5	23-May-11	<0.1	5.8	0.95	37.1		43.7	<0.1	1.35	1.7	<50	R		13.1	8.2	3.12	<0.1	<0.5	0.53	<0.1	<1
Smithland	918.5	13-Jul-11	<0.1	3.7	1.19	36.4		37.2	<0.1	1.42	1.69	<50	<1.5		10.8	1.5	1.93	<0.1	<0.5	0.51	<0.1	R
Smithland	918.5	28-Sep-11	<0.1	6.8	1.06	49.1		42.2	<0.1	2.89	1.77	<50	<1.5		14.2	1.2	2.66	<0.1	<0.5	0.76	<0.1	R
Smithland	918.5	17-Nov-11	<0.1	4.9	0.67	41.3		40.3	<0.1	1.19	1.48	<50	<1.5		12.5	5.3	2.28	<0.1	<0.5	<0.5	<0.1	<1
Smithland	918.5	10-Jan-12	<0.1	5.1	0.7	33.1		43.3	<0.1	2	1.49	<50	<1.5		12.7	13.9	2.38	<0.1	<0.5	0.68	<0.1	2.19
Smithland	918.5	13-Mar-12	<0.1	8.1	0.35	31.6		35.7	<0.1	1.62	R	<50	<1.5		10.5	2.0	0.97	<0.1	<0.5	<0.5	<0.1	<1
Smithland	918.5	30-May-12	<0.1	4.0	0.74	38.0		39.6	<0.1	0.57	1.58	<50	<1.5		12.3	6.8	1.09	<0.1	<0.5	<0.5	<0.1	1.17
Smithland	918.5	11-Jul-12	<0.1	8.4	1.02	42.9		39.9	<0.1	<0.1	1.24	<50	5		16.3	0.7	1.02	<0.1	<0.5	0.56	<0.1	2.39
Smithland	918.5	15-Sep-12	<0.1	4.3	1.12	46.3		37.4	<0.1	0.21	1.57	<50	<1.5		13.3	0.5	1.74	<0.1	<0.5	0.9	<0.1	3.96
Smithland	918.5	15-Nov-12	<0.1	2.2	0.71	57.7		45.1	<0.1	0.39	1.79	<50	<1.5		15.5	1.5	2.25	<0.1	<0.5	0.93	<0.1	1.94
Smithland	918.5	30-Jan-13	<0.1	6.0	0.65	34.5		35.7	<0.1	1.01	1.73	<50	<1.5		9.8	14.6	1.53	0.1	<0.5	0.69	<0.1	<1
Smithland	918.5	27-Mar-13	<0.1	5.4	0.58	30.6		35.8	<0.1	0.42	1.28	<50	<1.5		10.1	3.0	1.36	<0.1	<0.5	0.54	<0.1	<1
Smithland	918.5	08-May-13	<0.1	4.0	0.96	38.9		42.2	<0.1	<0.5	1.82	<50	<1.5		11.9	2.3	1.42	<0.1	<0.5	<0.5	<0.1	1.32
Smithland	918.5	23-Jul-13	<0.1	6.3	1	35.6		39.0	<0.1	0.67	1.95	<50	<1.5		10.8	1.0	1.03	<0.1	<0.5	<0.5	<0.1	1.21
Smithland	918.5	19-Sep-13	<0.1	2.4	1.12	44.7		39.7	<0.1	<0.5	1.53	<50	<1.5		14.7	0.8	1.33	<0.1	<0.5	0.83	<0.1	<1
Smithland	918.5	20-Nov-13	<0.1	4.1	1.17	36.7		38.9	<0.1	<0.5	1.63	<50	<1.5		11.8	2.2	1.64	<0.1	<0.5	0.71	<0.1	4.36
Smithland	918.5	21-Jan-14	<0.1	5.3	<1	30.8		38.0	<1	<1	1.41	<50	<5		10.7	3.6	1.23	<1	<0.1	<1	<0.1	1.63
Smithland	918.5	19-Mar-14	<0.1	4.2	<1	30.6	<1	39.8	<1	<1	1.28	<50	<5	2.73	11.2	2.7	1.05	<1	<0.1	<1	<0.1	<1
Smithland	918.5	29-May-14	<0.1	5.1	<1	36.3	<1	39.8	<1	<1	1.72	<50	<5	2.79	10.8	2.6	1.16	<1	0.13	<1	<0.1	1.15
Smithland	918.5	17-Jul-14	<0.1	3.1	1.09	47.4	<1	47.0	<1	<1	1.46	<50	<5	3.43	14.9	<1	1.00	<1	0.18	<1	<0.1	2.95
Smithland	918.5	16-Sep-14	<0.1	4.2	1.3	43.6	<1	43.1	<1	<1	1.75	<50	<1.5	3.3	13.1	2.5	1.35	<1	0.2	<1	<0.1	<1
Smithland	918.5	19-Nov-14	<0.1	2.9	<1	40.4	<1	44.0	<1	<1	1.3	<50	<1.5		14.4	8.9	1.11	<1	0.14	<1	<0.1	<1
Smithland	938.9	12-Jan-10	<0.1	3.6	0.48	33.5		45.4	<0.1	3.32	1.16	<50	<1.5		14.4	48.8	1.92	<0.1	<0.5	0.56	<0.1	<1
Smithland	938.9	25-Mar-10	<0.1	6.4	0.7	38.5		36.7	<0.1	0.19	1.68	<50	<1.5		10.8	2.5	2.23	<0.1	<0.5	0.64	<0.1	1.31
Smithland	938.9	12-May-10	<0.1	17.4	0.54	43.6		40.1	<0.1	1.19	1.35	<50	<1.5		11.5	6.2	2.47	<0.1	<0.5	0.64	<0.1	2.26
Smithland	938.9	08-Sep-10	<0.1	6.0	1.27	41.7		45.2	<0.1	1	1.57	<50	<1.5		13.5	12.6	1.10	<0.1	<0.5	0.57	<0.1	<1
Smithland	938.9	14-Jul-10	<0.1	4.3	1.42	44.4		35.8	<0.1	0.74	1.36	<50	<1.5		11.3	0.4	1.71	<0.1	<0.5	0.78	<0.1	<1
Smithland	938.9	03-Nov-10	<0.1	3.2	1.12	41.0		35.0	<0.1	0.32	1.19	<50	<1.5		12.1	1.1	1.96	<0.1	<0.5	1	<0.1	<1
Smithland	938.9	27-Jan-11	<0.1	4.8	0.51	39.1		39.5	<0.1	1.9	1.36	<50	<1.5		12.0	17.8	2.42	<0.1	<0.5	0.62	<0.1	1.32
Smithland	938.9	16-Mar-11	<0.1	5.6	0.74	35.7		33.4	<0.1	0.73	1.84	<50	<1.5		8.6	7.9	2.24	<0.1	<0.5	0.5	<0.1	2.05
Smithland	938.9	23-May-11	<0.1	5.1	1.13	34.6		33.9	<0.1	1.14	1.6	<50	<1.5		12.0	260.5	3.43	<0.1	<0.5	0.53	<0.1	1.42
Smithland	938.9	13-Jul-11	<0.1	5.4	0.88	52.3		45.2	<0.1	3.06	1.81	<50	<1.5		9.6	21.7	1.91	<0.1	<0.5	0.51	<0.1	<1
Smithland	938.9	28-Sep-11	<0.1	5.4	0.82	41.7		39.7	<0.1	0.77	1.83	<50	<1.5		15.9	2.0	2.56	<0.1	<0.5	0.76	<0.1	1.94
Smithland	938.9	17-Nov-11	<0.1	5.7	0.73	32.2		38.7	<0.1	1.12	1.6	<50	<1.5		11.4	34.8	2.42	<0.1	<0.5	0.61	<0.1	9.17
Smithland	938.9	10-Jan-12	<0.1	7.0	0.39	30.8		34.9	<0.1	R	1.52	<50	<1.5		10.2	2.7	0.97	<0.1	<0.5	<0.5	<0.1	1.41
Smithland	938.9	13-Mar-12	<0.1	3.0	0.69	34.7		36.2	<0.1	0.54	1.52	<50	<1.5		10.6	0.3	1.06	<0.1	<0.5	<0.5	<0.1	1.11
Smithland	938.9	30-May-12	<0.1	5.5	1.09	31.6		27.7	<0.1	<0.1	0.8	<50	<1.5		9.3	0.2	0.51	<0.1	<0.5	<0.5	<0.1	4.29
Smithland	938.9	11-Jul-12	<0.1	4.8	1.08	46.0		36.5	<0.1	0.25	1.73	<50	<1.5		12.8	0.9	1.80	<0.1	<0.5	0.93	<0.1	1.07
Smithland	938.9	12-Sep-12	<0.1	2.2	0.88	57.8		46.6	<0.1	0.68	1.85	<50	<1.5		15.8	3.2	2.16	<0.1	<0.5	0.94	<0.1	1.41
Smithland	938.9	15-Nov-12	<0.1	7.0	0.73	32.7		32.2	<0.1	0.2	1.72	<50	<1.5		8.8	26.6	1.46	<0.1	<0.5	<0.5	<0.1	5.06
Smithland	938.9	30-Jan-13	<0.1	5.0	0.53	27.0		40.9	<0.1	0.36	1.31	<50	<1.5		8.3	7.0	1.24	<0.1	<0.5	0.5	<0.1	<1
Smithland	938.9	08-Mar-13	<0.1	3.4	0.93	38.0		35.7	<0.1	0.57	1.73	<50	<1.5		9.8	57.3	1.14	<0.1	<0.5	0.54	<0.1	1.21
Smithland	938.9	23-Jul-13	<0.1	6.8	1.18	34.6		39.5	<0.1	<0.5	1.38	<50	<1.5		11.7	3.5	1.41	<0.1	<0.5	0.88	<0.1	2.77
Smithland	938.9	24-Sep-13	<0.1	4.0	1.03	44.1		39.5	<0.1	<0.5	1.5	<50	<1.5		13.5	3.2	1.24	0.12	<0.5	0.66	<0.1	R
Smithland	938.9	20-Nov-13	<0.1	4.1	1.01	35.9		40.0	<0.1	<0.5	1.5	<50	<1.5		11.8	3.4	1.63	0.1	<0.5	0.68	<0.1	1.38
Smithland	938.9	21-Jan-14	<0.1	9.4	<1	32.2		36.9	<1	<1	1.95	<50	<5		11.2	4.5	1.31	<1	<0.1	<1	<0.1	5.09
Smithland	938.9	19-Mar-14	<0.1	4.5	<1	31.6		39.2	<1	<1	1.29	<50	<5		11.5	3.7	1.11	<1	<0.1	<1	<0.1	1.88
Smithland	938.9	29-May-14	<0.1	4.3	<1	36.9	<1	40.5	<1	<1	1.68	<50	<5	2.76	11.2	9.2	1.26	<1	<0.1	<1	<0.1	<1
Smithland	938.9	17-Jul-14	<0.1	6.8	1.18	47.5	<1	47.2	<1	<1	1.56	<50	<5	2.82	14.6	<1	1.08	<1	0.18	<1	<0.1	1.1
Smithland	938.9	17-Sep-14	<0.1	4.0	1.29	40.6	<1	39.8	<1	<1	1.39	<50	<1.5	3.19	12.1	4.2	1.25	<1	0.18	<1	<0.1	<1
Smithland	938.9	19-Nov-14	<0.1	21.3	<1	39.2	<1	42.7	<1	<1	1.38	<50	<1.5	3.2	14.1	11.5	1.30	<1	0.15	<1	<0.1	1.17

APPENDIX C

Nutrients Monitoring Program Data

Appendix C. Nutrients Monitoring Program Data.

Location	Mile Point	Date	Total Kjeldahl Nitrogen, mg/L	Ammonia-Nitrogen, mg/L	Nitrate/Nitrite-Nitrogen, mg/L	Total Phosphorus, mg/L
WEST VIEW	5.0	3/3/2010	0.29	0.09	0.947	0.029
WEST VIEW	5.0	3/17/2010	0.566	0.04	0.688	0.086
WEST VIEW	5.0	4/5/2010	0.577	0.04	0.659	0.053
WEST VIEW	5.0	4/27/2010	0.514	0.05	0.618	0.054
WEST VIEW	5.0	5/10/2010	0.498		0.651	0.079
WEST VIEW	5.0	5/24/2010	0.456		0.52	
WEST VIEW	5.0	6/7/2010	0.504		0.779	0.028
WEST VIEW	5.0	6/15/2010	0.6		0.737	0.042
WEST VIEW	5.0	7/7/2010	0.43		0.841	0.035
WEST VIEW	5.0	7/26/2010	0.613		0.72	0.033
WEST VIEW	5.0	8/4/2010	0.523		0.608	0.024
WEST VIEW	5.0	8/19/2010	0.347		0.812	
WEST VIEW	5.0	9/14/2010	1.21		0.857	0.016
WEST VIEW	5.0	9/27/2010	0.282		1.05	0.06
WEST VIEW	5.0	11/29/2010	0.713		0.662	0.038
WEST VIEW	5.0	12/13/2010	0.292	0.03	0.486	0.026
WEST VIEW	5.0	12/28/2010	0.488	0.09	0.763	0.011
WEST VIEW	5.0	1/10/2011	0.514	0.1	0.667	0.042
WEST VIEW	5.0	1/24/2011	0.583	0.16	0.96	0.131
WEST VIEW	5.0	2/8/2011	0.408	0.1	0.997	0.04
WEST VIEW	5.0	2/23/2011	0.479	0.06	0.874	0.05
WEST VIEW	5.0	3/15/2011	0.891	0.04	0.671	0.06
WEST VIEW	5.0	3/21/2011	0.364		0.547	0.037
WEST VIEW	5.0	4/11/2011	0.394		0.513	0.032
WEST VIEW	5.0	4/20/2011	0.603	0.04	0.437	0.062
WEST VIEW	5.0	5/9/2011	0.322		0.459	0.051
WEST VIEW	5.0	5/26/2011	0.151		0.448	0.026
WEST VIEW	5.0	6/14/2011	0.488		0.573	0.033
WEST VIEW	5.0	6/29/2011	0.384	0.05	0.452	0.054
WEST VIEW	5.0	7/12/2011	0.21	0.02	1.3	0.053
WEST VIEW	5.0	01/09/2012	0.18	0.09	0.59	0.026
WEST VIEW	5.0	02/08/2012			0.64	0.019
WEST VIEW	5.0	03/27/2012	0.15		0.53	0.022
WEST VIEW	5.0	04/04/2012	0.49		0.88	0.02
WEST VIEW	5.0	04/16/2012	0.24		0.7	0.011
WEST VIEW	5.0	05/08/2012		0.42	0.41	0.049
WEST VIEW	5.0	05/23/2012	0.17		0.56	0.17
WEST VIEW	5.0	06/07/2012	0.32		0.8	0.25
WEST VIEW	5.0	06/18/2012	0.26		0.97	
WEST VIEW	5.0	08/06/2012	0.2		0.87	
WEST VIEW	5.0	08/22/2012	0.25		0.92	0.043
WEST VIEW	5.0	09/06/2012			1	0.02
WEST VIEW	5.0	10/23/2012			0.73	0.051
WEST VIEW	5.0	11/19/2012			0.62	0.059
WEST VIEW	5.0	12/05/2012			0.76	0.02
WEST VIEW	5.0	05/29/2013	0.23		0.67	0.047
WEST VIEW	5.0	06/12/2013	0.55		0.76	
WEST VIEW	5.0	09/16/2013	0.24	0.059	0.89	0.027
WHEELING	86.8	1/11/2010	0.583	0.08	0.948	0.05
WHEELING	86.8	1/25/2010	1.68	0.09	0.932	0.343
WHEELING	86.8	2/18/2010	0.469	0.14	0.798	0.034
WHEELING	86.8	3/8/2010	0.367	0.13	0.956	0.033
WHEELING	86.8	3/23/2010	1.62	0.04	0.754	0.314
WHEELING	86.8	4/5/2010	0.634	0.05	0.676	0.031
WHEELING	86.8	4/20/2010	0.595		0.687	0.054
WHEELING	86.8	5/3/2010	0.301		0.584	0.046
WHEELING	86.8	6/7/2010	1.13	0.07	0.975	0.104
WHEELING	86.8	6/23/2010	0.853		0.812	0.054
WHEELING	86.8	7/6/2010	0.486		0.803	0.045
WHEELING	86.8	7/19/2010	0.625		0.811	0.113
WHEELING	86.8	8/17/2010	0.514		0.683	0.044
WHEELING	86.8	9/21/2010	0.461	0.04	1.02	0.043
WHEELING	86.8	10/19/2010	0.407	0.04	0.937	0.095
WHEELING	86.8	11/1/2010	0.444	0.05	1.05	0.12
WHEELING	86.8	11/16/2010	0.364	0.04	0.806	0.038
WHEELING	86.8	12/8/2010	0.782	0.05	0.648	0.115
WHEELING	86.8	12/20/2010	0.706	0.06	0.625	0.036
WHEELING	86.8	1/5/2011	0.794	0.16	0.866	0.053
WHEELING	86.8	1/19/2011	0.659	0.14	0.741	0.058
WHEELING	86.8	2/8/2011	0.607	0.15	1.07	0.066
WHEELING	86.8	2/24/2011	0.893	0.09	0.931	0.079
WHEELING	86.8	3/9/2011	0.859	0.06	0.733	0.117
WHEELING	86.8	3/23/2011	0.547	0.04	0.644	0.055
WHEELING	86.8	4/5/2011	0.817	0.06	0.657	0.061
WHEELING	86.8	4/18/2011	0.619	0.03	0.566	0.094
WHEELING	86.8	5/4/2011	0.376	0.04	0.548	0.041
WHEELING	86.8	5/31/2011	0.732		0.421	0.175
WHEELING	86.8	6/7/2011	0.564		0.373	0.027
WHEELING	86.8	6/22/2011	0.471	0.06	0.627	0.042
WHEELING	86.8	7/6/2011	0.22	0.05	1	0.16
WHEELING	86.8	12/16/2011	0.17	0.084	0.76	0.1
WHEELING	86.8	01/03/2012	0.2	0.084	0.72	0.028
WHEELING	86.8	02/06/2012			0.77	0.031
WHEELING	86.8	04/02/2012	0.56		0.65	0.018
WHEELING	86.8	04/16/2012	0.31		0.74	0.011
WHEELING	86.8	05/07/2012	0.3			0.027

Appendix C. Nutrients Monitoring Program Data.

Location	Mile Point	Date	Total Kjeldahl Nitrogen, mg/L	Ammonia-Nitrogen, mg/L	Nitrate/Nitrite-Nitrogen, mg/L	Total Phosphorus, mg/L
WHEELING	86.8	05/21/2012	0.31		0.63	0.19
WHEELING	86.8	06/04/2012	0.22		0.85	
WHEELING	86.8	06/18/2012	0.31		0.82	
WHEELING	86.8	07/09/2012			1	0.027
WHEELING	86.8	07/23/2012	0.32		0.89	0.02
WHEELING	86.8	08/06/2012	0.29		0.93	0.061
WHEELING	86.8	08/20/2012	0.31		0.98	0.038
WHEELING	86.8	09/04/2012			1	
WHEELING	86.8	09/17/2012			1.1	0.018
WHEELING	86.8	10/01/2012		0.055	1.2	0.034
WHEELING	86.8	10/15/2012			1	0.032
WHEELING	86.8	11/05/2012		0.12	0.84	0.04
WHEELING	86.8	11/19/2012	0.21	0.031	0.77	
WHEELING	86.8	12/03/2012			0.93	0.022
WHEELING	86.8	12/17/2012			0.72	0.032
WHEELING	86.8	01/07/2013		0.031	0.75	0.022
WHEELING	86.8	01/28/2013			0.8	0.036
WHEELING	86.8	02/06/2013	0.23		0.74	0.098
WHEELING	86.8	02/19/2013	0.31		0.76	
WHEELING	86.8	03/07/2013	0.27	0.047	0.84	0.01
WHEELING	86.8	03/18/2013	0.42		0.68	
WHEELING	86.8	04/08/2013		0.045	0.67	
WHEELING	86.8	04/22/2013	0.14	0.11	0.6	0.032
WHEELING	86.8	05/06/2013	0.33		0.63	0.024
WHEELING	86.8	05/28/2013	0.13		0.67	
WHEELING	86.8	06/04/2013	0.4		0.75	0.014
WHEELING	86.8	06/17/2013	0.37		0.75	
WHEELING	86.8	07/08/2013	0.34		0.77	0.024
WHEELING	86.8	08/19/2013	0.29		0.75	0.028
WHEELING	86.8	09/10/2013	0.29		0.79	0.04
WHEELING	86.8	09/23/2013	0.46	0.031	1.1	0.042
WHEELING	86.8	10/08/2013	0.39		0.83	0.027
WHEELING	86.8	10/22/2013	0.37		0.86	0.036
WHEELING	86.8	11/05/2013	0.36		0.75	0.36
WHEELING	86.8	12/04/2013	0.23		0.67	0.035
WHEELING	86.8	12/17/2013			0.65	0.018
HUNTINGTON	306	1/6/2010	0.485	0.06	0.864	0.065
HUNTINGTON	306	1/19/2010	0.766	0.07	0.752	0.109
HUNTINGTON	306	2/8/2010	1.13	0.06	0.591	0.209
HUNTINGTON	306	2/22/2010	0.399	0.07	0.718	0.04
HUNTINGTON	306	3/8/2010	0.319	0.08	0.951	0.067
HUNTINGTON	306	3/17/2010	0.824	0.05	0.786	0.26
HUNTINGTON	306	4/7/2010	0.543	0.04	0.705	0.058
HUNTINGTON	306	4/20/2010	0.688	0.03	0.524	0.048
HUNTINGTON	306	5/5/2010	2.02		0.454	0.426
HUNTINGTON	306	5/18/2010	0.889		0.625	0.1
HUNTINGTON	306	6/8/2010	1.96	0.04	0.649	0.189
HUNTINGTON	306	6/14/2010	2.65		0.738	0.684
HUNTINGTON	306	7/20/2010	0.625		0.779	0.18
HUNTINGTON	306	8/10/2010	0.693		0.574	0.048
HUNTINGTON	306	8/24/2010	0.484		0.656	0.067
HUNTINGTON	306	9/13/2010	0.991		0.454	0.06
HUNTINGTON	306	9/27/2010	0.512		0.579	0.019
HUNTINGTON	306	10/18/2010	0.684		0.805	0.092
HUNTINGTON	306	10/26/2010	0.469		0.935	0.09
HUNTINGTON	306	11/8/2010	0.568		0.871	0.026
HUNTINGTON	306	11/22/2010	0.433		0.88	0.027
HUNTINGTON	306	11/26/2010	0.469		0.935	0.09
HUNTINGTON	306	12/6/2010	1.43	0.05	0.819	0.368
HUNTINGTON	306	12/27/2010	0.597	0.06	0.844	0.025
HUNTINGTON	306	1/10/2011	0.748	0.14	0.952	0.067
HUNTINGTON	306	1/24/2011	0.502	0.1	0.914	0.136
HUNTINGTON	306	2/9/2011	0.643	0.13	0.942	0.087
HUNTINGTON	306	2/23/2011	0.788	0.1	1.32	0.284
HUNTINGTON	306	3/10/2011	1.11	0.06	0.772	0.209
HUNTINGTON	306	3/28/2011	0.471	0.03	0.659	0.086
HUNTINGTON	306	4/12/2011	0.752	0.03	0.575	0.142
HUNTINGTON	306	4/27/2011	0.784		0.486	0.085
HUNTINGTON	306	5/9/2011	0.494		0.592	0.146
HUNTINGTON	306	5/26/2011	0.55		0.568	0.233
HUNTINGTON	306	6/13/2011	0.637		0.67	0.055
HUNTINGTON	306	6/28/2011	0.412	0.05	0.47	0.049
N. KENTUCKY	462.9	1/6/2010	0.578	0.05	0.888	0.076
N. KENTUCKY	462.9	1/20/2010	0.541	0.06	0.85	0.108
N. KENTUCKY	462.9	2/3/2010	0.654	0.06	0.983	0.207
N. KENTUCKY	462.9	2/23/2010	0.505	0.05	0.802	0.098
N. KENTUCKY	462.9	3/2/2010	0.371	0.07	0.886	0.119
N. KENTUCKY	462.9	3/16/2010	0.828	0.04	0.931	0.216
N. KENTUCKY	462.9	4/6/2010	0.528	0.05	0.857	0.05
N. KENTUCKY	462.9	5/18/2010	0.733		0.789	0.039
N. KENTUCKY	462.9	6/8/2010	0.893		1.2	0.086
N. KENTUCKY	462.9	6/30/2010	1.15		0.954	0.08
N. KENTUCKY	462.9	7/15/2010	0.582		0.956	0.152
N. KENTUCKY	462.9	7/29/2010	0.636		0.738	0.06
N. KENTUCKY	462.9	8/2/2010	0.541		0.513	0.039
N. KENTUCKY	462.9	8/16/2010	0.52		0.628	0.037

Appendix C. Nutrients Monitoring Program Data.

Location	Mile Point	Date	Total Kjeldahl Nitrogen, mg/L	Ammonia-Nitrogen, mg/L	Nitrate/Nitrite-Nitrogen, mg/L	Total Phosphorus, mg/L
N. KENTUCKY	462.9	9/20/2010	0.709		0.665	0.029
N. KENTUCKY	462.9	10/4/2010	1.68	0.03	0.468	0.038
N. KENTUCKY	462.9	10/18/2010	1.06		0.645	0.024
N. KENTUCKY	462.9	11/1/2010	0.198		0.832	0.021
N. KENTUCKY	462.9	11/15/2010	0.328		0.902	0.018
N. KENTUCKY	462.9	12/6/2010	1.12	0.05	0.67	0.323
N. KENTUCKY	462.9	12/20/2010	0.781	0.04	0.822	0.043
N. KENTUCKY	462.9	1/3/2011	0.528	0.07	0.975	0.046
N. KENTUCKY	462.9	1/17/2011	0.522	0.11	0.879	0.062
N. KENTUCKY	462.9	2/9/2011	0.678	0.08	0.993	0.094
N. KENTUCKY	462.9	2/21/2011	0.472	0.1	1.24	0.073
N. KENTUCKY	462.9	3/7/2011	0.927	0.06	1.13	0.218
N. KENTUCKY	462.9	3/21/2011	0.8	0.03	1.03	0.113
N. KENTUCKY	462.9	4/4/2011	0.519	0.03	0.798	0.047
N. KENTUCKY	462.9	4/18/2011	0.478		0.601	0.055
N. KENTUCKY	462.9	5/2/2011	0.405	0.05	0.709	0.052
N. KENTUCKY	462.9	5/17/2011	0.699		0.699	0.075
N. KENTUCKY	462.9	6/6/2011	0.504	0.03	0.75	0.071
N. KENTUCKY	462.9	6/16/2011	0.493	0.07	0.684	0.029
N. KENTUCKY	462.9	6/20/2011	0.374	0.05	0.744	0.073
N. KENTUCKY	462.9	7/5/2011	0.25	0.06	1.2	0.034
N. KENTUCKY	462.9	12/19/2011	0.14	0.036	0.95	0.058
N. KENTUCKY	462.9	01/09/2012	0.16	0.087	0.92	0.033
N. KENTUCKY	462.9	01/23/2012	0.23	1	0.71	0.12
N. KENTUCKY	462.9	02/06/2012	0.1		0.95	0.063
N. KENTUCKY	462.9	04/03/2012	3.5		0.72	0.056
N. KENTUCKY	462.9	04/16/2012	0.13		0.52	
N. KENTUCKY	462.9	05/07/2012			0.71	0.045
N. KENTUCKY	462.9	05/21/2012			0.76	0.027
N. KENTUCKY	462.9	06/04/2012	0.24		0.63	
N. KENTUCKY	462.9	06/18/2012	0.33		0.58	
N. KENTUCKY	462.9	07/02/2012	0.29		0.44	0.011
N. KENTUCKY	462.9	07/16/2012	0.37		0.45	0.033
N. KENTUCKY	462.9	08/06/2012	0.14		0.59	
N. KENTUCKY	462.9	08/20/2012			0.58	0.024
N. KENTUCKY	462.9	09/05/2012			0.66	
N. KENTUCKY	462.9	09/17/2012			0.58	
N. KENTUCKY	462.9	10/01/2012			0.68	0.016
N. KENTUCKY	462.9	10/15/2012			0.77	0.045
N. KENTUCKY	462.9	11/05/2012			1.1	0.59
N. KENTUCKY	462.9	11/19/2012				0.028
N. KENTUCKY	462.9	12/03/2012			1	0.04
N. KENTUCKY	462.9	12/17/2012	0.22		0.81	0.03
N. KENTUCKY	462.9	01/07/2013			0.81	0.016
N. KENTUCKY	462.9	01/21/2013	0.29		0.86	0.059
N. KENTUCKY	462.9	02/04/2013	0.14		0.74	0.092
N. KENTUCKY	462.9	11/18/2013	0.22		0.59	0.014
LOUISVILLE	600	4/19/2010	0.377		1.07	0.05
LOUISVILLE	600	5/3/2010	0.883		0.682	0.288
LOUISVILLE	600	5/17/2010	0.568		0.958	0.061
LOUISVILLE	600	6/16/2010	0.638		1.45	0.126
LOUISVILLE	600	7/8/2010	0.659	0.03	1.03	0.108
LOUISVILLE	600	7/19/2010	0.442		1.18	0.161
LOUISVILLE	600	8/1/2010	0.701		0.909	0.061
LOUISVILLE	600	8/16/2010	0.487		0.778	0.075
LOUISVILLE	600	9/7/2010	0.401		0.744	
LOUISVILLE	600	9/21/2010	0.479		0.877	0.046
LOUISVILLE	600	10/4/2010	0.275		0.993	0.05
LOUISVILLE	600	10/19/2010	0.362		0.928	0.045
LOUISVILLE	600	11/19/2010	0.362		0.928	0.045
LOUISVILLE	600	3/21/2011	0.576		1.15	0.078
LOUISVILLE	600	4/4/2011	0.37		0.957	0.044
LOUISVILLE	600	6/7/2011	0.788		0.843	0.079
LOUISVILLE	600	6/22/2011	0.516	0.04	1.01	0.092
LOUISVILLE	600	07/16/2012	0.26		0.71	0.029
EVANSVILLE	791.5	1/4/2010	1.03	0.05	0.942	0.176
EVANSVILLE	791.5	1/19/2010	0.475	0.07	1.17	0.077
EVANSVILLE	791.5	2/2/2010	0.758	0.06	1.01	0.311
EVANSVILLE	791.5	2/16/2010	0.945	0.06	0.832	0.254
EVANSVILLE	791.5	3/2/2010	0.617	0.07	0.978	0.32
EVANSVILLE	791.5	3/16/2010	1.13	0.07	1.6	0.309
EVANSVILLE	791.5	4/12/2010	0.667	0.06	0.94	0.083
EVANSVILLE	791.5	4/21/2010	0.621	0.03	1.07	0.07
EVANSVILLE	791.5	5/4/2010	1.08	0.04	0.819	0.359
EVANSVILLE	791.5	5/18/2010	1.16		0.824	0.239
EVANSVILLE	791.5	6/7/2010	0.641		1.54	0.149
EVANSVILLE	791.5	6/15/2010	0.793		1.21	0.219
EVANSVILLE	791.5	7/7/2010	0.618		1.24	0.062
EVANSVILLE	791.5	7/20/2010	0.536		1.27	0.102
EVANSVILLE	791.5	8/3/2010	0.664		0.74	0.066
EVANSVILLE	791.5	8/17/2010	0.79		0.781	0.09
EVANSVILLE	791.5	9/13/2010	0.979		0.88	0.089
EVANSVILLE	791.5	9/21/2010	0.497		0.742	0.078
EVANSVILLE	791.5	10/6/2010	0.47		0.828	0.085
EVANSVILLE	791.5	10/19/2010	0.453		1.02	0.041
EVANSVILLE	791.5	11/2/2010	0.371	0.03	1.14	0.084

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Location	Mile Point	Date	Total Kjeldahl Nitrogen, mg/L	Ammonia-Nitrogen, mg/L	Nitrate/Nitrite-Nitrogen, mg/L	Total Phosphorus, mg/L
EVANSVILLE	791.5	11/16/2010	0.344		0.905	0.07
EVANSVILLE	791.5	12/13/2010	0.969	0.06	0.887	0.214
EVANSVILLE	791.5	12/22/2010	1	0.08	1.02	0.21
EVANSVILLE	791.5	1/5/2011	1.08	0.27	1.06	0.138
EVANSVILLE	791.5	1/18/2011	0.711	0.14	1.11	0.07
EVANSVILLE	791.5	2/1/2011	0.666	0.18	1.42	0.099
EVANSVILLE	791.5	2/22/2011	0.707	0.11	1.38	0.123
EVANSVILLE	791.5	3/8/2011	1.12	0.05	1.37	0.181
EVANSVILLE	791.5	3/22/2011	0.82	0.03	1.08	0.105
EVANSVILLE	791.5	4/5/2011	1.05	0.05	0.862	0.195
EVANSVILLE	791.5	4/19/2011	0.59	0.03	0.859	0.129
EVANSVILLE	791.5	5/3/2011	1.08	0.04	0.815	0.124
EVANSVILLE	791.5	5/23/2011	0.601		0.846	0.16
EVANSVILLE	791.5	6/6/2011	0.785	0.05	0.995	0.123
EVANSVILLE	791.5	6/21/2011	0.595	0.07	1.26	0.128
EVANSVILLE	791.5	7/12/2011	0.35	0.03	1.7	0.084
EVANSVILLE	791.5	7/26/2011	0.19	0.04	1.2	0.062
EVANSVILLE	791.5	12/20/2011	0.14	0.045	0.94	0.11
EVANSVILLE	791.5	01/04/2012	0.23	0.12	1	0.088
EVANSVILLE	791.5	01/18/2012	0.14	0.048	1.1	0.1
EVANSVILLE	791.5	02/01/2012	0.36	0.15	1	0.12
EVANSVILLE	791.5	02/13/2012	0.48	0.17	1.1	0.092
EVANSVILLE	791.5	04/17/2012	0.51		0.82	0.049
EVANSVILLE	791.5	04/23/2012	0.29	0.064	0.67	0.068
EVANSVILLE	791.5	05/01/2012	0.23			0.099
EVANSVILLE	791.5	05/14/2012			0.98	0.12
EVANSVILLE	791.5	06/06/2012	0.23		1	0.031
EVANSVILLE	791.5	06/19/2012	0.35		0.88	0.034
EVANSVILLE	791.5	07/17/2012	0.28			
EVANSVILLE	791.5	07/23/2012	0.55		1.1	0.038
EVANSVILLE	791.5	08/01/2012	0.35		0.78	0.063
EVANSVILLE	791.5	08/21/2012	0.26		0.62	0.045
EVANSVILLE	791.5	09/12/2012			0.82	0.022
EVANSVILLE	791.5	09/18/2012	0.14		0.83	0.057
EVANSVILLE	791.5	10/10/2012			1.1	0.063
EVANSVILLE	791.5	10/23/2012		0.04	1	0.047
EVANSVILLE	791.5	11/06/2012			1.2	0.059
EVANSVILLE	791.5	11/20/2012			1.2	0.02
EVANSVILLE	791.5	12/04/2012			1.2	0.059
EVANSVILLE	791.5	12/18/2012	0.12		1	0.14
EVANSVILLE	791.5	01/07/2013		0.059	0.95	0.069
EVANSVILLE	791.5	01/23/2013			1.1	0.19
EVANSVILLE	791.5	02/05/2013	0.14		1	0.21
EVANSVILLE	791.5	02/20/2013	0.49		1	0.04
EVANSVILLE	791.5	03/11/2013	0.52		1.2	0.063
EVANSVILLE	791.5	05/29/2013	0.44		1	0.061
EVANSVILLE	791.5	06/18/2013	0.42		0.8	0.057
EVANSVILLE	791.5	08/20/2013	0.3		0.9	0.061
EVANSVILLE	791.5	08/27/2013	0.36		0.85	0.057
EVANSVILLE	791.5	09/23/2013	0.37		0.86	0.067
EVANSVILLE	791.5	10/01/2013	0.53		0.96	0.053
EVANSVILLE	791.5	10/22/2013	0.43		0.98	0.11
EVANSVILLE	791.5	10/28/2013	0.33		1	0.087
EVANSVILLE	791.5	11/19/2013	0.68		1.1	0.15
PADUCAH	935.5	1/4/2010	0.66	0.04	0.459	0.12
PADUCAH	935.5	1/19/2010	0.343	0.03	0.369	0.068
PADUCAH	935.5	2/2/2010	0.502		0.553	0.096
PADUCAH	935.5	2/15/2010	0.772		0.465	0.231
PADUCAH	935.5	3/2/2010	0.513		0.503	0.158
PADUCAH	935.5	3/16/2010	0.61		0.362	0.137
PADUCAH	935.5	4/6/2010	0.861		0.324	0.082
PADUCAH	935.5	4/20/2010	0.655	0.08	0.468	0.092
PADUCAH	935.5	5/5/2010	0.498	0.04	0.258	0.169
PADUCAH	935.5	5/19/2010	1.37		0.335	0.601
PADUCAH	935.5	6/8/2010	0.649	0.06	0.293	0.102
PADUCAH	935.5	6/28/2010	1.09		0.216	0.083
PADUCAH	935.5	7/8/2010	0.603	0.05		0.069
PADUCAH	935.5	7/20/2010	0.508	0.07		0.08
PADUCAH	935.5	8/5/2010	0.685			0.04
PADUCAH	935.5	9/7/2010	0.792	0.03		0.026
PADUCAH	935.5	9/20/2010	0.431	0.04	0.303	0.05
PADUCAH	935.5	10/5/2010	0.253	0.03	0.144	0.029
PADUCAH	935.5	10/19/2010	0.405	0.03	0.135	0.068
PADUCAH	935.5	11/1/2010	0.392	0.04	0.204	0.115
PADUCAH	935.5	11/15/2010	0.386		0.241	0.104
PADUCAH	935.5	12/6/2010	0.401	0.05	0.239	0.094
PADUCAH	935.5	12/13/2010	0.538	0.04	0.303	0.074
PADUCAH	935.5	1/4/2011	1.05	0.06	0.407	0.121
PADUCAH	935.5	1/18/2011	0.666	0.06	0.417	0.128
PADUCAH	935.5	2/21/2011	0.964		0.333	0.06
PADUCAH	935.5	3/7/2011	0.625	0.06	0.414	0.058
PADUCAH	935.5	3/21/2011	0.784		0.459	0.111
PADUCAH	935.5	4/4/2011	0.494		0.351	0.092
PADUCAH	935.5	4/18/2011	0.343		0.341	0.064
PADUCAH	935.5	5/23/2011	0.646		0.337	0.264
PADUCAH	935.5	6/6/2011	0.736	0.06	0.346	0.158

Appendix C. Nutrients Monitoring Program Data.

Location	Mile Point	Date	Total Kjeldahl Nitrogen, mg/L	Ammonia-Nitrogen, mg/L	Nitrate/Nitrite-Nitrogen, mg/L	Total Phosphorus, mg/L
PADUCAH	935.5	6/22/2011	0.641	0.03	0.254	0.116
PADUCAH	935.5	7/5/2011	0.23	0.09	0.2	0.071
PADUCAH	935.5	01/04/2012		0.097		
PADUCAH	935.5	01/17/2012	0.16		0.57	0.086
PADUCAH	935.5	02/07/2012			0.56	0.054
PADUCAH	935.5	04/09/2012	0.55	0.97	0.24	0.072
PADUCAH	935.5	04/25/2012	0.23		0.17	0.042
PADUCAH	935.5	05/07/2012	0.19		0.46	0.077
PADUCAH	935.5	05/21/2012			0.22	0.038
PADUCAH	935.5	06/05/2012	0.43		0.07	0.042
PADUCAH	935.5	06/20/2012	0.29			0.015
PADUCAH	935.5	07/02/2012	0.57			0.043
PADUCAH	935.5	07/18/2012	0.37			0.049
PADUCAH	935.5	08/13/2012	0.43	0.053	0.06	0.045
PADUCAH	935.5	09/05/2012			0.12	0.053
PADUCAH	935.5	10/02/2012			0.19	0.073
PADUCAH	935.5	10/23/2012		0.097	0.21	0.096
PADUCAH	935.5	11/06/2012			0.36	0.063
PADUCAH	935.5	11/19/2012			0.31	
PADUCAH	935.5	12/04/2012			0.23	0.065
PADUCAH	935.5	12/18/2012	0.33		0.24	0.067
PADUCAH	935.5	01/07/2013		0.07	0.48	0.045
PADUCAH	935.5	01/22/2013	0.23		0.56	0.1
PADUCAH	935.5	02/05/2013	0.14		0.53	0.075
PADUCAH	935.5	02/18/2013	0.47		0.44	
PADUCAH	935.5	03/04/2013	0.25		0.46	0.032
PADUCAH	935.5	03/26/2013	1.1		0.47	0.036
PADUCAH	935.5	04/02/2013	0.24		0.51	
PADUCAH	935.5	04/22/2013	0.24		0.34	0.02
PADUCAH	935.5	05/09/2013	0.25	0.055	0.3	0.034
PADUCAH	935.5	05/23/2013	0.36		0.29	0.092
PADUCAH	935.5	06/05/2013	0.61		0.3	0.094
PADUCAH	935.5	07/08/2013	0.42		0.068	0.026
PADUCAH	935.5	07/16/2013	0.38		0.14	0.065
PADUCAH	935.5	08/22/2013	0.47		0.14	0.016
PADUCAH	935.5	09/04/2013	0.41		0.077	0.059
PADUCAH	935.5	09/17/2013	0.45	0.075	0.11	0.065
PADUCAH	935.5	10/09/2013	0.57		0.26	0.042
PADUCAH	935.5	10/23/2013	0.29		0.25	0.074
PADUCAH	935.5	11/05/2013	0.1		0.27	0.62
PADUCAH	935.5	11/20/2013	0.38		0.29	0.074
PADUCAH	935.5	12/05/2013	0.2		0.29	0.023

APPENDIX D

Dissolved Oxygen Data

Daily Dissolved Oxygen, mg/L May 2010

CALENDER DAY	3-May	4-May	5-May	6-May	10-May	11-May	12-May	13-May	14-May	15-May	16-May	19-May	20-May	21-May	22-May	23-May	24-May	25-May	26-May	27-May	28-May	Monthly % Exceedance
MONTGOMERY	MAX 123	124	125	126	130	131	132	133	134	138	139	140	141	144	145	146	147	148	No	No	No	No
MP 31.7	MIN 10.37	10.35	10.05	No	Data	Data	Available	Available	Data	Data	Available	Available	Available	Data	Data	Data	Data	Data	Data	Data	Data	Available
HAUNTBAL***	MAX 10.71	10.15	9.54	9.36	9.12	9.35	9.20	9.60	9.48	9.33	9.66	9.42	11.13	9.83	9.87	9.77	8.96	8.99	No	No	No	No
MP 12.6	MIN 10.23	9.44	9.17	9.18	8.88	8.96	8.84	8.99	9.32	8.37	9.24	8.82	8.87	8.88	9.26	8.61	8.61	8.35	8.35	8.35	8.35	8.35
UPSTREAM	AVG 10.45	9.76	9.32	9.28	9.01	9.11	9.08	9.49	9.40	8.65	9.44	9.03	10.13	9.07	9.47	8.86	8.79	8.82	8.82	8.82	8.82	8.82
MACINE***	MAX 7.29	6.99	7.47	7.59	8.87	9.21	9.67	No	8.83	8.14	8.08	7.77	*	8.07	8.02	7.76	7.60	7.54	No	No	No	No
MP 23.5	MIN 6.54	5.65	5.65	7.36	8.22	8.65	8.88	Data	8.38	7.90	7.66	5.59	*	7.95	7.67	7.61	7.42	7.40	7.40	7.40	7.40	7.40
MP 23.5	AVG 7.04	6.37	6.52	7.46	8.50	8.94	9.30	Available	8.61	8.03	7.82	7.56	*	8.02	7.85	7.67	7.52	7.46	7.46	7.46	7.46	7.46
GREENUP***	MAX 8.02	6.55	*	*	6.38	6.55	6.48	7.75	7.54	6.10	5.90	6.79	*	7.22	7.18	6.84	6.74	6.38	No	No	No	No
MP 34.0	MIN 6.53	5.23	*	*	6.50	6.43	6.26	6.07	6.72	4.18	5.11	5.02	*	6.43	6.24	5.78	6.54	6.10	6.10	6.10	6.10	6.10
UPSTREAM	AVG 7.29	5.81	*	*	6.23	6.48	6.40	6.58	7.10	5.81	5.63	6.20	*	6.82	6.98	6.55	6.56	6.22	6.22	6.22	6.22	6.22
DOWNSTREAM	MAX 9.77	10.13	10.32	8.83	7.14	7.13	6.74	*	7.51	*	*	*	*	7.80	7.82	7.68	8.02	7.63	7.63	7.63	7.63	7.63
MP 77.6	MIN 8.83	8.76	8.69	7.56	6.84	6.70	6.36	*	5.64	*	*	*	*	7.34	7.51	7.34	7.39	7.39	7.39	7.39	7.39	7.39
MP 91.0	AVG 9.05	9.07	8.84	8.12	6.85	6.87	6.55	*	5.86	*	*	*	*	7.50	7.65	7.53	7.59	7.48	7.48	7.48	7.48	7.48
McALPINE***	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MP 60.8	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
MP 60.8	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
CANNELTON	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MP 72.7	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
MP 72.7	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
NEWBURGH	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MP 77.6	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
MP 77.6	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
JOHN T. MYERS	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MP 84.0	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
MP 84.0	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
SMITHLAND	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MP 91.0	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
MP 91.0	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available

* Indicates problem with instrument
 ** Indicates OBSANCO data
 *** Indicates hydrographic data

COLLAPSE DIVE	1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	9-Jan	11-Jan	14-Jan	15-Jan	16-Jan	17-Jan	18-Jan	21-Jan	22-Jan	23-Jan	24-Jan	25-Jan	28-Jan	29-Jan	30-Jan	Monthly % Exceedance	
DOLANDX	152	153	154	155	158	159	160	162	165	166	167	168	169	172	173	174	175	176	179	180	181	No	
MONITORING	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
MP 117	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
HANNUAL***	MAX	7.43	9.55	9.17	8.87	9.24	10.65	9.81	8.74	8.76	8.76	8.51	8.75	9.54	8.85	7.85	8.16	8.40	6.53	8.80	7.85	No	
MP 184	MIN	6.29	6.50	8.40	7.88	6.80	7.78	5.75	8.43	8.33	8.38	8.07	8.17	8.22	7.88	7.34	7.12	7.82	6.60	6.47	7.11	No	
UPSTREAM	AVG	7.03	8.38	8.89	8.34	8.80	8.83	7.77	8.62	8.61	8.58	8.45	8.38	9.08	8.31	7.38	7.96	8.02	6.75	7.69	7.41	No	
MP 317.5	MAX	7.48	7.13	No	*	*	*	5.94	6.14	6.16	6.26	5.95	6.12	6.22	6.14	6.03	5.98	6.02	8.17	5.44	6.45	6.24	0.00%
MP 317.5	MIN	7.13	6.13	Data	*	*	*	5.15	5.76	5.91	5.84	5.55	5.85	6.09	5.83	5.76	5.60	8.17	5.06	4.78	5.87	No	
MP 317.5	AVG	7.32	6.73	Available	*	*	*	5.63	5.92	6.02	6.06	5.77	5.97	6.13	6.02	5.93	5.87	5.94	80.95	5.23	5.73	6.06	0.00%
GREENUP***	MAX	6.79	7.34	7.10	7.22	6.07	5.71	5.50	5.20	5.69	6.05	5.88	5.93	5.93	5.93	6.10	5.43	5.54	5.54	No	No	No	5.50%
MP 311.0	MIN	6.36	6.19	6.67	6.34	5.69	5.35	4.70	4.80	5.35	5.78	5.54	5.66	5.31	5.47	5.66	5.52	4.46	4.63	Data	Data	Available	
UPSTREAM	AVG	6.61	6.70	6.85	6.71	5.90	5.54	5.07	5.05	5.50	5.91	5.48	5.83	5.53	5.65	5.99	5.82	4.85	5.12	Available	Available	Available	
DOWNSTREAM	MAX	8.50	8.35	8.71	9.19	*	*	*	*	5.62	5.66	5.45	5.47	5.18	5.78	5.71	5.42	5.52	No	No	No	No	0.00%
MP 20.7	MIN	7.75	7.94	8.18	8.18	*	*	*	*	4.18	4.30	4.25	4.73	4.25	4.40	5.23	4.97	4.97	Data	Data	Data	Available	
MP 20.7	AVG	7.98	8.10	8.33	8.62	*	*	*	*	5.50	5.51	5.39	5.01	5.35	5.00	5.57	5.44	5.22	5.16	Available	Available	Available	
MCALPINE***	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
MP 606.8	MIN	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
MP 20.7	AVG	6.63	6.73	*	*	*	7.07	7.04	7.09	6.44	6.69	6.17	5.91	6.06	5.58	5.34	5.36	5.26	5.30	5.94	6.18	0.00%	
CARLETON	MAX	6.39	6.41	*	*	*	6.65	6.76	6.18	6.16	6.03	5.67	5.83	5.88	4.94	5.03	5.06	4.98	5.42	5.38	5.72	No	
MP 20.7	MIN	6.47	6.55	*	*	*	6.91	6.91	6.94	6.33	6.56	6.09	5.72	5.87	6.01	5.34	5.21	5.18	5.14	5.55	5.80	6.02	
NEWMORICH	MAX	7.43	7.38	7.20	7.51	7.53	7.72	7.73	7.57	7.29	7.25	7.43	7.33	7.41	7.35	7.28	7.57	7.78	8.19	8.43	6.98	0.00%	
MP 786.1	MIN	7.12	7.02	7.08	7																		

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[illegible]

•• Indicates ORSANCO data
••• Indicates hydroelectric dam

•• Indicates ORSANCO data
••• Indicates hydroelectric dam

CALENDAR DAY	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	16-Aug	17-Aug	18-Aug	20-Aug	21-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	30-Aug	31-Aug	Monthly % Exceedance
JULIAN DAY	214	215	216	217	218	221	222	223	224	225	228	229	231	232	233	235	236	237	238	239	242	243	
MONTECROMERY MP 31.7	MAX MIN AVG	No Data Available	No No Available	No No Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	Available
HANNIBAL*** MP 12.4	MAX MIN AVG	8.15 6.27 7.31	8.61 6.92 7.54	8.04 6.78 7.40	7.73 7.02 7.30	7.52 7.38 7.05	8.39 7.38 8.35	9.24 7.38 8.35	8.35 8.03 8.18	8.81 7.80 8.39	8.61 7.83 8.37	7.91 7.28 7.67	7.82 7.25 7.60	7.92 7.28 7.51	7.58 6.55 7.21	7.08 6.71 6.96	7.08 6.68 7.14	7.92 7.32 7.14	8.12 7.52 7.94	8.97 7.47 7.94	8.18 6.86 7.57	8.76 7.35 7.99	0.00%
PACIFIC*** MP 23.5	MAX MIN AVG	7.06 6.41 6.85	6.41 4.66 5.72	*	*	*	No Data Available	8.13 7.20 8.32	9.21 7.20 8.41	9.44 5.88 8.68	11.01 5.88 9.95	10.59 9.43 9.95	9.18 7.82 8.20	7.88 4.36 5.95	*	*	No Data Available	9.53 9.11 9.33	9.53 9.15 9.37	9.63 9.41 9.73	10.02 8.98 8.99	8.56 8.16 8.44	0.00%
GREENUP*** MP 34.0	MAX MIN AVG	No Data Available	No Data Available	No Data Available	4.50 4.37 4.59	6.50 6.51 6.46	5.42 4.82 5.01	No Data Available	5.47 5.14 5.32	No Data Available	No Data Available	No Data Available	4.38 4.22 4.99	No Data Available	No Data Available	No Data Available	5.23 4.37 4.64	No Data Available	4.92 4.18 4.74	5.26 4.30 4.74	4.66 4.36 4.15	No Data Available	66.60%
DOWNSTREAM	MAX MIN AVG	No Data Available	No Data Available	No Data Available	6.17 6.39 6.57	No Data 5.67	5.52 4.33 4.88	No Data Available	4.75 3.98 4.23	No Data Available	No Data Available	No Data Available	6.56 5.45 5.98	No Data Available	No Data Available	No Data Available	5.64 5.18 5.51	No Data Available	5.47 5.06 5.27	5.35 4.92 5.08	5.09 4.15 4.54	No Data Available	33.30%
MICALPINE*** MP 66.8	MAX MIN AVG	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No
CANNELTON MP 70.7	MAX MIN AVG	16.29 13.21 13.51	14.49 13.17 13.62	14.28 13.07 13.59	14.84 12.93 13.20	13.57 12.94 13.18	14.92 12.94 13.44	14.46 13.56 13.43	13.56 13.17 13.49	14.84 13.35 13.68	13.58 13.37 13.43	5.55 4.48 5.26	4.88 4.65 4.75	5.72 4.59 5.07	6.78 5.35 5.67	6.20 5.32 5.60	5.88 5.30 5.53	5.43 5.20 5.30	5.39 5.32 5.49	5.57 5.44 5.50	5.49 5.16 5.22	5.42 5.15 5.27	4.70%
NEWBROUGH*** MP 78.1	MAX MIN AVG	10.84 7.57 8.59	13.26 8.76 10.28	10.26 8.94 9.45	11.03 8.74 9.42	10.60 8.78 9.24	10.15 8.33 9.08	9.30 8.16 8.80	10.38 8.36 9.03	9.71 8.36 9.06	8.45 7.35 7.87	6.38 6.40 6.64	6.70 6.32 6.42	7.32 6.21 6.76	8.28 6.32 6.70	7.30 6.40 6.72	7.82 6.87 7.29	7.82 6.96 7.27	7.87 7.05 7.66	9.77 7.41 8.18	8.84 6.34 7.54	8.64 5.28 7.27	0.00%
JOHN T. MATTHEWS*** MP 84.0	MAX MIN AVG	11.65 8.36 9.31	10.83 8.84 9.44	9.42 8.31 8.78	9.25 8.38 8.66	9.82 7.80 8.66	10.32 7.86 8.56	9.64 7.59 8.64	8.91 7.59 8.04	8.83 7.44 7.99	9.00 7.56 8.20	8.21 7.28 7.57	8.45 7.52 7.91	10.30 7.22 8.28	9.94 7.78 8.78	6.14 5.43 5.75	9.49 7.23 7.91	8.22 7.57 7.79	*	*	*	*	0.00%
SATTLAND*** MP 93.0	MAX MIN AVG	9.35 6.84 7.72	9.35 6.09 7.20	9.40 6.92 7.79	8.54 7.50 7.84	8.80 6.62 7.99	8.17 6.82 7.09	7.36 6.24 6.67															

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Daily Dissolved Oxygen, mg/L October 2010

CALENDAR DAY	1-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	19-Oct	20-Oct	21-Oct	22-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	Monthly
JULIAN DAY	274	277	278	279	280	281	284	285	286	287	288	291	292	293	294	295	298	299	300	301	302	% Exceedance
MONITORING MP 317	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
DOWNSTREAM MP 126.4	MAX Data	7.97	No	No	No	8.13	54.00	No	No	No	No	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN Data	7.35	7.36	Data	Data	8.03	8.04	10.72	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
	AVG Data	7.81	Available	Available	Available	8.10	10.72	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
UPSTREAM MP 29.5	MAX Data	11.67	11.07	11.69	11.47	11.47	11.33	11.81	11.30	12.29	11.76	10.83	11.08	11.55	11.33	10.45	10.19	12.29	12.16	12.26	12.17	0.00%
	MIN Data	11.26	10.84	10.84	11.06	11.06	10.99	11.34	11.23	11.27	10.95	10.23	10.36	10.25	10.24	9.75	9.70	9.77	11.84	12.00	11.96	0.00%
	AVG Data	11.47	10.98	11.12	11.27	11.26	11.19	11.54	11.35	11.62	11.26	10.98	10.70	10.91	10.71	10.05	9.97	11.12	11.98	12.11	12.08	0.00%
DOWNSTREAM MP 34.0	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN Data	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
DOWNSTREAM MP 606.8	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN Data	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
DOWNSTREAM MP 720.7	MAX Data	5.78	6.35	6.47	6.46	6.42	6.57	6.91	6.73	6.74	6.39	6.33	7.02	7.28	6.88	6.91	6.74	6.89	6.87	7.17	7.27	0.00%
	MIN Data	5.53	6.23	6.21	6.20	6.12	6.16	6.30	6.38	6.35	6.19	6.42	6.59	6.58	6.60	6.64	6.59	6.55	6.57	6.54	6.75	0.00%
	AVG Data	5.69	6.29	6.33	6.36	6.27	6.35	6.70	6.59	6.51	6.43	6.39	6.81	6.80	6.75	6.77	6.66	6.75	6.69	6.97	7.01	0.00%
DOWNSTREAM MP 766.1	MAX Data	7.32	8.37	8.48	8.75	8.78	8.42	9.98	9.07	9.01	8.36	8.31	9.04	9.28	9.04	9.20	9.22	8.51	8.51	8.55	8.55	0.00%
	MIN Data	6.97	8.04	8.09	8.11	8.20	7.91	8.93	8.27	8.08	7.87	7.98	8.30	8.57	8.24	8.68	8.40	8.13	8.29	8.00	8.30	0.00%
	AVG Data	7.12	8.11	8.14	8.29	8.44	8.32	9.28	8.30	8.39	8.09	8.24	8.66	8.82	8.69	8.91	9.01	8.33	8.39	8.10	8.46	0.00%
DOWNSTREAM MP 846.0	MAX Data	6.45	6.40	6.66	6.70	6.61	6.97	6.97	6.82	6.96	6.44	6.41	6.54	6.57	6.49	7.12	6.73	6.97	7.05	6.89	6.99	0.00%
	MIN Data	6.19	6.16	6.42	6.21	6.24	6.41	6.55	6.34	5.90	6.08	6.00	6.17	6.09	6.01	6.38	6.25	6.55	6.87	6.52	6.88	0.00%
	AVG Data	6.27	6.30	6.57	6.47	6.42	6.72	6.73	6.50	6.41	6.26	6.21	6.40	6.36	6.28	6.63	6.51	6.79	6.98	6.72	6.86	0.00%
DOWNSTREAM MP 919.0	MAX Data	6.37	7.72	8.29	9.20	8.03	8.71	7.32	7.84	7.92	8.67	8.49	9.43	9.55	8.70	8.12	8.55	No	No	No	No	0.00%
	MIN Data	5.74	7.13	7.53	7.39	6.92	7.09	6.23	6.38	7.18	7.77	8.06	8.19	7.98	8.00	7.61	8.05	Data	Data	Data	Data	0.00%
	AVG Data	5.99	7.35	7.81	8.09	7.48	7.67	6.77	7.27	7.51	8.13	8.28	8.58	8.58	8.29	7.83	8.27	Available	Available	Available	Available	0.00%

*Indicates problem with instrument
**Indicates ORSANCO data
***Indicates hydroelectric flow

[illegible]

***Indicates hydroelectric dam

***Indicates hydroelectric dam

***Indicates hydroelectric dam

Daily Dissolved Oxygen, mg/L June 2011

CALENDAR DAY	1-Jun	2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	27-Jun	28-Jun	29-Jun	30-Jun	Monthly % Exceedance
JOHN DAY	152	153	154	157	158	159	158	159	160	161	161	164	164	165	166	167	168	171	172	173	174	175	178	179	180	181	No Data
NOVOTOMERY	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MP 31.7	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
HANNAH L***	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MP 12.4	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
UPSTREAM	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
BAVINE***	7.33	7.37	7.51	7.36	7.63	7.55	7.61	7.55	7.61	7.52	7.42	6.26	6.13	5.69	5.56	5.46	5.46	5.97	5.93	5.84	5.52	5.25	5.36	5.46	5.22	5.24	0.00%
MP 23.5	7.20	7.11	7.11	7.23	7.23	7.23	6.99	7.13	6.78	5.95	5.60	5.46	5.35	5.34	5.73	5.73	5.73	5.73	5.73	5.23	5.17	5.08	4.82	5.12	4.84	4.84	0.00%
AVG	7.41	7.22	7.30	7.30	7.28	7.41	7.21	7.21	7.40	7.02	7.02	6.09	5.89	5.59	5.46	5.41	5.46	5.86	5.84	5.64	5.26	5.17	5.12	5.21	5.06	5.11	0.00%
GREENUP***	7.42	7.87	9.12	9.12	6.79	6.79	5.74	5.42	5.42	5.83	7.08	7.33	6.52	7.61	6.38	6.41	6.38	No Data	No Data	No Data	No Data	No Data	5.86	5.66	5.90	6.62	0.00%
MP 34.0	7.10	7.15	7.94	6.34	5.45	5.11	5.11	5.16	5.16	5.16	5.83	5.83	6.41	6.38	6.41	6.38	6.41	6.38	6.41	6.38	6.41	6.38	6.41	6.38	6.41	6.38	0.00%
UPSTREAM	7.27	7.57	8.49	7.78	5.93	5.72	5.32	5.31	5.31	5.40	6.69	6.70	6.56	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	6.71	0.00%
DOWNSTREAM	7.54	6.79	6.79	7.82	7.20	7.20	6.89	6.67	6.67	6.67	7.82	7.82	6.58	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	6.65	0.00%
MIN	6.41	6.17	6.22	6.22	7.03	6.89	6.41	6.50	5.54	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	0.00%
AVG	6.75	6.46	6.37	6.37	7.11	7.07	6.62	6.58	6.30	6.30	6.22	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	0.00%
MARSHLAND***	8.27	8.24	8.25	8.27	9.19	9.57	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	0.00%
DO 31.3	8.32	8.28	8.32	8.32	9.11	9.33	9.39	9.55	9.55	6.98	6.85	7.26	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.00%
US-Hydro	7.73	7.74	7.72	7.72	8.67	9.01	9.31	9.40	9.22	9.22	6.57	6.54	7.00	7.27	7.14	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	7.31	0.00%
DO 41	7.74	7.72	7.72	7.72	8.36	8.63	9.03	9.07	9.15	9.15	6.53	6.50	6.50	6.53	7.00	7.11	7.07	7.07	7.12	7.12	7.12	7.12	7.12	7.12	7.12	7.12	0.00%
MCALPINE***	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MP 60.8	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
JOHN T. MYERS**	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MP 84.0	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
SMITLAND**	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
MP 91.0	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%
AVG	7.41	7.22	7.30	7.30	7.28	7.41	7.21	7.21	7.40	7.02	7.02	6.09	5.89	5.59	5.46	5.41	5.46	5.86	5.84	5.64	5.26	5.17	5.12	5.21	5.06	5.11	0.00%

*Indicates problem with instrument
 **Indicates ORSANCO data
 ***Indicates hydroelectric data

[illegible]

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Daily Dissolved Oxygen, mg/L August 2011

		1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	31-Aug	Monthly	
	COLLEEN DIV	213	214	215	216	217	220	221	222	223	224	227	228	229	230	234	235	236	237	238	241	242												% Exceedance
MONTGOMERY	MAX	7.10	8.50	9.90	9.60	8.70	8.60	8.80	7.60	7.90	7.90	8.20	8.50	8.30	7.90	7.60	7.10	7.60	8.50	8.60	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.90		
	MIN	6.20	6.90	7.20	7.20	7.10	6.90	6.90	7.00	6.70	6.90	6.90	7.20	7.10	7.20	7.20	7.20	7.20	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.20		
	AVG	6.90	7.40	7.90	8.20	7.10	7.60	7.20	7.30	7.30	7.40	7.40	7.90	7.90	7.70	7.70	7.70	7.70	7.40	7.40	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.30	7.40	0.00%	
CANAL***	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No		
	MIN	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data		
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
ROCKING***	MAX	5.40	6.59	6.65	6.57	6.00	6.65	6.65	5.89	6.62	7.57	7.57	6.99	6.91	6.77	7.03	7.03	6.61	6.45	6.79	6.54	6.54	6.31	5.98	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52		
	MIN	4.76	4.78	6.06	5.79	5.60	6.20	5.17	5.05	5.24	6.01	6.06	6.23	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41		
	AVG	5.03	6.01	6.33	6.18	5.81	6.38	6.04	5.13	5.88	6.71	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	0.00%
GREENUP***	MAX	5.15	8.16	8.16	5.83	6.26	6.34	5.24	5.50	6.91	6.80	6.80	6.02	6.02	6.05	6.05	5.33	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57	5.57		
	MIN	5.57	5.66	5.66	5.02	4.85	4.01	Data	4.86	5.02	5.62	5.62	Data	4.85	4.85	5.42	5.11	4.61	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58	4.58		
	AVG	6.41	6.85	6.65	5.43	5.46	5.22	Available	5.13	5.71	6.16	Available	5.55	5.64	5.81	5.75	5.03	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	13.70%
DOWSTREAM	MAX	8.69	8.11	8.11	6.34	6.00	6.50	6.50	No	6.70	7.63	7.63	No	7.13	7.13	7.01	6.72	6.41	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95	5.95		
	MIN	* 6.14	6.14	6.14	5.35	5.40	5.45	Data	5.21	5.54	5.57	5.57	Data	6.05	6.05	6.17	5.80	5.64	5.50	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45		
	AVG	7.23	6.62	6.63	5.99	5.64	5.96	Available	5.42	5.98	6.30	6.30	Available	6.66	6.66	6.68	6.48	6.32	5.91	5.67	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	0.00%
MARLBAND***	US-LOCK	*	5.88	5.39	5.21	5.22	5.38	5.19	4.86	5.22	4.59	4.59	5.23	5.14	5.69	6.01	5.87	4.92	4.67	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	29.00%	
	DS-Hydro	* 6.07	5.79	5.38	5.37	5.28	5.92	5.03	5.05	4.58	4.58	*	7.24	7.08	6.84	5.54	5.53	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38	6.00%	
	DS-Hydro	6.22	6.25	6.08	6.18	6.05	6.42	6.18	5.84	6.58	6.62	5.72	6.71	7.48	7.53	6.39	5.96	6.17	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	7.07	0.00%	
MEALINE***	MAX	No	No	No	No	No	6.89	6.11	7.06	7.64	7.65	7.83	6.59	6.63	6.59	6.67	6.25	6.87	7.05	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.81	6.81	No	
	MIN	Data	Data	Data	Data	Data	6.13	5.78	5.20	6.09	6.10	5.78	5.81	5.77	5.86	5.75	5.54	5.69	5.08	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	No	
	AVG	Available	Available	Available	Available	Available	6.43	5.66	6.12	6.91	6.97	6.85	6.08	6.15	6.10	6.17	5.93	5.91	6.22	5.99	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	0.00%
JOHN T. MYERS**	MAX	7.85	9.88	7.74	8.15	8.28	7.07	7.02	6.49	7.57	7.53	7.53	7.37	7.94	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No		
	MIN	6.54	6.84	6.45	6.79	6.87	6.31	6.18	6.15	6.32	6.00	6.45	6.30	7.05	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data		
	AVG	7.20	7.82	7.11	7.11	7.40	6.69	6.48	6.32	6.60	6.51	6.78	7.05	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%	
SMITHLAND**	MAX	7.69	8.19	8.48	7.16	6.27	4.85	5.26	4.55	5.80	6.23	6.23	5.02	5.33	5.62	5.04	4.87	7.14	5.05	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96		
	MIN	6.38	6.16	5.87	6.06	4.93	4.24	4.00	4.20	4.24	4.12	3.83	3.84	3.83	4.04	4.04	4.00	4.44	4.06	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08		
	AVG	6.86	6.71	6.88	6.48	5.45	4.66	4.54	4.77	4.84	4.73	4.73	4.46	4.47	4.44	4.55	4.42	5.09	4.54	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	59.00%	

**Indicates problem with instrument
***Indicates ORANCO data
****Indicates by spectroscopic data

Daily Dissolved Oxygen, mg/L September 2011

CALENDAR DAY	1-Sep	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep	Monthly % Exceedance	
COLLINS DAM	244	245	249	250	251	252	253	255	256	257	258	259	262	263	264	265	266	269	271	272	273											
MONTCOMERY MP 31.7	MAX 8.20 MIN 6.30 AVG 7.30	8.10 7.20 7.60	7.30 7.00 7.20	7.70 7.10 7.30	7.80 7.00 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	7.80 6.90 7.30	0.00%		
HANMER, L. MP 125.4	MAX MIN AVG	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	0.00%	
RAVINE MP 237.5	MAX 5.33 MIN 4.96 AVG 5.06	5.33 4.74 4.99	3.77 3.17 3.45	6.64 3.35 5.42	6.55 5.94 6.20	6.17 5.09 5.94	6.37 5.02 6.10	6.38 6.18 6.36	6.82 6.41 6.61	7.14 6.58 7.34	7.68 7.27 7.63	8.31 7.94 8.08	8.49 8.02 8.20	8.25 7.97 8.11	8.13 7.81 7.96	7.92 7.67 7.80	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	6.92 6.07 6.44	10.00%		
GREENUP MP 341.0	MAX 6.60 MIN 5.69 AVG 6.05	6.53 5.54 6.00	6.46 5.66 6.13	6.46 5.38 5.94	5.64 5.04 5.36	5.38 4.97 5.28	5.95 5.14 5.73	6.10 5.74 6.00	6.12 5.66 5.96	6.34 5.66 5.96	6.48 5.76 5.95	6.38 6.02 6.18	6.29 6.00 6.13	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	6.29 5.81 6.06	0.00%		
DOWNSTREAM	MAX 7.18 MIN 5.76 AVG 6.90	7.18 6.48 6.81	7.15 6.53 6.96	7.15 5.88 6.76	6.26 5.35 5.92	* * *	6.55 4.70 6.02	6.53 6.34 6.42	6.84 6.31 6.49	6.79 6.53 6.68	6.70 5.93 6.54	5.64 5.28 5.44	5.28 4.97 5.12	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	5.28 3.96 4.98	21.00%		
MARLEND MP 531.5	US-LOCK DS-LOCK DS-UP	* * *	* 5.52 *	* 5.50 *	* 5.44 5.88	* 5.55 6.30	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	* 5.19 6.27	0.00%	
MALPINE MP 606.8	MAX MIN AVG	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	0.00%	
JOHN T. MTERS MP 846.0	MAX MIN AVG	9.35 6.62 7.66	10.72 7.22 8.41	7.56 7.02 7.25	8.49 7.18 7.25	9.42 8.87	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	0.00%	
SWITTLAND MP 919.0	MAX 5.61 MIN 4.33 AVG 4.64	11.60 4.37 6.55	6.47 5.82 6.04	6.44 6.18 6.33	7.17 5.53 6.24	7.81 7.19 7.48	8.56 7.61 8.14	8.49 7.27 7.66	7.85 7.22 7.51	8.55 7.76 8.12	8.72 7.82 8.27	8.18 7.82 8.04	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	8.30%	

* indicates problem with instrument
 ** indicates ORSINCO data
 *** indicates hydrologic data

Calendar Day	1-Jan	4-Jan	7-Jan	10-Jan	13-Jan	16-Jan	19-Jan	22-Jan	25-Jan	28-Jan	31-Jan	Monthly % Exceedance
POLLN DAY	276	277	278	279	280	283	284	285	286	287	290	
NONCONCRETE	MAX 9.40	9.80	9.90	10.10	9.80	10.30	10.32	10.40	10.50	10.60	10.70	
MP 21.7	MIN 9.10	9.60	9.60	9.60	7.60	10.10	10.20	10.20	10.30	9.90	10.80	
AVG	9.30	9.70	9.70	9.70	9.10	10.20	10.20	10.30	10.40	9.90	10.80	0.00%
HANNIBAL***	MAX 9.32	9.44	10.10	10.64	9.50	9.48	9.41	9.36	9.59	10.10	10.55	
MP 12.4	MIN 9.03	9.08	9.32	9.41	9.56	9.17	9.17	9.06	9.25	9.36	10.29	
AVG	9.14	9.23	9.67	9.69	9.43	9.31	9.29	9.21	9.10	9.44	10.33	0.00%
UPSTREAM	MAX 7.55	7.54	7.32	8.07	8.15	8.84	No	No	9.89	8.87	8.67	
MP 23.5	MIN 7.23	7.33	7.58	7.80	7.95	8.68	Data	Data	9.62	8.59	8.45	
AVG	7.41	7.41	7.64	7.93	8.02	8.74	Available	Available	9.74	8.77	8.56	0.00%
GREENUP***	MAX 6.86	6.79	6.79	6.50	6.26	7.34	7.37	7.27	7.44	6.53	6.07	
MP 24.0	MIN 6.79	6.67	6.50	6.59	6.14	6.14	7.32	7.20	7.18	6.24	5.93	
AVG	6.84	6.75	6.69	6.59	6.20	6.40	7.34	7.32	7.24	7.26	7.03	0.00%
DOWNSTREAM	MAX 8.30	16.51	16.51	7.80	14.98	8.14	12.55	14.21	10.51	9.36	7.82	
MP 24.0	MIN 7.44	7.50	7.15	7.15	7.13	7.13	7.54	7.49	7.34	7.32	7.34	
AVG	7.57	8.17	7.85	7.25	7.56	7.32	7.84	7.99	7.87	7.73	7.67	0.00%
MARKLAND***	US Lock 7.03	7.14	7.51	7.82	7.71	6.81	6.88	6.11	6.43	6.41	7.87	
MP 53.5	DS Lock 6.25	6.80	7.09	6.36	*	*	8.55	7.80	8.02	8.31	8.39	
DO 71	DS Hydro 7.44	7.88	8.02	8.23	8.52	8.64	8.49	8.24	8.06	8.18	8.07	
AVG	7.53	7.84	8.21	8.42	8.45	8.30	8.22	8.13	7.99	8.01	8.64	0.00%
MEALINER***	MAX 7.45	7.68	7.62	7.79	8.13	8.32	8.20	8.16	8.00	8.07	8.16	
MP 66.8	MIN 7.09	7.41	7.49	7.77	8.17	8.12	8.05	8.01	7.85	7.79	7.88	
AVG	7.27	7.56	7.55	7.61	7.95	8.22	8.11	8.07	7.91	7.88	7.95	0.00%

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Daily Dissolved Oxygen, mg/L, May 2012

CALENDAR DAY	2-May	3-May	4-May	5-May	6-May	9-May	10-May	12-May	13-May	16-May	17-May	18-May	19-May	20-May	21-May	24-May	25-May	26-May	27-May	31-May	Monthly % Exceedance
JULIAN DAY	122	123	124	125	126	129	130	132	133	136	137	138	139	140	143	144	145	146	147	151	
MONTGOMERY MP 31.7	MAX Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
HANBIBAL*** MP 126.4	MAX Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
UPSTREAM	MAX Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
BAKERS*** MP 237.5	MAX Data Available	No	No	8.88	8.95	9.11	9.13	9.11	9.03	9.00	65.10	8.05	7.56	7.26	7.83	7.88	7.84	7.82	7.74	7.66	7.66
	MIN Data Available	No	No	7.99	8.87	8.91	8.95	4.81	8.90	8.85	64.37	7.35	7.17	7.01	7.63	7.76	7.68	7.65	7.65	7.45	7.45
	AVG	Available	Available	8.33	8.92	9.04	9.05	7.74	8.87	8.90	64.68	7.74	7.39	7.16	7.50	7.75	7.83	7.78	7.76	7.54	7.54
GREENUP*** MP 241.0	MAX Data Available	8.23	8.26	8.35	8.59	8.59	8.59	8.11	7.66	7.39	7.39	6.38	6.38	5.64	5.30	5.30	5.35	5.54	5.76	7.42	7.42
	MIN Data Available	8.02	8.09	8.39	8.35	8.38	8.09	7.94	7.42	6.74	6.38	6.00	5.62	5.20	4.92	4.78	4.67	5.11	5.64	5.52	7.15
	AVG	8.15	8.23	8.26	8.53	8.52	8.39	8.04	7.46	7.04	6.95	6.35	6.13	5.47	5.09	5.02	5.04	5.24	5.56	5.58	7.20
DOWNSTREAM	MAX Data Available	12.05	9.17	9.70	14.38	13.03	13.03	12.72	11.40	11.40	11.40	7.45	7.85	7.92	7.68	7.66	7.49	7.34	7.18	7.54	7.54
	MIN Data Available	8.26	6.84	6.24	9.14	12.89	10.73	12.10	11.04	9.10	7.63	7.42	7.42	7.32	7.34	7.49	7.32	7.06	7.06	6.46	6.46
	AVG	10.87	8.25	8.12	13.00	12.60	12.45	12.35	11.25	10.49	9.62	7.63	7.63	7.63	7.61	7.55	7.41	7.20	7.11	7.08	6.85
NARLAND*** MP 511.5	US-Lock Data Available	7.84	7.09	7.76	7.95	7.33	6.56	6.80	6.82	6.85	6.62	6.77	6.66	5.83	5.82	6.46	7.00	7.60	7.24	6.60	6.60
	US-Hydro Data Available	8.02	7.37	8.03	*	*	6.88	7.27	6.83	6.76	7.65	7.45	7.08	8.02	8.14	7.85	8.02	8.07	7.85	6.72	6.72
	DS-Hydro Data Available	7.49	6.35	7.32	7.65	6.85	5.31	5.51	5.92	6.24	6.42	6.77	6.90	7.34	7.09	7.32	7.66	7.70	8.39	7.64	7.64
		8.20	7.32	8.07	8.42	7.84	6.60	6.86	6.94	7.05	7.09	7.24	7.45	7.68	7.78	7.74	8.00	8.29	8.56	8.93	7.78
MEALPINE*** MP 606.8	MAX Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data Available	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available

* Indicates problem with instrument
 ** Indicates ORSANCO data
 *** Indicates by fluorometric data

Daily Dissolved Oxygen, mg/L, June 2012

CALCULATED DAY	1-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun	Monthly % Exceedance
JULIAN DAY	153	156	157	158	159	160	163	164	164	164	165	166	167	170	171	172	173	174	177	178	179	180	181			
MONTGOMERY MP 517	MAX 8.60 MIN 8.40 AVG 8.50	8.80 8.20 8.50	9.20 8.70 8.90	9.30 8.80 9.00	9.60 9.20 9.30	9.80 8.90 9.30	10.20 8.80 9.40	10.70 8.90 9.50	10.70 8.90 9.50	9.70 8.50 9.10	9.70 8.50 9.10	9.70 8.50 9.10	9.70 8.50 9.10	10.20 8.70 9.30	9.90 8.70 9.10	9.90 8.70 9.10	9.70 8.50 9.10	9.60 8.80 9.20	10.10 8.80 9.20	11.60 8.80 9.70	11.60 8.80 9.70	11.00 8.80 9.70	11.00 8.80 9.70	8.60 7.80 8.20	8.30 7.60 7.95	
HANNAHALL MP 126.4	MAX 8.24 MIN 7.22 AVG 7.68	8.52 7.88 8.17	8.72 8.01 8.35	8.90 8.55 8.74	8.88 8.21 8.68	8.82 7.91 8.35	9.14 8.27 8.58	8.87 7.94 8.39	8.87 7.94 8.39	8.70 8.03 8.40	9.30 8.38 8.90	9.12 7.67 8.27	8.99 8.46 8.68	8.87 8.15 8.54	8.87 8.15 8.54	8.30 7.55 7.95	7.51 7.08 7.49	8.43 7.95 8.18	8.36 7.61 7.98	8.10 7.70 7.91	8.15 7.44 7.73	8.15 7.44 7.73	8.10 7.44 7.73	8.80 7.74 8.10	8.87 7.76 8.23	
BAKERS MP 237.5	MAX 7.33 MIN 7.02 AVG 7.21	6.65 6.40 6.53	6.98 6.51 6.74	6.85 6.45 6.60	6.66 6.46 6.55	6.61 6.42 6.50	6.84 6.24 6.46	6.84 6.21 6.52	6.84 6.21 6.52	6.96 6.17 6.52	7.01 6.32 6.78	6.89 6.32 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	6.90 6.28 6.60	
GREENUP MP 341.0	MAX 8.18 MIN 5.90 AVG 6.30	6.86 5.30 5.97	5.76 5.26 5.46	5.71 5.33 5.48	7.63 5.26 5.38	6.46 5.06 5.29	7.27 4.72 5.26	10.06 5.14 6.00	10.06 5.14 6.00	8.16 5.38 5.99	8.47 5.38 6.29	9.43 5.38 6.38	9.43 5.38 6.38	9.43 5.38 6.38	6.62 5.90 5.90	6.46 5.23 5.57	6.38 6.11 6.11	6.34 6.34 6.34	6.87 5.91 5.81	5.81 5.18 5.51	5.81 5.18 5.51	5.81 5.18 5.51	5.81 5.18 5.51	5.81 5.18 5.51	5.81 5.18 5.51	
DOWNSTREAM	MAX * MIN * AVG *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	
MARLBAND MP 511.5	US-LOCK DS-LOCK DS-1960	6.94 6.82 7.22 8.08	5.88 6.07 6.54 6.67	5.43 5.57 6.17 7.10	5.26 5.61 6.54 7.10	5.81 5.69 6.17 7.19	5.83 5.28 6.13 7.11	6.43 5.74 6.03 7.38	6.99 5.87 6.69 7.12	7.26 6.27 6.64 7.16	7.16 6.27 6.98 6.33	6.54 6.07 6.53 6.53	6.13 4.66 6.48 6.48	6.34 5.96 6.09 6.09	5.93 5.25 5.45 5.98	6.17 6.09 5.88 5.88	6.78 6.16 5.18 6.34	6.90 6.69 6.71 6.71	5.78 5.90 5.90 6.43	5.38 5.90 5.90 6.43	5.38 5.90 5.90 6.43	5.38 5.90 5.90 6.43	5.38 5.90 5.90 6.43	5.38 5.90 5.90 6.43		
MOULTREE MP 606.8	MAX 6.49 MIN 6.25 AVG 6.37	6.12 5.74 6.00	6.38 6.03 6.21	6.48 6.31 6.38	6.31 6.02 6.20	6.95 5.82 6.30	6.64 5.75 6.30	7.38 6.30 6.78	8.50 6.39 7.43	8.26 5.62 7.20	8.64 6.89 7.51	7.44 5.87 6.62	6.43 6.02 6.25	9.43 5.32 6.93	10.64 5.32 7.04	10.64 5.32 7.04	8.06 7.05 7.28	6.57 5.55 6.15	5.95 4.65 5.32	6.72 4.06 5.35	6.72 4.06 5.35	6.72 4.06 5.35	6.72 4.06 5.35	6.72 4.06 5.35	6.72 4.06 5.35	
JULIAN T. MYERS MP 846.0	MAX * MIN * AVG *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	
SHUTTLE AND MP 919.0	MAX * MIN * AVG *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	

*Significant problem with instrument
**Indicates ORANCO data
***Indicates hydroelectric dam

Daily Dissolved Oxygen, mg/L, July 2012

CALENDAR DAY	3-Jul	5-Jul	6-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	16-Jul	17-Jul	19-Jul	20-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	30-Jul	31-Jul	Monthly % Exceedance
INDIAN DAY	185	187	188	191	192	193	194	195	198	199	201	202	205	206	207	208	209	212	213	
MONTGOMERY	MAX 12.20	8.90	9.20	12.60	10.40	9.30	8.30	8.00	7.30	8.40	8.20	7.50	8.00	8.40	9.30	9.30	9.10	7.80	8.10	
MP 31.7	MIN 7.70	6.20	5.90	7.50	5.90	5.20	5.30	5.50	5.50	6.30	6.30	5.70	6.00	6.80	7.00	7.10	7.30	7.00	7.00	
	AVG 8.90	7.60	7.30	9.20	8.00	7.10	6.80	6.40	6.30	6.50	7.10	6.70	6.90	7.50	8.00	8.10	8.20	7.50	7.50	0.00%
HANNIBAL***	MAX 7.80	8.37	11.87	8.13	7.83	7.64	7.73	7.68	8.28	8.88	7.61	7.64	7.62	8.07	8.30	8.60	9.47	8.85	10.80	
MP 126.4	MIN 7.10	7.46	7.22	7.01	7.22	7.40	6.87	7.22	6.92	7.17	6.93	7.25	7.35	7.50	7.90	8.01	7.43	7.35	8.27	
UPSTREAM	AVG 7.44	7.91	7.78	7.86	7.33	7.51	7.56	7.39	7.95	7.94	7.44	7.38	7.40	7.84	7.98	8.33	7.86	8.14	9.11	0.00%
BRIDGE***	MAX No Data	6.35	6.35	5.52	5.12	6.40	6.44	6.44	5.88	5.62	5.75	6.43	5.42	8.07	6.05	6.05	6.44	5.48	6.76	
MP 231.5	MIN Avaliable	6.14	5.95	4.44	5.26	6.19	6.27	6.10	5.50	5.38	5.43	5.96	5.21	5.70	5.88	5.71	5.81	5.21	6.10	5.90%
GREENUP***	MAX 5.40	5.11	No Data	6.34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
MP 241.0	MIN 4.92	4.34	Data	4.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
UPSTREAM	AVG 5.14	4.27	Avaliable	5.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	33.00%
DOWNSTREAM	MAX 7.18	6.77	No Data	7.46	7.03	6.17	6.05	6.22	5.69	6.53	7.99	7.22	6.19	5.86	5.86	6.22	6.31	6.48	6.29	
	MIN 6.22	5.45	Data	5.57	6.02	5.40	5.50	5.80	5.09	5.14	6.38	6.63	4.86	4.94	4.87	5.11	5.42	5.40	5.76	
	AVG 6.62	6.20	Avaliable	6.46	6.38	5.72	5.72	5.84	5.38	6.09	6.74	6.88	5.33	5.31	5.42	5.63	5.92	6.12	5.97	0.00%
MARLAND***	US-LOCK 6.96	7.97	8.22	6.87	6.10	6.37	6.03	5.75	5.60	5.41	5.73	5.11	6.10	5.79	4.80	5.08	5.66	6.08	5.82	
MP 531.5	US-Hydro *	*	*	*	*	*	6.49	5.36	5.13	4.99	6.03	5.17	5.73	5.66	5.32	5.32	5.83	6.39	6.17	7.70%
D.O. #1	DS-Hydro 6.07	6.29	6.33	4.42	6.70	7.53	7.04	5.46	5.13	5.00	6.14	5.10	5.78	5.65	4.82	5.27	5.98	6.30	6.02	11.10%
					*	6.59	6.47	5.94	5.23	4.82	5.57	4.44	5.41	5.40	4.82	5.35	6.09	6.43	6.18	17.60%
MEALINGE***	MAX 6.24	6.67	5.95	5.43	6.35	7.31	6.56	6.95	5.92	6.95	6.82	6.35	7.24	7.55	6.88	6.70	7.16	6.18	7.71	
MP 606.8	MIN 4.27	5.22	5.09	4.50	4.39	5.31	4.20	5.31	4.80	4.24	4.93	5.38	5.42	5.51	6.08	5.63	5.00	5.12	5.32	
	AVG 5.29	5.95	5.54	4.82	4.92	5.37	5.87	5.62	4.82	5.76	6.16	5.76	6.17	6.56	6.30	6.05	5.88	5.75	6.41	15.70%
JOHN T. WYERS**	MAX 8.06	6.25	8.61	6.24	6.59	6.28	6.79	6.24	6.81	6.46	8.17	7.14	8.62	10.29	9.35	6.80	7.20	6.67	6.54	
MP 846.0	MIN 5.16	4.70	5.28	4.75	4.50	5.05	4.76	4.84	4.48	4.68	5.98	5.43	7.14	6.38	6.62	5.31	4.92	5.93	5.97	
	AVG 5.87	5.45	6.32	5.25	5.37	5.59	5.67	5.51	5.51	5.42	6.69	6.25	7.84	7.29	7.54	6.19	5.96	6.28	6.29	0.00%
SMITHLAND**	MAX 8.30	6.15	7.48	7.21	6.17	6.42	5.38	5.23	5.22	7.65	6.26	6.69	6.89	7.26	8.30	7.50	7.32	7.42	8.33	
MP 919.0	MIN 4.37	4.20	4.43	4.22	3.57	3.49	4.04	3.73	3.62	3.90	4.47	5.01	5.10	4.95	5.60	5.87	5.94	6.53	6.29	
	AVG 5.94	5.09	5.55	5.29	4.60	4.66	4.70	4.28	4.39	5.17	5.00	5.75	5.59	5.73	6.39	6.67	6.49	6.82	6.76	26.30%

* Indicates probe not in stream
 ** Indicates ORIONSCO data
 *** Indicates hydroelectric dam

Daily Dissolved Oxygen, mg/L August 2012																						
CALENDAR DAY	2-Aug	3-Aug	6-Aug	7-Aug	8-Aug	9-Aug	10-Aug	14-Aug	15-Aug	16-Aug	17-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	Monthly % Exceedence
JULIAN DAY	215	216	219	220	221	222	223	227	228	229	230	233	234	235	236	237	240	241	242			
MONTGOMERY MP 31.7	MAX 9.30 MIN 7.50 AVG 8.00	9.60 7.70 8.40	9.40 7.90 8.70	9.70 7.40 8.30	8.80 6.90 7.60	9.60 7.20 7.80	9.20 7.00 7.80	No Data Available	No Data Available	8.80 6.90 7.70	8.30 7.50 7.90	9.00 7.00 8.00	9.80 7.00 8.00	8.90 6.90 8.10	9.00 6.90 8.20	10.60 7.20 8.60	8.60 6.90 7.80	7.50 6.20 6.80	7.10 5.30 6.40		0.00%	
HANNIBAL*** MP 12.4	MAX 8.54 MIN 6.84 AVG 7.71	9.08 7.10 7.93	8.79 6.26 7.34	9.23 6.68 7.80	8.60 6.47 7.47	7.43 6.30 6.91	9.15 7.29 8.16	8.54 7.42 8.15	8.13 6.87 7.86	9.02 6.87 7.73	7.68 6.83 7.19	8.28 6.93 7.77	8.18 7.35 7.86	8.45 7.23 8.03	8.69 7.11 7.91	8.30 7.11 7.62	8.31 7.11 8.15	8.07 6.92 7.48	7.41 6.92 7.19		0.00%	
UPSTREAM MP 22.5	MAX 7.70 MIN 6.42 AVG 6.99	7.52 6.61 7.01	No Data Available	5.15 4.54 4.64	7.03 4.53 6.21	7.10 6.51 6.78	7.40 6.29 6.62	5.49 4.84 5.16	6.27 4.97 5.44	6.07 5.25 5.65	5.34 4.93 5.19	4.98 4.92 4.60	6.84 4.92 5.64	6.51 6.26 6.37	6.60 6.21 6.35	6.74 6.21 6.46	6.79 6.00 6.41	6.80 6.20 6.40	6.31 5.36 5.75		11.10%	
GREENUP*** MP 34.19	MAX 5.30 MIN 4.13 AVG 4.66	5.81 4.08 4.64	5.74 4.42 5.06	7.64 4.61 5.68	6.22 3.26 4.28	6.10 3.44 5.00	5.09 3.22 4.66	6.10 3.22 5.50	5.76 3.23 5.45	5.64 4.90 5.30	6.38 5.54 5.92	6.26 4.92 5.51	6.00 4.70 5.38	5.76 4.73 5.24	7.85 5.40 6.26	No Data Available	6.94 4.87 5.97	6.17 5.30 5.60	6.22 5.16 5.64		22.20%	
DOWNSTREAM MP 31.5	MAX 7.51 MIN 6.07 AVG 6.69	7.18 6.53 6.88	6.58 5.40 6.18	6.89 6.19 6.51	6.72 5.86 6.22	7.29 6.12 6.70	6.55 5.78 6.15	7.13 6.38 6.58	7.97 7.18 7.69	7.92 6.82 7.25	6.72 6.24 6.49	7.90 6.43 7.05	6.34 6.43 5.29	4.28 4.63 4.62	4.22 4.63 4.62	No Data Available	7.66 5.16 6.38	8.45 7.73 8.22	8.93 8.42 8.72		11.10%	
MARKLAND*** MP 31.5	MAX 6.32 MIN 6.01 AVG 6.33	6.22 6.33 6.55	5.81 6.17 6.31	6.02 6.30 6.27	6.30 6.64 6.64	6.38 6.67 6.63	6.01 5.88 5.83	5.69 5.47 5.18	5.45 5.16 5.18	5.47 5.32 5.42	5.66 5.45 5.31	6.43 5.80 5.20	6.33 6.16 5.55	6.12 5.46 5.65	6.17 5.85 6.35	6.66 6.25 6.79	6.43 5.59 6.31	6.07 5.36 6.76	6.24 5.72 7.16		0.00%	
DO #1	MAX 6.30 MIN 6.30 AVG 6.30	6.66 6.31 6.31	6.31 6.31 6.31	6.27 6.64 6.64	6.64 6.63 6.63	6.63 6.63 6.63	5.83 5.83 5.83	*	*	*	*	*	*	*	6.39	6.36	6.58	6.31	6.76	7.16	0.00%	
McLURNE*** MP 666.8	MAX No Data MIN No Data AVG No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	No Data No Data No Data	
JOHN T. MYERS** MP 846.0	MAX 7.24 MIN 5.15 AVG 6.13	7.49 5.58 6.30	7.84 5.05 5.99	8.04 5.85 6.47	7.97 6.02 7.01	6.68 6.42 6.61	6.68 6.55 6.63	7.25 6.09 6.45	8.09 7.07 7.43	8.50 7.37 8.01	8.35 7.79 8.01	9.69 7.99 8.32	9.11 7.93 8.32	8.80 8.71 8.76	No Data Available	No Data Available	No Data Available	No Data Available	9.31 7.23 8.45	10.74 7.13 8.47		0.00%
SMITHLAND** MP 919.0	MAX 8.11 MIN 5.35 AVG 5.89	7.29 5.70 6.34	8.86 5.54 6.99	10.81 6.58 7.90	9.40 6.84 7.33	8.67 5.77 7.24	7.85 6.45 7.04	6.45 5.39 6.80	8.06 5.10 6.13	6.50 5.18 5.69	7.75 5.52 6.44	9.53 6.92 6.92	9.07 5.22 6.70	8.58 5.02 6.14	7.36 4.96 6.17	7.76 5.46 6.64	8.81 2.76 6.30	8.89 6.99 7.90	8.98 6.41 7.44		0.00%	

***Indicates problem with instrument
**Indicates OMS/ISCO data
***Indicates hydrologic data

Daily Dissolved Oxygen, mg/L, September 2012																						Monthly % Exceedance
CALCULATED DAY	4-Sep	5-Sep	6-Sep	7-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	
JULIAN DAY	248	249	250	251	254	255	256	257	258	261	262	263	264	265	268	269	270	271	272			
MONTEGOMERY	MAX 6.50	6.40	7.30	6.70	7.00	7.00	7.00	7.40	9.40	9.00	8.50	8.50	8.50	8.00	8.00	8.00	8.70	8.70	9.00	8.50		
MP 317	MIN 5.30	5.50	7.10	5.60	6.20	6.40	6.40	6.40	6.90	6.90	7.00	7.20	7.20	7.00	7.00	7.90	7.80	7.80	8.00	8.20	0.00%	
AVG 6.10	6.00	7.20	6.10	6.60	6.70	6.80	6.80	6.90	7.60	7.50	7.70	7.80	7.80	7.60	7.80	8.30	8.30	8.40	8.20			
HANNIBAL***	MAX 7.71	8.01	8.36	8.51	8.45	8.43	8.43	8.63	8.38	8.31	8.64	8.87	8.73	8.57	8.45	8.64	8.78	8.81	8.83	8.87		
MP 125.4	MIN 7.21	7.25	7.64	7.64	8.09	7.77	7.77	8.03	7.92	7.92	8.10	8.01	8.03	7.92	8.23	8.31	8.43	8.45	8.63	8.63		
UPSTREAM	AVG 7.60	7.69	7.93	8.03	8.26	7.95	8.25	8.37	8.10	8.10	8.34	8.49	8.43	8.36	8.23	8.48	8.57	8.68	8.64	8.72	0.00%	
BALANCE***	MAX *	5.76	5.76	5.76	5.37	5.33	5.33	6.09	6.09	5.97	6.16	6.16	6.34	6.17	6.05	5.82	6.26	6.36	7.00	7.00		
MP 237.5	MIN *	5.40	5.31	5.07	4.80	5.15	5.15	5.66	5.67	5.67	6.19	6.19	6.08	5.80	5.70	5.45	5.65	6.10	6.17	6.49	0.00%	
AVG *	5.55	5.30	5.21	5.34	5.08	5.87	5.82	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.71		
GREENUP***	MAX 5.59	5.59	5.53	6.05	6.29	5.62	7.30	7.34	6.89	7.27	5.64	5.86	6.07	6.41	6.70	7.03	7.03	7.03	7.03	7.03		
MP 341.0	MIN 4.38	4.63	4.37	4.27	4.56	4.56	4.56	4.87	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18	5.18		
UPSTREAM	AVG 5.29	5.02	5.16	5.11	5.31	5.21	5.62	5.87	5.79	5.99	5.24	5.31	5.67	5.76	6.38	6.47	6.47	6.47	6.47	6.47		
DOWNSTREAM	MAX 6.17	5.62	5.62	6.43	7.25	7.37	8.66	9.05	9.02	14.02	7.15	8.06	8.38	8.52	*	10.15	7.80	7.85	10.50	10.50		
MIN 5.04	5.11	4.99	4.99	6.62	6.56	6.56	6.84	5.78	6.94	6.94	6.98	7.03	7.08	*	7.25	7.08	7.13	7.01	7.01	7.01		
AVG 5.80	5.25	5.18	5.45	7.02	7.15	7.15	8.19	8.48	7.91	6.95	7.04	7.20	7.45	7.34	*	7.60	7.32	7.27	7.39	7.39		
MARLAND***	US-LOCK	5.21	5.27	5.42	5.14	5.05	4.58	5.12	5.44	5.34	5.36	5.31	5.92	6.22	6.24	6.94	6.78	6.83	6.72	6.57	5.20%	
MP 511.5	DS-LOCK	5.54	5.52	5.76	5.66	5.79	5.14	5.34	5.88	5.51	5.34	6.25	6.23	6.42	7.25	7.35	7.40	7.19	7.06	7.06	0.00%	
DS-LOCK	5.33	4.27	5.78	5.78	5.66	5.66	4.80	5.21	4.21	4.54	4.54	4.64	5.83	6.03	6.16	6.69	6.56	6.82	6.69	6.65	31.50%	
DS-LOCK	5.68	5.65	5.80	5.80	5.74	5.86	5.39	5.86	6.04	5.86	6.02	5.31	6.10	6.03	6.54	7.10	7.57	7.36	7.62	7.62	0.00%	
MALINE***	MAX 5.51	5.82	6.15	5.74	5.77	5.84	5.81	5.70	6.34	6.07	6.07	6.08	6.36	6.15	6.36	6.53	6.38	6.65	7.01	6.91		
MP 606.8	MIN 4.96	5.04	4.91	5.16	5.36	5.04	5.48	5.47	5.54	5.54	5.54	6.01	5.61	5.62	6.08	6.08	6.28	6.41	6.41	6.41	0.00%	
AVG 5.23	5.32	5.32	5.43	5.57	5.36	5.37	5.37	5.39	5.82	5.74	5.75	6.17	5.90	5.98	6.30	6.28	6.41	6.41	6.41	6.41		
JOHN T. MATTHEWS**	MAX 7.18	6.81	8.46	8.19	8.02	8.20	8.11	6.72	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16		
MP 846.0	MIN 5.61	5.09	4.50	5.14	5.32	5.06	5.65	5.61	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	0.00%	
AVG 6.23	5.76	5.59	6.46	6.71	7.07	6.71	6.71	6.14	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65		
SMITHLAND**	MAX 6.95	7.82	6.09	6.95	8.03	6.39	5.52	5.53	6.20	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	5.65	40.00%	
MP 919.0	MIN 5.22	4.87	4.67	4.10	3.92	3.87	4.11	4.39	4.84	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16		
AVG 5.86	5.92	5.28	5.19	5.19	4.97	4.97	4.89	4.79	5.53	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97		

**Indicates problem with instrument
***Indicates ORSANCO data
****Indicates hydroelectric data

Daily Dissolved Oxygen, mg/L October 2012

CALENDAR DAY	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	29-Oct	30-Oct	31-Oct	Monthly % Exceedance
JULIAN DAY	275	276	277	278	279	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	
MONTGOMERY MP 31.7	MAX 9.20 MIN 8.60 AVG 8.90	9.20 8.70 9.00	9.30 8.80 9.10	9.50 8.90 9.20	9.40 8.70 9.10	9.10 8.50 8.90	9.10 8.60 8.80	9.20 8.50 8.80	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	9.30 8.60 8.90	0.00%	
HANNUBAL*** MP 126.4	MAX 8.99 MIN 8.48 AVG 8.81	8.99 8.72 8.88	9.30 8.82 9.06	9.56 8.93 9.20	9.02 8.82 8.93	9.23 8.82 9.07	9.09 8.75 8.94	9.24 8.93 9.04	9.26 8.93 9.13	9.54 8.75 9.11	9.50 8.93 9.24	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	9.50 8.93 9.44	0.00%		
RACINE*** MP 231.5	MAX 6.19 MIN 5.94 AVG 6.07	6.27 5.99 6.16	6.49 6.18 6.39	6.64 6.22 6.34	6.39 6.11 6.26	6.61 6.36 6.48	6.67 6.43 6.55	6.79 6.54 6.65	6.85 6.61 6.72	6.94 6.69 6.80	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92	7.02 6.83 6.92		
GREENUP*** MP 241.0	MAX 5.28 MIN 5.18 AVG 5.18	5.57 5.16 5.33	6.38 4.97 5.15	6.00 4.97 5.46	6.12 5.81 6.01	7.92 5.76 6.26	6.65 6.47 6.56	6.54 6.22 6.34	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	6.82 6.50 6.66	0.00%	
DOWNSTREAM	MAX 6.86 MIN 6.82 AVG 7.41	8.30 6.48 6.90	10.80 6.53 7.16	11.04 6.55 7.32	7.66 6.38 7.08	12.19 6.60 7.37	10.75 6.97 7.59	9.19 6.96 7.28	10.10 6.98 7.39	12.84 7.08 7.15	8.86 7.08 7.50	14.42 7.14 8.22	11.16 7.46 8.19	10.61 7.92 8.40	12.38 8.21 8.75	15.67 7.99 8.63	9.60 8.14 8.41	12.58 7.92 8.47	9.24 8.06 8.24	12.10 7.92 8.45	8.78 7.34 8.45	11.83 7.01 8.45	8.04 7.01 8.45	7.92 7.01 8.45	7.92 7.01 8.45	7.92 7.01 8.45	7.92 7.01 8.45	7.92 7.01 8.45	0.00%	
MARLBAND*** MP 531.5	MAX 6.47 MIN 6.61 AVG 6.21	6.85 6.96 6.53	7.11 7.23 6.53	7.13 7.16 6.52	7.29 7.48 6.52	7.56 7.48 6.52	7.74 7.53 6.94	8.07 7.50 6.70	7.94 7.01 6.54	8.00 6.66 6.95	8.36 7.54 7.27	8.14 7.22 7.60	8.16 7.17 7.41	8.20 7.49 7.38	8.14 7.55 7.19	8.22 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	8.32 7.55 7.51	0.00%	
DO. #1	MAX 6.55 MIN 6.33 AVG 7.01	7.01 6.33 7.28	7.28 6.53 7.32	7.36 6.52 7.56	7.76 6.85 7.16	7.96 6.94 7.06	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	8.18 6.70 8.34	0.00%	
MALPINE*** MP 606.8	MAX 6.99 MIN 6.83 AVG 6.90	6.86 6.76 6.81	7.06 6.87 6.96	7.22 7.04 7.12	7.44 7.14 7.28	7.90 7.44 7.65	8.54 7.75 8.12	8.65 8.13 8.35	8.52 8.13 8.35	8.92 8.22 8.49	8.49 8.22 8.34	8.54 8.22 8.34	8.39 8.21 8.27	8.47 8.15 8.33	8.56 8.46 8.51	8.40 8.30 8.35	8.47 8.27 8.38	8.51 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	8.39 8.27 8.42	0.00%	

***Indicates problem with instrument
**Indicates ORSANCO data
***Indicates by-the-river data

Daily Dissolved Oxygen, mg/L May 2013																																	
CALENDAR DAY	1-May	2-May	3-May	4-May	5-May	6-May	7-May	8-May	9-May	10-May	11-May	12-May	13-May	14-May	15-May	16-May	17-May	18-May	19-May	20-May	21-May	22-May	23-May	24-May	25-May	26-May	27-May	28-May	29-May	30-May	31-May	Monthly % Exceedance	
JULIAN DAY	121	122	123	125	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151				
MONTICOMERY MP 31.7	MAX 11.70 MIN 11.30 AVG 11.50	11.70 11.30 11.50	11.80 11.40 11.60	11.80 11.10 11.45	11.20 10.20 11.00	11.20 10.20 10.70	10.80 10.40 10.60	10.50 10.20 10.80	10.50 10.00 10.25	10.50 10.30 10.40	10.50 10.20 10.35	10.70 9.30 10.00	10.10 9.80 9.85	10.40 9.80 9.85	9.80 9.30 9.45	9.80 9.70 9.40	9.80 9.60 9.65	9.80 9.70 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	9.80 9.60 9.65	0.00%		
HAVANNAH MP 126.4 UPSTREAM	MAX 10.29 MIN 10.10 AVG 10.17	10.29 10.10 10.14	10.22 10.04 10.14	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	No 10.61 Available	0.00%		
BAKERS MP 237.5	MAX 9.38 MIN 9.03 AVG 9.15	9.17 8.80 8.99	8.97 8.78 8.86	8.70 8.51 8.60	8.66 8.57 8.71	8.78 8.50 8.63	8.78 8.11 8.48	8.82 8.11 8.64	8.44 8.07 8.31	8.46 8.00 8.22	8.29 7.99 8.09	8.05 7.83 7.96	7.87 7.57 7.15	7.31 7.66 7.79	8.95 7.78 8.32	8.53 8.27 8.43	8.62 8.27 8.15	8.06 7.71 7.68	7.39 6.70 7.06	6.36 6.51 6.69	6.59 6.43 6.78	7.35 6.80 7.06								0.00%			
GREENBRIER MP 341.0 UPSTREAM	MAX MIN AVG	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	No Data Available		
DOWNSTREAM	MAX MIN AVG	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	Data Data Data	No Data Available		
MARLAND MP 531.3	US-LOCK DS-Hydro DS-Hydro	8.29 9.93 9.73	8.37 9.93 9.65	8.16 9.62 9.75	7.90 9.65 9.45	7.34 9.33 9.08	6.64 8.75 8.57	6.91 9.08 8.34	7.28 9.01 8.22	8.28 8.73 8.21	8.25 8.67 8.11	8.24 8.83 8.72	8.19 8.74 8.77	7.55 8.27 8.21	7.17 7.95 8.01	7.23 7.93 8.23	7.41 8.01 8.23	7.45 8.18 8.23	7.27 8.32 8.23	7.54 8.39 8.63	8.03 8.30 8.34	7.94 8.23 8.24	7.94 8.23 8.24	7.94 8.23 8.24	7.94 8.23 8.24	7.94 8.23 8.24	7.94 8.23 8.24	7.94 8.23 8.24	7.94 8.23 8.24	0.00%			
MEALPRIME MP 606.8	MAX MIN AVG	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	No Data Data	

Indicates problem with instrument
 *Indicates OMS/ANCO data
 **Indicates hydroelectric dam

***Indicates hydroelectric dam

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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River	Location	2023												2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050	3051	3052
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- Indicates problem with instrument
- Indicates ORS/ANCO data
- Indicates hydroelectric dam

Daily Dissolved Oxygen, mg/L August 2013

CALENDAR DAY	1-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug	Monthly % Exceedance
JULIAN DAY	213	217	218	219	220	221	224	225	226	227	228	231	232	233	234	235	236	238	239	240	241	242		
MONTGOMERY NP 31.7	MAX 8.50 MIN 7.70 AVG 8.00	7.80 7.70 7.70	9.00 7.70 8.20	10.30 8.10 8.80	9.50 8.10 8.60	9.00 8.00 8.40	8.10 7.60 7.80	8.20 7.40 7.70	8.40 8.00 8.30	8.70 8.30 8.30	8.50 8.10 8.20	8.50 8.10 8.20	9.40 8.10 8.40	9.40 8.30 8.60	9.40 8.30 8.70	9.40 8.30 8.90	9.40 8.30 8.90	8.70 8.00 8.20	8.70 7.90 8.30	8.60 7.90 8.30	8.50 8.00 8.30	8.70 7.90 8.10	0.00%	
HANNIBAL NP 126.4 UPTREAM	MAX MIN AVG	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	Data Data Available	No	
BRACKE NP 237.5	MAX MIN AVG	* * *	* * *	* * *	* * *	* * *	* * *	* * *	* * *	5.80 5.36 5.60	5.38 5.30 5.43	5.74 5.51 5.59	5.72 5.06 5.49	5.54 5.06 5.34	5.93 5.59 5.75	5.74 5.35 5.52	5.58 5.31 5.43	5.43 5.20 5.32	5.39 5.12 5.28	5.32 5.18 5.18	5.32 5.18 5.18	6.40 5.64 5.79	0.00%	
GREENUP NP 34.0 UPTREAM	MAX MIN AVG	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No	
DOWNSTREAM	MAX MIN AVG	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No No Available	No	
MARBLELAND NP 531.5 D.O. #1	US-LOCK DS-LOCK US-Hydro DS-Hydro	7.46 6.78 6.54 6.81	7.24 6.77 6.74 6.99	7.21 6.88 6.78 7.03	7.27 7.07 5.12 7.05	7.34 6.99 7.19 7.39	7.11 7.34 7.28 7.51	7.28 7.23 6.62 7.31	7.29 7.34 6.91 7.24	7.16 7.39 6.85 7.18	6.92 7.44 6.78 7.23	6.73 7.51 6.88 7.22	6.52 6.60 *	6.41 6.87 *	6.48 6.75 6.96	6.48 6.68 7.21	6.59 6.56 7.40	6.73 6.91 7.61	6.83 6.66 7.38	6.88 6.53 7.61	6.91 6.84 7.81	6.78 6.58 7.77	0.00% 0.00% 0.00% 0.00%	
MALINE NP 606.8	MAX MIN AVG	6.48 6.19 6.34	8.08 6.74 7.37	7.37 6.99 7.14	6.97 6.63 6.75	6.88 6.48 6.71	7.05 6.64 6.82	6.51 5.40 6.25	6.41 6.11 6.29	6.47 6.46 6.65	6.84 6.57 6.85	5.95 6.77 6.93	7.49 6.78 7.11	7.08 6.72 6.96	6.89 6.72 6.78	6.31 6.31 6.40	6.64 6.43 6.33	6.40 6.24 6.33	6.44 6.13 6.23	6.62 6.22 6.31	6.57 6.42 6.41	6.53 6.31 6.41	0.00%	
JOHN T. RYERS NP 886.0	MAX MIN AVG	7.41 6.98 7.17	8.63 7.53 8.10	8.33 7.54 8.09	8.33 7.64 7.96	8.58 7.98 7.98	8.10 7.47 7.12	7.27 6.97 7.12	7.14 6.89 7.04	7.29 6.89 7.10	7.37 7.08 7.19	7.31 7.03 7.17	7.50 6.99 7.23	9.15 7.67 7.67	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No	
SMITHLAND NP 919.0	MAX MIN AVG	7.32 6.82 7.10	7.83 7.21 7.47	7.88 7.19 7.38	7.64 7.03 7.29	7.68 7.05 7.25	7.79 7.03 7.23	8.33 7.47 7.53	7.93 7.03 7.35	7.31 6.71 6.99	7.45 6.78 7.11	7.39 6.96 7.19	7.20 6.85 7.01	8.08 6.62 7.15	8.27 6.82 7.47	10.01 8.05 8.05	9.50 8.27 8.55	9.31 8.28 8.31	8.57 8.04 8.31	9.01 7.30 7.82	9.08 7.67 7.86	8.65 7.07 7.32	0.00%	

* Indicates problem with instrument
 ** Indicates OHSANCO data
 *** Indicates by instrument data

Daily Dissolved Oxygen, mg/L September 2013

CALCULATED DAY	3-Sep	4-Sep	5-Sep	6-Sep	9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	30-Sep	Monthly % Exceedance
JULIAN DAY	246	247	248	249	253	253	254	255	256	259	260	261	262	263	265	266	267	268	269	270	271	272	273		
MONTEGOMERY MP 31.7	MAX 8.60	5.50	8.60	8.70	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80	0.00%
	MIN 8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	
	AVG 8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	8.40	
HAUNTSVILLE*** MP 126.4 UPSTREAM	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
RAVINE*** MP 237.5	MAX 5.49	5.38	5.38	5.45	5.35	5.35	5.31	5.45	6.49	5.57	5.42	6.11	5.91	5.50	5.17	5.19	5.44	5.34	5.33	5.22	5.33	5.22	5.12	5.16	0.00%
	MIN 5.19	5.16	5.17	5.14	5.12	5.09	5.07	5.14	5.14	5.20	5.11	5.13	5.34	5.14	4.90	4.89	5.12	5.10	5.01	5.01	5.01	5.01	5.01	5.01	
	AVG 5.30	5.27	5.26	5.24	5.23	5.19	5.15	5.26	5.89	5.39	5.26	5.51	5.62	5.36	5.02	5.07	5.23	5.22	5.12	5.12	5.12	5.12	5.12	5.16	
GREENUP*** MP 341.0 UPSTREAM	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
DOWNSTREAM	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
MACLEAND*** MP 531.5 DS-Hydro	MAX 6.67	6.56	6.48	6.41	6.34	6.36	6.49	6.47	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	6.26	5.00%
	MIN 6.26	6.01	6.09	6.31	6.28	6.28	6.28	6.21	6.13	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	6.02	
	AVG 6.36	6.17	6.13	6.13	6.06	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	
MACLEINE*** MP 606.8	MAX 6.73	6.48	6.29	6.29	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	0.00%
	MIN 5.92	5.38	6.29	6.29	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	6.23	
	AVG 6.21	6.13	6.13	6.13	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	6.06	
JOHN T. MYERS** MP 846.0	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data
	AVG Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
SMITHLAND** MP 919.0	MAX 7.18	7.12	7.40	6.34	6.35	6.35	7.49	5.95	5.95	7.09	7.09	6.05	6.18	6.22	6.43	6.36	7.38	7.33	7.01	7.35	7.35	7.35	7.35	7.35	6.85
	MIN 5.92	6.23	5.69	5.33	5.21	5.18	4.89	4.81	4.81	5.73	5.10	4.86	5.00	5.10	5.02	6.30	6.60	6.27	6.44	6.44	6.44	6.44	6.44	6.44	
	AVG 6.53	6.67	6.19	5.81	5.73	5.73	5.96	5.99	5.99	6.92	6.34	5.65	5.49	5.50	5.72	6.15	6.77	7.01	6.64	6.80	6.80	6.80	6.80	6.80	0.00%

*Indicates problem with instrument
**Indicates ORSANCO data
***Indicates hydroelectric dam

Daily Dissolved Oxygen, mg/L October 2013

CALENDAR DAY	1-Oct	2-Oct	3-Oct	4-Oct	7-Oct	8-Oct	9-Oct	11-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	28-Oct	29-Oct	30-Oct	31-Oct	Monthly % Exceedance
JULIAN DAY	274	275	276	277	280	281	282	284	287	288	289	290	291	294	295	296	297	298	301	302	303	304	
NOONTOWNSHIRE MP 31.7	MAX 8.50 MIN 8.50 AVG 8.50	9.50 8.50 8.80	9.20 8.40 8.80	9.20 8.20 8.50	8.20 7.70 8.00	8.30 7.80 8.10	8.30 7.90 8.10	8.20 7.90 8.30	8.90 8.60 8.70	9.00 8.60 8.80	9.20 8.50 8.90	9.00 8.50 8.80	9.10 8.50 8.80	9.80 9.00 9.70	10.10 9.90 10.10	10.30 10.00 10.30	10.30 10.30 10.30	10.60 10.30 10.90	11.00 10.90 11.00	11.30 11.00 11.30	11.80 11.40 11.60	12.00 11.80 11.80	0.00%
THANNBAL*** MP 126.4 UPSTREAM	MAX No MIN No AVG Available	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No Data Available
PAULINE*** MP 27.5	MAX 5.33 MIN 5.05 AVG 5.16	5.30 4.84 5.14	5.24 4.94 5.06	5.23 4.94 5.03	5.22 4.90 4.82	5.22 4.90 5.04	5.27 4.96 5.10	5.25 4.96 5.08	5.22 4.93 5.07	5.23 4.94 5.07	5.11 4.88 4.82	5.12 4.83 4.96	5.19 4.86 5.01	5.32 4.97 5.13	5.99 5.01 5.39	5.78 5.31 5.53	5.66 5.23 5.43	5.59 5.25 5.40	5.81 5.48 5.64	5.77 5.40 5.57	5.77 5.41 5.47	5.70 5.31 5.47	13.60%
GREENUP*** MP 34.0 UPSTREAM	MAX No MIN No AVG Available	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No Data Available
DOWNSTREAM	MAX No MIN No AVG Available	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No No No	No Data Available
MARLAND*** MP 351.5 DS-Hydro	MAX 5.97 MIN 5.76 AVG 5.84	6.00 5.76 5.79	5.89 5.57 5.63	5.84 5.20 5.96	6.39 6.05 6.08	6.16 6.47 6.35	5.71 6.24 5.95	5.83 5.75 5.72	6.15 5.64 6.23	6.24 6.38 6.06	6.09 6.60 6.85	6.35 6.01 6.82	6.41 5.92 6.70	6.86 7.32 7.25	7.34 7.59 7.67	7.27 7.44 7.24	7.29 7.39 7.87	7.79 7.27 7.36	8.04 8.16 8.22	8.10 8.49 8.37	8.20 8.50 8.51	8.21 8.46 8.31	0.00%
MARLENE*** MP 606.8	MAX 6.79 MIN 6.49 AVG 6.60	6.68 6.33 6.50	7.13 6.33 6.59	7.22 6.51 6.75	6.86 6.40 6.58	6.79 6.43 6.58	6.57 6.43 6.52	6.77 6.35 6.68	6.92 6.36 6.56	6.33 6.19 6.26	6.26 6.17 6.12	6.37 6.12 6.26	7.13 6.33 6.43	7.13 7.07 7.30	7.81 7.62 7.73	7.98 7.69 7.85	9.08 7.91 8.05	8.15 7.98 8.07	8.72 8.38 8.65	8.84 8.70 8.77	8.79 8.62 8.72	No Data Available	0.00%
JOHN T. MYERS** MP 846.0	MAX 7.86 MIN 7.32 AVG 7.35	8.15 7.09 7.47	8.40 7.31 7.66	8.57 7.17 7.78	7.80 7.17 7.43	7.15 6.64 6.78	6.86 6.52 6.78	6.68 6.12 6.32	7.03 6.53 6.83	7.22 6.77 7.01	7.47 6.84 7.19	7.95 7.05 7.42	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	0.00%
SWITHLAND** MP 919.0	MAX 6.81 MIN 6.32 AVG 6.59	6.82 6.25 6.41	6.84 5.97 6.42	6.76 5.87 6.32	7.19 6.67 6.96	6.98 6.20 6.60	6.25 5.85 6.12	5.35 5.03 5.16	5.80 5.46 5.62	6.02 5.50 5.87	6.24 5.74 6.02	6.53 5.95 6.18	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	0.00%

*Indicates problem with instrument
 **Indicates ORS/ANO data
 ***Indicates hydrologic dam
 All data is provisional except for Marland

[illegible]

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Daily Dissolved Oxygen, mg/L June 2014

CALENDAR DAY	3-Jun	4-Jun	5-Jun	6-Jun	9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	30-Jun	Monthly % Exceedance	
JULIAN DAY	153	154	155	156	157	160	161	162	163	164	167	168	169	170	171	174	175	176	177	178	181	
MONTCOCHERY	MAX 10.00	10.30	10.50	10.20	10.00	10.00	9.70	9.40	9.10	8.90	9.10	9.10	9.20	9.30	9.30	9.00	9.00	8.90	8.90	9.10	9.20	0.00%
MP 31.7	MIN 9.40	9.50	9.10	9.10	8.80	8.80	8.50	8.30	8.50	8.40	8.60	8.70	8.80	8.80	8.70	8.70	8.60	8.50	8.50	8.90	0.00%	
AVG	9.80	9.80	9.70	9.70	9.40	9.40	9.20	9.10	8.90	8.80	9.00	9.00	9.10	9.20	9.20	8.90	8.90	8.70	8.80	9.10		
HANNAHAL***	MAX 9.14	9.50	9.56	8.70	8.27	8.93	8.84	8.58	11.57	8.61	9.93	8.91	10.08	8.48	8.66	8.61	8.57	8.51	8.37	8.48	8.64	0.00%
MP 126.4	MIN 8.73	9.06	8.67	8.16	8.01	8.30	8.25	8.30	8.24	7.83	8.48	8.21	7.23	8.01	8.28	7.71	6.90	8.04	8.19	8.12	8.06	
UPSTREAM	AVG 8.96	9.24	9.20	8.44	8.14	8.64	8.45	8.61	8.79	8.33	9.03	8.80	8.54	8.26	8.45	8.25	7.88	8.25	8.29	8.28	8.37	
BAKINE***	MAX 8.93	7.94	9.16	8.01	7.74	7.44	7.32	7.21	7.11	7.14	7.00	7.00	10.41	8.46	7.82	7.17	6.99	7.04	6.99	7.08	7.13	0.00%
MP 231.5	MIN 7.69	7.58	7.55	7.39	7.28	7.44	7.02	6.91	6.78	6.75	6.76	6.78	6.74	7.45	7.17	6.73	6.73	6.68	6.72	6.88	6.94	
AVG	7.79	7.74	8.04	7.74	7.45	7.44	7.14	7.02	6.92	6.82	6.86	6.86	7.70	7.87	7.35	6.90	6.80	6.82	6.83	6.82	6.94	
KYGER	MAX 9.14	8.17	8.83	8.71	8.62	8.37	8.22	8.09	7.72	7.68	7.68	8.02	No	7.70	7.72	7.20	6.78	6.78	6.79	7.18	6.78	0.00%
MP 260.0	MIN 7.72	5.22	4.90	8.51	8.27	7.98	7.87	7.64	7.48	7.42	7.42	7.72	Data	7.51	7.38	6.53	6.14	6.54	6.54	6.15		
AVG	8.19	7.39	7.95	8.59	8.30	8.25	8.01	7.88	7.63	7.57	7.57	7.91	Available	7.60	7.57	6.79	6.53	6.50	6.68	6.87	6.40	
GREENUP***	MAX MP 341.0	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
UPSTREAM	MIN Data	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	NA
DOWNSTREAM	MAX Data	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	
MIN Data	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	NA
AVG Data	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
MARSLAND***	US-Lack 8.50	8.70	8.70	8.50	7.90	7.50	7.50	7.30	7.10	7.10	7.30	7.30	7.20	7.20	7.30	6.70	6.80	6.70	6.70	6.60	6.30	0.00%
MP 53.15	US-Hydro 8.10	8.10	7.40	*	7.70	7.40	7.40	7.40	7.10	7.10	7.40	7.40	7.40	7.40	7.30	6.90	6.90	6.90	6.60	6.70	6.50	0.00%
DS-Hydro	7.90	7.70	7.60	7.30	6.80	7.20	7.30	7.10	6.80	7.00	7.10	7.10	7.10	6.80	6.80	6.50	6.50	6.50	6.60	6.60	6.40	0.00%
MIN	7.00	6.60	6.50	6.30	6.60	6.70	6.50	6.60	6.60	6.60	6.90	7.20	6.40	6.30	6.80	6.60	6.60	6.60	6.50	6.20	6.40	
MOALPINE***	MAX 8.62	8.55	8.78	8.41	8.71	8.97	6.92	No	No	7.54	No	7.88	8.22	8.24	7.97	6.98	6.63	7.00	6.90	7.54	No	
MP 606.8	MIN 8.26	8.27	8.22	7.52	7.37	5.13	5.03	Data	Data	6.80	Data	7.48	7.44	7.52	7.25	6.54	6.53	6.55	6.46	6.50	6.50	
AVG	8.47	8.43	8.42	8.09	8.00	6.06	6.12	Available	Available	7.23	Available	7.66	7.82	7.85	7.74	6.75	6.47	6.73	6.69	6.67	Available	
OLMSTEAD	MP 904.6	8.90	7.10	7.10	7.20	7.00	6.40	6.40	7.00	7.00	5.90	6.80	6.50	6.80	6.80	6.80	6.60	6.50	6.50	6.50	5.70	0.00%

*Indicates problem with instrument
 **Indicates ORSANCO data
 ***Indicates hydroelectric dam

Daily Dissolved Oxygen, mg/L, July 2014																																
CALENDAR DAY	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul	Monthly % Exceedance
JULIAN DAY	182	183	184	188	189	190	191	192	195	196	197	198	199	202	203	204	205	206	209	210	211	212										
MONTGOMERY MP 31.7	MAX MIN AVG	9.10 8.80 8.90	8.90 8.70 8.80	8.80 8.60 8.30	9.10 8.60 8.30	9.10 8.50 8.70	9.20 8.60 8.80	9.20 8.50 8.80	9.40 8.60 8.90	9.40 8.50 8.90	9.40 8.60 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	9.40 8.80 8.90	0.00%	
HANNIBAL*** MP 124.4 UPSTREAM	MAX MIN AVG	8.30 8.03 8.17	10.88 8.03 8.43	8.36 7.20 8.00	7.41 7.20 7.29	7.95 7.17 8.00	8.55 7.95 7.91	8.60 8.10 7.91	9.84 7.37 8.34	10.04 7.13 8.05	10.04 7.13 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	10.04 7.16 8.05	0.00%	
PACIFIC*** MP 237.5	MAX MIN AVG	7.08 6.79 6.88	7.06 6.80 6.89	7.17 6.90 6.96	7.30 7.11 7.20	7.12 7.00 7.06	7.10 6.93 6.99	7.10 6.93 6.99	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	7.14 6.92 7.01	0.00%	
KRYER MP 260.0	MAX MIN AVG	6.61 6.04 6.26	6.42 5.78 6.10	6.54 6.18 6.33	7.13 6.84 6.97	6.97 6.82 6.90	7.12 6.96 6.96	7.12 6.96 6.96	7.29 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	7.27 6.85 7.04	0.00%	
GREENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	5.71 4.15 5.13	21.00%	
DOWNSTREAM	MAX MIN AVG	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	6.67 6.00 6.39	10.50%	
MARBLEND*** MP 311.5	US-LOCK DS-LOCK US-HYDRO DS-HYDRO	6.20 6.20 6.10 6.10	6.30 6.40 6.40 6.20	6.40 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	6.30 6.40 6.40 6.30	0.00%		
MAYALPINE*** MP 606.8	MAX MIN AVG	6.20 8.10 8.18	6.24 6.07 6.14	6.37 5.89 6.12	No Data Data Available	No Data Data Available	5.58 5.12 5.30	6.02 5.18 5.57	6.14 5.65 5.89	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	6.03 5.85 5.80	0.00%
OLMISTAD MP 964.6	US-LOCK US-HYDRO DS-HYDRO	5.90 5.80 5.90	5.80 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	5.90 5.90 5.90	0.00%	

***Indicates problem with instrument
**Indicates ORSANCO data
***Indicates by/precipitation data

Daily Dissolved Oxygen, mg/L August 2014																							
CALENDAR DAY	1-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	Monthly % Exceedance	
JULIAN DAY	213	216	217	218	219	220	223	224	225	226	227	230	231	232	233	234	237	238	239	240	241		
MONTGOMERY MP 317	MAX 9.10 MIN 8.80 AVG 8.90	9.00 8.50 8.70	8.80 8.20 8.50	8.50 7.80 8.30	8.80 7.80 8.30	No Data 8.60 9.20	10.20 8.60 9.20	9.30 8.60 8.90	8.80 8.30 8.60	8.20 8.20 8.50	8.30 8.30 8.30	9.10 8.80 8.80	9.30 9.00 9.10	9.60 9.00 9.20	9.50 9.50 9.20	10.00 8.50 8.80	8.90 8.20 8.70	8.50 8.20 8.40	8.70 8.30 8.40	8.80 8.20 8.50	9.40 8.20 8.50	0.00%	
UNNIBIAL*** MP 126.4	MAX 8.30 MIN 8.05 AVG 8.17	9.21 8.01 8.36	8.39 7.95 8.16	8.34 7.54 8.05	8.24 7.85 7.98	8.12 7.86 8.00	8.04 7.17 7.77	7.92 7.04 7.35	8.04 7.11 7.70	7.76 7.05 7.48	8.55 7.25 8.18	8.25 8.04 8.16	8.57 7.95 8.15	8.57 7.95 8.15	8.46 7.80 8.20	8.10 4.11 7.33	8.10 4.11 7.33	8.27 4.11 7.33	8.56 8.10 8.49	8.15 7.70 7.96	7.88 7.46 7.64	0.00%	
BACINE*** MP 237.5	MAX 7.38 MIN 6.63 AVG 6.95	6.81 6.37 6.58	6.81 6.39 6.52	8.26 6.44 6.76	10.57 6.71 7.80	9.93 6.73 7.76	8.28 6.93 7.15	8.52 6.93 7.47	7.58 7.04 7.30	7.60 6.83 7.13	No Data No Data Available	7.35 6.44 6.71	7.93 6.47 6.73	7.93 6.47 6.75	8.30 6.48 6.83	8.32 6.63 7.16	10.22 7.23 8.52	No Data No Data Available	8.13 7.17 7.56	No Data No Data Available	No Data No Data Available	0.00%	
KYGER MP 260.0	MAX 7.33 MIN 6.91 AVG 7.02	7.15 6.79 6.94	7.15 6.79 6.92	7.13 6.79 6.74	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	7.51 6.74 7.01	No Data No Data Available	7.28 7.03 7.15	7.16 6.94 7.05	7.10 6.86 6.95	No Data No Data Available	7.12 6.74 7.39	7.85 7.39 7.62	7.36 7.02 7.00	7.26 7.00 6.90	7.18 6.90 7.03	6.73 6.43 6.56	0.00%	
GREENUP*** MP 141.0	MAX 5.69 MIN 4.87 AVG 5.21	6.00 4.85 5.24	8.28 4.80 5.41	5.50 4.80 5.08	5.64 4.70 5.19	5.40 4.56 4.92	5.28 4.70 4.97	5.47 4.39 5.04	5.45 4.73 5.32	5.40 4.87 5.01	5.21 4.87 5.01	5.14 4.30 4.54	6.10 4.32 5.53	6.10 4.32 5.53	5.50 4.78 5.31	5.35 3.43 3.98	5.35 3.43 3.98	5.47 4.87 5.19	5.64 4.87 5.47	5.52 5.02 5.19	6.02 5.21 5.62	28.50%	
DOWNSTREAM	MAX 7.18 MIN 5.64 AVG 6.93	7.46 5.38 5.81	7.46 5.76 6.18	7.30 5.42 6.03	8.02 5.18 5.87	8.26 5.18 5.92	6.79 4.92 5.42	6.56 5.04 6.00	7.42 5.71 6.18	8.74 5.71 6.35	10.08 5.66 6.34	7.08 5.64 6.12	8.90 5.64 6.27	8.90 5.64 6.27	7.87 6.29 7.08	7.30 5.78 6.30	7.30 5.78 6.30	10.56 5.18 6.43	7.75 5.81 6.36	8.47 6.22 6.47	10.27 6.22 7.04	10.59%	
MAKALAND*** MP 551.5	US-Load 6.40 US-Flow 6.10 US-Hydro 6.70	6.50 6.60 5.50	6.30 6.20 5.10	6.30 6.20 5.10	6.30 6.30 5.40	6.00 5.80 5.00	5.80 5.60 4.88	5.60 5.40 5.00	6.00 6.20 5.40	5.90 6.10 5.30	6.00 6.10 5.30	5.60 5.40 5.00	5.90 6.10 5.30	6.10 6.30 5.30	6.10 6.30 5.30	6.40 6.30 6.10	7.00 7.20 6.10	7.00 7.20 6.10	6.40 6.30 6.10	6.40 6.30 6.10	6.30 6.30 6.10	0.00%	
MEALPINE*** MP 666.8	MAX 6.48 MIN 6.19 AVG 6.34	7.81 6.57 7.18	8.08 6.54 7.37	7.37 6.99 7.14	6.97 6.83 6.75	6.88 6.48 6.71	6.92 6.40 6.70	6.51 5.40 6.25	5.28 4.98 5.10	5.07 4.87 4.94	5.19 4.44 5.00	4.94 4.66 4.92	5.25 5.10 5.27	5.31 5.13 5.27	5.11 4.91 5.05	5.20 4.68 4.75	4.88 4.68 4.75	4.78 4.61 4.69	4.85 4.67 4.78	5.26 4.67 4.82	5.28 5.05 5.14	19.00%	
OLMSTEAD MP 904.6	Int data	*	*	*	*	*	*	*	*	*	7.70	7.30	7.30	7.10	7.30	7.30	7.50	7.80	8.20	8.20	8.20	0.00%	

* Indicates problem with instrument
 ** Indicates ORSANCO data
 *** Indicates hydroelectric dam

Daily Dissolved Oxygen, mg/L September 2014																															
CALENDAR DAY	2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep	29-Sep	30-Sep	Monthly % Exceedance						
JULIANT DAY	245	246	247	248	249	252	253	254	255	256	258	259	260	261	262	263	264	265	266	267	268	269	272	273							
MONTGOMERY MP 31.7	MAX	8.50	9.40	8.90	9.10	No	8.90	9.20	8.60	8.50	8.20	8.20	9.00	9.00	9.30	8.90	9.30	9.30	9.20	8.20	8.80	9.80	9.80	10.30							
	MIN	7.90	7.80	7.90	7.90	Data	8.00	8.20	7.90	7.80	7.80	8.20	8.40	8.30	8.50	8.30	8.20	8.30	8.20	8.20	8.20	8.30	8.80	8.80							
	AVG	8.20	8.20	8.30	8.30	Available	8.30	8.60	8.20	8.10	8.10	8.40	8.70	8.80	8.90	8.50	8.50	8.50	8.70	8.70	8.70	9.20	9.10	9.10	0.00%						
TANNIALL*** MP 126.4 UPSTREAM	MAX	8.12	8.12	8.12	8.94	*	8.35	No	No	No	No	No	No	No	No	No	No	8.38	8.22	8.30	No	No	No	No							
	MIN	6.62	6.62	6.71	7.68	*	7.28	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	8.37	Available	Available	Available	Available	Available	Available							
	AVG	7.58	7.58	7.79	8.38	*	8.01	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	8.27	Available	Available	Available	Available	Available	0.00%						
BOACRE*** MP 217.3	MAX	7.35	8.18	7.73	7.30	7.08	7.05	7.07	6.85	6.77	6.77	6.77	7.84	9.34	8.49	7.54	7.12	7.12	7.12	7.12	7.12	7.10	6.99								
	MIN	6.40	6.28	7.24	6.85	6.75	6.74	6.72	6.40	6.30	6.09	6.09	7.07	7.47	7.47	7.42	7.04	7.11	7.21	6.50	6.46	6.46	6.46								
	AVG	6.72	6.93	7.51	7.05	6.91	6.85	6.88	6.60	6.44	6.44	6.44	6.35	6.72	7.96	7.98	7.27	7.28	7.68	7.60	6.78	6.78	6.64		0.00%						
KYGER MP 264.0	MAX	6.25	6.81	6.99	7.02	6.51	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30							
	MIN	6.19	6.47	6.61	6.85	6.20	6.06	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11	6.11							
	AVG	6.22	6.61	6.70	6.93	6.37	6.19	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	6.21	0.00%						
GREENUP*** MP 341.0 UPSTREAM	MAX	5.78	5.78	8.71	6.05	5.33	5.86	5.62	5.57	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83							
	MIN	5.16	5.16	4.18	4.90	4.51	4.66	4.94	4.99	5.04	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21	5.21							
	AVG	5.50	5.50	5.28	5.39	5.39	5.48	5.48	5.48	5.43	5.43	5.43	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	1.00%						
DOWNSTREAM	MAX	7.99	7.99	7.78	6.55	6.12	6.17	9.62	7.32	8.66	10.97	10.97	5.74	6.24	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48	6.48							
	MIN	6.79	6.79	5.74	5.69	5.26	5.30	5.33	5.40	4.99	4.99	4.99	5.42	5.28	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10							
	AVG	7.03	7.03	6.37	5.85	5.46	5.77	5.90	5.83	5.62	5.62	6.15	5.99	5.43	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	0.00%						
MARIANO*** MP 311.5	UP-land	6.30	6.60	5.50	5.70	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30	6.30							
	US-Hydro	6.30	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10							
	DS-Hydro	5.80	5.80	5.50	5.60	5.60	5.40	5.50	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60	5.60							
CLAMSTEAD MP 904.5	UP-land	7.10	7.00	6.30	6.60	6.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.90	8.00								
	US-Hydro	7.10	7.00	6.30	6.60	6.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.90	8.00								
	DS-Hydro	7.10	7.00	6.30	6.60	6.70	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.90	8.00	0.00%							

*Indicates problem with instrument
 **Indicates ORSANCO data
 ***Indicates hydrologic data

Daily Dissolved Oxygen, mg/L October 2014

CALNDAR DAY	1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	Monthly % Exceedance
JULIAN DAY	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	
MONTGOMERY MP 31.7	MAX 9.20 MIN 8.60 AVG 9.00	9.10 8.50 8.80	9.00 8.30 8.60	8.70 8.40 8.60	8.70 8.40 8.60	8.80 8.40 8.60	8.80 8.40 8.60	8.90 8.40 8.70	9.00 8.60 8.80	9.20 8.80 9.00	10.00 9.70 9.80	10.30 9.80 10.10	10.30 9.80 10.20	10.30 9.80 10.20	10.30 9.80 10.20	10.30 9.80 10.20	10.30 9.80 10.20	10.30 9.80 10.20	10.30 9.80 10.20	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	10.40 9.70 10.00	0.00%	
HANNAH MP 126.4 UPSTREAM	MAX No Data MIN No Data AVG Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	0.00%	
ROCKINGHAM MP 237.5	MAX 6.80 MIN 6.26 AVG 6.45	6.78 6.26 6.49	6.79 6.39 6.60	7.13 6.73 6.96	7.22 6.80 6.97	7.11 6.59 6.83	8.59 6.59 7.43	8.03 7.37 7.61	7.18 6.67 6.87	7.32 6.57 6.97	7.29 6.55 7.04	7.31 6.89 7.10	7.40 6.95 7.14	7.47 7.05 7.27	9.40 7.09 7.70	8.13 7.49 7.80	7.63 7.49 7.29	7.15 6.73 6.84	7.22 6.86 7.05	7.35 6.95 7.18	7.49 7.09 7.24										0.00%	
KYBER MP 260.0	MAX 8.85 MIN 8.01 AVG 8.30	8.25 7.88 8.06	No Data No Data Available	No Data No Data Available	No Data No Data Available	7.46 7.28 7.36	7.22 7.32 7.38	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	No Data No Data Available	0.00%
GREENUP MP 341.0 UPSTREAM	MAX 5.98 MIN 4.51 AVG 5.70	5.98 5.95 5.96	6.20 5.93 6.25	6.31 5.74 6.06	6.31 5.52 6.06	6.30 6.38 6.47	6.70 6.07 6.28	6.53 6.07 6.38	6.27 6.36 6.54	6.96 6.36 6.73	6.77 6.43 6.57	6.86 6.82 6.89	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.00%	
DOWNSTREAM	MAX 7.25 MIN 7.18 AVG 7.45	7.70 7.15 7.43	7.37 6.77 7.08	6.58 6.29 6.47	6.72 6.29 6.48	6.65 6.29 6.54	6.48 6.34 6.41	6.79 6.53 6.66	7.27 6.72 6.96	7.42 6.82 7.09	7.03 6.82 6.84	7.30 6.82 6.91	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.00%	
MARLAND MP 531.5 DOWNSTREAM	MAX 6.80 MIN 6.30 AVG 6.50	6.60 6.30 6.50	6.70 6.30 6.50	6.70 6.30 6.50	6.80 6.30 6.50	6.90 6.40 6.60	6.90 6.40 6.60	7.10 6.30 6.70	7.30 6.30 6.80	7.60 6.30 7.20	7.80 6.30 7.50	8.00 6.30 7.60	8.00 6.30 7.60	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	8.20 6.30 7.80	0.00%		
MALDEN MP 606.8	MAX 6.53 MIN 6.00 AVG 6.47	6.43 5.86 6.07	5.90 5.59 5.70	6.04 5.78 5.90	6.10 5.85 5.98	6.29 6.14 6.14	6.24 6.14 6.14	6.35 6.21 6.21	5.96 5.85 5.85	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	6.20 6.08 6.08	0.00%	
OLMSTEAD MP 954.6	MAX 8.20 MIN 8.01 AVG 8.10	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	8.40 8.01 8.20	0.00%	

*Indicates problem with instrument
**Indicates ORSANCO data
***Indicates hydroelectric dam

APPENDIX E

Temperature Data

2010 - 2014

Appendix E. Temperature Data, deg. F, Monthly for Days 1 through 31.

Year	Month	Station	Mile	Source	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
2010	May	Montgomery	31.7	USACE			60.75	61.52	64.13																											
2011	Jul	Montgomery	31.7	USACE																																
2011	Aug	Montgomery	31.7	USACE	84.74	84.92	84.92	85.28				84.74	84.56	86.72	83.66	83.84			80.78	80.60	80.42	79.88	79.52	83.12		84.74	78.98	78.98	78.44	85.82	85.28	86.18	86.00		79.16	
2011	Sep	Montgomery	31.7	USACE	78.08																															
2011	Oct	Montgomery	31.7	USACE	65.84	63.50	62.42	61.16	61.34																											
2012	Jun	Montgomery	31.7	USACE																																
2012	Jul	Montgomery	31.7	USACE	77.18																															
2012	Aug	Montgomery	31.7	USACE																																
2012	Sep	Montgomery	31.7	USACE	82.76	81.68																														
2012	Oct	Montgomery	31.7	USACE																																
2012	Nov	Montgomery	31.7	USACE	67.28	67.10	66.74	66.92	67.28																											
2013	Jan	Montgomery	31.7	USACE	59.36	60.40	61.16																													
2013	Feb	Montgomery	31.7	USACE																																
2013	Mar	Montgomery	31.7	USACE	71.96	71.78																														
2013	Apr	Montgomery	31.7	USACE																																
2013	May	Montgomery	31.7	USACE	76.28																															
2013	Jun	Montgomery	31.7	USACE																																
2013	Jul	Montgomery	31.7	USACE																																
2013	Aug	Montgomery	31.7	USACE	68.54	68.36	68.54	68.72																												
2013	Sep	Montgomery	31.7	USACE	55.22	55.22																														
2013	Oct	Montgomery	31.7	USACE																																
2013	Nov	Montgomery	31.7	USACE	72.68	73.94	75.56																													
2013	Dec	Montgomery	31.7	USACE	73.76																															
2014	Jan	Montgomery	31.7	USACE	75.28	76.64	77.18																													
2014	Feb	Montgomery	31.7	USACE																																
2014	Mar	Montgomery	31.7	USACE	75.02	75.38	75.56																													
2014	Apr	Montgomery	31.7	USACE																																
2014	May	Montgomery	31.7	USACE	76.28	76.64	77.18																													
2014	Jun	Montgomery	31.7	USACE																																
2014	Jul	Montgomery	31.7	USACE																																
2014	Aug	Montgomery	31.7	USACE	68.90	68.72	68.54																													
2014	Sep	Montgomery	31.7	USACE																																
2014	Oct	Montgomery	31.7	USACE	67.84	67.73	67.08	67.28	68.16	67.35	66.61	67.77	64.74	64.15	63.23	62.44	62.11	62.26	62.26	63.93	63.38	60.98	60.66	60.31	60.33	59.47	59.79	59.90	60.53	60.17	59.18	58.35	57.65	54.28		
2014	Nov	New Cumberland	54.4	ORSANCO	51.90	50.81	49.06	48.40	48.13	47.94	46.96	46.51	46.04	46.00	46.17	46.44	46.25	46.32	46.31	46.09	45.81	46.54	48.40	48.07	50.79	50.22	51.04	51.60	50.67	51.04	50.43	50.40	49.41	48.90		
2014	Dec	New Cumberland	54.4	ORSANCO	51.96	50.97	52.11	52.21	48.48	47.91	49.14	48.54	47.05	48.78	48.48	47.25	46.45	45.32	45.45	45.45	47.40	47.17	45.54	46.04	46.02	45.88	43.95	43.46	42.82	42.24	41.14	41.11	40.45	40.82	40.80	
2015	Jan	New Cumberland	54.4	ORSANCO	40.23	40.09	39.63	38.93	38.93	39.61	41.74	41.47	40.93	40.80	39.63	40.30	41.18	41.29	42.17	42.46	41.47	41.83	42.42	41.76	42.31	41.74	40.35	39.94	39.07	37.47	37.69	38.11	38.43	37.71	38.03	
2015	Feb	New Cumberland	54.4	ORSANCO	37.44	36.18	35.04	36.64	37.17	37.89	37.78	38.34	38.66	39.36	40.36	40.75	40.51	40.92	44.35	44.68	44.11	43.56	43.11	42.89	42.40	42.15	42.64	43.05	42.47	42.67	44.28	40.35				
2015	Mar	New Cumberland	54.4	ORSANCO	40.73	40.12	40.14	40.66	41.72	41.07	41.16	42.34	43.44	44.05	44.59	44.92	44.35	44.92	44.35	44.92	44.35	44.92	44.35	44.92	44.35	44.92	44.35	44.92	44.35	44.92	44.35	44.92	44.35	44.92	44.35	
2015	Apr	New Cumberland	54.4	ORSANCO	49.14	46.98	46.90	46.98	50.36	51.42	51.97	51.96	53.04	55.75	55.18	56.65	55.53	54.52	54.90	54.56	54.21	54.91	54.28	54.98	54.23	54.27	54.98	54.23	54.27	54.98	54.23	54.27	54.98	54.23	54.27	54.98
2015	May	New Cumberland	54.4	ORSANCO	66.70	69.01	69.96	71.56	71.42	72.34	72.30	71.98	71.55	73.65	73.72	72.19	70.02	71.02	71.12	70.34	70.34	70.34	71.06	71.60	71.24	71.48	74.48	73.58	73.40							
2015	Jun	New Cumberland	54.4	ORSANCO	78.61	75.18	75.81	76.13	77.16	78.48	81.05	81.27	81.70	82.78	83.70	83.01	85.80	85.19	82.29	83.62	84.40	83.95	83.80	82.60	82.35	81.59	84.06	83.77	85.24	85.24	85.24	85.24	85.24	85.24	85.24	
2015	Jul	New Cumberland	54.4	ORSANCO	84.99	82.95	81.48	80.98	82.47	85.33	86.45	85.78	83.62	83.01	85.80	85.19	82.29	83.62	84.40	83.95	83.80	82.60	82.35	81.59	84.06	83.77	85.24	85.24	85.24	85.24	85.24	85.24	85.24	85.24	85.24	
2015	Aug	New Cumberland	54.4	ORSANCO	81.45	82.67	81.81	81.41	80.69	82.09	81.59	80.40	82.87	83.34	84.81																					
2015	Sep	New Cumberland	54.4	ORSANCO																																
2015	Oct	New Cumberland	54.4	ORSANCO	68.16	67.89	68.04	68.02	68.13	67.82	67.21	66.15	65.32	64.71	64.04	63.79	63.00	63.48	63.43	64.00	64.40	64.11	63.57	63.16	62.28	62.42	61.62	62.37	61.23	61.30	61.70	60.66	59.72	58.42	56.62	
2015	Nov	New Cumberland	54.4	ORSANCO	52.27	50.90	49.98	48.65	48.22	47.80	47.14	46.38	46.35	46.65	46.85	47.48	47.26	45.99	46.00	46.27	46.38	46.27	46.20	46.44	46.35	47.12	46.85	46.09	46.60	46.33	47.05	47.51	46.60	46.38		
2015	Dec	New Cumberland	54.4	ORSANCO	45.26	44.69	44.69	44.95	47.14	45.43	44.65	44.65	44.73	45.72	45.45	44.73	45.45	44.93	44.31	44.34	44.54	40.59	39.49	38.73	41.54	40.59	39.49	38.73	41.54	40.59	39.49	38.73	41.54	40.59	39.49	
2016	Jan	New Cumberland	54.4	ORSANCO	36.64	36.36	35.85	35.42	35.15	35.56	35.76	35.58	36.14	36.34	36.28	36.68	37.90	38.73	39.25	39.34	38.98	39.18	39.31	38.97	37.83	36.46	35.42	34.79	34.59	33.76	33.28	34.70	35.64	36.39		
2016	Feb	New Cumberland	54.4	ORSANCO	36.64	35.63	35.98	36.94	34.65	34.65	34.61	34.63	34.77	34.84	36.19	36.64	36.43	37.17	37.26	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	37.24	
2016	Mar	New Cumberland	54.4	ORSANCO	36.99	37.31	37.21	36.82	36.99	37.36	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	37.89	
2016	Apr	New Cumberland	54.4	ORSANCO	43.45	43.50	43.36	44.29	44.29	45.00	46.06	47.79	48.94	49.98	50.																					

Appendix E. Temperature Data, deg. F, Monthly for Days 1 through 31.

Year	Month	Station	Mile	Source	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2013	Jan	Hemibal	126.4	OSANCO	37.40	37.27	37.09	36.75	36.39	36.21	36.14	36.27	36.12	36.16	37.26	37.89	38.14	38.93	39.15	39.20	39.79	39.79	39.45	39.87	39.78	39.83	37.51	36.45	35.85	35.31	35.10	35.31	35.42	36.37	37.92
2013	Feb	Hemibal	126.4	OSANCO	35.47	35.66	35.47	35.41	35.22	35.26	35.37	35.60	35.83	36.69	37.40	37.72	37.33	37.92	37.47	37.96	37.47	37.26	37.47	37.36	37.48	37.58	37.38	37.49	37.37	37.46	37.62	37.96	38.16	38.27	
2013	Mar	Hemibal	126.4	OSANCO	37.89	37.71	37.68	38.23	38.01	38.03	38.50	38.77	39.33	39.88	40.69	41.40	41.36	41.47	42.10	42.31	41.96	42.04	42.54	41.52	40.41	40.60	40.48	40.41	40.71	40.64	40.68	41.47	42.55	42.71	
2013	Apr	Hemibal	126.4	OSANCO	43.52	44.74	44.78	45.09	45.72	46.35	47.84	48.99	50.66	51.76	51.84	54.21	53.87	53.92	53.53	53.74	54.21	54.59	54.97	54.72	55.62	56.68	56.82	57.31	57.65	57.81	58.23	58.87	59.50	60.14	
2013	May	Hemibal	126.4	OSANCO	62.06	61.45	61.75	63.72	64.29	64.53	63.64	66.25	65.59	66.70	67.01	66.87	65.89	64.83	65.93	66.33	67.15	67.44	68.27	68.73	68.79	70.29	69.76	69.53	69.55	70.77	69.21	69.13	70.57	72.16	
2013	Jun	Hemibal	126.4	Hydro	58.44	59.27	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27	58.44	59.27
2013	Jul	Hemibal	126.4	OSANCO	73.35	74.14	74.17	74.07	74.34	73.06	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	72.53	
2013	Aug	Hemibal	126.4	OSANCO	77.90	77.54	76.35	74.75	75.38	76.01	76.63	76.33	76.12	76.50	75.83	76.24	75.86	80.11	79.48	80.28	80.76	79.75	80.44	79.77	80.82	81.59	82.15	81.19	80.44	79.99	79.39	81.15	79.32	79.18	
2013	Sep	Hemibal	126.4	OSANCO	80.53	79.34	78.89	79.54	80.76	80.37	79.41	79.66	80.29	80.22	80.82	80.64	79.47	78.87	78.71	79.74	78.94	78.10	78.03	78.63	79.93	78.78	79.11	79.45	79.74	79.70	79.56	79.61	80.22	80.35	79.18
2013	Oct	Hemibal	126.4	Hydro	79.41	79.39	78.64	78.40	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	77.45	
2013	Nov	Hemibal	126.4	Hydro	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	55.06	
2013	Dec	Hemibal	126.4	Hydro	67.33	68.40	69.44	69.91	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	70.27	
2014	Jan	Hemibal	126.4	Hydro	77.63	75.88	75.88	77.29	77.52	77.76	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10	78.22	78.10
2014	Feb	Hemibal	126.4	Hydro	77.88	77.88	78.80	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	79.27	
2014	Mar	Hemibal	126.4	Hydro	65.41	65.21	64.62	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	65.59	
2014	Apr	Hemibal	126.4	Hydro	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	73.86	
2014	May	Hemibal	126.4	Hydro	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	82.99	
2014	Jun	Hemibal	126.4	Hydro	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21	85.21		
2014	Jul	Hemibal	126.4	Hydro	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	88.35	
2014	Aug	Hemibal	126.4	Hydro	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	90.07	
2014	Sep	Hemibal	126.4	Hydro	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	91.81	
2014	Oct	Hemibal	126.4	Hydro	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	93.55	
2014	Nov	Hemibal	126.4	Hydro	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	95.29	
2014	Dec	Hemibal	126.4	Hydro	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.03	97.0									

Appendix E. Temperature Data, deg. F, Monthly for Days 1 through 31

[illegible]

Appendix E. Temperature Data, deg. F, Monthly for Days 1 through 31

Year	Month	Station	Mile	Source	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
2011	Jun	Markland OS-Lock	531.5	Hydro	71.60	72.68	73.04	79.52	80.24	80.96	81.68	82.40	83.12	83.84	84.20	84.02	83.84	84.74	84.92	85.28	85.64	86.00	86.36	86.72	87.08	87.44	87.80	88.16	88.52	88.88	89.24	89.60	89.96	90.32	90.68	91.04	
2011	Jul	Markland OS-Lock	531.5	Hydro	72.18			79.54	80.24	80.96	81.50	82.04	82.58	83.12	83.66	84.20	84.02	83.84	84.74	84.92	85.28	85.64	86.00	86.36	86.72	87.08	87.44	87.80	88.16	88.52	88.88	89.24	89.60	89.96	90.32	90.68	91.04
2011	Jul	Markland OS-Lock	531.5	Hydro	78.44			80.78	80.78	82.58	82.94			83.30	83.66	84.20	84.02	83.84	84.74	84.92	85.28	85.64	86.00	86.36	86.72	87.08	87.44	87.80	88.16	88.52	88.88	89.24	89.60	89.96	90.32	90.68	91.04
2011	Aug	Markland OS-Hydro	531.5	Hydro	87.26	87.62	87.80	87.44	87.44				87.08	86.72	86.18	85.64			84.38	84.02	83.84	83.48	83.12	82.76	82.40	82.04	81.68	81.32	80.96	80.60	80.24	79.88	79.52	79.16	78.80	78.44	
2011	Aug	Markland OS-Lock	531.5	Hydro	87.26	87.44	87.44	87.44					87.08	86.72	86.18	85.64			84.38	84.02	83.84	83.48	83.12	82.76	82.40	82.04	81.68	81.32	80.96	80.60	80.24	79.88	79.52	79.16	78.80	78.44	
2011	Aug	Markland OS-Lock	531.5	Hydro	87.26	87.44	87.80	87.44	87.44				87.08	86.72	86.18	85.64			84.38	84.02	83.84	83.48	83.12	82.76	82.40	82.04	81.68	81.32	80.96	80.60	80.24	79.88	79.52	79.16	78.80	78.44	
2011	Sep	Markland OS-Hydro	531.5	Hydro	82.76	82.94				81.68	79.88	78.80	77.72						76.28	75.74	75.48	75.22	74.96	74.70	74.44	74.18	73.92	73.66	73.40	73.14	72.88	72.62	72.36	72.10	71.84	71.58	
2011	Sep	Markland OS-Lock	531.5	Hydro	82.76	82.94				81.68	79.88	78.80	77.72						76.28	75.74	75.48	75.22	74.96	74.70	74.44	74.18	73.92	73.66	73.40	73.14	72.88	72.62	72.36	72.10	71.84	71.58	
2011	Sep	Markland OS-Lock	531.5	Hydro	0.00	0.00				0.00	0.00	0.00	78.80	77.72					76.28	75.74	75.48	75.22	74.96	74.70	74.44	74.18	73.92	73.66	73.40	73.14	72.88	72.62	72.36	72.10	71.84	71.58	
2011	Oct	Markland OS-Lock	531.5	Hydro						68.18	67.64	66.36	67.64	67.82					67.64	67.64	68.00	67.82	67.64														
2011	Oct	Markland OS-Lock	531.5	Hydro						68.18	67.64	66.36	67.64	67.82					67.64	67.64	68.00	67.82	67.64														
2011	Oct	Markland OS-Lock	531.5	Hydro						68.18	67.64	66.36	67.64	67.82					67.64	67.64	68.00	67.82	67.64														
2011	Oct	Markland OS-Lock	531.5	Hydro						68.18	67.64	66.36	67.64	67.82					67.64	67.64	68.00	67.82	67.64														
2012	May	Markland OS-Hydro	531.5	Hydro				0.00	57.20	56.12	56.94								59.00	58.64	58.46	58.28															
2012	May	Markland OS-Lock	531.5	Hydro				0.00	57.20	56.12	56.94								59.00	58.64	58.46	58.28															
2012	May	Markland OS-Lock	531.5	Hydro				0.00	57.20	56.12	56.94								59.00	58.64	58.46	58.28															
2012	May	Markland OS-Lock	531.5	Hydro				0.00	57.20	56.12	56.94								59.00	58.64	58.46	58.28															
2012	Jun	Markland OS-Lock	531.5	Hydro	75.38			74.48	73.76	73.76	74.12	74.66							76.46	76.46	76.46	77.18															
2012	Jun	Markland OS-Lock	531.5	Hydro	75.38			74.48	73.76	73.76	74.12	74.66							76.28	76.28	76.28	76.64	77.00														
2012	Jun	Markland OS-Lock	531.5	Hydro	75.38			74.48	73.76	73.76	74.12	74.66							76.28	76.28	76.28	76.64	77.00														
2012	Jul	Markland OS-Hydro	531.5	Hydro	83.30			83.30	84.56	84.74									86.00	85.82	85.64	85.46															
2012	Jul	Markland OS-Hydro	531.5	Hydro	83.30			83.30	84.56	84.74									86.00	85.82	85.64	85.46															
2012	Jul	Markland OS-Lock	531.5	Hydro	83.94			83.94	84.56	83.84									86.00	85.82	85.64	85.46															
2012	Jul	Markland OS-Lock	531.5	Hydro	83.94			83.94	84.56	83.84									86.00	85.82	85.64	85.46															
2012	Aug	Markland OS-Hydro	531.5	Hydro	84.20	84.56		84.20	84.38	84.38	84.74	84.20							86.00	85.82	85.64	85.46															
2012	Aug	Markland OS-Lock	531.5	Hydro	84.20	84.38		84.20	84.38	84.38	84.74	84.20							86.00	85.82	85.64	85.46															
2012	Aug	Markland OS-Lock	531.5	Hydro	84.20	84.38		84.20	84.38	84.38	84.74	84.20							86.00	85.82	85.64	85.46															
2012	Sep	Markland OS-Lock	531.5	Hydro	84.20	84.38		84.20	84.38	84.38	84.74	84.20							86.00	85.82	85.64	85.46															
2012	Sep	Markland OS-Lock	531.5	Hydro	84.20	84.38		84.20	84.38	84.38	84.74	84.20							86.00	85.82	85.64	85.46															
2012	Sep	Markland OS-Lock	531.5	Hydro	84.20	84.38		84.20	84.38	84.38	84.74	84.20							86.00	85.82	85.64	85.46															
2012	Sep	Markland OS-Lock	531.5	Hydro	84.20	84.38		84.20	84.38	84.38	84.74	84.20							86.00	85.82	85.64	85.46															
2012	Oct	Markland OS-Hydro	531.5	Hydro	71.60	71.06	71.06	71.24	71.24										69.26	68.36	68.00	67.10															
2012	Oct	Markland OS-Lock	531.5	Hydro	71.78	71.06	71.06	71.24	71.24										69.26	68.36	68.00	67.10															
2012	Oct	Markland OS-Lock	531.5	Hydro	71.78	71.06	71.24	71.24	71.24										69.26	68.36	68.00	67.10															
2012	Oct	Markland OS-Lock	531.5	Hydro	71.78	71.06	71.24	71.24	71.24										69.26	68.36	68.00	67.10															
2013	May	Markland OS-Hydro	531.5	Hydro	59.94	60.90	61.95		62.42	62.42	60.62	60.62	63.04	63.86	63.94	63.68			63.04	63.86	63.94	63.68															
2013	May	Markland OS-Lock	531.5	Hydro	59.94	60.90	61.92		62.42	62.42	60.80	60.62	63.28	63.14	63.96	64.04	63.68			63.14	63.96	64.04	63.68														
2013	May	Markland OS-Lock	531.5	Hydro	59.94	60.80	61.88		62.42	62.42	62.60	61.52	62.06	63.14	63.32	63.86	64.04	63.68			63.14	63.96	64.04	63.68													
2013	Jun	Markland OS-Hydro	531.5	Hydro	59.94	60.80	61.88		62.42	62.42	62.60	61.52	62.06	63.14	63.32	63.86	64.04	63.68			63.14	63.96	64.04	63.68													
2013	Jun	Markland OS-Hydro	531.5	Hydro	59.94	60.80	61.88		62.42	62.42	62.60	61.52	62.06	63.14	63.32	63.86	64.04	63.68			63.14	63.96	64.04	63.68													
2013	Jun	Markland OS-Lock	531.5	Hydro	73.76	73.76	73.94	73.94	74.48										75.20	75.02	76.10	76.28															
2013	Jun	Markland OS-Lock	531.5	Hydro	73.76	73.76	73.94	73.94	74.48										75.20	75.02	76.10	76.28															
2013	Jun	Markland OS-Lock	531.5	Hydro	73.76	73.76	73.94	73.94	74.48										75.20	75.02	76.10	76.28															
2013	Jul	Markland OS-Hydro	531.5	Hydro	78.62	78.62	78.08		78.44										75.20	77.18	78.44	78.80															
2013	Jul	Markland OS-Lock	531.5	Hydro	78.44	78.44	78.08		78.44										75.20	77.18	78.44	78.80															
2013	Jul	Markland OS-Lock	531.5	Hydro	78.44	78.44	78.08		78.44										75.20	77.18	78.44	78.80															
2013	Jul	Markland OS-Lock	531.5	Hydro	78.44	78.44	78.08		78.44										75.20	77.18	78.44	78.80															
2013	Aug	Markland OS-Hydro	531.5	Hydro	78.62	78.98	78.98	79.34	79.70										80.40	80.24	8																

Appendix E. Temperature Data, deg. F, Monthly for Days 1 through 31.

[illegible]

Appendix E. Temperature Data, deg. F, Monthly for Days 1 through 31.

Year	Month	Station	Mile	Source	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
2011	Aug	JT Myers	846	ORSANCO	91.22	92.34	90.43	90.30	90.77	89.29	90.81	88.72	88.68	87.87	87.96	88.75	87.04	86.29	85.44	86.63																
2011	Aug	JT Myers	846	USACE	91.22	92.34	90.43	90.30	90.77																											
2011	Aug	JT Myers	846	ORSANCO	86.27	89.11	86.41	85.17	83.80	81.81	79.11	78.10	76.82	76.64	77.43	77.85	77.67	77.18	76.69	75.29	75.49	74.37	74.57	74.44	74.51	74.61	74.75	73.87	73.17	72.07	71.40	70.54	70.97	70.97		
2011	Aug	JT Myers	846	USACE	86.27	89.11	86.41	85.17	83.80	81.81	79.11	78.10	76.82	76.64	77.43	77.85	77.67	77.18	76.69	75.29	75.49	74.37	74.57	74.44	74.51	74.61	74.75	73.87	73.17	72.07	71.40	70.54	70.97	70.97		
2011	Oct	JT Myers	846	ORSANCO	70.12	69.40	68.63	68.66	69.04	69.60	70.70	70.90	70.75	72.52																						
2011	Oct	JT Myers	846	ORSANCO	87.39	85.59	82.03	85.96	88.72	90.05	90.25	91.09	89.15	88.26	88.30	88.25	87.98	87.98	86.36	89.12	87.89	88.81	89.56	88.14	87.94	89.11	87.84	89.15	89.04	87.94	88.32	87.28	87.17	87.03	87.40	
2012	Jul	JT Myers	846	ORSANCO	88.09	88.12	87.78	87.13	86.59	88.21	92.66	95.47	76.14	74.14	74.34	74.44	83.14	92.03	81.66	74.41	73.69	73.53	84.90	85.96	79.74	75.24										
2012	Aug	JT Myers	846	ORSANCO	82.33	81.91	81.45	82.83	82.42	84.20	83.35																									
2012	Aug	JT Myers	846	USACE																																
2013	Jun	JT Myers	846	ORSANCO	79.59	78.08	78.31	78.75	78.69	78.91	79.14	79.29	78.98	78.55	77.07	76.26	77.13	78.40	79.68	80.51	80.89	81.00	81.64	82.42	82.26	82.33	82.74	82.38	82.20	82.09	83.84	81.21	81.25	80.92	80.02	
2013	Jul	JT Myers	846	ORSANCO	80.33	80.87	81.00	81.46	80.85	80.83	81.72	82.17	81.63	81.59	82.36	82.42	82.09	81.59	80.56	80.17	79.74	80.01	80.17	82.56	81.48											
2013	Aug	JT Myers	846	ORSANCO	76.21	76.60	76.62	77.32	76.66	75.83	74.82	73.00	71.67	71.62	71.76	71.46	71.06	70.29	70.20	69.75	69.40	68.56	67.66													
2013	Aug	JT Myers	846	USACE	76.21	76.60	76.62	77.32	76.66	75.83	74.82	73.00	71.67	71.62	71.76	71.46	71.06	70.29	70.20	69.75	69.40	68.56	67.66													
2014	Jul	JT Myers	846	ORSANCO	82.25	82.26	81.99	81.18	81.18	81.03	81.27	81.53	82.09	82.89	84.38	83.5	84.11	84.13	83.21	82.35	82.24	82.76	81.57	83.73	82.38	82.65	82.42	82.51	82.53	82.27	83.17	82.09	81.36	81.61	81.48	
2014	Aug	JT Myers	846	ORSANCO	81.55	81.84	82.69	84.16	82.94	82.43	82.71	82.33	82.74	82.58	82.71	82.27	81.88	82.38	81.99	81.63	81.25	80.62	81.3	81.45	81.54	82.09	82.72	83.28	83.14	83.23	84.18	84.42	84.67	83.98	84.29	
2014	Aug	JT Myers	846	USACE	83.17	82.89	83.23	84.54	83.64	83.55	82.49	83.41	81.9	81.66	81.48	80.26	78.64	78.39	77.02	76.37	75.79	76.06	76.28	76.3	75.61	75.72	75.58	76.5	79.39	76.66	76.5	76.95	77.22	76.87		
2014	Oct	JT Myers	846	ORSANCO	77.04	76.6	75.9	74.71	73.36	72.54	71.53	71.55	71.19	70.14	69.19	68.63	67.95	68.77	68.41																	
2014	Oct	JT Myers	846	USACE																																
2010	Jun	Smithland	918	ORSANCO																																
2010	Jun	Smithland	918	USACE																																
2010	Jul	Smithland	918	ORSANCO	75.45	76.55	76.68	77.41																												
2010	Jul	Smithland	918	USACE	75.45	76.55	76.68	77.41																												
2010	Aug	Smithland	918	ORSANCO	83.16	82.53	82.15	81.79	81.97	82.69	83.01	83.41	83.95	86.25	84.61	84.60	84.97	85.06	85.28	86.58	86.63	86.72	86.76	86.56	86.27	85.89	85.82	86.04	86.52	87.35	86.99	86.60	87.13	87.24		
2010	Aug	Smithland	918	USACE	83.16	82.53	82.15	81.79	81.97	82.69	83.01	83.41	83.95	86.25	84.61	84.60	84.97	85.06	85.28	86.58	86.63	86.72	86.76	86.56	86.27	85.89	85.82	86.04	86.52	87.35	86.99	86.60	87.13	87.24		
2010	Aug	Smithland	918	ORSANCO	88.11	89.28	88.66	88.39	87.93	87.80	87.71	88.86	88.02	88.12	89.76	89.28	89.01	88.86	90.25	89.01	88.63	88.56	88.19	87.85	87.94	88.43	88.00	88.07	87.87	88.72	86.54	86.16				
2010	Aug	Smithland	918	USACE	88.11	89.28	88.66	88.39	87.93	87.80	87.71	88.86	88.02	88.12	89.76	89.28	89.01	88.86	90.25	89.01	88.63	88.56	88.19	87.85	87.94	88.43	88.00	88.07	87.87	88.72	86.54	86.16				
2010	Sep	Smithland	918	ORSANCO	83.48	83.28	83.12																													
2010	Sep	Smithland	918	USACE	83.48	83.28	83.12																													
2010	Oct	Smithland	918	ORSANCO	75.65																															
2010	Oct	Smithland	918	USACE	75.65																															
2011	Jun	Smithland	918	ORSANCO																																
2011	Jun	Smithland	918	USACE																																
2011	Jul	Smithland	918	ORSANCO	78.24	79.23	80.10	79.92	80.44	80.67	81.43	81.77	81.52	82.06	83.25	84.04	84.13	85.06	85.60	85.19	85.76	86.47	86.05	86.83	87.21	87.75	88.43	88.25	89.42	89.33	89.71	89.62	89.31	90.04		
2011	Jul	Smithland	918	USACE	78.24	79.23	80.10	79.92	80.44	80.67	81.43	81.77	81.52	82.06	83.25	84.04	84.13	85.06	85.60	85.19	85.76	86.47	86.05	86.83	87.21	87.75	88.43	88.25	89.42	89.33	89.71	89.62	89.31	90.04		
2011	Aug	Smithland	918	ORSANCO	91.13	90.84	91.17	90.72	90.10	89.37	89.51	89.20	90.00	87.96	88.11	88.32	86.79	86.11	85.53	86.50	85.62	85.10	84.81	84.99	86.72	86.00	84.88	84.83	86.11	85.68						
2011	Aug	Smithland	918	USACE	91.13	90.84	91.17	90.72	90.10	89.37	89.51	89.20	90.00	87.96	88.11	88.32	86.79	86.11	85.53	86.50	85.62	85.10	84.81	84.99	86.72	86.00	84.88	84.83	86.11	85.68						
2011	Sep	Smithland	918	ORSANCO	84.18	89.49	87.67	85.68	83.71	81.19	79.61	79.72	77.20	76.14	76.26	76.35	77.97	77.38	76.82	76.06	76.17	75.07	74.14	73.60	75.04	74.26	73.90	72.77	72.75	72.03	71.51	69.01	68.63	68.66		
2011	Sep	Smithland	918	USACE	84.18	89.49	87.67	85.68	83.71	81.19	79.61	79.72	77.20	76.14	76.26	76.35	77.97	77.38	76.82	76.06	76.17	75.07	74.14	73.60	75.04	74.26	73.90	72.77	72.75	72.03	71.51	69.01	68.63	68.66		
2011	Oct	Smithland	918	ORSANCO	68.52	68.50	68.74	68.61	67.89	68.36	68.77	69.19	69.76	71.28	70.45																					
2011	Oct	Smithland	918	USACE	68.52	68.50	68.74	68.61	67.89	68.36	68.77	69.19	69.76	71.28	70.45																					
2012	Jun	Smithland	918	ORSANCO	86.14	86.11	85.35	85.64	86.16	88.39	88.47	88.29	87.28	87.66	87.58	87.21	87.40	86.74	87.24	87.10	88.07	88.32	88.07	88.38	88.21	88.84	87.62	88.00	87.87	87.91	88.00	87.96	87.53	86.68	88.14	
2012	Jun	Smithland	918	USACE	86.14	86.11	85.35	85.64	86.16	88.39	88.47	88.29	87.28	87.66	87.58	87.21	87.40	86.74	87.24	87.10	88.07	88.32	88.07	88.38	88.21	88.84	87.62	88.00	87.87	87.91	88.00	87.96	87.53	86.68	88.14	
2012	Aug	Smithland	918	ORSANCO	89.94	87.98	87.80	87.33	88.27	88.45	89.06	87.87	87.49	86.47	85.96	85.37	84.72	83.79	84.87	83.75	83.89	84.11	83.87	83.35	84.04	83.34	82.45	83.14	82.13	83.41	83.23	83.16	83.46	83.59	82.11	
2012	Aug	Smithland	918	USACE	89.94	87.98	87.80	87.33	88.27	88.45	89.06	87.87	87.49	86.47	85.96	85.37	84.72	83.79	84.87	83.75																

APPENDIX F

Biological Pool Results

2010 - 2014

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	m ORFI Score	mORFI Biological Condition	ORMI Score	ORMI Biological Condition
0.1	Emsworth	2012	B	7.24	Very Poor	22.83	Fair
0.4	Emsworth	2012	C	33.95	Good	26.34	Fair
1.7	Emsworth	2012	A	7.16	Very Poor	32.58	Good
average pool values				26.64	Fair	41.45	Very Good
6.7	Dashields	2013	A	26.75	Fair	36.65	Good
7.1	Dashields	2013	C	9.92	Very Poor	18.80	Poor
7.3	Dashields	2013	C	35.46	Good	36.63	Good
7.6	Dashields	2013	C	36.19	Good	39.63	Good
8.6	Dashields	2013	C	32.94	Good	46.02	Very Good
8.9	Dashields	2013	B	28.71	Fair	60.00	Excellent
8.9	Dashields	2013	C	46.08	Very Good	10.63	Poor
10.0	Dashields	2013	B	24.06	Fair	17.84	Poor
10.8	Dashields	2013	C	43.09	Very Good	6.40	Very Poor
11.2	Dashields	2013	C	12.39	Poor	37.33	Good
11.2	Dashields	2013	B	11.15	Poor	13.26	Poor
11.5	Dashields	2013	D	46.20	Very Good	39.57	Good
11.9	Dashields	2013	B	39.40	Good	34.43	Good
12.3	Dashields	2013	B	33.26	Good	6.67	Very Poor
12.6	Dashields	2013	C	37.07	Good	-	-
average pool values				30.85	Good	28.85	Fair
13.7	Montgomery	2010	B	55.34	Excellent		
14.1	Montgomery	2010	B	47.83	Very Good		
14.8	Montgomery	2010	D	43.39	Very Good		
15.3	Montgomery	2010	B	30.46	Good		
16.5	Montgomery	2010	C	37.70	Good		
16.8	Montgomery	2010	B	35.06	Good		
18.3	Montgomery	2010	B	6.09	Very Poor		
18.6	Montgomery	2010	C	48.04	Very Good		
25.3	Montgomery	2010	D	22.06	Fair		
25.9	Montgomery	2010	B	30.74	Good		
27.3	Montgomery	2010	B	19.57	Poor		
27.9	Montgomery	2010	C	33.97	Good		
28.7	Montgomery	2010	C	27.27	Fair		
30.4	Montgomery	2010	C	30.84	Good		
30.7	Montgomery	2010	C	24.54	Fair		
average pool values				32.86	Good		
32.3	New Cumberland	2011	D	35.47	Good	-	-
33.6	New Cumberland	2011	C	42.40	Very Good	10.08	Poor
34.2	New Cumberland	2011	C	25.43	Fair	46.63	Very Good
35.2	New Cumberland	2011	C	44.97	Very Good	37.30	Good

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	mORFI _n Score	mORFI _n Biological Condition	ORMI _n Score	ORMI _n Biological Condition
35.6	New Cumberland	2011	B	15.21	Poor	42.98	Very Good
37.2	New Cumberland	2011	D	24.48	Fair	44.10	Very Good
39.0	New Cumberland	2011	C	13.84	Poor	36.31	Good
41.0	New Cumberland	2011	C	26.98	Fair	60.00	Excellent
42.0	New Cumberland	2011	B	24.69	Fair	42.41	Very Good
42.7	New Cumberland	2011	B	18.46	Poor	24.51	Fair
43.5	New Cumberland	2011	B	15.97	Poor	46.22	Very Good
47.0	New Cumberland	2011	A	8.40	Very Poor	28.92	Fair
49.4	New Cumberland	2011	C	20.90	Fair	44.64	Very Good
52.2	New Cumberland	2011	A	13.03	Poor	28.70	Fair
52.5	New Cumberland	2011	B	29.57	Fair	18.98	Poor
average pool values				23.99	Fair	36.56	Good
55.2	Pike Island	2012	C	43.36	Very Good	28.95	Fair
56.8	Pike Island	2012	e	35.12	Good	-	-
57.5	Pike Island	2012	C	40.34	Very Good	30.11	Good
63.1	Pike Island	2012	D	16.29	Poor	22.05	Fair
64.2	Pike Island	2012	B	44.04	Very Good	34.76	Good
64.9	Pike Island	2012	A	28.41	Fair	29.96	Fair
65.1	Pike Island	2012	C	32.70	Good	28.46	Fair
66.8	Pike Island	2012	C	25.16	Fair	29.07	Fair
70.0	Pike Island	2012	B	37.31	Good	16.95	Poor
71.4	Pike Island	2012	C	45.54	Very Good	22.00	Fair
72.1	Pike Island	2012	C	31.43	Good	-	-
75.2	Pike Island	2012	A	13.37	Poor	23.27	Fair
75.4	Pike Island	2012	C	31.54	Good	29.24	Fair
80.2	Pike Island	2012	C	17.52	Poor	42.13	Very Good
83.7	Pike Island	2012	D	34.15	Good	13.24	Poor
average pool values				31.75	Good	26.94	Fair
84.9	Hannibal	2013	C	42.23	Very Good	48.72	Very Good
86.7	Hannibal	2013	C	42.88	Very Good	29.33	Fair
88.6	Hannibal	2013	C	43.76	Very Good	24.33	Fair
94.3	Hannibal	2013	C	44.26	Very Good	34.44	Good
96.5	Hannibal	2013	C	42.92	Very Good	39.50	Good
99.5	Hannibal	2013	B	26.74	Fair	26.36	Fair
103.2	Hannibal	2013	C	18.58	Poor	38.99	Good
105.3	Hannibal	2013	B	25.24	Fair	42.21	Very Good
107.7	Hannibal	2013	C	17.99	Poor	59.12	Excellent
109.7	Hannibal	2013	C	26.96	Fair	25.17	Fair
111.1	Hannibal	2013	B	44.80	Very Good	60.00	Excellent
111.9	Hannibal	2013	B	37.11	Good	44.14	Very Good

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	mORFIn Score	mORFIn Biological Condition	ORMIn Score	ORMIn Biological Condition
116.5	Hannibal	2013	D	40.42	Very Good	43.07	Very Good
118.6	Hannibal	2013	C	22.35	Fair	48.83	Very Good
122.2	Hannibal	2013	E	35.42	Good	49.91	Very Good
average pool values				34.11	Good	40.94	Very Good
130.7	Willow Island	2011	D	47.36	Very Good	-	-
134.9	Willow Island	2011	C	32.00	Good	48.24	Very Good
136.4	Willow Island	2011	C	27.54	Fair	60.00	Excellent
139.1	Willow Island	2011	D	42.26	Very Good	-	-
139.4	Willow Island	2011	D	22.68	Fair	60.00	Excellent
139.8	Willow Island	2011	D	20.89	Fair	58.44	Excellent
142.6	Willow Island	2011	D	28.90	Fair	60.00	Excellent
142.9	Willow Island	2011	D	28.74	Fair	-	-
143.0	Willow Island	2011	B	26.83	Fair	49.09	Very Good
143.8	Willow Island	2011	C	11.80	Poor	60.00	Excellent
144.1	Willow Island	2011	D	22.83	Fair	60.00	Excellent
148.7	Willow Island	2011	D	36.40	Good	48.01	Very Good
150.9	Willow Island	2011	C	21.87	Fair	53.17	Excellent
153.8	Willow Island	2011	D	28.11	Fair	41.80	Very Good
160.8	Willow Island	2011	B	19.06	Poor	58.63	Excellent
average pool values				27.82	Fair	54.78	Excellent
170.1	Belleville	2014	C	33.26	Good	40.99	Very Good
172.1	Belleville	2014	C	34.71	Good	-	-
173.8	Belleville	2014	D	28.70	Fair	38.66	Good
175.5	Belleville	2014	C	36.29	Good	27.09	Fair
176.6	Belleville	2014	B	10.85	Poor	36.66	Good
180.3	Belleville	2014	C	29.56	Fair	19.75	Poor
181.3	Belleville	2014	D	20.13	Fair	43.85	Very Good
184.5	Belleville	2014	D	34.65	Good	46.99	Very Good
190.6	Belleville	2014	C	15.06	Poor	18.76	Poor
192.1	Belleville	2014	D	25.44	Fair	20.87	Fair
192.1	Belleville	2014	B	37.68	Good	43.35	Very Good
197.9	Belleville	2014	D	0.00	Very Poor	27.97	Fair
199.5	Belleville	2014	D	24.58	Fair	24.64	Fair
199.7	Belleville	2014	A	13.54	Poor	40.88	Very Good
199.9	Belleville	2014	E	22.55	Fair	35.33	Good
average pool values				24.47	Fair	33.27	Good
204.4	Racine	2010	B	40.64	Very Good		
208.6	Racine	2010	B	13.94	Poor		
215.3	Racine	2010	B	32.04	Good		
217.7	Racine	2010	D	33.34	Good		

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	m ORFI _n Score	mORFI _n Biological Condition	ORMI _n Score	ORMI _n Biological Condition
218.1	Racine	2010	E	0.00	Very Poor		
218.5	Racine	2010	C	34.07	Good		
222.7	Racine	2010	D	8.90	Very Poor		
223.9	Racine	2010	C	27.02	Fair		
227.1	Racine	2010	E	25.52	Fair		
227.9	Racine	2010	D	36.59	Good		
228.0	Racine	2010	D	19.49	Poor		
231.7	Racine	2010	E	23.76	Fair		
232.5	Racine	2010	D	6.68	Very Poor		
234.1	Racine	2010	D	11.32	Poor		
234.7	Racine	2010	D	3.95	Very Poor		
average pool values				21.15	Fair		
238.7	RC Byrd	2013	C	42.82	Very Good	-	-
239.2	RC Byrd	2013	C	30.81	Good	48.89	Very Good
240.8	RC Byrd	2013	B	24.10	Fair	27.34	Fair
249.7	RC Byrd	2013	D	18.14	Poor	42.73	Very Good
252.5	RC Byrd	2013	C	49.26	Very Good	24.97	Fair
253.0	RC Byrd	2013	C	41.72	Very Good	23.59	Fair
258.0	RC Byrd	2013	E	27.55	Fair	25.95	Fair
260.9	RC Byrd	2013	C	44.76	Very Good	60.00	Excellent
261.3	RC Byrd	2013	D	45.52	Very Good	35.66	Good
263.9	RC Byrd	2013	D	46.04	Very Good	29.80	Fair
268.6	RC Byrd	2013	E	27.04	Fair	60.00	Excellent
270.3	RC Byrd	2013	D	19.38	Poor	60.00	Excellent
270.9	RC Byrd	2013	D	10.47	Poor	45.95	Very Good
278.0	RC Byrd	2013	E	14.96	Poor	38.52	Good
278.1	RC Byrd	2013	C	19.49	Poor	40.23	Very Good
average pool values				30.80	Good	40.26	Very Good
283.0	Greenup	2011	C	26.90	Fair	-	-
288.2	Greenup	2011	C	35.59	Good	55.26	Excellent
292.4	Greenup	2011	C	41.98	Very Good	43.01	Very Good
299.3	Greenup	2011	C	24.98	Fair	47.14	Very Good
307.3	Greenup	2011	D	31.55	Good	54.11	Excellent
309.1	Greenup	2011	D	41.97	Very Good	34.72	Good
311.6	Greenup	2011	C	39.63	Good	-	-
313.6	Greenup	2011	D	55.26	Excellent	60.00	Excellent
316.8	Greenup	2011	D	34.78	Good	31.11	Good
318.9	Greenup	2011	C	32.81	Good	38.44	Good
321.1	Greenup	2011	B	48.98	Very Good	14.64	Poor
322.0	Greenup	2011	C	49.69	Very Good	-	-

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	m ORFln Score	mORFln Biological Condition	ORMIn Score	ORMIn Biological Condition
329.2	Greenup	2011	E	27.41	Fair	32.43	Good
331.8	Greenup	2011	D	37.72	Good	60.00	Excellent
337.6	Greenup	2011	E	41.37	Very Good	24.24	Fair
average pool values				38.04	Good	41.26	Very Good
344.6	Meldahl	2012	A	60.00	Excellent	36.05	Good
348.0	Meldahl	2012	C	43.63	Very Good	49.21	Very Good
360.8	Meldahl	2012	E	45.53	Very Good	43.18	Very Good
374.2	Meldahl	2012	D	21.96	Fair	-	-
374.8	Meldahl	2012	C	43.61	Very Good	41.58	Very Good
376.3	Meldahl	2012	E	38.42	Good	45.76	Very Good
387.3	Meldahl	2012	E	35.72	Good	35.52	Good
392.7	Meldahl	2012	D	26.20	Fair	23.78	Fair
394.9	Meldahl	2012	D	41.74	Very Good	34.25	Good
395.1	Meldahl	2012	E	48.83	Very Good	16.28	Poor
402.6	Meldahl	2012	E	60.00	Excellent	23.65	Fair
405.3	Meldahl	2012	C	18.84	Poor	17.28	Poor
431.5	Meldahl	2012	D	33.41	Good	18.50	Poor
433.0	Meldahl	2012	E	37.93	Good	10.53	Poor
434.7	Meldahl	2012	C	42.57	Very Good	-	-
average pool values				39.89	Good	30.43	Good
451.8	Markland	2014	C	44.84	Very Good	37.09	Good
459.2	Markland	2014	D	41.39	Very Good	20.49	Fair
460.3	Markland	2014	B	31.43	Good	-	-
465.3	Markland	2014	C	44.63	Very Good	38.33	Good
466.2	Markland	2014	D	42.26	Very Good	20.40	Fair
466.5	Markland	2014	B	46.04	Very Good	25.52	Fair
474.6	Markland	2014	B	54.65	Excellent	51.84	Excellent
485.9	Markland	2014	D	28.12	Fair	25.81	Fair
498.6	Markland	2014	E	33.88	Good	12.30	Poor
510.1	Markland	2014	D	20.39	Fair	16.77	Poor
512.6	Markland	2014	D	36.02	Good	19.88	Poor
513.9	Markland	2014	D	42.05	Very Good	24.25	Fair
520.8	Markland	2014	B	43.23	Very Good	36.44	Good
524.3	Markland	2014	D	17.89	Poor	19.19	Poor
530.5	Markland	2014	D	38.87	Good	30.43	Good
average pool values				37.71	Good	27.05	Fair
549.9	McAlpine	2014	D	34.86	Good	24.23	Fair
561.1	McAlpine	2014	A	52.66	Excellent	25.14	Fair
562.2	McAlpine	2014	D	47.36	Very Good	18.91	Poor
567.6	McAlpine	2014	C	44.74	Very Good	36.16	Good

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	m ORFln Score	mORFln Biological Condition	ORMIn Score	ORMIn Biological Condition
568.3	McAlpine	2014	C	48.07	Very Good	46.17	Very Good
569.1	McAlpine	2014	D	57.30	Excellent	48.83	Very Good
570.1	McAlpine	2014	D	52.67	Excellent	25.78	Fair
572.1	McAlpine	2014	C	46.41	Very Good	27.64	Fair
572.8	McAlpine	2014	D	27.80	Fair	39.86	Good
577.9	McAlpine	2014	C	42.95	Very Good	19.74	Poor
587.4	McAlpine	2014	C	34.12	Good	30.23	Good
591.4	McAlpine	2014	C	50.69	Excellent	-	-
591.8	McAlpine	2014	C	46.03	Very Good	36.15	Good
596.2	McAlpine	2014	D	32.67	Good	-	-
597.5	McAlpine	2014	D	40.92	Very Good	-	-
average pool values				43.95	Very Good	31.57	Good
610.5	Cannelton	2011	B	29.25	Fair	-	-
612.8	Cannelton	2011	D	41.19	Very Good	31.91	Good
614.9	Cannelton	2011	D	49.67	Very Good	40.14	Very Good
615.6	Cannelton	2011	C	40.46	Very Good	41.99	Very Good
634.1	Cannelton	2011	D	18.63	Poor	-	-
638.1	Cannelton	2011	D	44.34	Very Good	-	-
641.0	Cannelton	2011	D	47.52	Very Good	37.80	Good
656.8	Cannelton	2011	C	36.50	Good	32.59	Good
658.2	Cannelton	2011	B	50.27	Excellent	-	-
659.7	Cannelton	2011	D	54.56	Excellent	-	-
681.7	Cannelton	2011	D	26.93	Fair	-	-
692.4	Cannelton	2011	D	47.92	Very Good	41.71	Very Good
695.9	Cannelton	2011	D	52.73	Excellent	-	-
705.8	Cannelton	2011	D	53.33	Excellent	25.53	Fair
707.4	Cannelton	2011	E	60.00	Excellent	23.04	Fair
average pool values				43.55	Very Good	34.34	Good
722.4	Newburgh	2012	D	59.08	Excellent	-	-
723.4	Newburgh	2012	E	43.00	Very Good	-	-
730.6	Newburgh	2012	B	42.64	Very Good	27.34	Fair
734.4	Newburgh	2012	D	40.01	Very Good	42.08	Very Good
737.5	Newburgh	2012	D	49.66	Very Good	24.92	Fair
741.3	Newburgh	2012	D	60.00	Excellent	40.10	Very Good
742.6	Newburgh	2012	D	38.39	Good	26.84	Fair
745.5	Newburgh	2012	D	52.47	Excellent	40.46	Very Good
746.4	Newburgh	2012	D	46.89	Very Good	26.43	Fair
754.4	Newburgh	2012	C	40.08	Very Good	27.96	Fair
768.1	Newburgh	2012	E	42.23	Very Good	21.02	Fair
769.5	Newburgh	2012	D	49.48	Very Good	24.90	Fair

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	m ORFln Score	mORFln Biological Condition	ORMIn Score	ORMIn Biological Condition
772.1	Newburgh	2012	D	42.95	Very Good	18.36	Poor
772.4	Newburgh	2012	D	23.99	Fair	7.22	Very Poor
774.6	Newburgh	2012	D	58.59	Excellent	16.94	Poor
average pool values				45.96	Very Good	26.51	Fair
778.1	JT Myers	2010	C	48.19	Very Good		
787.4	JT Myers	2010	D	27.29	Fair		
792.2	JT Myers	2010	D	39.15	Good		
795.3	JT Myers	2010	D	40.65	Very Good		
796.5	JT Myers	2010	D	25.87	Fair		
801.9	JT Myers	2010	C	41.25	Very Good		
802.4	JT Myers	2010	D	26.85	Fair		
802.8	JT Myers	2010	D	38.87	Good		
808.9	JT Myers	2010	D	25.09	Fair		
813.7	JT Myers	2010	D	35.44	Good		
814.6	JT Myers	2010	C	40.03	Very Good		
814.9	JT Myers	2010	C	31.88	Good		
816.9	JT Myers	2010	E	28.54	Fair		
823.4	JT Myers	2010	E	41.92	Very Good		
825.5	JT Myers	2010	D	46.77	Very Good		
average pool values				35.85	Good		
846.8	Smithland	2013	E	34.91	Good	6.20	Very Poor
847.1	Smithland	2013	D	24.09	Fair	60.00	Excellent
863.0	Smithland	2013	E	0.00	Very Poor	-	-
866.9	Smithland	2013	D	29.23	Fair	42.09	Very Good
878.1	Smithland	2013	D	28.91	Fair	47.92	Very Good
878.4	Smithland	2013	D	17.81	Poor	60.00	Excellent
882.2	Smithland	2013	E	33.03	Good	55.25	Excellent
883.3	Smithland	2013	E	30.53	Good	41.30	Very Good
893.7	Smithland	2013	D	41.40	Very Good	60.00	Excellent
895.9	Smithland	2013	D	39.86	Good	60.00	Excellent
909.9	Smithland	2013	D	40.53	Very Good	53.83	Excellent
912.9	Smithland	2013	E	36.05	Good	45.84	Very Good
913.5	Smithland	2013	D	30.79	Good	11.91	Poor
914.0	Smithland	2013	E	37.23	Good	22.70	Fair
917.7	Smithland	2013	B	43.81	Very Good	43.41	Very Good
average pool values				31.21	Good	43.60	Very Good
923.3	Olmsted	2014	D	40.69	Very Good	33.12	Good
924.4	Olmsted	2014	D	50.70	Excellent	46.89	Very Good
925.4	Olmsted	2014	D	17.51	Poor	42.74	Very Good
927.2	Olmsted	2014	D	20.96	Fair	41.44	Very Good

Appendix F. Biological Pool Results

Mile Point	Pool	Year	Habitat Type	mORFIn Score	mORFIn Biological Condition	ORMIn Score	ORMIn Biological Condition
932.0	Olmsted	2014	D	37.24	Good	26.08	Fair
932.8	Olmsted	2014	C	55.61	Excellent	3.58	Very Poor
933.2	Olmsted	2014	D	47.20	Very Good	-	-
940.1	Olmsted	2014	C	46.68	Very Good	32.61	Good
942.5	Olmsted	2014	D	23.94	Fair	45.74	Very Good
944.5	Olmsted	2014	D	31.31	Good	39.45	Good
945.8	Olmsted	2014	C	39.98	Good	39.64	Good
948.0	Olmsted	2014	D	30.53	Good	20.64	Fair
954.6	Olmsted	2014	D	39.26	Good	-	-
955.5	Olmsted	2014	D	38.15	Good	22.16	Fair
961.2	Olmsted	2014	D	35.85	Good	-	-
average pool values				37.04	Good	32.84	Good
966.9	Open Water	2014	D	18.96	Poor	-	-
968.7	Open Water	2014	C	19.81	Poor	-	-
974.0	Open Water	2014	D	30.39	Good	-	-
976.9	Open Water	2014	E	0.00	Very Poor	-	-
980.4	Open Water	2014	D	9.56	Very Poor	-	-
980.8	Open Water	2014	D	5.25	Very Poor	-	-

APPENDIX G

Bacteria Data

2010 - 2014

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
1.4M	Pittsburgh	04-May-10	936	236
1.4M	Pittsburgh	11-May-10	340	145
1.4M	Pittsburgh	18-May-10	7,700	4,800
1.4M	Pittsburgh	20-May-10	380	260
1.4M	Pittsburgh	25-May-10	718	340
Geometric Mean			923	429
4.3	Pittsburgh	04-May-10	718	350
4.3	Pittsburgh	11-May-10	300	136
4.3	Pittsburgh	18-May-10	6,800	3,500
4.3	Pittsburgh	20-May-10	510	320
4.3	Pittsburgh	25-May-10	882	570
Geometric Mean			920	497
1.4M	Pittsburgh	01-Jun-10	7,600	5,500
1.4M	Pittsburgh	08-Jun-10	2,800	700
1.4M	Pittsburgh	15-Jun-10	3,200	500
1.4M	Pittsburgh	22-Jun-10	2,400	700
1.4M	Pittsburgh	29-Jun-10	5,600	1,600
Geometric Mean			3911	1166
4.3	Pittsburgh	01-Jun-10	6,800	4,300
4.3	Pittsburgh	08-Jun-10	3,900	500
4.3	Pittsburgh	15-Jun-10	2,400	700
4.3	Pittsburgh	22-Jun-10	2,900	600
4.3	Pittsburgh	29-Jun-10	5,100	2,000
Geometric Mean			3933	1125
1.4M	Pittsburgh	06-Jul-10	100	16
1.4M	Pittsburgh	13-Jul-10	108	24
1.4M	Pittsburgh	20-Jul-10	6,900	3,000
1.4M	Pittsburgh	22-Jul-10	545	160
1.4M	Pittsburgh	27-Jul-10	206	60
Geometric Mean			384	102
4.3	Pittsburgh	06-Jul-10	88	12
4.3	Pittsburgh	13-Jul-10	100	20
4.3	Pittsburgh	20-Jul-10	6,600	1,600
4.3	Pittsburgh	22-Jul-10	490	120
4.3	Pittsburgh	27-Jul-10	160	28
Geometric Mean			340	66
1.4M	Pittsburgh	03-Aug-10	176	60
1.4M	Pittsburgh	10-Aug-10	300	70
1.4M	Pittsburgh	17-Aug-10	1,000	136
1.4M	Pittsburgh	24-Aug-10	4,000	1,700
4.3	Pittsburgh	03-Aug-10	390	100
4.3	Pittsburgh	10-Aug-10	200	50
4.3	Pittsburgh	17-Aug-10	800	130
4.3	Pittsburgh	24-Aug-10	1,800	300
1.4M	Pittsburgh	07-Sep-10	5,400	2,200
1.4M	Pittsburgh	14-Sep-10	242	100
1.4M	Pittsburgh	20-Sep-10	500	100
1.4M	Pittsburgh	27-Sep-10	197	77
1.4M	Pittsburgh	28-Sep-10	6,900	2,900
Geometric Mean			977	345
4.3	Pittsburgh	07-Sep-10	3,000	1,200
4.3	Pittsburgh	14-Sep-10	208	30
4.3	Pittsburgh	20-Sep-10	550	120
4.3	Pittsburgh	27-Sep-10	156	51
4.3	Pittsburgh	28-Sep-10	7,500	3,800
Geometric Mean			833	242
1.4M	Pittsburgh	05-Oct-10	1,100	400
1.4M	Pittsburgh	12-Oct-10	627	227
1.4M	Pittsburgh	19-Oct-10	360	170
1.4M	Pittsburgh	21-Oct-10	450	240
1.4M	Pittsburgh	26-Oct-10	4,900	2,300
Geometric Mean			886	386
4.3	Pittsburgh	05-Oct-10	1,000	300

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
4.3	Pittsburgh	12-Oct-10	318	80
4.3	Pittsburgh	19-Oct-10	210	150
4.3	Pittsburgh	21-Oct-10	320	230
4.3	Pittsburgh	26-Oct-10	1,600	700
Geometric Mean			509	225
86.8	Wheeling	04-May-10	4	4
86.8	Wheeling	11-May-10	20	44
86.8	Wheeling	18-May-10	350	203
86.8	Wheeling	20-May-10	900	450
86.8	Wheeling	25-May-10	124	40
Geometric Mean			79	58
92.8	Wheeling	04-May-10	1,700	891
92.8	Wheeling	11-May-10	92	20
92.8	Wheeling	18-May-10	1,244	909
92.8	Wheeling	20-May-10	682	277
92.8	Wheeling	25-May-10	320	72
Geometric Mean			532	200
86.8	Wheeling	01-Jun-10	104	16
86.8	Wheeling	08-Jun-10	2,400	490
86.8	Wheeling	15-Jun-10	927	52
86.8	Wheeling	22-Jun-10	3,600	410
86.8	Wheeling	29-Jun-10	40	12
Geometric Mean			506	73
92.8	Wheeling	01-Jun-10	660	214
92.8	Wheeling	08-Jun-10	4,600	980
92.8	Wheeling	15-Jun-10	3,900	773
92.8	Wheeling	22-Jun-10	5,700	900
92.8	Wheeling	29-Jun-10	3,300	1,600
Geometric Mean			2948	748
86.8	Wheeling	06-Jul-10	8	4
86.8	Wheeling	13-Jul-10	80	84
86.8	Wheeling	20-Jul-10	80	4
86.8	Wheeling	22-Jul-10	12	4
86.8	Wheeling	27-Jul-10	188	8
Geometric Mean			41	8
92.8	Wheeling	06-Jul-10	900	200
92.8	Wheeling	13-Jul-10	12,300	3,600
92.8	Wheeling	20-Jul-10	700	720
92.8	Wheeling	22-Jul-10	317	20
92.8	Wheeling	27-Jul-10	6,100	1,072
Geometric Mean			1718	407
86.8	Wheeling	03-Aug-10	550	56
86.8	Wheeling	10-Aug-10	4	4
86.8	Wheeling	17-Aug-10	100	12
86.8	Wheeling	24-Aug-10	270	30
86.8	Wheeling	31-Aug-10	20	4
Geometric Mean			65	13
92.8	Wheeling	03-Aug-10	1,150	2,400
92.8	Wheeling	10-Aug-10	200	168
92.8	Wheeling	17-Aug-10	172	56
92.8	Wheeling	24-Aug-10	500	840
92.8	Wheeling	31-Aug-10	72	8
Geometric Mean			270	172
86.8	Wheeling	07-Sep-10	4	10
86.8	Wheeling	14-Sep-10	4	4
86.8	Wheeling	21-Sep-10	20	8
86.8	Wheeling	23-Sep-10	92	8
86.8	Wheeling	28-Sep-10	164	32
Geometric Mean			22	10
92.8	Wheeling	07-Sep-10	20	12
92.8	Wheeling	14-Sep-10	360	40
92.8	Wheeling	21-Sep-10	216	20
92.8	Wheeling	23-Sep-10	104	16
92.8	Wheeling	28-Sep-10	6,000	5,000

Appendix G. Ohio River Bacteria Data, 2010-2014					
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	250	60
86.8	Wheeling	05-Oct-10	28	28	
86.8	Wheeling	12-Oct-10	4	4	
86.8	Wheeling	19-Oct-10	24	8	
86.8	Wheeling	21-Oct-10	8	4	
86.8	Wheeling	26-Oct-10	12	8	
			Geometric Mean	12	8
92.8	Wheeling	05-Oct-10	300	90	
92.8	Wheeling	12-Oct-10	24	12	
92.8	Wheeling	19-Oct-10	15,900	6,400	
92.8	Wheeling	21-Oct-10	208	96	
92.8	Wheeling	26-Oct-10	24	20	
			Geometric Mean	225	106
305.1	Huntington	04-May-10	640	590	
305.1	Huntington	11-May-10	16	12	
305.1	Huntington	18-May-10	112	84	
305.1	Huntington	20-May-10	260	243	
305.1	Huntington	25-May-10	37	16	
			Geometric Mean	102	75
314.8	Huntington	04-May-10	790	480	
314.8	Huntington	11-May-10	164	85	
314.8	Huntington	18-May-10	186	84	
314.8	Huntington	20-May-10	430	212	
314.8	Huntington	25-May-10	154	83	
			Geometric Mean	276	143
305.1	Huntington	01-Jun-10	16	12	
305.1	Huntington	08-Jun-10	88	37	
305.1	Huntington	15-Jun-10	4,800	2,200	
305.1	Huntington	22-Jun-10	231	157	
305.1	Huntington	29-Jun-10	430	269	
			Geometric Mean	232	133
314.8	Huntington	01-Jun-10	380	209	
314.8	Huntington	08-Jun-10	136	92	
314.8	Huntington	15-Jun-10	3,200	882	
314.8	Huntington	22-Jun-10	430	249	
314.8	Huntington	29-Jun-10	540	220	
			Geometric Mean	521	248
305.1	Huntington	06-Jul-10	20	4	
305.1	Huntington	13-Jul-10	92	20	
305.1	Huntington	20-Jul-10	16	12	
305.1	Huntington	22-Jul-10	330	4	
305.1	Huntington	27-Jul-10	8	4	
			Geometric Mean	38	7
314.8	Huntington	06-Jul-10	4	4	
314.8	Huntington	13-Jul-10	3,600	2,100	
314.8	Huntington	20-Jul-10	40	16	
314.8	Huntington	22-Jul-10	900	310	
314.8	Huntington	27-Jul-10	217	114	
			Geometric Mean	162	86
305.1	Huntington	03-Aug-10	43	4	
305.1	Huntington	10-Aug-10	4	4	
305.1	Huntington	17-Aug-10	44	8	
305.1	Huntington	24-Aug-10	16	4	
305.1	Huntington	31-Aug-10	8	4	
			Geometric Mean	16	5
314.8	Huntington	03-Aug-10	49	4	
314.8	Huntington	10-Aug-10	66	4	
314.8	Huntington	17-Aug-10	72	24	
314.8	Huntington	24-Aug-10	103	28	
314.8	Huntington	31-Aug-10	203	104	
			Geometric Mean	87	16
305.1	Huntington	07-Sep-10	8	4	
305.1	Huntington	14-Sep-10	4	4	
305.1	Huntington	21-Sep-10	4	4	

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
305.1	Huntington	23-Sep-10	4	4
305.1	Huntington	28-Sep-10	24	8
Geometric Mean			7	5
314.8	Huntington	07-Sep-10	52	4
314.8	Huntington	14-Sep-10	16	4
314.8	Huntington	21-Sep-10	49	4
314.8	Huntington	23-Sep-10	84	4
314.8	Huntington	28-Sep-10	164	68
Geometric Mean			56	7
305.1	Huntington	05-Oct-10	4	4
305.1	Huntington	12-Oct-10	8	4
305.1	Huntington	19-Oct-10	4	4
305.1	Huntington	21-Oct-10	4	4
305.1	Huntington	26-Oct-10	20	4
Geometric Mean			6	4
314.8	Huntington	05-Oct-10	66	12
314.8	Huntington	12-Oct-10	4	4
314.8	Huntington	19-Oct-10	24	4
314.8	Huntington	21-Oct-10	36	4
314.8	Huntington	26-Oct-10	390	152
Geometric Mean			39	10
462.6	Cincinnati	04-May-10	2,900	2,100
462.6	Cincinnati	11-May-10	146	84
462.6	Cincinnati	18-May-10	130	220
462.6	Cincinnati	20-May-10	230	140
462.6	Cincinnati	25-May-10	350	240
Geometric Mean			338	265
463.9	Cincinnati AquaRamp	04-May-10	2,100	3,100
463.9	Cincinnati AquaRamp	11-May-10	76	28
463.9	Cincinnati AquaRamp	18-May-10	500	157
463.9	Cincinnati AquaRamp	20-May-10	220	280
463.9	Cincinnati AquaRamp	25-May-10	110	360
Geometric Mean			287	268
469.9	Cincinnati Who-Day Dock	04-May-10	15,500	10,300
469.9	Cincinnati Who-Day Dock	11-May-10	1,000	690
469.9	Cincinnati Who-Day Dock	18-May-10	236	104
469.9	Cincinnati Who-Day Dock	20-May-10	300	320
469.9	Cincinnati Who-Day Dock	25-May-10	460	520
Geometric Mean			872	658
470	Cincinnati	04-May-10	1,400	2,300
470	Cincinnati	11-May-10	580	320
470	Cincinnati	18-May-10	210	112
470	Cincinnati	20-May-10	300	270
470	Cincinnati	25-May-10	400	450
Geometric Mean			459	398
477.5	Cincinnati	04-May-10	3,200	3,100
477.5	Cincinnati	11-May-10	80	31
477.5	Cincinnati	18-May-10	310	200
477.5	Cincinnati	20-May-10	200	320
477.5	Cincinnati	25-May-10	1,700	718
Geometric Mean			486	338
462.6	Cincinnati	01-Jun-10	66	84
462.6	Cincinnati	08-Jun-10	120	60
462.6	Cincinnati	15-Jun-10	700	770
462.6	Cincinnati	22-Jun-10	500	320
462.6	Cincinnati	29-Jun-10	1,200	709
Geometric Mean			319	245
463.9	Cincinnati AquaRamp	01-Jun-10	46	12
463.9	Cincinnati AquaRamp	08-Jun-10	136	88
463.9	Cincinnati AquaRamp	15-Jun-10	510	430
463.9	Cincinnati AquaRamp	22-Jun-10	200	230
463.9	Cincinnati AquaRamp	29-Jun-10	382	380
Geometric Mean			189	132
469.9	Cincinnati Who-Day Dock	01-Jun-10	116	20

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
469.9	Cincinnati Who-Day Dock	08-Jun-10	136	60
469.9	Cincinnati Who-Day Dock	15-Jun-10	600	450
469.9	Cincinnati Who-Day Dock	22-Jun-10	600	400
469.9	Cincinnati Who-Day Dock	29-Jun-10	1,800	1,700
Geometric Mean			400	206
470	Cincinnati	01-Jun-10	214	77
470	Cincinnati	08-Jun-10	166	110
470	Cincinnati	15-Jun-10	1,900	510
470	Cincinnati	22-Jun-10	800	727
470	Cincinnati	29-Jun-10	1,500	900
Geometric Mean			605	309
477.5	Cincinnati	01-Jun-10	530	320
477.5	Cincinnati	08-Jun-10	80	60
477.5	Cincinnati	15-Jun-10	1,200	700
477.5	Cincinnati	22-Jun-10	20,000	15,200
477.5	Cincinnati	29-Jun-10	3,200	2,500
Geometric Mean			1266	874
462.6	Cincinnati	06-Jul-10	16	16
462.6	Cincinnati	13-Jul-10	16	8
462.6	Cincinnati	20-Jul-10	56	28
462.6	Cincinnati	22-Jul-10	4,200	1,800
462.6	Cincinnati	27-Jul-10	132	52
Geometric Mean			96	51
463.9	Cincinnati AquaRamp	06-Jul-10	16	12
463.9	Cincinnati AquaRamp	13-Jul-10	8	4
463.9	Cincinnati AquaRamp	20-Jul-10	4	8
463.9	Cincinnati AquaRamp	22-Jul-10	3,500	918
463.9	Cincinnati AquaRamp	27-Jul-10	32	32
Geometric Mean			36	26
469.9	Cincinnati Who-Day Dock	06-Jul-10	52	40
469.9	Cincinnati Who-Day Dock	13-Jul-10	24	4
469.9	Cincinnati Who-Day Dock	20-Jul-10	48	20
469.9	Cincinnati Who-Day Dock	22-Jul-10	3,400	1,500
469.9	Cincinnati Who-Day Dock	27-Jul-10	80	20
Geometric Mean			110	39
470	Cincinnati	06-Jul-10	200	28
470	Cincinnati	13-Jul-10	71	92
470	Cincinnati	20-Jul-10	60	32
470	Cincinnati	22-Jul-10	1,400	1,200
470	Cincinnati	27-Jul-10	60	32
Geometric Mean			148	79
477.5	Cincinnati	06-Jul-10	173	34
477.5	Cincinnati	13-Jul-10	80	28
477.5	Cincinnati	20-Jul-10	152	46
477.5	Cincinnati	22-Jul-10	1,200	1,300
477.5	Cincinnati	27-Jul-10	77	8
Geometric Mean			181	54
462.6	Cincinnati	03-Aug-10	20	4
462.6	Cincinnati	10-Aug-10	8	4
462.6	Cincinnati	17-Aug-10	46	16
462.6	Cincinnati	24-Aug-10	4	12
462.6	Cincinnati	31-Aug-10	16	4
Geometric Mean			14	7
463.9	Cincinnati AquaRamp	03-Aug-10	40	4
463.9	Cincinnati AquaRamp	10-Aug-10	4	4
463.9	Cincinnati AquaRamp	17-Aug-10	30	12
463.9	Cincinnati AquaRamp	24-Aug-10	4	4
463.9	Cincinnati AquaRamp	31-Aug-10	4	12
Geometric Mean			9	6
469.9	Cincinnati Who-Day Dock	03-Aug-10	51	4
469.9	Cincinnati Who-Day Dock	10-Aug-10	12	8
469.9	Cincinnati Who-Day Dock	17-Aug-10	28	20
469.9	Cincinnati Who-Day Dock	24-Aug-10	8	4
469.9	Cincinnati Who-Day Dock	31-Aug-10	8	4

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
			Geometric Mean	6
470	Cincinnati	03-Aug-10	46	24
470	Cincinnati	10-Aug-10	16	12
470	Cincinnati	17-Aug-10	68	36
470	Cincinnati	24-Aug-10	12	8
470	Cincinnati	31-Aug-10	4	4
			Geometric Mean	13
477.5	Cincinnati	03-Aug-10	116	63
477.5	Cincinnati	10-Aug-10	12	8
477.5	Cincinnati	17-Aug-10	160	60
477.5	Cincinnati	24-Aug-10	88	40
477.5	Cincinnati	31-Aug-10	40	16
			Geometric Mean	29
462.6	Cincinnati	07-Sep-10	4	4
462.6	Cincinnati	14-Sep-10	4	4
462.6	Cincinnati	21-Sep-10	4	4
462.6	Cincinnati	23-Sep-10	43	12
462.6	Cincinnati	28-Sep-10	44	28
			Geometric Mean	7
463.9	Cincinnati AquaRamp	07-Sep-10	4	4
463.9	Cincinnati AquaRamp	14-Sep-10	4	4
463.9	Cincinnati AquaRamp	21-Sep-10	4	4
463.9	Cincinnati AquaRamp	23-Sep-10	4	4
463.9	Cincinnati AquaRamp	28-Sep-10	16	4
			Geometric Mean	4
469.9	Cincinnati Who-Day Dock	07-Sep-10	4	4
469.9	Cincinnati Who-Day Dock	14-Sep-10	4	4
469.9	Cincinnati Who-Day Dock	21-Sep-10	16	4
469.9	Cincinnati Who-Day Dock	23-Sep-10	20	16
469.9	Cincinnati Who-Day Dock	28-Sep-10	12	20
			Geometric Mean	7
470	Cincinnati	07-Sep-10	4	4
470	Cincinnati	14-Sep-10	4	20
470	Cincinnati	23-Sep-10	4	4
470	Cincinnati	28-Sep-10	43	32
477.5	Cincinnati	07-Sep-10	54	8
477.5	Cincinnati	14-Sep-10	44	16
477.5	Cincinnati	21-Sep-10	8	4
477.5	Cincinnati	23-Sep-10	12	12
477.5	Cincinnati	28-Sep-10	12	16
			Geometric Mean	10
462.6	Cincinnati	05-Oct-10	24	8
462.6	Cincinnati	12-Oct-10	44	32
462.6	Cincinnati	19-Oct-10	63	51
462.6	Cincinnati	21-Oct-10	4	4
462.6	Cincinnati	26-Oct-10	40	40
			Geometric Mean	18
463.9	Cincinnati AquaRamp	05-Oct-10	4	4
463.9	Cincinnati AquaRamp	12-Oct-10	4	4
463.9	Cincinnati AquaRamp	19-Oct-10	4	4
463.9	Cincinnati AquaRamp	21-Oct-10	16	4
463.9	Cincinnati AquaRamp	26-Oct-10	4	4
			Geometric Mean	4
469.9	Cincinnati Who-Day Dock	05-Oct-10	8	16
469.9	Cincinnati Who-Day Dock	12-Oct-10	4	4
469.9	Cincinnati Who-Day Dock	19-Oct-10	4	12
469.9	Cincinnati Who-Day Dock	21-Oct-10	32	4
469.9	Cincinnati Who-Day Dock	26-Oct-10	4	4
			Geometric Mean	7
470	Cincinnati	05-Oct-10	20	4
470	Cincinnati	12-Oct-10	4	4
470	Cincinnati	19-Oct-10	20	20
470	Cincinnati	21-Oct-10	24	8

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
470	Cincinnati	26-Oct-10	12	4
Geometric Mean			14	6
477.5	Cincinnati	05-Oct-10	8	4
477.5	Cincinnati	12-Oct-10	20	4
477.5	Cincinnati	19-Oct-10	4	4
477.5	Cincinnati	21-Oct-10	20	8
477.5	Cincinnati	26-Oct-10	20	4
Geometric Mean			12	5
594	Louisville	04-May-10	980	920
594	Louisville	12-May-10	200	88
594	Louisville	19-May-10	112	60
594	Louisville	25-May-10	310	230
594	Louisville	27-May-10	140	170
Geometric Mean			249	180
619.3	Louisville	04-May-10	490	650
619.3	Louisville	12-May-10	21	84
619.3	Louisville	19-May-10	104	104
619.3	Louisville	25-May-10	480	470
619.3	Louisville	27-May-10	240	280
Geometric Mean			165	237
594	Louisville	01-Jun-10	88	51
594	Louisville	08-Jun-10	60	66
594	Louisville	16-Jun-10	673	764
594	Louisville	22-Jun-10	184	172
594	Louisville	29-Jun-10	204	131
Geometric Mean			168	142
619.3	Louisville	01-Jun-10	230	270
619.3	Louisville	08-Jun-10	960	920
619.3	Louisville	16-Jun-10	873	764
619.3	Louisville	22-Jun-10	209	124
619.3	Louisville	29-Jun-10	1,870	226
Geometric Mean			596	351
594	Louisville	06-Jul-10	1,380	240
594	Louisville	13-Jul-10	108	20
594	Louisville	20-Jul-10	9	4
594	Louisville	22-Jul-10	164	108
594	Louisville	28-Jul-10	240	160
Geometric Mean			139	51
619.3	Louisville	06-Jul-10	20,000	4,300
619.3	Louisville	13-Jul-10	2,900	1,300
619.3	Louisville	20-Jul-10	120	48
619.3	Louisville	22-Jul-10	214	136
619.3	Louisville	28-Jul-10	140	66
Geometric Mean			731	299
594	Louisville	03-Aug-10	84	20
594	Louisville	10-Aug-10	20	12
594	Louisville	17-Aug-10	168	56
594	Louisville	24-Aug-10	80	30
594	Louisville	31-Aug-10	4	4
Geometric Mean			39	17
619.3	Louisville	03-Aug-10	100	69
619.3	Louisville	10-Aug-10	52	20
619.3	Louisville	17-Aug-10	92	77
619.3	Louisville	24-Aug-10	660	250
619.3	Louisville	31-Aug-10	1,000	1,100
Geometric Mean			199	124
594	Louisville	09-Sep-10	8	8
594	Louisville	14-Sep-10	4	4
594	Louisville	21-Sep-10	4	4
594	Louisville	23-Sep-10	340	360
619.3	Louisville	09-Sep-10	1,200	990
619.3	Louisville	14-Sep-10	28	24
619.3	Louisville	21-Sep-10	8	16

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
619.3	Louisville	23-Sep-10	300	88
594	Louisville	12-Oct-10	4	4
594	Louisville	14-Oct-10	4	4
594	Louisville	18-Oct-10	4	4
594	Louisville	20-Oct-10	4	4
594	Louisville	28-Oct-10	16	4
Geometric Mean			5	4
619.3	Louisville	12-Oct-10	230	170
619.3	Louisville	14-Oct-10	4	28
619.3	Louisville	18-Oct-10	97	74
619.3	Louisville	20-Oct-10	20	37
619.3	Louisville	28-Oct-10	150	68
Geometric Mean			48	62
791.5	Evansville	04-May-10	460	200
791.5	Evansville	11-May-10	104	63
791.5	Evansville	18-May-10	124	96
791.5	Evansville	20-May-10	100	104
791.5	Evansville	25-May-10	71	132
Geometric Mean			133	111
793.7	Evansville	04-May-10	700	220
793.7	Evansville	11-May-10	104	57
793.7	Evansville	18-May-10	128	80
793.7	Evansville	20-May-10	96	100
793.7	Evansville	25-May-10	71	92
Geometric Mean			145	98
791.5	Evansville	01-Jun-10	43	34
791.5	Evansville	08-Jun-10	34	48
791.5	Evansville	15-Jun-10	116	88
791.5	Evansville	22-Jun-10	44	56
791.5	Evansville	29-Jun-10	80	51
Geometric Mean			57	53
793.7	Evansville	01-Jun-10	97	86
793.7	Evansville	08-Jun-10	46	36
793.7	Evansville	15-Jun-10	140	71
793.7	Evansville	22-Jun-10	169	180
793.7	Evansville	29-Jun-10	1,000	1,100
Geometric Mean			160	134
791.5	Evansville	06-Jul-10	100	4
791.5	Evansville	13-Jul-10	52	48
791.5	Evansville	20-Jul-10	120	130
791.5	Evansville	22-Jul-10	89	66
791.5	Evansville	27-Jul-10	24	40
Geometric Mean			67	37
793.7	Evansville	06-Jul-10	11	6
793.7	Evansville	13-Jul-10	4,200	4,700
793.7	Evansville	20-Jul-10	3,400	4,200
793.7	Evansville	22-Jul-10	220	220
793.7	Evansville	27-Jul-10	108	144
Geometric Mean			327	327
791.5	Evansville	03-Aug-10	4	4
791.5	Evansville	10-Aug-10	16	8
791.5	Evansville	17-Aug-10	63	63
791.5	Evansville	24-Aug-10	32	37
791.5	Evansville	31-Aug-10	11	4
Geometric Mean			17	12
793.7	Evansville	03-Aug-10	48	36
793.7	Evansville	10-Aug-10	140	108
793.7	Evansville	17-Aug-10	148	74
793.7	Evansville	24-Aug-10	250	142
793.7	Evansville	31-Aug-10	6	20
Geometric Mean			68	61
791.5	Evansville	07-Sep-10	51	57
791.5	Evansville	14-Sep-10	20	20

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
791.5	Evansville	21-Sep-10	4	4
791.5	Evansville	23-Sep-10	124	128
791.5	Evansville	28-Sep-10	16	20
Geometric Mean			24	26
793.7	Evansville	07-Sep-10	300	400
793.7	Evansville	14-Sep-10	60	120
793.7	Evansville	21-Sep-10	36	19
793.7	Evansville	23-Sep-10	12	36
793.7	Evansville	28-Sep-10	24	16
Geometric Mean			45	55
791.5	Evansville	05-Oct-10	20	4
791.5	Evansville	12-Oct-10	4	19
791.5	Evansville	19-Oct-10	4	4
791.5	Evansville	21-Oct-10	12	10
791.5	Evansville	26-Oct-10	9	20
Geometric Mean			8	9
793.7	Evansville	05-Oct-10	20	8
793.7	Evansville	12-Oct-10	44	44
793.7	Evansville	19-Oct-10	249	291
793.7	Evansville	21-Oct-10	12	20
793.7	Evansville	26-Oct-10	9	20
Geometric Mean			30	33
1.4M	Pittsburgh	10-May-11	236	136
1.4M	Pittsburgh	24-May-11	1,200	700
4.3	Pittsburgh	10-May-11	171	100
4.3	Pittsburgh	24-May-11	1,000	900
1.4M	Pittsburgh	07-Jun-11	247	100
1.4M	Pittsburgh	14-Jun-11	430	80
1.4M	Pittsburgh	21-Jun-11	2,300	700
1.4M	Pittsburgh	23-Jun-11	800	400
1.4M	Pittsburgh	28-Jun-11	230	88
Geometric Mean			538	182
4.3	Pittsburgh	07-Jun-11	200	170
4.3	Pittsburgh	14-Jun-11	540	170
4.3	Pittsburgh	21-Jun-11	2,100	800
4.3	Pittsburgh	23-Jun-11	1,400	800
4.3	Pittsburgh	28-Jun-11	360	120
Geometric Mean			648	295
1.4M	Pittsburgh	05-Jul-11	7,100	3,100
1.4M	Pittsburgh	12-Jul-11	8,700	2,500
1.4M	Pittsburgh	19-Jul-11	9,600	2,100
1.4M	Pittsburgh	21-Jul-11	800	320
1.4M	Pittsburgh	26-Jul-11	5,500	2,400
Geometric Mean			4823	1657
4.3	Pittsburgh	05-Jul-11	12,000	4,200
4.3	Pittsburgh	12-Jul-11	8,400	4,300
4.3	Pittsburgh	19-Jul-11	4,900	1,900
4.3	Pittsburgh	21-Jul-11	1,600	500
4.3	Pittsburgh	26-Jul-11	2,600	2,100
Geometric Mean			4598	2048
1.4M	Pittsburgh	02-Aug-11	540	80
1.4M	Pittsburgh	09-Aug-11	9,300	2,800
1.4M	Pittsburgh	16-Aug-11	1,500	1,000
1.4M	Pittsburgh	23-Aug-11	3,400	700
1.4M	Pittsburgh	30-Aug-11	330	60
Geometric Mean			1532	393
4.3	Pittsburgh	02-Aug-11	210	40
4.3	Pittsburgh	09-Aug-11	7,000	2,100
4.3	Pittsburgh	16-Aug-11	2,000	1,100
4.3	Pittsburgh	23-Aug-11	1,500	1,000
4.3	Pittsburgh	30-Aug-11	370	110
Geometric Mean			1103	399

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
1.4M	Pittsburgh	06-Sep-11	20,000	20,000
1.4M	Pittsburgh	13-Sep-11	1,900	400
1.4M	Pittsburgh	20-Sep-11	3,400	2,500
1.4M	Pittsburgh	22-Sep-11	855	155
1.4M	Pittsburgh	27-Sep-11	5,600	1,400
Geometric Mean			3616	1341
4.3	Pittsburgh	06-Sep-11	20,000	20,000
4.3	Pittsburgh	13-Sep-11	1,800	300
4.3	Pittsburgh	20-Sep-11	5,900	3,500
4.3	Pittsburgh	22-Sep-11	873	118
4.3	Pittsburgh	27-Sep-11	2,500	1,200
Geometric Mean			3414	1244
1.4M	Pittsburgh	04-Oct-11	3,300	1,600
1.4M	Pittsburgh	11-Oct-11	272	160
1.4M	Pittsburgh	18-Oct-11	480	230
1.4M	Pittsburgh	20-Oct-11	3,600	2,000
1.4M	Pittsburgh	25-Oct-11	250	80
Geometric Mean			827	393
4.3	Pittsburgh	04-Oct-11	2,000	1,600
4.3	Pittsburgh	11-Oct-11	350	120
4.3	Pittsburgh	18-Oct-11	600	300
4.3	Pittsburgh	20-Oct-11	6,300	3,300
4.3	Pittsburgh	25-Oct-11	430	140
Geometric Mean			1026	484
86.8	Wheeling	03-May-11	84	12
86.8	Wheeling	10-May-11	100	68
86.8	Wheeling	17-May-11	1,600	1,400
86.8	Wheeling	24-May-11	800	280
86.8	Wheeling	31-May-11	850	104
Geometric Mean			391	127
92.8	Wheeling	03-May-11	176	52
92.8	Wheeling	10-May-11	208	84
92.8	Wheeling	17-May-11	2,700	1,200
92.8	Wheeling	24-May-11	650	420
92.8	Wheeling	31-May-11	250	204
Geometric Mean			438	214
86.8	Wheeling	07-Jun-11	84	64
86.8	Wheeling	14-Jun-11	12	8
86.8	Wheeling	21-Jun-11	4,400	2,100
86.8	Wheeling	23-Jun-11	96	108
86.8	Wheeling	28-Jun-11	152	20
Geometric Mean			145	75
92.8	Wheeling	07-Jun-11	270	108
92.8	Wheeling	14-Jun-11	873	390
92.8	Wheeling	21-Jun-11	3,000	1,600
92.8	Wheeling	23-Jun-11	1,600	2,400
92.8	Wheeling	28-Jun-11	17,000	7,300
Geometric Mean			1806	1034
86.8	Wheeling	05-Jul-11	20	4
86.8	Wheeling	12-Jul-11	4	8
86.8	Wheeling	19-Jul-11	340	232
86.8	Wheeling	21-Jul-11	52	12
86.8	Wheeling	26-Jul-11	44	4
Geometric Mean			36	13
92.8	Wheeling	05-Jul-11	52	16
92.8	Wheeling	12-Jul-11	1,300	480
92.8	Wheeling	19-Jul-11	20,000	20,000
92.8	Wheeling	21-Jul-11	200	60
92.8	Wheeling	26-Jul-11	1,300	470
Geometric Mean			811	337
86.8	Wheeling	02-Aug-11	1,060	700
86.8	Wheeling	09-Aug-11	12,200	2,900
86.8	Wheeling	16-Aug-11	230	36
86.8	Wheeling	23-Aug-11	214	48

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
86.8	Wheeling	30-Aug-11	76	8
		Geometric Mean	546	123
92.8	Wheeling	02-Aug-11	8	44
92.8	Wheeling	09-Aug-11	20,000	20,000
92.8	Wheeling	16-Aug-11	6,100	600
92.8	Wheeling	23-Aug-11	980	170
92.8	Wheeling	30-Aug-11	152	44
		Geometric Mean	680	331
86.8	Wheeling	06-Sep-11	3,500	6,600
86.8	Wheeling	13-Sep-11	300	116
86.8	Wheeling	20-Sep-11	590	40
86.8	Wheeling	22-Sep-11	108	52
86.8	Wheeling	27-Sep-11	6,900	2,200
		Geometric Mean	857	323
92.8	Wheeling	06-Sep-11	224	310
92.8	Wheeling	13-Sep-11	3,500	670
92.8	Wheeling	20-Sep-11	8,100	8,000
92.8	Wheeling	22-Sep-11	5,900	270
92.8	Wheeling	27-Sep-11	7,600	6,400
		Geometric Mean	3097	1235
86.8	Wheeling	04-Oct-11	1,400	228
86.8	Wheeling	11-Oct-11	96	40
86.8	Wheeling	18-Oct-11	290	240
86.8	Wheeling	20-Oct-11	160	144
86.8	Wheeling	25-Oct-11	96	16
		Geometric Mean	227	87
92.8	Wheeling	04-Oct-11	1,500	230
92.8	Wheeling	11-Oct-11	300	36
92.8	Wheeling	18-Oct-11	700	650
92.8	Wheeling	20-Oct-11	400	260
92.8	Wheeling	25-Oct-11	330	56
		Geometric Mean	529	151
305.1	Huntington	03-May-11	88	32
305.1	Huntington	10-May-11	32	12
305.1	Huntington	17-May-11	96	51
305.1	Huntington	24-May-11	349	226
305.1	Huntington	31-May-11	24	12
		Geometric Mean	74	35
314.8	Huntington	03-May-11	440	274
314.8	Huntington	10-May-11	280	132
314.8	Huntington	17-May-11	350	148
314.8	Huntington	24-May-11	3,400	1,336
314.8	Huntington	31-May-11	124	80
		Geometric Mean	449	225
305.1	Huntington	07-Jun-11	12	12
305.1	Huntington	14-Jun-11	8	4
305.1	Huntington	22-Jun-11	451	186
305.1	Huntington	23-Jun-11	177	69
305.1	Huntington	28-Jun-11	12	8
		Geometric Mean	39	22
314.8	Huntington	07-Jun-11	124	40
314.8	Huntington	14-Jun-11	24	16
314.8	Huntington	22-Jun-11	1,527	1,045
314.8	Huntington	23-Jun-11	180	103
314.8	Huntington	28-Jun-11	74	28
		Geometric Mean	143	72
305.1	Huntington	05-Jul-11	12	4
305.1	Huntington	12-Jul-11	89	60
305.1	Huntington	19-Jul-11	36	12
305.1	Huntington	21-Jul-11	77	40
305.1	Huntington	26-Jul-11	32	16
		Geometric Mean	39	18
314.8	Huntington	05-Jul-11	20	8
314.8	Huntington	12-Jul-11	1,800	755

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
314.8	Huntington	19-Jul-11	32	12
314.8	Huntington	21-Jul-11	755	450
314.8	Huntington	26-Jul-11	103	24
Geometric Mean			155	60
305.1	Huntington	02-Aug-11	4	4
305.1	Huntington	09-Aug-11	12	8
305.1	Huntington	16-Aug-11	12	4
305.1	Huntington	23-Aug-11	4	4
305.1	Huntington	30-Aug-11	4	4
Geometric Mean			6	5
314.8	Huntington	02-Aug-11	28	20
314.8	Huntington	09-Aug-11	16	16
314.8	Huntington	16-Aug-11	24	20
314.8	Huntington	23-Aug-11	88	66
314.8	Huntington	30-Aug-11	20	4
Geometric Mean			29	18
305.1	Huntington	06-Sep-11	84	40
305.1	Huntington	13-Sep-11	12	4
305.1	Huntington	20-Sep-11	410	216
305.1	Huntington	22-Sep-11	28	4
305.1	Huntington	27-Sep-11	92	20
Geometric Mean			64	19
314.8	Huntington	06-Sep-11	350	223
314.8	Huntington	13-Sep-11	86	57
314.8	Huntington	20-Sep-11	40	12
314.8	Huntington	22-Sep-11	52	16
314.8	Huntington	27-Sep-11	920	194
Geometric Mean			142	54
305.1	Huntington	04-Oct-11	24	16
305.1	Huntington	11-Oct-11	8	4
305.1	Huntington	18-Oct-11	74	40
305.1	Huntington	20-Oct-11	350	226
305.1	Huntington	25-Oct-11	88	48
Geometric Mean			53	31
314.8	Huntington	04-Oct-11	49	37
314.8	Huntington	11-Oct-11	52	28
314.8	Huntington	18-Oct-11	132	77
314.8	Huntington	20-Oct-11	600	530
314.8	Huntington	25-Oct-11	124	54
Geometric Mean			120	74
462.6	Cincinnati	03-May-11	1,300	754
462.6	Cincinnati	10-May-11		28
462.6	Cincinnati	17-May-11		156
462.6	Cincinnati	24-May-11	682	60
462.6	Cincinnati	31-May-11	92	88
Geometric Mean				112
463.9	Cincinnati AquaRamp	03-May-11	1,900	754
463.9	Cincinnati AquaRamp	10-May-11		136
463.9	Cincinnati AquaRamp	17-May-11		191
463.9	Cincinnati AquaRamp	24-May-11	190	140
463.9	Cincinnati AquaRamp	31-May-11	80	60
Geometric Mean				175
469.9	Cincinnati Who-Day Dock	03-May-11	5,800	4,900
469.9	Cincinnati Who-Day Dock	10-May-11		134
469.9	Cincinnati Who-Day Dock	17-May-11		140
469.9	Cincinnati Who-Day Dock	24-May-11	1,400	827
469.9	Cincinnati Who-Day Dock	31-May-11	80	74
Geometric Mean				355
470	Cincinnati	03-May-11	6,300	4,300
470	Cincinnati	10-May-11		320
470	Cincinnati	17-May-11		160
470	Cincinnati	24-May-11	2,800	580
470	Cincinnati	31-May-11	130	63
Geometric Mean				381

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
477.5	Cincinnati	03-May-11	2,700	2,000
477.5	Cincinnati	10-May-11		148
477.5	Cincinnati	17-May-11		110
477.5	Cincinnati	24-May-11	2,400	445
477.5	Cincinnati	31-May-11	140	68
Geometric Mean				250
462.6	Cincinnati	07-Jun-11	28	24
462.6	Cincinnati	14-Jun-11	63	49
462.6	Cincinnati	21-Jun-11	3,000	764
462.6	Cincinnati	23-Jun-11	7,400	1,800
462.6	Cincinnati	28-Jun-11	300	260
Geometric Mean			411	211
463.9	Cincinnati AquaRamp	07-Jun-11	16	4
463.9	Cincinnati AquaRamp	14-Jun-11	8	12
463.9	Cincinnati AquaRamp	21-Jun-11	945	480
463.9	Cincinnati AquaRamp	23-Jun-11	673	260
463.9	Cincinnati AquaRamp	28-Jun-11	168	211
Geometric Mean			106	66
469.9	Cincinnati Who-Day Dock	07-Jun-11	8	8
469.9	Cincinnati Who-Day Dock	14-Jun-11	44	12
469.9	Cincinnati Who-Day Dock	21-Jun-11	1,700	936
469.9	Cincinnati Who-Day Dock	23-Jun-11	2,900	1,500
469.9	Cincinnati Who-Day Dock	28-Jun-11	290	440
Geometric Mean			219	143
470	Cincinnati	07-Jun-11	16	28
470	Cincinnati	14-Jun-11	100	74
470	Cincinnati	21-Jun-11	1,500	430
470	Cincinnati	23-Jun-11	954	920
470	Cincinnati	28-Jun-11	240	370
Geometric Mean			223	198
477.5	Cincinnati	07-Jun-11	12	20
477.5	Cincinnati	14-Jun-11	74	84
477.5	Cincinnati	21-Jun-11	9,600	3,600
477.5	Cincinnati	23-Jun-11	4,300	2,000
477.5	Cincinnati	28-Jun-11	450	510
Geometric Mean			440	361
462.6	Cincinnati	05-Jul-11	48	76
462.6	Cincinnati	12-Jul-11	96	68
462.6	Cincinnati	19-Jul-11	48	20
462.6	Cincinnati	21-Jul-11	320	168
462.6	Cincinnati	26-Jul-11	56	36
Geometric Mean			83	57
463.9	Cincinnati AquaRamp	05-Jul-11	16	12
463.9	Cincinnati AquaRamp	12-Jul-11	52	68
463.9	Cincinnati AquaRamp	19-Jul-11	16	8
463.9	Cincinnati AquaRamp	21-Jul-11	380	208
463.9	Cincinnati AquaRamp	26-Jul-11	40	24
Geometric Mean			46	32
469.9	Cincinnati Who-Day Dock	05-Jul-11	206	88
469.9	Cincinnati Who-Day Dock	12-Jul-11	136	100
469.9	Cincinnati Who-Day Dock	19-Jul-11	530	330
469.9	Cincinnati Who-Day Dock	21-Jul-11	260	211
469.9	Cincinnati Who-Day Dock	26-Jul-11	370	156
Geometric Mean			270	157
470	Cincinnati	05-Jul-11	232	100
470	Cincinnati	12-Jul-11	63	36
470	Cincinnati	19-Jul-11	80	120
470	Cincinnati	21-Jul-11	230	174
470	Cincinnati	26-Jul-11	72	48
Geometric Mean			114	82
477.5	Cincinnati	05-Jul-11	144	100
477.5	Cincinnati	12-Jul-11	104	71
477.5	Cincinnati	19-Jul-11	80	120
477.5	Cincinnati	21-Jul-11	300	260

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
477.5	Cincinnati	26-Jul-11	270	150
Geometric Mean			158	127
462.6	Cincinnati	02-Aug-11	8	8
462.6	Cincinnati	09-Aug-11	270	130
462.6	Cincinnati	16-Aug-11	34	8
462.6	Cincinnati	23-Aug-11	28	28
462.6	Cincinnati	30-Aug-11	12	4
Geometric Mean			30	16
463.9	Cincinnati AquaRamp	02-Aug-11	4	4
463.9	Cincinnati AquaRamp	09-Aug-11	8	12
463.9	Cincinnati AquaRamp	16-Aug-11	4	4
463.9	Cincinnati AquaRamp	23-Aug-11	8	4
463.9	Cincinnati AquaRamp	30-Aug-11	4	4
Geometric Mean			5	5
469.9	Cincinnati Who-Day Dock	02-Aug-11	4	8
469.9	Cincinnati Who-Day Dock	09-Aug-11	2,100	118
469.9	Cincinnati Who-Day Dock	16-Aug-11	32	24
469.9	Cincinnati Who-Day Dock	23-Aug-11	60	12
469.9	Cincinnati Who-Day Dock	30-Aug-11	4	4
Geometric Mean			36	16
470	Cincinnati	02-Aug-11	16	4
470	Cincinnati	09-Aug-11	1,400	800
470	Cincinnati	16-Aug-11	12	12
470	Cincinnati	23-Aug-11	60	92
470	Cincinnati	30-Aug-11	12	20
Geometric Mean			45	37
477.5	Cincinnati	02-Aug-11	4	8
477.5	Cincinnati	09-Aug-11	5,500	3,000
477.5	Cincinnati	16-Aug-11	34	12
477.5	Cincinnati	23-Aug-11	152	88
477.5	Cincinnati	30-Aug-11	108	60
Geometric Mean			104	69
462.6	Cincinnati	06-Sep-11	60	66
462.6	Cincinnati	13-Sep-11	24	24
462.6	Cincinnati	20-Sep-11	76	132
462.6	Cincinnati	22-Sep-11	94	116
462.6	Cincinnati	27-Sep-11	180	116
Geometric Mean			71	78
463.9	Cincinnati AquaRamp	06-Sep-11	4	4
463.9	Cincinnati AquaRamp	13-Sep-11	24	20
463.9	Cincinnati AquaRamp	20-Sep-11	4	4
463.9	Cincinnati AquaRamp	22-Sep-11	4	4
463.9	Cincinnati AquaRamp	27-Sep-11	46	28
Geometric Mean			9	8
469.9	Cincinnati Who-Day Dock	06-Sep-11	31	12
469.9	Cincinnati Who-Day Dock	13-Sep-11	28	12
469.9	Cincinnati Who-Day Dock	20-Sep-11	36	12
469.9	Cincinnati Who-Day Dock	22-Sep-11	56	64
469.9	Cincinnati Who-Day Dock	27-Sep-11	2,200	845
Geometric Mean			83	39
470	Cincinnati	06-Sep-11	124	148
470	Cincinnati	13-Sep-11	28	12
470	Cincinnati	20-Sep-11	88	80
470	Cincinnati	22-Sep-11	144	200
470	Cincinnati	27-Sep-11	727	745
Geometric Mean			126	116
477.5	Cincinnati	06-Sep-11	234	83
477.5	Cincinnati	13-Sep-11	24	12
477.5	Cincinnati	20-Sep-11	1,500	909
477.5	Cincinnati	22-Sep-11	420	217
477.5	Cincinnati	27-Sep-11	6,000	3,200
Geometric Mean			463	229
462.6	Cincinnati	04-Oct-11	40	12
462.6	Cincinnati	11-Oct-11	51	60

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
462.6	Cincinnati	18-Oct-11	46	36
462.6	Cincinnati	20-Oct-11	230	211
462.6	Cincinnati	25-Oct-11	44	38
Geometric Mean			62	46
463.9	Cincinnati AquaRamp	04-Oct-11	4	4
463.9	Cincinnati AquaRamp	11-Oct-11	4	4
463.9	Cincinnati AquaRamp	18-Oct-11	88	43
463.9	Cincinnati AquaRamp	20-Oct-11	108	116
463.9	Cincinnati AquaRamp	25-Oct-11	92	49
Geometric Mean			27	21
469.9	Cincinnati Who-Day Dock	04-Oct-11	4	4
469.9	Cincinnati Who-Day Dock	11-Oct-11	16	4
469.9	Cincinnati Who-Day Dock	18-Oct-11	32	43
469.9	Cincinnati Who-Day Dock	20-Oct-11	132	128
469.9	Cincinnati Who-Day Dock	25-Oct-11	24	88
Geometric Mean			23	24
470	Cincinnati	04-Oct-11	20	8
470	Cincinnati	11-Oct-11	4	4
470	Cincinnati	18-Oct-11	37	24
470	Cincinnati	20-Oct-11	530	570
470	Cincinnati	25-Oct-11	68	39
Geometric Mean			40	28
477.5	Cincinnati	04-Oct-11	16	40
477.5	Cincinnati	11-Oct-11	4	4
477.5	Cincinnati	18-Oct-11	37	44
477.5	Cincinnati	20-Oct-11	1,040	673
477.5	Cincinnati	25-Oct-11	48	34
Geometric Mean			41	44
594	Louisville	10-May-11	220	170
594	Louisville	17-May-11	140	96
594	Louisville	19-May-11	140	80
594	Louisville	24-May-11	120	84
594	Louisville	31-May-11	410	420
Geometric Mean			184	136
619.3	Louisville	10-May-11	440	230
619.3	Louisville	17-May-11	210	130
619.3	Louisville	19-May-11	160	160
619.3	Louisville	24-May-11	211	112
619.3	Louisville	31-May-11	270	340
Geometric Mean			243	179
594	Louisville	07-Jun-11	12	10
594	Louisville	14-Jun-11	32	20
594	Louisville	21-Jun-11	92	84
594	Louisville	23-Jun-11	440	160
594	Louisville	28-Jun-11	68	64
Geometric Mean			64	44
619.3	Louisville	07-Jun-11	120	70
619.3	Louisville	14-Jun-11	28	20
619.3	Louisville	21-Jun-11	390	60
619.3	Louisville	23-Jun-11	450	150
619.3	Louisville	28-Jun-11	310	140
Geometric Mean			179	71
594	Louisville	05-Jul-11	28	32
594	Louisville	12-Jul-11	24	16
594	Louisville	20-Jul-11	84	36
594	Louisville	26-Jul-11	120	150
594	Louisville	28-Jul-11	880	20
Geometric Mean			90	35
619.3	Louisville	05-Jul-11	44	36
619.3	Louisville	12-Jul-11	210	36
619.3	Louisville	20-Jul-11	120	150
619.3	Louisville	26-Jul-11	120	230
619.3	Louisville	28-Jul-11	60	57
Geometric Mean			96	76

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
594	Louisville	03-Aug-11	24	16
594	Louisville	09-Aug-11	76	28
594	Louisville	11-Aug-11	48	16
594	Louisville	23-Aug-11	20	17
594	Louisville	30-Aug-11	180	20
Geometric Mean			50	19
619.3	Louisville	03-Aug-11	66	43
619.3	Louisville	09-Aug-11	4	4
619.3	Louisville	11-Aug-11	60	28
619.3	Louisville	23-Aug-11	140	120
619.3	Louisville	30-Aug-11	20	20
Geometric Mean			34	26
594	Louisville	13-Sep-11	28	8
594	Louisville	15-Sep-11	68	36
594	Louisville	20-Sep-11	28	28
594	Louisville	22-Sep-11	36	16
594	Louisville	27-Sep-11	180	120
Geometric Mean			51	27
619.3	Louisville	13-Sep-11	470	250
619.3	Louisville	15-Sep-11	180	56
619.3	Louisville	20-Sep-11	230	180
619.3	Louisville	22-Sep-11	540	380
619.3	Louisville	27-Sep-11	3,100	1,200
Geometric Mean			504	258
594	Louisville	04-Oct-11	32	4
594	Louisville	12-Oct-11	4	4
594	Louisville	18-Oct-11	4	4
594	Louisville	25-Oct-11	46	36
594	Louisville	27-Oct-11	80	44
Geometric Mean			18	10
619.3	Louisville	04-Oct-11	88	37
619.3	Louisville	12-Oct-11	24	16
619.3	Louisville	18-Oct-11	80	12
619.3	Louisville	25-Oct-11	92	100
619.3	Louisville	27-Oct-11	4,100	3,200
Geometric Mean			145	74
791.5	Evansville	03-May-11	530	430
791.5	Evansville	10-May-11	120	100
791.5	Evansville	17-May-11	57	46
791.5	Evansville	24-May-11	80	54
791.5	Evansville	31-May-11	140	20
Geometric Mean			132	73
793.7	Evansville	03-May-11	710	650
793.7	Evansville	10-May-11	176	148
793.7	Evansville	17-May-11	63	80
793.7	Evansville	24-May-11	231	234
793.7	Evansville	31-May-11	104	71
Geometric Mean			180	166
791.5	Evansville	07-Jun-11	26	17
791.5	Evansville	14-Jun-11	28	60
791.5	Evansville	21-Jun-11	100	156
791.5	Evansville	23-Jun-11	60	160
791.5	Evansville	28-Jun-11	144	203
Geometric Mean			58	88
793.7	Evansville	07-Jun-11	104	63
793.7	Evansville	14-Jun-11	130	170
793.7	Evansville	21-Jun-11	208	228
793.7	Evansville	23-Jun-11	410	370
793.7	Evansville	28-Jun-11	1,045	945
Geometric Mean			261	243
791.5	Evansville	05-Jul-11	71	51
791.5	Evansville	12-Jul-11	40	4
791.5	Evansville	19-Jul-11	48	36
791.5	Evansville	21-Jul-11	8	24

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
791.5	Evansville	26-Jul-11	20	4
Geometric Mean			29	15
793.7	Evansville	05-Jul-11	112	108
793.7	Evansville	12-Jul-11	300	104
793.7	Evansville	19-Jul-11	650	450
793.7	Evansville	21-Jul-11	128	88
793.7	Evansville	26-Jul-11	166	108
Geometric Mean			215	137
791.5	Evansville	02-Aug-11	11	6
791.5	Evansville	09-Aug-11	4	4
791.5	Evansville	16-Aug-11	4	4
791.5	Evansville	23-Aug-11	20	6
791.5	Evansville	30-Aug-11	17	8
Geometric Mean			9	5
793.7	Evansville	02-Aug-11	104	108
793.7	Evansville	09-Aug-11	124	156
793.7	Evansville	16-Aug-11	57	63
793.7	Evansville	23-Aug-11	120	96
793.7	Evansville	30-Aug-11	280	240
Geometric Mean			120	120
791.5	Evansville	09-Sep-11	20	9
791.5	Evansville	13-Sep-11	96	20
791.5	Evansville	20-Sep-11	124	84
791.5	Evansville	22-Sep-11	120	69
791.5	Evansville	27-Sep-11	450	390
Geometric Mean			105	53
793.7	Evansville	09-Sep-11	360	310
793.7	Evansville	13-Sep-11	80	80
793.7	Evansville	20-Sep-11	280	194
793.7	Evansville	22-Sep-11	203	189
793.7	Evansville	27-Sep-11	440	280
Geometric Mean			235	191
791.5	Evansville	04-Oct-11	20	13
791.5	Evansville	11-Oct-11	52	16
791.5	Evansville	18-Oct-11	150	51
791.5	Evansville	20-Oct-11	60	36
791.5	Evansville	25-Oct-11	64	18
Geometric Mean			57	23
793.7	Evansville	4-Oct-11	52	20
793.7	Evansville	11-Oct-11	32	12
793.7	Evansville	18-Oct-11	71	27
793.7	Evansville	20-Oct-11	112	88
793.7	Evansville	25-Oct-11	24	17
Geometric Mean			50	25
1.4M	Pittsburgh	01-May-12	157	64
1.4M	Pittsburgh	22-May-12	206	97
1.4M	Pittsburgh	24-May-12	153	97
1.4M	Pittsburgh	29-May-12	1,100	330
1.4M	Pittsburgh	31-May-12	1,500	800
Geometric Mean			382	174
4.3	Pittsburgh	01-May-12	80	60
4.3	Pittsburgh	22-May-12	97	57
4.3	Pittsburgh	24-May-12	122	63
4.3	Pittsburgh	29-May-12	900	360
4.3	Pittsburgh	31-May-12	1,500	600
Geometric Mean			264	136
1.4M	Pittsburgh	05-Jun-12	670	170
1.4M	Pittsburgh	12-Jun-12	630	170
1.4M	Pittsburgh	19-Jun-12	590	340
1.4M	Pittsburgh	21-Jun-12	80	70
1.4M	Pittsburgh	26-Jun-12	96	40
Geometric Mean			286	122
4.3	Pittsburgh	05-Jun-12	420	170
4.3	Pittsburgh	12-Jun-12	1,045	460

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
4.3	Pittsburgh	19-Jun-12	550	190
4.3	Pittsburgh	21-Jun-12	100	70
4.3	Pittsburgh	26-Jun-12	300	160
Geometric Mean			373	175
1.4M	Pittsburgh	03-Jul-12	160	60
1.4M	Pittsburgh	10-Jul-12	350	170
1.4M	Pittsburgh	17-Jul-12	340	150
1.4M	Pittsburgh	24-Jul-12	530	120
1.4M	Pittsburgh	31-Jul-12	470	180
Geometric Mean			343	127
4.3	Pittsburgh	03-Jul-12	124	51
4.3	Pittsburgh	17-Jul-12	310	60
4.3	Pittsburgh	19-Jul-12	2,600	1,700
4.3	Pittsburgh	24-Jul-12	420	210
4.3	Pittsburgh	31-Jul-12	580	230
Geometric Mean			476	191
1.4M	Pittsburgh	07-Aug-12	4,500	3,500
1.4M	Pittsburgh	14-Aug-12	490	160
1.4M	Pittsburgh	21-Aug-12	240	150
1.4M	Pittsburgh	23-Aug-12	280	120
1.4M	Pittsburgh	28-Aug-12	250	280
Geometric Mean			517	309
4.3	Pittsburgh	07-Aug-12	6,700	2,500
4.3	Pittsburgh	14-Aug-12	530	180
4.3	Pittsburgh	21-Aug-12	1,100	350
4.3	Pittsburgh	23-Aug-12	7,300	4,800
4.3	Pittsburgh	28-Aug-12	1,800	230
Geometric Mean			2198	705
1.4M	Pittsburgh	04-Sep-12	510	220
1.4M	Pittsburgh	11-Sep-12	470	130
1.4M	Pittsburgh	20-Sep-12	2,100	1,100
1.4M	Pittsburgh	25-Sep-12	236	100
1.4M	Pittsburgh	27-Sep-12	6,300	2,800
Geometric Mean			944	388
4.3	Pittsburgh	04-Sep-12	830	320
4.3	Pittsburgh	11-Sep-12	150	450
4.3	Pittsburgh	20-Sep-12	4,300	1,700
4.3	Pittsburgh	25-Sep-12	269	84
4.3	Pittsburgh	27-Sep-12	8,300	3,600
Geometric Mean			1036	594
1.4M	Pittsburgh	02-Oct-12	1,000	250
1.4M	Pittsburgh	09-Oct-12	420	160
1.4M	Pittsburgh	16-Oct-12	360	143
1.4M	Pittsburgh	23-Oct-12	380	160
4.3	Pittsburgh	02-Oct-12	1,200	270
4.3	Pittsburgh	09-Oct-12	1,100	310
4.3	Pittsburgh	16-Oct-12	247	47
4.3	Pittsburgh	23-Oct-12	380	120
86.8	Wheeling	01-May-12	4	4
86.8	Wheeling	08-May-12	100	24
86.8	Wheeling	15-May-12	30	24
86.8	Wheeling	22-May-12	80	12
86.8	Wheeling	29-May-12	52	4
Geometric Mean			35	10
92.8	Wheeling	01-May-12	900	718
92.8	Wheeling	08-May-12	6,000	6,000
92.8	Wheeling	15-May-12	260	60
92.8	Wheeling	22-May-12	104	24
92.8	Wheeling	29-May-12	96	40
Geometric Mean			426	190
86.8	Wheeling	05-Jun-12	110	40
86.8	Wheeling	12-Jun-12	4	4
86.8	Wheeling	19-Jun-12	36	8

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
86.8	Wheeling	21-Jun-12	8	20
86.8	Wheeling	26-Jun-12	60	12
Geometric Mean			24	13
92.8	Wheeling	05-Jun-12	140	180
92.8	Wheeling	12-Jun-12	410	136
92.8	Wheeling	19-Jun-12	2,700	1,100
92.8	Wheeling	21-Jun-12	72	44
92.8	Wheeling	26-Jun-12	16	4
Geometric Mean			178	86
86.8	Wheeling	02-Jul-12	52	16
86.8	Wheeling	10-Jul-12	4	16
86.8	Wheeling	17-Jul-12	12	12
86.8	Wheeling	24-Jul-12	56	4
86.8	Wheeling	31-Jul-12	30	16
Geometric Mean			21	11
92.8	Wheeling	02-Jul-12	300	28
92.8	Wheeling	10-Jul-12	320	266
92.8	Wheeling	17-Jul-12	280	44
92.8	Wheeling	24-Jul-12	130	48
92.8	Wheeling	31-Jul-12	1,000	250
Geometric Mean			323	83
86.8	Wheeling	07-Aug-12	330	32
86.8	Wheeling	14-Aug-12	4	10
86.8	Wheeling	21-Aug-12	72	4
86.8	Wheeling	23-Aug-12	40	4
86.8	Wheeling	28-Aug-12	84	4
Geometric Mean			50	7
92.8	Wheeling	07-Aug-12	300	40
92.8	Wheeling	14-Aug-12	168	44
92.8	Wheeling	21-Aug-12	240	8
92.8	Wheeling	23-Aug-12	800	600
92.8	Wheeling	28-Aug-12	11,400	4,900
Geometric Mean			643	133
86.8	Wheeling	04-Sep-12	16	4
86.8	Wheeling	11-Sep-12	12	10
86.8	Wheeling	18-Sep-12	32	71
86.8	Wheeling	20-Sep-12	16	8
86.8	Wheeling	25-Sep-12	8	4
Geometric Mean			15	10
92.8	Wheeling	04-Sep-12	108	36
92.8	Wheeling	11-Sep-12	54	34
92.8	Wheeling	18-Sep-12	1,800	300
92.8	Wheeling	20-Sep-12	1,700	164
92.8	Wheeling	25-Sep-12	200	32
Geometric Mean			324	72
86.8	Wheeling	02-Oct-12	36	12
86.8	Wheeling	09-Oct-12	8	8
86.8	Wheeling	16-Oct-12	20	4
86.8	Wheeling	23-Oct-12	16	16
86.8	Wheeling	30-Oct-12	490	340
Geometric Mean			34	18
92.8	Wheeling	02-Oct-12	197	56
92.8	Wheeling	09-Oct-12	390	148
92.8	Wheeling	16-Oct-12	12	20
92.8	Wheeling	23-Oct-12	40	16
92.8	Wheeling	30-Oct-12	540	320
Geometric Mean			115	61
305.1	Huntington	01-May-12	56	36
305.1	Huntington	08-May-12	217	206
305.1	Huntington	15-May-12	24	20
305.1	Huntington	22-May-12	91	74
305.1	Huntington	29-May-12	8	8
Geometric Mean			46	39
314.8	Huntington	01-May-12	226	106

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
314.8	Huntington	08-May-12	1,800	918
314.8	Huntington	15-May-12	370	209
314.8	Huntington	22-May-12	131	111
314.8	Huntington	29-May-12	114	20
Geometric Mean			295	135
305.1	Huntington	05-Jun-12	12	4
305.1	Huntington	12-Jun-12	4	4
305.1	Huntington	19-Jun-12	36	4
305.1	Huntington	21-Jun-12	28	8
305.1	Huntington	26-Jun-12	20	37
Geometric Mean			16	7
314.8	Huntington	05-Jun-12	60	16
314.8	Huntington	12-Jun-12	520	600
314.8	Huntington	19-Jun-12	220	131
314.8	Huntington	21-Jun-12	80	20
314.8	Huntington	26-Jun-12	172	124
Geometric Mean			157	79
305.1	Huntington	03-Jul-12	4	4
305.1	Huntington	10-Jul-12	20	16
305.1	Huntington	17-Jul-12	4	4
305.1	Huntington	24-Jul-12	32	12
305.1	Huntington	31-Jul-12	51	16
Geometric Mean			14	9
314.8	Huntington	03-Jul-12	1,009	214
314.8	Huntington	10-Jul-12	283	160
314.8	Huntington	17-Jul-12	36	4
314.8	Huntington	24-Jul-12	32	8
314.8	Huntington	31-Jul-12	137	71
Geometric Mean			135	38
305.1	Huntington	07-Aug-12	8	4
305.1	Huntington	14-Aug-12	4	4
305.1	Huntington	21-Aug-12	4	4
305.1	Huntington	23-Aug-12	20	4
305.1	Huntington	28-Aug-12	4	4
Geometric Mean			6	4
314.8	Huntington	07-Aug-12	74	28
314.8	Huntington	14-Aug-12	577	477
314.8	Huntington	21-Aug-12	8	4
314.8	Huntington	23-Aug-12	109	24
314.8	Huntington	28-Aug-12	28	4
Geometric Mean			64	22
305.1	Huntington	04-Sep-12	32	20
305.1	Huntington	11-Sep-12	4	4
305.1	Huntington	18-Sep-12	169	57
305.1	Huntington	20-Sep-12	43	24
305.1	Huntington	25-Sep-12	4	4
Geometric Mean			21	13
314.8	Huntington	04-Sep-12	430	197
314.8	Huntington	11-Sep-12	12	4
314.8	Huntington	18-Sep-12	520	209
314.8	Huntington	20-Sep-12	94	40
314.8	Huntington	25-Sep-12	16	4
Geometric Mean			83	30
305.1	Huntington	02-Oct-12	12	4
305.1	Huntington	09-Oct-12	4	4
305.1	Huntington	16-Oct-12	4	4
305.1	Huntington	23-Oct-12	4	4
305.1	Huntington	30-Oct-12	80	20
Geometric Mean			9	6
314.8	Huntington	02-Oct-12	370	211
314.8	Huntington	09-Oct-12	8	4
314.8	Huntington	16-Oct-12	510	249
314.8	Huntington	23-Oct-12	20	4
314.8	Huntington	30-Oct-12	630	94

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
			Geometric Mean	
			114	38
462.6	Cincinnati	01-May-12	160	217
462.6	Cincinnati	08-May-12	1,300	1,300
462.6	Cincinnati	15-May-12	450	460
462.6	Cincinnati	22-May-12	57	4
462.6	Cincinnati	29-May-12	80	68
			Geometric Mean	
			212	129
470	Cincinnati	01-May-12	900	500
470	Cincinnati	08-May-12	800	550
470	Cincinnati	15-May-12	2,600	590
470	Cincinnati	22-May-12	88	8
470	Cincinnati	29-May-12	92	60
			Geometric Mean	
			433	151
477.5	Cincinnati	01-May-12	700	360
477.5	Cincinnati	08-May-12	2,500	1,000
477.5	Cincinnati	15-May-12	370	718
477.5	Cincinnati	22-May-12	37	43
477.5	Cincinnati	29-May-12	20	20
			Geometric Mean	
			217	186
462.6	Cincinnati	05-Jun-12	72	20
462.6	Cincinnati	12-Jun-12	12	4
462.6	Cincinnati	19-Jun-12	16	16
462.6	Cincinnati	21-Jun-12	16	12
462.6	Cincinnati	26-Jun-12	4	4
			Geometric Mean	
			15	9
470	Cincinnati	05-Jun-12	28	16
470	Cincinnati	12-Jun-12	54	24
470	Cincinnati	19-Jun-12	66	60
470	Cincinnati	21-Jun-12	28	8
470	Cincinnati	26-Jun-12	4	8
			Geometric Mean	
			26	17
477.5	Cincinnati	05-Jun-12	120	40
477.5	Cincinnati	12-Jun-12	51	31
477.5	Cincinnati	19-Jun-12	92	88
477.5	Cincinnati	21-Jun-12	12	12
477.5	Cincinnati	26-Jun-12	8	8
			Geometric Mean	
			35	25
462.6	Cincinnati	02-Jul-12	12	12
462.6	Cincinnati	10-Jul-12	4	4
462.6	Cincinnati	17-Jul-12	80	56
462.6	Cincinnati	24-Jul-12	108	4
462.6	Cincinnati	31-Jul-12	74	20
			Geometric Mean	
			31	12
470	Cincinnati	02-Jul-12	83	83
470	Cincinnati	10-Jul-12	4	4
470	Cincinnati	17-Jul-12	16	32
470	Cincinnati	24-Jul-12	77	32
470	Cincinnati	31-Jul-12	12	4
			Geometric Mean	
			22	17
477.5	Cincinnati	02-Jul-12	480	330
477.5	Cincinnati	10-Jul-12	40	24
477.5	Cincinnati	17-Jul-12	100	68
477.5	Cincinnati	24-Jul-12	48	40
477.5	Cincinnati	31-Jul-12	1,700	745
			Geometric Mean	
			173	110
462.6	Cincinnati	07-Aug-12	745	636
462.6	Cincinnati	14-Aug-12	12	16
462.6	Cincinnati	21-Aug-12	8	8
462.6	Cincinnati	23-Aug-12	4	4
462.6	Cincinnati	28-Aug-12	180	180
			Geometric Mean	
			35	36
470	Cincinnati	07-Aug-12	24	12
470	Cincinnati	14-Aug-12	4	28
470	Cincinnati	21-Aug-12	4	4

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
470	Cincinnati	23-Aug-12	4	4
470	Cincinnati	28-Aug-12	120	71
Geometric Mean			11	13
477.5	Cincinnati	07-Aug-12	16	28
477.5	Cincinnati	14-Aug-12	16	12
477.5	Cincinnati	21-Aug-12	16	8
477.5	Cincinnati	23-Aug-12	4	8
477.5	Cincinnati	28-Aug-12	80	84
Geometric Mean			17	18
462.6	Cincinnati	04-Sep-12	166	168
462.6	Cincinnati	11-Sep-12	20	20
462.6	Cincinnati	18-Sep-12	12	4
462.6	Cincinnati	20-Sep-12	16	16
462.6	Cincinnati	25-Sep-12	4	8
Geometric Mean			19	18
470	Cincinnati	04-Sep-12	3,300	873
470	Cincinnati	11-Sep-12	63	52
470	Cincinnati	18-Sep-12	12	12
470	Cincinnati	20-Sep-12	4	4
470	Cincinnati	25-Sep-12	8	16
Geometric Mean			38	32
477.5	Cincinnati	04-Sep-12	8,100	4,100
477.5	Cincinnati	11-Sep-12	172	96
477.5	Cincinnati	18-Sep-12	60	20
477.5	Cincinnati	20-Sep-12	24	12
477.5	Cincinnati	25-Sep-12	112	31
Geometric Mean			186	78
462.6	Cincinnati	02-Oct-12	152	100
462.6	Cincinnati	09-Oct-12	4	4
462.6	Cincinnati	16-Oct-12	8	8
462.6	Cincinnati	23-Oct-12	8	20
462.6	Cincinnati	29-Oct-12	4	4
Geometric Mean			11	12
470	Cincinnati	02-Oct-12	4,300	3,400
470	Cincinnati	09-Oct-12	36	16
470	Cincinnati	16-Oct-12	360	243
470	Cincinnati	23-Oct-12	4	4
470	Cincinnati	29-Oct-12	24	12
Geometric Mean			88	58
477.5	Cincinnati	02-Oct-12	13,800	9,800
477.5	Cincinnati	09-Oct-12	12	4
477.5	Cincinnati	16-Oct-12	330	360
477.5	Cincinnati	23-Oct-12	32	8
477.5	Cincinnati	29-Oct-12	157	112
Geometric Mean			194	105
594	Louisville	01-May-12	24	24
594	Louisville	08-May-12	240	330
594	Louisville	15-May-12	230	310
594	Louisville	22-May-12	17	24
594	Louisville	30-May-12	16	3,300
Geometric Mean			51	181
619.3	Louisville	01-May-12	240	220
619.3	Louisville	08-May-12	340	250
619.3	Louisville	15-May-12	150	130
619.3	Louisville	22-May-12	28	32
619.3	Louisville	30-May-12	20	3,100
Geometric Mean			93	235
594	Louisville	05-Jun-12	68	24
594	Louisville	12-Jun-12	16	10
594	Louisville	20-Jun-12	310	260
594	Louisville	26-Jun-12	92	4
594	Louisville	28-Jun-12	4	4
Geometric Mean			42	16
619.3	Louisville	05-Jun-12	84	77

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
619.3	Louisville	12-Jun-12	1,000	600
619.3	Louisville	20-Jun-12	390	380
619.3	Louisville	26-Jun-12	80	24
619.3	Louisville	28-Jun-12	4	4
Geometric Mean			101	70
594	Louisville	02-Jul-12	20	20
594	Louisville	10-Jul-12	24	12
594	Louisville	12-Jul-12	48	24
594	Louisville	17-Jul-12	20	20
594	Louisville	19-Jul-12	40	12
Geometric Mean			28	17
619.3	Louisville	02-Jul-12	1,400	900
619.3	Louisville	10-Jul-12	16	24
619.3	Louisville	12-Jul-12	150	170
619.3	Louisville	17-Jul-12	450	128
619.3	Louisville	19-Jul-12	13,000	1,600
Geometric Mean			456	237
594	Louisville	07-Aug-12	196	4
594	Louisville	14-Aug-12	4	4
594	Louisville	21-Aug-12	80	30
594	Louisville	23-Aug-12	60	10
594	Louisville	28-Aug-12	32	4
Geometric Mean			41	7
619.3	Louisville	07-Aug-12	28	16
619.3	Louisville	14-Aug-12	80	20
619.3	Louisville	21-Aug-12	48	20
619.3	Louisville	23-Aug-12	56	28
619.3	Louisville	28-Aug-12	152	120
Geometric Mean			62	29
594	Louisville	05-Sep-12	12	4
594	Louisville	11-Sep-12	4	4
594	Louisville	19-Sep-12	52	16
594	Louisville	25-Sep-12	4	4
594	Louisville	27-Sep-12	160	104
Geometric Mean			17	10
619.3	Louisville	05-Sep-12	300	80
619.3	Louisville	11-Sep-12	120	84
619.3	Louisville	19-Sep-12	430	250
619.3	Louisville	25-Sep-12	230	177
619.3	Louisville	27-Sep-12	1,100	1,500
Geometric Mean			330	214
594	Louisville	02-Oct-12	52	24
594	Louisville	09-Oct-12	10	100
594	Louisville	11-Oct-12	4	4
594	Louisville	16-Oct-12	4	8
594	Louisville	18-Oct-12	8	4
Geometric Mean			9	13
619.3	Louisville	02-Oct-12	540	260
619.3	Louisville	09-Oct-12	9	9
619.3	Louisville	11-Oct-12	20	8
619.3	Louisville	16-Oct-12	12	4
619.3	Louisville	18-Oct-12	71	57
Geometric Mean			38	21
791.5	Evansville	01-May-12	9	12
791.5	Evansville	08-May-12	60	290
791.5	Evansville	15-May-12	72	74
791.5	Evansville	22-May-12	16	20
791.5	Evansville	29-May-12	36	28
Geometric Mean			30	43
793.7	Evansville	01-May-12	116	28
793.7	Evansville	08-May-12	170	200
793.7	Evansville	15-May-12	70	30
793.7	Evansville	22-May-12	20	60
793.7	Evansville	29-May-12	1,218	480

Appendix G. Ohio River Bacteria Data, 2010-2014					
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	127	86
791.5	Evansville	05-Jun-12	8	32	
791.5	Evansville	12-Jun-12	100	104	
791.5	Evansville	19-Jun-12	18	6	
791.5	Evansville	21-Jun-12	8	8	
791.5	Evansville	26-Jun-12	10	6	
			Geometric Mean	16	16
793.7	Evansville	05-Jun-12	68	64	
793.7	Evansville	12-Jun-12	520	645	
793.7	Evansville	19-Jun-12	96	64	
793.7	Evansville	21-Jun-12	20	12	
793.7	Evansville	26-Jun-12	96	32	
			Geometric Mean	92	63
791.5	Evansville	02-Jul-12	28	4	
791.5	Evansville	10-Jul-12	8	4	
791.5	Evansville	17-Jul-12	44	24	
791.5	Evansville	24-Jul-12	12	12	
791.5	Evansville	31-Jul-12	70	24	
			Geometric Mean	24	10
793.7	Evansville	02-Jul-12	32	8	
793.7	Evansville	10-Jul-12	80	12	
793.7	Evansville	17-Jul-12	2,500	918	
793.7	Evansville	24-Jul-12	470	700	
793.7	Evansville	31-Jul-12	500	236	
			Geometric Mean	273	108
791.5	Evansville	07-Aug-12	16	8	
791.5	Evansville	14-Aug-12	8	8	
791.5	Evansville	21-Aug-12	4	4	
791.5	Evansville	23-Aug-12	4	10	
791.5	Evansville	28-Aug-12	16	24	
			Geometric Mean	8	9
793.7	Evansville	07-Aug-12	640	1,000	
793.7	Evansville	14-Aug-12	900	673	
793.7	Evansville	21-Aug-12	320	116	
793.7	Evansville	23-Aug-12	128	112	
793.7	Evansville	28-Aug-12	964	390	
			Geometric Mean	469	321
791.5	Evansville	04-Sep-12	92	72	
791.5	Evansville	11-Sep-12	40	43	
791.5	Evansville	18-Sep-12	130	44	
791.5	Evansville	20-Sep-12	40	16	
791.5	Evansville	25-Sep-12	8	4	
			Geometric Mean	43	24
793.7	Evansville	04-Sep-12	500	580	
793.7	Evansville	11-Sep-12	320	370	
793.7	Evansville	18-Sep-12	7,700	6,300	
793.7	Evansville	20-Sep-12	104	88	
793.7	Evansville	25-Sep-12	136	108	
			Geometric Mean	445	419
791.5	Evansville	02-Oct-12	8	20	
791.5	Evansville	09-Oct-12	16	4	
791.5	Evansville	16-Oct-12	12	8	
791.5	Evansville	23-Oct-12	16	12	
791.5	Evansville	30-Oct-12	32	50	
			Geometric Mean	15	13
793.7	Evansville	02-Oct-12	700	240	
793.7	Evansville	09-Oct-12	172	100	
793.7	Evansville	16-Oct-12	224	220	
793.7	Evansville	23-Oct-12	80	80	
793.7	Evansville	30-Oct-12	48	46	
			Geometric Mean	160	114
1.4M	Pittsburgh	02-Apr-13	208	36	
1.4M	Pittsburgh	09-Apr-13	60	32	
1.4M	Pittsburgh	16-Apr-13	370	160	

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
1.4M	Pittsburgh	23-Apr-13	184	72
1.4M	Pittsburgh	30-Apr-13	360	120
Geometric Mean			198	69
4.3	Pittsburgh	02-Apr-13	430	120
4.3	Pittsburgh	09-Apr-13	54	24
4.3	Pittsburgh	16-Apr-13	290	163
4.3	Pittsburgh	23-Apr-13	160	60
4.3	Pittsburgh	30-Apr-13	1,100	251
Geometric Mean			260	93
1.4M	Pittsburgh	07-May-13	92	12
1.4M	Pittsburgh	14-May-13	355	131
1.4M	Pittsburgh	21-May-13	217	60
1.4M	Pittsburgh	23-May-13	6,100	1,600
1.4M	Pittsburgh	28-May-13	509	78
Geometric Mean			466	103
4.3	Pittsburgh	07-May-13	108	28
4.3	Pittsburgh	14-May-13	275	144
4.3	Pittsburgh	21-May-13	225	32
4.3	Pittsburgh	23-May-13	7,200	2,700
4.3	Pittsburgh	28-May-13	573	74
Geometric Mean			488	121
1.4M	Pittsburgh	04-Jun-13	310	53
1.4M	Pittsburgh	11-Jun-13	3,900	455
1.4M	Pittsburgh	18-Jun-13	440	54
1.4M	Pittsburgh	20-Jun-13	236	25
1.4M	Pittsburgh	25-Jun-13	318	50
Geometric Mean			525	70
4.3	Pittsburgh	04-Jun-13	270	69
4.3	Pittsburgh	11-Jun-13	4,600	609
4.3	Pittsburgh	18-Jun-13	490	152
4.3	Pittsburgh	20-Jun-13	106	291
4.3	Pittsburgh	25-Jun-13	264	37
Geometric Mean			443	147
1.4M	Pittsburgh	02-Jul-13	5,400	636
1.4M	Pittsburgh	09-Jul-13	9,000	3,500
1.4M	Pittsburgh	16-Jul-13	220	72
4.3	Pittsburgh	02-Jul-13	5,700	1,000
4.3	Pittsburgh	09-Jul-13	7,900	3,100
1.4M	Pittsburgh	17-Sep-13	2,500	418
1.4M	Pittsburgh	19-Sep-13	273	139
1.4M	Pittsburgh	24-Sep-13	1,100	582
4.3	Pittsburgh	17-Sep-13	418	2,700
4.3	Pittsburgh	19-Sep-13	182	100
4.3	Pittsburgh	24-Sep-13	1,900	455
1.4M	Pittsburgh	01-Oct-13	153	89
1.4M	Pittsburgh	08-Oct-13	20,000	3,200
1.4M	Pittsburgh	15-Oct-13	267	60
1.4M	Pittsburgh	22-Oct-13	250	116
1.4M	Pittsburgh	29-Oct-13	84	46
Geometric Mean			443	156
4.3	Pittsburgh	01-Oct-13	227	54
4.3	Pittsburgh	08-Oct-13	3,700	1,900
4.3	Pittsburgh	15-Oct-13	261	84
4.3	Pittsburgh	22-Oct-13	219	88
4.3	Pittsburgh	29-Oct-13	92	44
Geometric Mean			338	127
86.8	Wheeling	02-Apr-13	192	24
86.8	Wheeling	09-Apr-13	16	4
86.8	Wheeling	16-Apr-13	310	224
86.8	Wheeling	23-Apr-13	68	12

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
86.8	Wheeling	30-Apr-13	57	64
Geometric Mean			82	28
92.8	Wheeling	09-Apr-13	83	36
92.8	Wheeling	02-Apr-13	20	16
92.8	Wheeling	16-Apr-13	130	280
92.8	Wheeling	23-Apr-13	972	430
92.8	Wheeling	30-Apr-13	4,200	300
Geometric Mean			245	116
86.8	Wheeling	07-May-13	12	8
86.8	Wheeling	14-May-13	4	16
86.8	Wheeling	21-May-13	48	56
86.8	Wheeling	23-May-13	40	8
86.8	Wheeling	28-May-13	96	44
Geometric Mean			25	19
92.8	Wheeling	07-May-13	1,400	2,800
92.8	Wheeling	14-May-13	56	48
92.8	Wheeling	21-May-13	217	16
92.8	Wheeling	23-May-13	580	174
92.8	Wheeling	28-May-13	80	136
Geometric Mean			240	138
86.8	Wheeling	04-Jun-13	16	8
86.8	Wheeling	11-Jun-13	208	24
86.8	Wheeling	18-Jun-13	192	36
86.8	Wheeling	20-Jun-13	36	12
86.8	Wheeling	25-Jun-13	52	12
Geometric Mean			65	16
92.8	Wheeling	04-Jun-13	991	460
92.8	Wheeling	11-Jun-13	490	140
92.8	Wheeling	18-Jun-13	700	320
92.8	Wheeling	20-Jun-13	100	234
92.8	Wheeling	25-Jun-13	380	680
Geometric Mean			419	319
86.8	Wheeling	02-Jul-13	790	152
86.8	Wheeling	09-Jul-13	208	52
86.8	Wheeling	16-Jul-13	912	136
86.8	Wheeling	23-Jul-13	250	56
86.8	Wheeling	30-Jul-13	69	17
Geometric Mean			304	63
92.8	Wheeling	02-Jul-13	2,400	960
92.8	Wheeling	09-Jul-13	13,500	8,000
92.8	Wheeling	19-Jul-13	1,560	420
92.8	Wheeling	23-Jul-13	1,600	920
92.8	Wheeling	30-Jul-13	730	240
Geometric Mean			2261	934
86.8	Wheeling	06-Aug-13	8	4
86.8	Wheeling	13-Aug-13	28	40
86.8	Wheeling	20-Aug-13	176	44
86.8	Wheeling	22-Aug-13	20	4
86.8	Wheeling	27-Aug-13	36	24
Geometric Mean			31	15
92.8	Wheeling	06-Aug-13	1,500	320
92.8	Wheeling	13-Aug-13	116	64
92.8	Wheeling	20-Aug-13	18,000	7,900
92.8	Wheeling	22-Aug-13	1,340	670
92.8	Wheeling	27-Aug-13	142	96
Geometric Mean			902	401
86.8	Wheeling	03-Sep-13	52	48
86.8	Wheeling	10-Sep-13	144	20
86.8	Wheeling	17-Sep-13	20	17
86.8	Wheeling	19-Sep-13	20	20
86.8	Wheeling	24-Sep-13	303	137
Geometric Mean			62	34
92.8	Wheeling	03-Sep-13	214	96
92.8	Wheeling	10-Sep-13	450	60

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
92.8	Wheeling	17-Sep-13	20	24
92.8	Wheeling	19-Sep-13	19	17
92.8	Wheeling	24-Sep-13	20,000	206
Geometric Mean			236	55
86.8	Wheeling	01-Oct-13	4	10
86.8	Wheeling	08-Oct-13	20	32
86.8	Wheeling	15-Oct-13	32	144
86.8	Wheeling	22-Oct-13	104	56
86.8	Wheeling	29-Oct-13	24	4
Geometric Mean			23	25
92.8	Wheeling	01-Oct-13	20	4
92.8	Wheeling	08-Oct-13	66	40
92.8	Wheeling	15-Oct-13	124	510
92.8	Wheeling	22-Oct-13	63	52
92.8	Wheeling	29-Oct-13	24	16
Geometric Mean			48	37
305.1	Huntington	02-Apr-13	4	4
305.1	Huntington	09-Apr-13	4	4
305.1	Huntington	16-Apr-13	24	4
305.1	Huntington	23-Apr-13	12	8
305.1	Huntington	30-Apr-13	24	12
Geometric Mean			10	6
314.8	Huntington	02-Apr-13	84	8
314.8	Huntington	09-Apr-13	32	4
314.8	Huntington	16-Apr-13	57	28
314.8	Huntington	23-Apr-13	80	16
314.8	Huntington	30-Apr-13	36	16
Geometric Mean			54	12
305.1	Huntington	07-May-13	8	4
305.1	Huntington	14-May-13	44	4
305.1	Huntington	21-May-13	66	4
305.1	Huntington	23-May-13	40	40
305.1	Huntington	28-May-13	44	40
Geometric Mean			33	10
314.8	Huntington	07-May-13	134	57
314.8	Huntington	14-May-13	86	32
314.8	Huntington	21-May-13	80	24
314.8	Huntington	23-May-13	136	60
314.8	Huntington	28-May-13	96	69
Geometric Mean			104	45
305.1	Huntington	04-Jun-13	20	32
305.1	Huntington	11-Jun-13	96	36
305.1	Huntington	18-Jun-13	154	80
305.1	Huntington	20-Jun-13	80	40
305.1	Huntington	25-Jun-13	24	32
Geometric Mean			56	41
314.8	Huntington	04-Jun-13	243	164
314.8	Huntington	11-Jun-13	570	197
314.8	Huntington	18-Jun-13	1,282	646
314.8	Huntington	20-Jun-13	136	84
314.8	Huntington	25-Jun-13	51	51
Geometric Mean			262	155
305.1	Huntington	02-Jul-13	66	49
305.1	Huntington	09-Jul-13	86	83
305.1	Huntington	16-Jul-13	66	20
305.1	Huntington	23-Jul-13	736	270
305.1	Huntington	30-Jul-13	51	28
Geometric Mean			107	57
314.8	Huntington	02-Jul-13	860	630
314.8	Huntington	09-Jul-13	346	249
314.8	Huntington	16-Jul-13	100	24
314.8	Huntington	23-Jul-13	1,091	364
314.8	Huntington	30-Jul-13	116	57
Geometric Mean			327	151

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
305.1	Huntington	06-Aug-13	12	4
305.1	Huntington	13-Aug-13	100	60
305.1	Huntington	20-Aug-13	32	8
305.1	Huntington	22-Aug-13	1,600	349
305.1	Huntington	27-Aug-13	32	16
Geometric Mean			72	25
314.8	Huntington	06-Aug-13	43	4
314.8	Huntington	13-Aug-13	277	120
314.8	Huntington	20-Aug-13	106	16
314.8	Huntington	22-Aug-13	2,300	800
314.8	Huntington	27-Aug-13	80	16
Geometric Mean			188	40
305.1	Huntington	03-Sep-13	254	160
305.1	Huntington	10-Sep-13	24	12
305.1	Huntington	17-Sep-13	60	57
305.1	Huntington	19-Sep-13	20	12
305.1	Huntington	24-Sep-13	52	32
Geometric Mean			52	33
314.8	Huntington	03-Sep-13	48	36
314.8	Huntington	10-Sep-13	12	12
314.8	Huntington	17-Sep-13	28	16
314.8	Huntington	19-Sep-13	49	24
314.8	Huntington	24-Sep-13	60	36
Geometric Mean			34	23
305.1	Huntington	01-Oct-13	12	4
305.1	Huntington	08-Oct-13	12	20
305.1	Huntington	15-Oct-13	20	16
305.1	Huntington	22-Oct-13	52	20
305.1	Huntington	29-Oct-13	28	8
Geometric Mean			21	12
314.8	Huntington	01-Oct-13	46	20
314.8	Huntington	08-Oct-13	97	74
314.8	Huntington	15-Oct-13	12	12
314.8	Huntington	22-Oct-13	16	4
314.8	Huntington	29-Oct-13	8	8
Geometric Mean			23	14
462.6	Cincinnati	02-Apr-13	28	8
462.6	Cincinnati	09-Apr-13	4	8
462.6	Cincinnati	16-Apr-13	28	8
462.6	Cincinnati	23-Apr-13	104	36
462.6	Cincinnati	30-Apr-13	84	132
Geometric Mean			31	19
470	Cincinnati	02-Apr-13	32	16
470	Cincinnati	09-Apr-13	16	4
470	Cincinnati	16-Apr-13	34	12
470	Cincinnati	23-Apr-13	84	48
470	Cincinnati	30-Apr-13	56	60
Geometric Mean			38	19
477.5	Cincinnati	02-Apr-13	51	12
477.5	Cincinnati	09-Apr-13	24	28
477.5	Cincinnati	16-Apr-13	12	16
477.5	Cincinnati	23-Apr-13	72	40
477.5	Cincinnati	30-Apr-13	88	74
Geometric Mean			39	28
462.6	Cincinnati	07-May-13	891	700
462.6	Cincinnati	14-May-13	54	68
462.6	Cincinnati	21-May-13	104	54
462.6	Cincinnati	23-May-13	216	66
462.6	Cincinnati	28-May-13	8	12
Geometric Mean			97	73
470	Cincinnati	07-May-13	1,040	1,010
470	Cincinnati	14-May-13	48	60
470	Cincinnati	21-May-13	92	71
470	Cincinnati	23-May-13	1,800	2,100

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
470	Cincinnati	28-May-13	20	28
Geometric Mean			175	191
477.5	Cincinnati	07-May-13	2,400	3,600
477.5	Cincinnati	14-May-13	68	76
477.5	Cincinnati	21-May-13	40	40
477.5	Cincinnati	23-May-13	12,200	8,500
477.5	Cincinnati	28-May-13	8	20
Geometric Mean			230	284
462.6	Cincinnati	04-Jun-13	24	16
462.6	Cincinnati	11-Jun-13	48	48
462.6	Cincinnati	18-Jun-13	196	156
462.6	Cincinnati	20-Jun-13	36	48
462.6	Cincinnati	25-Jun-13	40	40
Geometric Mean			50	47
470	Cincinnati	04-Jun-13	28	37
470	Cincinnati	11-Jun-13	166	128
470	Cincinnati	18-Jun-13	120	77
470	Cincinnati	20-Jun-13	116	57
470	Cincinnati	25-Jun-13	177	186
Geometric Mean			103	83
477.5	Cincinnati	04-Jun-13	32	8
477.5	Cincinnati	11-Jun-13	168	148
477.5	Cincinnati	18-Jun-13	192	112
477.5	Cincinnati	20-Jun-13	156	156
477.5	Cincinnati	25-Jun-13	20	16
Geometric Mean			80	51
462.6	Cincinnati	02-Jul-13	144	116
462.6	Cincinnati	09-Jul-13	148	124
462.6	Cincinnati	16-Jul-13	196	104
462.6	Cincinnati	23-Jul-13	180	136
462.6	Cincinnati	30-Jul-13	40	20
Geometric Mean			125	84
470	Cincinnati	02-Jul-13	480	469
470	Cincinnati	09-Jul-13	148	96
470	Cincinnati	16-Jul-13	164	164
470	Cincinnati	23-Jul-13	200	144
470	Cincinnati	30-Jul-13	36	20
Geometric Mean			153	116
477.5	Cincinnati	02-Jul-13	460	718
477.5	Cincinnati	09-Jul-13	380	400
477.5	Cincinnati	16-Jul-13	223	212
477.5	Cincinnati	23-Jul-13	320	340
477.5	Cincinnati	30-Jul-13	37	24
Geometric Mean			215	218
462.6	Cincinnati	06-Aug-13	24	12
462.6	Cincinnati	13-Aug-13	36	40
462.6	Cincinnati	20-Aug-13	20	12
462.6	Cincinnati	22-Aug-13	74	57
462.6	Cincinnati	27-Aug-13	24	16
Geometric Mean			31	22
470	Cincinnati	06-Aug-13	16	12
470	Cincinnati	13-Aug-13	120	120
470	Cincinnati	20-Aug-13	12	4
470	Cincinnati	22-Aug-13	4	4
470	Cincinnati	27-Aug-13	4	8
Geometric Mean			13	11
477.5	Cincinnati	06-Aug-13	30	8
477.5	Cincinnati	13-Aug-13	68	51
477.5	Cincinnati	20-Aug-13	16	24
477.5	Cincinnati	22-Aug-13	152	168
477.5	Cincinnati	27-Aug-13	16	12
Geometric Mean			38	29
462.6	Cincinnati	03-Sep-13	80	63
462.6	Cincinnati	10-Sep-13	34	20

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
462.6	Cincinnati	17-Sep-13	4	4
462.6	Cincinnati	19-Sep-13	8	4
462.6	Cincinnati	24-Sep-13	183	12
Geometric Mean			28	12
470	Cincinnati	03-Sep-13	52	57
470	Cincinnati	10-Sep-13	8	12
470	Cincinnati	17-Sep-13	8	4
470	Cincinnati	19-Sep-13	20	8
470	Cincinnati	24-Sep-13	66	64
Geometric Mean			21	17
477.5	Cincinnati	03-Sep-13	68	40
477.5	Cincinnati	10-Sep-13	16	16
477.5	Cincinnati	17-Sep-13	12	4
477.5	Cincinnati	19-Sep-13	4	20
477.5	Cincinnati	24-Sep-13	280	70
Geometric Mean			27	20
462.6	Cincinnati	01-Oct-13	44	4
462.6	Cincinnati	10-Oct-13	80	84
462.6	Cincinnati	15-Oct-13	28	40
462.6	Cincinnati	22-Oct-13	12	4
462.6	Cincinnati	29-Oct-13	4	16
Geometric Mean			22	15
470	Cincinnati	01-Oct-13	12	8
470	Cincinnati	10-Oct-13	640	240
470	Cincinnati	15-Oct-13	68	40
470	Cincinnati	22-Oct-13	46	4
470	Cincinnati	29-Oct-13	12	4
Geometric Mean			49	17
477.5	Cincinnati	01-Oct-13	16	16
477.5	Cincinnati	10-Oct-13	208	220
477.5	Cincinnati	15-Oct-13	80	63
477.5	Cincinnati	22-Oct-13	51	51
477.5	Cincinnati	29-Oct-13	16	12
Geometric Mean			46	42
594	Louisville	02-Apr-13	8	8
594	Louisville	09-Apr-13	12	4
594	Louisville	17-Apr-12	44	16
594	Louisville	23-Apr-13	410	283
594	Louisville	30-Apr-13	36	56
Geometric Mean			36	24
619.3	Louisville	02-Apr-13	16	12
619.3	Louisville	09-Apr-13	8	10
619.3	Louisville	17-Apr-12	71	48
619.3	Louisville	23-Apr-13	200	226
619.3	Louisville	30-Apr-13	40	40
Geometric Mean			37	35
594	Louisville	08-May-13	590	206
594	Louisville	14-May-13	76	68
594	Louisville	21-May-13	12	12
594	Louisville	28-May-13	16	16
594	Louisville	31-May-13	20	8
Geometric Mean			44	29
619.3	Louisville	08-May-13	360	420
619.3	Louisville	14-May-13	136	174
619.3	Louisville	21-May-13	51	54
619.3	Louisville	28-May-13	60	48
619.3	Louisville	31-May-13	20	10
Geometric Mean			79	72
594	Louisville	04-Jun-13	32	32
594	Louisville	11-Jun-13	4	4
594	Louisville	18-Jun-13	720	610
594	Louisville	20-Jun-13	94	77
594	Louisville	25-Jun-13	52	44
Geometric Mean			54	48

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
619.3	Louisville	04-Jun-13	32	16
619.3	Louisville	11-Jun-13	120	96
619.3	Louisville	18-Jun-13	172	88
619.3	Louisville	20-Jun-13	57	40
619.3	Louisville	25-Jun-13	60	8
Geometric Mean			74	34
594	Louisville	02-Jul-13	280	96
594	Louisville	09-Jul-13	770	580
594	Louisville	17-Jul-13	92	54
594	Louisville	23-Jul-13	48	40
619.3	Louisville	02-Jul-13	980	680
619.3	Louisville	09-Jul-13	480	280
619.3	Louisville	17-Jul-13	60	46
619.3	Louisville	23-Jul-13	490	410
594	Louisville	06-Aug-13	49	60
594	Louisville	13-Aug-13	116	52
594	Louisville	20-Aug-13	16	4
594	Louisville	22-Aug-13	16	24
594	Louisville	27-Aug-13	12	8
Geometric Mean			28	19
619.3	Louisville	06-Aug-13	297	71
619.3	Louisville	13-Aug-13	80	60
619.3	Louisville	20-Aug-13	32	28
619.3	Louisville	22-Aug-13	43	32
619.3	Louisville	27-Aug-13	36	96
Geometric Mean			65	52
594	Louisville	05-Sep-13	16	16
594	Louisville	10-Sep-13	28	20
594	Louisville	17-Sep-13	16	10
594	Louisville	24-Sep-13	56	16
594	Louisville	26-Sep-13	20	20
Geometric Mean			24	16
619.3	Louisville	05-Sep-13	12	12
619.3	Louisville	10-Sep-13	140	43
619.3	Louisville	17-Sep-13	48	300
619.3	Louisville	24-Sep-13	28	16
619.3	Louisville	26-Sep-13	20	16
Geometric Mean			34	33
594	Louisville	04-Oct-13	8	4
594	Louisville	08-Oct-13	650	510
594	Louisville	16-Oct-13	36	20
594	Louisville	22-Oct-13	12	10
594	Louisville	29-Oct-13	4	8
Geometric Mean			25	20
619.3	Louisville	04-Oct-13	600	520
619.3	Louisville	08-Oct-13	790	580
619.3	Louisville	16-Oct-13	224	132
619.3	Louisville	22-Oct-13	864	827
619.3	Louisville	29-Oct-13	4	20
Geometric Mean			206	231
791.5	Evansville	02-Apr-13	20	45
791.5	Evansville	09-Apr-13	4	4
791.5	Evansville	16-Apr-13	100	88
791.5	Evansville	23-Apr-13	220	156
791.5	Evansville	30-Apr-13	120	68
Geometric Mean			46	44
793.7	Evansville	02-Apr-13	170	164
793.7	Evansville	09-Apr-13	8	4
793.7	Evansville	16-Apr-13	96	112
793.7	Evansville	23-Apr-13	152	112
793.7	Evansville	30-Apr-13	140	50
Geometric Mean			77	53

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
791.5	Evansville	07-May-13	340	390
791.5	Evansville	14-May-13	144	190
791.5	Evansville	21-May-13	71	130
791.5	Evansville	23-May-13	28	566
791.5	Evansville	28-May-13	36	24
Geometric Mean			81	167
793.7	Evansville	07-May-13	590	650
793.7	Evansville	14-May-13	260	240
793.7	Evansville	21-May-13	7,500	8,700
793.7	Evansville	23-May-13	700	900
793.7	Evansville	28-May-13	290	217
Geometric Mean			748	767
791.5	Evansville	04-Jun-13	46	32
791.5	Evansville	11-Jun-13	60	91
791.5	Evansville	18-Jun-13	164	130
791.5	Evansville	20-Jun-13	90	63
791.5	Evansville	25-Jun-13	1,300	2,000
Geometric Mean			140	137
793.7	Evansville	04-Jun-13	136	144
793.7	Evansville	11-Jun-13	56	24
793.7	Evansville	18-Jun-13	350	310
793.7	Evansville	20-Jun-13	230	171
793.7	Evansville	25-Jun-13	1,800	4,100
Geometric Mean			256	237
791.5	Evansville	02-Jul-13	230	144
791.5	Evansville	09-Jul-13	600	500
791.5	Evansville	16-Jul-13	310	180
791.5	Evansville	23-Jul-13	276	218
791.5	Evansville	30-Jul-13	40	100
Geometric Mean			216	195
793.7	Evansville	02-Jul-13	540	480
793.7	Evansville	09-Jul-13	1,800	230
793.7	Evansville	16-Jul-13	360	210
793.7	Evansville	23-Jul-13	860	480
793.7	Evansville	23-Jul-13	210	140
Geometric Mean			576	274
791.5	Evansville	06-Aug-13	12	12
791.5	Evansville	13-Aug-13	44	16
791.5	Evansville	20-Aug-13	8	24
791.5	Evansville	22-Aug-13	40	30
791.5	Evansville	27-Aug-13	16	4
Geometric Mean			19	14
793.7	Evansville	06-Aug-13	96	60
793.7	Evansville	13-Aug-13	430	40
793.7	Evansville	20-Aug-13	80	24
793.7	Evansville	22-Aug-13	92	51
793.7	Evansville	27-Aug-13	70	54
Geometric Mean			116	44
791.5	Evansville	03-Sep-13	96	68
791.5	Evansville	10-Sep-13	12	4
791.5	Evansville	17-Sep-13	4	16
791.5	Evansville	19-Sep-13	4	8
791.5	Evansville	24-Sep-13	40	24
Geometric Mean			15	15
793.7	Evansville	03-Sep-13	10,000	40
793.7	Evansville	10-Sep-13	110	160
793.7	Evansville	17-Sep-13	69	71
793.7	Evansville	19-Sep-13	400	340
793.7	Evansville	24-Sep-13	70	24
Geometric Mean			292	82
791.5	Evansville	01-Oct-13	24	4
791.5	Evansville	08-Oct-13	900	400
791.5	Evansville	15-Oct-13	16	20
791.5	Evansville	22-Oct-13	4	30

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
791.5	Evansville	29-Oct-13	12	4
		Geometric Mean	28	21
793.7	Evansville	01-Oct-13	170	130
793.7	Evansville	08-Oct-13	1,000	1,000
793.7	Evansville	15-Oct-13	88	71
793.7	Evansville	22-Oct-13	116	63
793.7	Evansville	29-Oct-13	56	19
		Geometric Mean	158	102
1.4M	Pittsburgh	02-Apr-14	142	91
1.4M	Pittsburgh	10-Apr-14	131	42
1.4M	Pittsburgh	17-Apr-14	109	80
1.4M	Pittsburgh	22-Apr-14	12	8
1.4M	Pittsburgh	29-Apr-14	2,300	1,100
		Geometric Mean	141	77
4.3	Pittsburgh	02-Apr-14	106	58
4.3	Pittsburgh	10-Apr-14	144	86
4.3	Pittsburgh	17-Apr-14	100	54
4.3	Pittsburgh	22-Apr-14	80	40
4.3	Pittsburgh	29-Apr-14	2,600	800
		Geometric Mean	200	97
1.4M	Pittsburgh	06-May-14	72	40
1.4M	Pittsburgh	13-May-14	6,300	2,300
4.3	Pittsburgh	06-May-14	44	36
4.3	Pittsburgh	13-May-14	3,500	1,400
1.4M	Pittsburgh	17-Jul-14	300	139
1.4M	Pittsburgh	22-Jul-14	328	116
1.4M	Pittsburgh	29-Jul-14	5,100	2,200
4.3	Pittsburgh	17-Jul-14	310	144
4.3	Pittsburgh	22-Jul-14	175	100
4.3	Pittsburgh	29-Jul-14	6,800	1,400
1.4M	Pittsburgh	05-Aug-14	864	320
1.4M	Pittsburgh	14-Aug-14	1,200	310
1.4M	Pittsburgh	19-Aug-14	140	84
1.4M	Pittsburgh	21-Aug-14	5,100	2,500
1.4M	Pittsburgh	26-Aug-14	300	84
		Geometric Mean	740	281
4.3	Pittsburgh	05-Aug-14	1,109	360
4.3	Pittsburgh	14-Aug-14	1,100	440
4.3	Pittsburgh	19-Aug-14	112	61
4.3	Pittsburgh	21-Aug-14	7,800	3,200
4.3	Pittsburgh	26-Aug-14	330	104
		Geometric Mean	811	317
1.4M	Pittsburgh	02-Sep-14	2,200	6,600
1.4M	Pittsburgh	09-Sep-14	136	100
1.4M	Pittsburgh	16-Sep-14	128	60
1.4M	Pittsburgh	23-Sep-14	167	40
1.4M	Pittsburgh	30-Sep-14	58	14
		Geometric Mean	206	117
4.3	Pittsburgh	02-Sep-14	1,500	520
4.3	Pittsburgh	09-Sep-14	156	68
4.3	Pittsburgh	16-Sep-14	69	40
4.3	Pittsburgh	23-Sep-14	120	20
4.3	Pittsburgh	30-Sep-14	32	4
		Geometric Mean	144	41
1.4M	Pittsburgh	07-Oct-14	169	50
1.4M	Pittsburgh	14-Oct-14	200	78
1.4M	Pittsburgh	21-Oct-14	360	84
1.4M	Pittsburgh	28-Oct-14	92	40
1.4M	Pittsburgh	30-Oct-14	100	50
		Geometric Mean	162	58
4.3	Pittsburgh	07-Oct-14	236	108

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
4.3	Pittsburgh	14-Oct-14	125	40
4.3	Pittsburgh	21-Oct-14	140	36
4.3	Pittsburgh	28-Oct-14	88	54
4.3	Pittsburgh	30-Oct-14	72	48
Geometric Mean			121	53
86.8	Wheeling	01-Apr-14	48	8
86.8	Wheeling	08-Apr-14	580	630
86.8	Wheeling	15-Apr-14	116	78
86.8	Wheeling	22-Apr-14	12	4
86.8	Wheeling	29-Apr-14	46	92
Geometric Mean			71	43
92.8	Wheeling	01-Apr-14	36	20
92.8	Wheeling	08-Apr-14	600	580
92.8	Wheeling	15-Apr-14	196	112
92.8	Wheeling	22-Apr-14	16	12
92.8	Wheeling	29-Apr-14	330	4,000
Geometric Mean			117	144
86.8	Wheeling	06-May-14	204	32
86.8	Wheeling	13-May-14	210	170
86.8	Wheeling	20-May-14	718	845
86.8	Wheeling	22-May-14	310	570
86.8	Wheeling	27-May-14	226	270
Geometric Mean			293	234
92.8	Wheeling	06-May-14	72	74
92.8	Wheeling	13-May-14	254	156
92.8	Wheeling	20-May-14	5,000	4,700
92.8	Wheeling	22-May-14	470	964
92.8	Wheeling	27-May-14	260	380
Geometric Mean			407	457
86.8	Wheeling	03-Jun-14	3,900	3,200
86.8	Wheeling	10-Jun-14	112	148
86.8	Wheeling	17-Jun-14	350	645
86.8	Wheeling	19-Jun-14	160	210
86.8	Wheeling	24-Jun-14	217	1,400
Geometric Mean			351	618
92.8	Wheeling	03-Jun-14	380	480
92.8	Wheeling	10-Jun-14	230	168
92.8	Wheeling	17-Jun-14	782	900
92.8	Wheeling	19-Jun-14	11,900	11,600
92.8	Wheeling	24-Jun-14	600	2,600
Geometric Mean			866	1170
86.8	Wheeling	01-Jul-14	200	380
86.8	Wheeling	08-Jul-14	72	52
86.8	Wheeling	15-Jul-14	84	232
86.8	Wheeling	22-Jul-14	88	43
86.8	Wheeling	29-Jul-14	700	927
Geometric Mean			149	179
92.8	Wheeling	01-Jul-14	360	809
92.8	Wheeling	08-Jul-14	170	66
92.8	Wheeling	15-Jul-14	1,155	1,010
92.8	Wheeling	22-Jul-14	88	48
92.8	Wheeling	29-Jul-14	818	340
Geometric Mean			348	245
86.8	Wheeling	05-Aug-14	46	46
86.8	Wheeling	12-Aug-14	560	1,120
86.8	Wheeling	19-Aug-14	63	40
86.8	Wheeling	21-Aug-14	8,600	1,945
86.8	Wheeling	26-Aug-14	144	92
Geometric Mean			289	206
92.8	Wheeling	05-Aug-14	180	132
92.8	Wheeling	12-Aug-14	60,000	60,000
92.8	Wheeling	19-Aug-14	164	66
92.8	Wheeling	21-Aug-14	8,100	3,500
92.8	Wheeling	26-Aug-14	1,180	136

Appendix G. Ohio River Bacteria Data, 2010-2014					
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	1761	757
86.8	Wheeling	02-Sep-14	152	69	
86.8	Wheeling	09-Sep-14	12	12	
86.8	Wheeling	16-Sep-14	68	12	
86.8	Wheeling	23-Sep-14	24	8	
86.8	Wheeling	30-Sep-14	20	12	
			Geometric Mean	36	16
92.8	Wheeling	02-Sep-14	8,900	3,800	
92.8	Wheeling	09-Sep-14	66	24	
92.8	Wheeling	16-Sep-14	660	58	
92.8	Wheeling	23-Sep-14	46	36	
92.8	Wheeling	30-Sep-14	16	8	
			Geometric Mean	195	69
86.8	Wheeling	07-Oct-14	96	52	
86.8	Wheeling	14-Oct-14	64	20	
86.8	Wheeling	21-Oct-14	180	54	
86.8	Wheeling	23-Oct-14	104	50	
86.8	Wheeling	28-Oct-14	36	8	
			Geometric Mean	84	30
92.8	Wheeling	07-Oct-14	18,800	10,900	
92.8	Wheeling	14-Oct-14	176	38	
92.8	Wheeling	21-Oct-14	236	68	
92.8	Wheeling	23-Oct-14	176	92	
92.8	Wheeling	28-Oct-14	250	66	
			Geometric Mean	510	176
305.1	Huntington	01-Apr-14	191	117	
305.1	Huntington	08-Apr-14	80	24	
305.1	Huntington	15-Apr-14	20	4	
305.1	Huntington	22-Apr-14	4	4	
305.1	Huntington	29-Apr-14	289	191	
			Geometric Mean	51	24
314.8	Huntington	01-Apr-14	251	94	
314.8	Huntington	08-Apr-14	169	48	
314.8	Huntington	15-Apr-14	40	8	
314.8	Huntington	22-Apr-14	69	4	
314.8	Huntington	29-Apr-14	540	430	
			Geometric Mean	145	36
305.1	Huntington	06-May-14	31	28	
305.1	Huntington	13-May-14	44	8	
305.1	Huntington	20-May-14	174	92	
305.1	Huntington	22-May-14	92	20	
305.1	Huntington	27-May-14	20	16	
			Geometric Mean	53	23
314.8	Huntington	06-May-14	120	66	
314.8	Huntington	13-May-14	243	191	
314.8	Huntington	20-May-14	223	152	
314.8	Huntington	22-May-14	144	54	
314.8	Huntington	27-May-14	40	20	
			Geometric Mean	130	73
305.1	Huntington	03-Jun-14	20	8	
305.1	Huntington	10-Jun-14	48	24	
305.1	Huntington	17-Jun-14	60	20	
305.1	Huntington	19-Jun-14	40	20	
305.1	Huntington	24-Jun-14	40	16	
			Geometric Mean	39	17
314.8	Huntington	03-Jun-14	57	43	
314.8	Huntington	10-Jun-14	120	28	
314.8	Huntington	17-Jun-14	63	49	
314.8	Huntington	19-Jun-14	152	28	
314.8	Huntington	24-Jun-14	63	32	
			Geometric Mean	84	35
305.1	Huntington	01-Jul-14	289	164	
305.1	Huntington	07-Jul-14	20	4	
305.1	Huntington	15-Jul-14	12	4	

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
305.1	Huntington	22-Jul-14	32	12
305.1	Huntington	29-Jul-14	46	20
Geometric Mean			40	14
314.8	Huntington	01-Jul-14	169	80
314.8	Huntington	07-Jul-14	28	12
314.8	Huntington	15-Jul-14	545	357
314.8	Huntington	22-Jul-14	140	94
314.8	Huntington	29-Jul-14	148	24
Geometric Mean			140	60
305.1	Huntington	05-Aug-14	20	12
305.1	Huntington	12-Aug-14	4	4
305.1	Huntington	19-Aug-14	68	16
305.1	Huntington	21-Aug-14	16	12
305.1	Huntington	26-Aug-14	12	16
Geometric Mean			16	11
314.8	Huntington	05-Aug-14	109	24
314.8	Huntington	12-Aug-14	1,100	660
314.8	Huntington	19-Aug-14	144	84
314.8	Huntington	21-Aug-14	40	20
314.8	Huntington	26-Aug-14	120	100
Geometric Mean			153	77
305.1	Huntington	02-Sep-14	177	68
305.1	Huntington	09-Sep-14	28	16
305.1	Huntington	16-Sep-14	4	4
305.1	Huntington	23-Sep-14	8	4
305.1	Huntington	30-Sep-14	4	4
Geometric Mean			14	9
314.8	Huntington	02-Sep-14	800	177
314.8	Huntington	09-Sep-14	51	32
314.8	Huntington	16-Sep-14	16	4
314.8	Huntington	23-Sep-14	12	4
314.8	Huntington	30-Sep-14	12	4
Geometric Mean			39	13
305.1	Huntington	07-Oct-14	123	100
305.1	Huntington	14-Oct-14	20,000	20,000
305.1	Huntington	21-Oct-14	169	92
305.1	Huntington	23-Oct-14	44	12
305.1	Huntington	28-Oct-14	4	4
Geometric Mean			149	98
314.8	Huntington	07-Oct-14	86	32
314.8	Huntington	14-Oct-14	311	231
314.8	Huntington	21-Oct-14	12	8
314.8	Huntington	23-Oct-14	28	20
314.8	Huntington	28-Oct-14	8	4
Geometric Mean			37	22
462.6	Cincinnati	01-Apr-14	51	32
462.6	Cincinnati	08-Apr-14	251	217
462.6	Cincinnati	15-Apr-14	168	230
462.6	Cincinnati	22-Apr-14	4	4
462.6	Cincinnati	28-Apr-14	145	50
Geometric Mean			66	50
470	Cincinnati	01-Apr-14	131	66
470	Cincinnati	08-Apr-14	360	420
470	Cincinnati	15-Apr-14	460	317
470	Cincinnati	22-Apr-14	28	34
470	Cincinnati	28-Apr-14	1,400	909
Geometric Mean			243	194
477.5	Cincinnati	01-Apr-14	80	66
477.5	Cincinnati	08-Apr-14	390	89
477.5	Cincinnati	15-Apr-14	220	144
477.5	Cincinnati	22-Apr-14	12	8
477.5	Cincinnati	28-Apr-14	590	520
Geometric Mean			137	81
462.6	Cincinnati	06-May-14	88	88

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
462.6	Cincinnati	14-May-14	32	16
462.6	Cincinnati	20-May-14	71	80
462.6	Cincinnati	22-May-14	224	136
462.6	Cincinnati	27-May-14	44	8
Geometric Mean			72	41
470	Cincinnati	06-May-14	128	108
470	Cincinnati	14-May-14	270	220
470	Cincinnati	20-May-14	164	124
470	Cincinnati	22-May-14	243	152
470	Cincinnati	27-May-14	40	34
Geometric Mean			141	109
477.5	Cincinnati	06-May-14	104	100
477.5	Cincinnati	14-May-14	70	66
477.5	Cincinnati	20-May-14	192	128
477.5	Cincinnati	22-May-14	160	104
477.5	Cincinnati	27-May-14	70	16
Geometric Mean			109	68
462.6	Cincinnati	02-Jun-14	24	12
462.6	Cincinnati	10-Jun-14	900	180
462.6	Cincinnati	17-Jun-14	64	48
462.6	Cincinnati	19-Jun-14	12	20
462.6	Cincinnati	24-Jun-14	51	32
Geometric Mean			61	37
470	Cincinnati	02-Jun-14	204	108
470	Cincinnati	10-Jun-14	180	140
470	Cincinnati	17-Jun-14	28	30
470	Cincinnati	19-Jun-14	8	4
470	Cincinnati	24-Jun-14	54	16
Geometric Mean			54	31
477.5	Cincinnati	02-Jun-14	70	16
477.5	Cincinnati	10-Jun-14	56	32
477.5	Cincinnati	17-Jun-14	46	12
477.5	Cincinnati	19-Jun-14	4	10
477.5	Cincinnati	24-Jun-14	32	4
Geometric Mean			30	12
462.6	Cincinnati	01-Jul-14	150	92
462.6	Cincinnati	07-Jul-14	40	24
462.6	Cincinnati	15-Jul-14	48	63
462.6	Cincinnati	22-Jul-14	32	36
462.6	Cincinnati	29-Jul-14	16	4
Geometric Mean			43	29
470	Cincinnati	01-Jul-14	8,400	6,900
470	Cincinnati	07-Jul-14	818	530
470	Cincinnati	15-Jul-14	100	100
470	Cincinnati	22-Jul-14	4	4
470	Cincinnati	29-Jul-14	32	4
Geometric Mean			154	90
477.5	Cincinnati	01-Jul-14	243	124
477.5	Cincinnati	07-Jul-14	630	68
477.5	Cincinnati	15-Jul-14	330	228
477.5	Cincinnati	22-Jul-14	4	4
477.5	Cincinnati	29-Jul-14	40	28
Geometric Mean			96	46
462.6	Cincinnati	05-Aug-14	88	64
462.6	Cincinnati	12-Aug-14	28	68
462.6	Cincinnati	19-Aug-14	32	56
462.6	Cincinnati	21-Aug-14	130	104
462.6	Cincinnati	26-Aug-14	32	4
Geometric Mean			50	40
470	Cincinnati	05-Aug-14	4	4
470	Cincinnati	12-Aug-14	184	88
470	Cincinnati	19-Aug-14	12	24
470	Cincinnati	21-Aug-14	168	80
470	Cincinnati	26-Aug-14	56	12

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
			Geometric Mean	
			38	24
477.5	Cincinnati	05-Aug-14	4	4
477.5	Cincinnati	12-Aug-14	670	470
477.5	Cincinnati	19-Aug-14	37	24
477.5	Cincinnati	21-Aug-14	148	116
477.5	Cincinnati	26-Aug-14	63	4
			Geometric Mean	
			62	29
462.6	Cincinnati	02-Sep-14	1,600	900
462.6	Cincinnati	09-Sep-14	74	54
462.6	Cincinnati	16-Sep-14	510	132
462.6	Cincinnati	23-Sep-14	20	24
462.6	Cincinnati	30-Sep-14	16	4
			Geometric Mean	
			114	57
470	Cincinnati	02-Sep-14	3,700	1,900
470	Cincinnati	09-Sep-14	4	4
470	Cincinnati	16-Sep-14	36	28
470	Cincinnati	23-Sep-14	12	12
470	Cincinnati	30-Sep-14	4	4
			Geometric Mean	
			30	25
477.5	Cincinnati	02-Sep-14	550	500
477.5	Cincinnati	09-Sep-14	60	32
477.5	Cincinnati	16-Sep-14	217	152
477.5	Cincinnati	23-Sep-14	12	8
477.5	Cincinnati	30-Sep-14	63	48
			Geometric Mean	
			88	62
462.6	Cincinnati	07-Oct-14	83	84
462.6	Cincinnati	14-Oct-14	204	200
462.6	Cincinnati	21-Oct-14	37	4
462.6	Cincinnati	23-Oct-14	16	8
462.6	Cincinnati	28-Oct-14	8	12
			Geometric Mean	
			38	23
470	Cincinnati	07-Oct-14	48	44
470	Cincinnati	14-Oct-14	128	8
470	Cincinnati	21-Oct-14	28	20
470	Cincinnati	23-Oct-14	12	4
470	Cincinnati	28-Oct-14	4	4
			Geometric Mean	
			24	10
477.5	Cincinnati	07-Oct-14	2,800	1,600
477.5	Cincinnati	14-Oct-14	74	32
477.5	Cincinnati	21-Oct-14	48	20
477.5	Cincinnati	23-Oct-14	12	4
477.5	Cincinnati	28-Oct-14	4	4
			Geometric Mean	
			54	28
594	Louisville	03-Apr-14	84	57
594	Louisville	08-Apr-14	820	140
594	Louisville	15-Apr-14	140	84
594	Louisville	22-Apr-14	16	8
594	Louisville	30-Apr-14	460	410
			Geometric Mean	
			148	74
619.3	Louisville	03-Apr-14	168	124
619.3	Louisville	08-Apr-14	600	590
619.3	Louisville	15-Apr-14	280	210
619.3	Louisville	22-Apr-14	24	34
619.3	Louisville	30-Apr-14	480	108
			Geometric Mean	
			201	141
594	Louisville	06-May-14	580	350
594	Louisville	13-May-14	148	84
594	Louisville	20-May-14	530	257
594	Louisville	27-May-14	450	580
594	Louisville	29-May-14	132	51
			Geometric Mean	
			306	186
619.3	Louisville	06-May-14	540	490
619.3	Louisville	13-May-14	43	37
619.3	Louisville	20-May-14	232	200

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
619.3	Louisville	27-May-14	150	140
619.3	Louisville	29-May-14	246	92
Geometric Mean			182	136
594	Louisville	05-Jun-14	40	4
594	Louisville	10-Jun-14	51	4
594	Louisville	17-Jun-14	80	60
594	Louisville	19-Jun-14	56	48
594	Louisville	24-Jun-14	69	34
Geometric Mean			58	17
619.3	Louisville	05-Jun-14	24	28
619.3	Louisville	10-Jun-14	32	16
619.3	Louisville	17-Jun-14	183	124
619.3	Louisville	19-Jun-14	40	28
619.3	Louisville	24-Jun-14	60	44
Geometric Mean			51	37
594	Louisville	01-Jul-14	240	150
594	Louisville	08-Jul-14	200	180
594	Louisville	17-Jul-14	28	16
594	Louisville	22-Jul-14	20	12
594	Louisville	24-Jul-14	50	20
Geometric Mean			67	40
619.3	Louisville	01-Jul-14	44	16
619.3	Louisville	08-Jul-14	330	12
619.3	Louisville	17-Jul-14	66	20
619.3	Louisville	22-Jul-14	57	46
619.3	Louisville	24-Jul-14	28	28
Geometric Mean			69	22
594	Louisville	12-Aug-14	260	128
594	Louisville	14-Aug-14	20	20
594	Louisville	19-Aug-14	12	16
594	Louisville	22-Aug-14	8	12
594	Louisville	26-Aug-14	64	49
Geometric Mean			32	30
619.3	Louisville	12-Aug-14	16,000	1,400
619.3	Louisville	14-Aug-14	28	20
619.3	Louisville	19-Aug-14	72	68
619.3	Louisville	22-Aug-14	84	68
619.3	Louisville	26-Aug-14	540	900
Geometric Mean			271	163
594	Louisville	02-Sep-14	32	8
594	Louisville	16-Sep-14	40	16
594	Louisville	19-Sep-14	4	8
594	Louisville	23-Sep-14	16	32
594	Louisville	30-Sep-14	10	4
Geometric Mean			15	11
619.3	Louisville	02-Sep-14	810	280
619.3	Louisville	16-Sep-14	63	51
619.3	Louisville	19-Sep-14	40	60
619.3	Louisville	23-Sep-14	60	77
619.3	Louisville	30-Sep-14	10	30
Geometric Mean			66	72
594	Louisville	08-Oct-14	16	8
594	Louisville	14-Oct-14	410	500
594	Louisville	21-Oct-14	12	16
594	Louisville	28-Oct-14	4	4
594	Louisville	30-Oct-14	4	4
Geometric Mean			17	16
619.3	Louisville	08-Oct-14	230	260
619.3	Louisville	14-Oct-14	1,100	1,400
619.3	Louisville	21-Oct-14	12	20
619.3	Louisville	28-Oct-14	69	80
619.3	Louisville	30-Oct-14	157	163
Geometric Mean			127	157
791.5	Evansville	01-Apr-14	430	188

Appendix G. Ohio River Bacteria Data, 2010-2014				
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL
791.5	Evansville	08-Apr-14	400	250
791.5	Evansville	15-Apr-14	390	300
791.5	Evansville	22-Apr-14	208	80
791.5	Evansville	29-Apr-14	600	1,100
Geometric Mean			384	262
793.7	Evansville	01-Apr-14	240	200
793.7	Evansville	08-Apr-14	560	490
793.7	Evansville	15-Apr-14	700	600
793.7	Evansville	22-Apr-14	30	28
793.7	Evansville	29-Apr-14	1,200	2,100
Geometric Mean			321	322
791.5	Evansville	06-May-14	470	130
791.5	Evansville	13-May-14	660	490
791.5	Evansville	20-May-14	100	180
791.5	Evansville	22-May-14	200	100
791.5	Evansville	27-May-14	220	84
Geometric Mean			267	157
793.7	Evansville	06-May-14	236	90
793.7	Evansville	13-May-14	670	530
793.7	Evansville	20-May-14	370	120
793.7	Evansville	22-May-14	230	80
793.7	Evansville	27-May-14	90	120
Geometric Mean			261	141
791.5	Evansville	03-Jun-14	1,000	1,300
791.5	Evansville	10-Jun-14	40	24
791.5	Evansville	17-Jun-14	48	32
791.5	Evansville	19-Jun-14	8	20
791.5	Evansville	24-Jun-14	45	40
Geometric Mean			59	60
793.7	Evansville	03-Jun-14	800	600
793.7	Evansville	10-Jun-14	110	220
793.7	Evansville	17-Jun-14	270	150
793.7	Evansville	19-Jun-14	140	90
793.7	Evansville	24-Jun-14	550	330
Geometric Mean			283	226
791.5	Evansville	01-Jul-14	54	20
791.5	Evansville	08-Jul-14	4	4
791.5	Evansville	15-Jul-14	20	12
791.5	Evansville	22-Jul-14	8	12
791.5	Evansville	29-Jul-14	36	28
Geometric Mean			17	13
793.7	Evansville	01-Jul-14	70	28
793.7	Evansville	08-Jul-14	200	140
793.7	Evansville	15-Jul-14	290	330
793.7	Evansville	22-Jul-14	24	24
793.7	Evansville	29-Jul-14	90	80
Geometric Mean			97	76
791.5	Evansville	05-Aug-14	68	40
791.5	Evansville	12-Aug-14	12	8
791.5	Evansville	19-Aug-14	50	40
791.5	Evansville	21-Aug-14	16	20
791.5	Evansville	26-Aug-14	50	30
Geometric Mean			32	24
793.7	Evansville	05-Aug-14	32	28
793.7	Evansville	12-Aug-14	100	100
793.7	Evansville	19-Aug-14	170	140
793.7	Evansville	21-Aug-14	92	56
793.7	Evansville	26-Aug-14	30	20
Geometric Mean			68	54
791.5	Evansville	02-Sep-14	83	69
791.5	Evansville	09-Sep-14	12	12
791.5	Evansville	16-Sep-14	4	4
791.5	Evansville	23-Sep-14	10	8
791.5	Evansville	30-Sep-14	4	4

Appendix G. Ohio River Bacteria Data, 2010-2014					
MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	11	10
793.7	Evansville	02-Sep-14	50	150	
793.7	Evansville	09-Sep-14	10	8	
793.7	Evansville	16-Sep-14	30	16	
793.7	Evansville	23-Sep-14	1,400	1,300	
793.7	Evansville	30-Sep-14	24	28	
			Geometric Mean	55	59
791.5	Evansville	07-Oct-14	16	16	
791.5	Evansville	14-Oct-14	500	480	
791.5	Evansville	21-Oct-14	80	16	
791.5	Evansville	23-Oct-14	30	40	
791.5	Evansville	28-Oct-14	4	4	
			Geometric Mean	38	29
793.7	Evansville	07-Oct-14	12	16	
793.7	Evansville	14-Oct-14	3,000	300	
793.7	Evansville	21-Oct-14	64	24	
793.7	Evansville	23-Oct-14	40	12	
793.7	Evansville	28-Oct-14	10	20	
			Geometric Mean	62	31

APPENDIX H

Methyl Mercury Fish Tissue Contaminants

Data

2010 - 2014

Appendix H. Methyl mercury fish tissue contaminants data.

Sample River Mile	Pool	Year	Species	Trophic Level	Avg Length (cm)	MeHg Rresult (mg/kg)	# Fish in sample	Consumption-Weighted Pool Avg MeHg in Fish Tissue (mg/kg)
0.9	Emsworth	2012	walleye	4	46.7	0.107	3	0.12
1.8	Emsworth	2012	silver redhorse	3	50.8	0.0827	3	
2	Emsworth	2011	common carp	3	55.7	0.123	3	
2	Emsworth	2011	smallmouth bass	4	29	0.104	3	
2	Emsworth	2011	freshwater drum	3	50.67	0.265	3	
3	Emsworth	2013	channel catfish	4	49.67	0.0776	3	
5.2	Emsworth	2012	smallmouth buffalo	3	50	0.0786	3	0.16
7	Dashields	2011	walleye	4	51	0.131	2	
7	Dashields	2011	sauger	4	38.7	0.151	3	
7	Dashields	2011	freshwater drum	3	51	0.226	2	
7	Dashields	2011	common carp	3	54	0.106	2	
9	Dashields	2013	freshwater drum	3	42.12	0.184	3	
10	Dashields	2013	walleye	4	47.5	0.187	3	
10	Dashields	2013	sauger	4	35.3	0.181	3	
10	Dashields	2013	smallmouth buffalo	3	45.8	0.167	3	
26	Montgomery	2011	smallmouth bass	4	40.7	0.139	3	0.13
26	Montgomery	2013	freshwater drum	3	34.12	0.0922	3	
26	Montgomery	2013	smallmouth buffalo	3	50.8	0.167	3	
26	Montgomery	2014	channel catfish	4	46	0.046	2	
28	Montgomery	2011	channel catfish	4	50.3	0.123	3	
28	Montgomery	2011	white bass	4	38	0.145	3	0.19
36	New Cumberland	2011	smallmouth bass	4	42.7	0.257	3	
36	New Cumberland	2011	freshwater drum	3	50.67	0.268	3	
43	New Cumberland	2013	smallmouth buffalo	3	50.3	0.141	3	
47	New Cumberland	2011	walleye	4	41	0.0622	1	0.15
55.2	Pike Island	2012	bluegill	3	13.9	0.0249	3	
56	Pike Island	2010	hybrid striper	4	56.16667	0.279	3	
66	Pike Island	2013	smallmouth bass	4	37.5	0.125	3	
69	Pike Island	2010	freshwater drum	3	59.33	0.189	3	0.16
85	Hannibal	2013	smallmouth buffalo	3	49.17	0.0838	3	
87	Hannibal	2013	smallmouth bass	4	41.3	0.152	3	
91	Hannibal	2010	hybrid striper	4	56.16667	0.644	3	
91	Hannibal	2010	freshwater drum	3	60.33	0.374	3	
91.3	Hannibal	2012	common carp	3	60	0.204	3	
91.3	Hannibal	2012	smallmouth buffalo	3	45.17	0.0711	3	
100	Hannibal	2014	channel catfish	4	46.7	0.262	3	
108	Hannibal	2013	common carp	3	59.8	0.115	3	
113.8	Hannibal	2010	freshwater drum	3	64.83	0.297	3	
123	Hannibal	2013	sauger	4	43.3	0.252	3	
126.5	Willow Island	2010	largemouth bass	4	32.33333	0.135	3	0.14
127	Willow Island	2012	common carp	3	66	0.111	3	
127	Willow Island	2012	quillback	3	34.5	0.0532	3	
127	Willow Island	2012	walleye	4	56.8	0.214	3	
127	Willow Island	2012	freshwater drum	3	51	0.113	3	
127	Willow Island	2012	smallmouth buffalo	3	54.2	0.116	3	
127	Willow Island	2012	bluegill	3	16.9	0.027	3	
127	Willow Island	2013	common carp	3	55.3	0.145	3	
127	Willow Island	2013	quillback	3	39.67	0.0524	3	
127	Willow Island	2013	walleye	4	52	0.12	1	
127	Willow Island	2013	freshwater drum	3	53.5	0.163	2	
127	Willow Island	2013	smallmouth buffalo	3	51.3	0.201	3	
127	Willow Island	2013	bluegill	3	16	0.03	3	
128	Willow Island	2010	hybrid striper	4	63	0.273	2	
129.3	Willow Island	2010	freshwater drum	3	77	0.404	1	
137	Willow Island	2012	bluegill	3	19.53	0.0772	3	
142	Willow Island	2010	freshwater drum	3	57	0.241	3	
147	Willow Island	2012	silver redhorse	3	45.5	0.0626	3	0.17
162	Belleville	2010	hybrid striper	4	65.5	0.403	3	
162	Belleville	2010	freshwater drum	3	63.17	0.202	3	
169	Belleville	2012	smallmouth buffalo	3	46.5	0.111	3	
169	Belleville	2012	silver redhorse	3	48	0.0856	3	
171	Belleville	2010	largemouth bass	4	32	0.134	3	0.103
171.7	Belleville	2012	quillback	3	36.5	0.103	3	

Appendix H. Methyl mercury fish tissue contaminants data.

Sample River Mile	Pool	Year	Species	Trophic Level	Avg Length (cm)	MeHg Rresult (mg/kg)	# Fish in sample	Consumption-Weighted Pool Avg MeHg in Fish Tissue (mg/kg)
200	Belleville	2014	common carp	3	61.7	0.103	3	
200	Belleville	2014	largemouth bass	4	38	0.294	3	
200	Belleville	2014	spotted sucker	3	36.7	0.0336	3	
200	Belleville	2014	white bass	4	28	0.183	2	
200	Belleville	2014	bluegill	3	17.25	0.0763	4	
204	Racine	2010	hybrid striped	4	55	0.322	2	0.21
204	Racine	2010	channel catfish	4	57	0.158	3	
204	Racine	2010	freshwater drum	3	63	0.441	3	
216.7	Racine	2012	smallmouth buffalo	3	54.5	0.258	3	
220	Racine	2010	largemouth bass	4	35.33333	0.197	3	
220.6	Racine	2012	common carp	3	64	0.0872	3	
220.6	Racine	2012	spotted bass	4	35.5	0.301	3	
220.6	Racine	2012	silver redhorse	3	41.6	0.0541	3	
220.6	Racine	2012	bluegill	3	14.27	0.0925	3	
266	RC Byrd	2013	freshwater drum	3	39.67	0.188	3	
270	RC Byrd	2012	smallmouth buffalo	3	50.53	0.242	3	
276	RC Byrd	2012	common carp	3	64.3	0.125	3	
276	RC Byrd	2012	channel catfish	4	52.67	0.221	3	
278	RC Byrd	2013	largemouth bass	4	37	0.131	3	
278	RC Byrd	2013	sauger	4	43.5	0.163	3	
279.3	Greenup	2010	freshwater drum	3	63.33	0.361	3	
281	Greenup	2010	hybrid striped	4	58	0.351	3	
287.5	Greenup	2012	common carp	3	60	0.105	3	
287.5	Greenup	2012	white crappie	3	28	0.0964	3	0.18
287.5	Greenup	2012	smallmouth buffalo	3	52	0.215	3	
309	Greenup	2010	channel catfish	4	58.5	0.111	3	
326	Greenup	2013	largemouth bass	4	37.67	0.148	3	
326	Greenup	2013	hybrid striped	4	51.67	0.294	3	
326	Greenup	2013	bluegill	3	17.6	0.0556	4	
331	Greenup	2010	largemouth bass	4	35.06667	0.186	3	
341.5	Meldahl	2010	largemouth bass	4	40.33333	0.125	3	0.18
341.5	Meldahl	2010	freshwater drum	3	63	0.274	3	
348	Meldahl	2010	freshwater drum	3	61	0.25	2	
355	Meldahl	2010	hybrid striped	4	58.66667	0.255	3	
356	Meldahl	2014	sauger	4	31.3	0.175	3	
356.7	Meldahl	2012	common carp	3	73.2	0.106	3	
356.7	Meldahl	2012	flathead catfish	4	59.67	0.268	3	
374	Meldahl	2012	silver redhorse	3	43.3	0.0783	2	
440	Markland	2014	channel catfish	4	50.7	0.156	3	0.22
440	Markland	2014	sauger	4	29.7	0.179	3	
453	Markland	2010	channel catfish	4	51.4	0.063	3	
463.5	Markland	2010	hybrid striped	4	63	0.386	3	
463.5	Markland	2010	hybrid striped	4	57.66667	0.24	3	
463.5	Markland	2010	channel catfish	4	60.66667	0.171	3	
463.5	Markland	2012	common carp	3	71	0.11	3	
463.5	Markland	2012	smallmouth buffalo	3	54.5	0.279	3	
463.5	Markland	2012	flathead catfish	4	67.83	0.339	3	
470	Markland	2010	freshwater drum	3	56.33	0.296	3	
486	Markland	2014	white bass	4	36.25	0.491	2	
490	Markland	2014	freshwater drum	3	43.8	0.145	3	
497	Markland	2010	largemouth bass	4	40.66667	0.307	3	
500	Markland	2010	channel catfish	4	60.83333	0.0396	3	
511	Markland	2014	sauger	4	33	0.155	3	
513	Markland	2014	bluegill	3	15.75	0.104	5	
532	McAlpine	2010	hybrid striped	4	52.5	0.452	3	0.17
532	McAlpine	2010	hybrid striped	4	56.7	0.199	3	
537	McAlpine	2010	channel catfish	4	57.56667	0.251	3	
537	McAlpine	2010	largemouth bass	4	37.13334	0.169	3	
541	McAlpine	2010	freshwater drum	3	50.5	0.213	3	
546	McAlpine	2013	smallmouth buffalo	3	46	0.148	2	
546	McAlpine	2013	hybrid striped	4	46.67	0.213	3	
569	McAlpine	2014	channel catfish	4	50.3	0.228	3	
570	McAlpine	2014	smallmouth buffalo	3	20.5	0.14	3	

Appendix H. Methyl mercury fish tissue contaminants data.

Sample River Mile	Pool	Year	Species	Trophic Level	Avg Length (cm)	MeHg Result (mg/kg)	# Fish in sample	Consumption-Weighted Pool Avg MeHg in Fish Tissue (mg/kg)
576	McAlpine	2014	freshwater drum	3	48.3	0.275	3	0.18
578	McAlpine	2014	sauger	4	30.25	0.203	2	
578	McAlpine	2014	channel catfish	4	55.3	0.276	3	
580	McAlpine	2014	channel catfish	4	47	0.159	1	
606	McAlpine	2014	white bass	4	24.75	0.0924	2	
606.9	Cannelton	2010	channel catfish	4	59.33333	0.128	3	0.14
607	Cannelton	2010	freshwater drum	3	49.75	0.181	4	
607	Cannelton	2011	striped bass	4	58.3	0.365	3	
607.4	Cannelton	2010	hybrid striper	4	66	0.257	3	
629.9	Cannelton	2012	freshwater drum	3	47.5	0.167	3	
629.9	Cannelton	2012	smallmouth buffalo	3	47.5	0.0883	2	0.25
721	Newburgh	2011	freshwater drum	3	44.9	0.289	3	
730	Newburgh	2012	spotted bass	4	31.3	0.16	3	
740	Newburgh	2012	common carp	3	70	0.203	3	
745	Newburgh	2010	hybrid striper	4	48	0.13	3	
745	Newburgh	2010	freshwater drum	3	54.67	0.118	3	0.28
752	Newburgh	2014	channel catfish	4	54	0.0683	1	
757.6	Newburgh	2012	smallmouth buffalo	3	45	0.168	3	
757.6	Newburgh	2012	black buffalo	3	56.2	0.103	3	
773	Newburgh	2012	white crappie	3	29.3	0.0775	2	
776.2	JT Myers	2010	hybrid striper	4	63	0.86	3	0.19
776.2	JT Myers	2010	channel catfish	4	50.66667	0.0563	3	
776.2	JT Myers	2010	largemouth bass	4	43.5	0.263	2	
776.2	JT Myers	2010	freshwater drum	3	53.5	0.304	3	
776.2	JT Myers	2010	freshwater drum	3	62.67	0.357	3	
778.1	JT Myers	2012	quillback	3	35.2	0.0779	3	0.15
778.1	JT Myers	2012	freshwater drum	3	40.3	0.249	3	
778.1	JT Myers	2012	smallmouth buffalo	3	41.3	0.177	3	
778.1	JT Myers	2012	flathead catfish	4	68.67	0.3	3	
778.1	JT Myers	2012	bluegill	3	18.83	0.0609	3	
795	JT Myers	2010	channel catfish	4	60.16667	0.0999	3	0.19
846.1	Smithland	2012	blue catfish	3	54.3	0.181	3	
846.1	Smithland	2012	flathead catfish	4	73.3	0.305	3	
846.5	Smithland	2010	hybrid striper	4	60.33333	0.671	3	
846.5	Smithland	2010	channel catfish	4	62.25	0.0739	2	
846.5	Smithland	2010	freshwater drum	3	55	0.172	3	0.15
848	Smithland	2012	bluegill	3	17.12	0.131	3	
870	Smithland	2012	black buffalo	3	61	0.354	3	
883	Smithland	2013	white bass	4	36.3	0.519	3	
889	Smithland	2013	channel catfish	4	48.3	0.126	3	
889	Smithland	2013	bluegill	3	16.38	0.0959	4	0.15
889.5	Smithland	2012	white crappie	3	24.3	0.194	3	
889.5	Smithland	2012	smallmouth buffalo	3	39.67	0.128	3	
892	Smithland	2013	freshwater drum	3	58	0.425	3	
892	Smithland	2014	largemouth bass	4	39.75	0.34	2	
918.6	Olmsted	2010	hybrid striper	4	52.5	0.395	3	0.15
919	Olmsted	2011	blue catfish	3	46.7	0.0826	3	
925	Olmsted	2010	largemouth bass	4	37.13334	0.264	3	
925	Olmsted	2011	common carp	3	54.5	0.138	2	
932	Olmsted	2014	channel catfish	3	41.7	0.0559	3	
932	Olmsted	2014	white bass	4	34.2	0.28	3	0.15
933.5	Olmsted	2012	black crappie	3	20.5	0.0494	3	
933.5	Olmsted	2012	flathead catfish	4	61.7	0.348	3	
934	Olmsted	2014	channel catfish	4	54.7	0.055	3	
947	Olmsted	2014	black buffalo	3	43	0.274	3	
955	Olmsted	2014	smallmouth buffalo	3	42.7	0.179	3	0.15
974	Open Water	2014	freshwater drum	3	32.5	0.103	3	
974	Open Water	2014	freshwater drum	3	43.5	0.486	1	
974	Open Water	2014	common carp	3	64.5	0.139	1	
974	Open Water	2014	common carp	3	55.5	0.144	2	
974	Open Water	2014	channel catfish	3	30.75	0.071	2	

APPENDIX I

Total Dissolved Solids Data

Appendix I. ORSANCO Total Dissolved Solids Results Summary

River	Mile	Ohio River	TDS Result, mg/L		
			Min	Median	Max
Allegheny	8.2	0	62	161.5	236
Monongahela	4.5	0	113	218.0	362
Ohio	11.7	11.7	124	205.0	280
Beaver	6	25	163	276.0	386
Ohio	65.3	65.3	104	206.0	307
Ohio	86.8	86.8	106	217.0	328
Ohio	137.2	137.2	110	222.0	359
Muskingum	29	172	148	362.0	584
Ohio	190.5	190.5	106	227.0	364
Ohio	260	260	160	222.0	368
Ohio	306	306	126	188.5	301
Big Sandy	23.6	317.1	155	362.0	579
Ohio	462.8	462.8	150	195.0	335
Ohio	600	600	166	215.0	332
Ohio	791.5	791.5	160	223.0	341
Ohio	978	978	142	203.0	339

APPENDIX J

2015 Microcystin results for the Ohio River

Appendix J. 2015 Microcystin Results

Date	ORM	River	Location Description	Microcystin by ELISA*	Total Microcystins by LC/MS**	Units
9/1/2015	54.4	Ohio	New Cumberland L&D	<0.30	-	ug/L
9/9/2015	54.4	Ohio	New Cumberland L&D	<0.30	-	ug/L
9/16/2015	54.4	Ohio	New Cumberland L&D	<0.30	-	ug/L
9/30/2015	54.4	Ohio	New Cumberland L&D	<0.30	-	ug/L
8/26/2015	55.0	Ohio	RDB	1.5	-	ug/L
8/26/2015	65.0	Ohio	LDB-D	<0.30	-	ug/L
8/21/2015	65.2	Ohio	From River near Steubenville Intake	<0.30	-	ug/L
8/21/2015	65.3	Ohio	Steubenville Water Intake	<0.30	-	ug/L
9/9/2015	65.3	Ohio	Steubenville Water Intake	<0.30	-	ug/L
8/21/2015	70.8	Ohio	Follansbee	<0.30	-	ug/L
8/26/2015	74.7	Buffalo Creek	Buffalo Creek RM 0.1 (WV)	<0.30	-	ug/L
8/26/2015	74.7	Buffalo Creek	Buffalo Creek RM 1.0 (WV)	0.97	-	ug/L
9/16/2015	74.7	Buffalo Creek	Buffalo Creek	<0.30	-	ug/L
8/26/2015	81.4	Short	Short Creek (OH)	2.5	-	ug/L
9/9/2015	81.4	Short	Short Creek (OH)	<0.30	-	ug/L
9/16/2015	81.4	Short	Short Creek (OH)	<0.30	-	ug/L
8/26/2015	84.0	Ohio	LDB	0.41	-	ug/L
8/21/2015	84.1	Ohio	On Ohio River near mouth of Short Creek	0.558	-	ug/L
9/1/2015	84.2	Ohio	Pike Island	2.3	-	ug/L
9/9/2015	84.2	Ohio	Pike Island	<0.30	-	ug/L
9/16/2015	84.2	Ohio	Pike Island	3.8	-	ug/L
9/30/2015	84.2	Ohio	Pike Island	<0.30	-	ug/L
10/7/2015	84.2	Ohio	Pike Island	<0.30	-	ug/L
8/27/2015	84.5	Ohio	LDB	4.8	-	ug/L
8/21/2015	86.8	Ohio	OR 86.9	<0.30	-	ug/L
8/27/2015	86.8	Ohio	LDB	<0.3	-	ug/L
8/27/2015	86.8	Ohio	LDB-D	3.1	-	ug/L
8/28/2015	86.8	Ohio	Wheeling water intake	<0.30	-	ug/L
9/9/2015	86.8	Ohio	Wheeling water intake	<0.30	-	ug/L
9/9/2015	89.8	Ohio	Wheeling Island Back Channel	0.98	-	ug/L
9/16/2015	90.2	Ohio	Ohio River @ Wheeling Island	1.4	-	ug/L
8/21/2015	93.8	Ohio	Bellaire WTP	<.30	-	ug/L
9/9/2015	113.8	Fish Creek	Fish Creek (WV) Mouth	0.45	-	ug/L
9/16/2015	113.8	Fish Creek	Fish Creek (WV) near Woodland Bridge	150	-	ug/L
9/16/2015	113.8	Fish Creek	Fish Creek (WV) Mouth	<0.30	-	ug/L
10/7/2015	113.8	Fish Creek	Fish Creek (WV) near Woodland Bridge	<0.30	-	ug/L
8/27/2015	115.0	Ohio	RDB	630	-	ug/L
8/27/2015	115.0	Ohio	LDB	59	-	ug/L
9/9/2015	115.0	Ohio	ORM 115-RDB	42	-	ug/L
9/9/2015	115.0	Ohio	ORM 115-LDB	2.4	-	ug/L
9/16/2015	115.0	Ohio	LDB	0.3	-	ug/L
9/16/2015	115.0	Ohio	RDB	11	-	ug/L
10/7/2015	115.0	Ohio	RDB	<0.30	-	ug/L
9/1/2015	126.4	Ohio	Hannibal	3	-	ug/L
9/9/2015	126.4	Ohio	Hannibal	<0.30	-	ug/L
9/16/2015	126.4	Ohio	Hannibal	<0.30	-	ug/L
9/30/2015	128.4	Ohio	Hannibal	<0.30	-	ug/L
8/28/2015	137.2	Ohio	Sistersville water intake	1.8	-	ug/L
9/9/2015	137.2	Ohio	Sistersville water intake	1.2	-	ug/L
9/2/2015	161.7	Ohio	Willow Island	3.1	-	ug/L

Appendix J. 2015 Microcystin Results

Date	ORM	River	Location Description	Microcystin by ELISA*	Total Microcystins by LC/MS**	Units
9/2/2015	203.9	Ohio	Belleville	4.2	-	ug/L
10/14/2015	230.6	Ohio	RAC1	0.763	<0.50	ug/L
10/14/2015	237.3	Ohio	RAC2	<0.15	<0.5	ug/L
9/9/2015	238.1	Ohio	38° 55' 18" - 81° 54' 16"	-	0.45	ug/L
9/9/2015	263.1	Ohio	38° 52' 29" - 82° 08' 17"	-	11	ug/L
9/2/2015	265.0	Ohio	Point Pleasant	250	-	ug/L
10/1/2015	265.3	Ohio	Ohio River at Point Pleasant	<0.30	-	ug/L
9/9/2015	265.6	Kanawha	38° 49' 46" - 82° 07' 38" , Kanawha RM 0.7	-	<0.25	ug/L
9/9/2015	266.7		38° 49' 29" - 82° 09' 17"	-	51	ug/L
9/9/2015	277.9	Ohio	38° 41' 58" - 82° 11' 02"	-	34	ug/L
8/31/2015	279.2	Ohio	RC Byrd	0.96	-	ug/L
9/2/2015	279.2	Ohio	RC Byrd	5.1	-	ug/L
9/17/2015	282	Ohio	O282.0 BAF	0.232	<0.50	ug/L
9/1/2015	304.0	Ohio	Huntington- River Intake	0.92	-	ug/L
9/9/2015	305.2	Guyandotte	38° 25' 52" - 82° 23' 29" , Guyandotte RM 0.1	-	20	ug/L
9/9/2015	308.1		38° 25' 29" - 82° 26' 25" , LDB Huntington	-	8.6	ug/L
10/21/2015	322.7	Ohio	Ohio Ohio River at Ashland	<0.15	<0.50	ug/L
10/21/2015	336.4	Little Sandy	Little sandy Greenup boat ramp	1.38	2.12	ug/L
10/21/2015	336.4	Little Sandy	Little sandy Little sandy DW intake	0.21	<0.50	ug/L
10/29/2015	336.4	Little Sandy	Little sandy Greenup boat ramp	<0.15	<0.50	ug/L
10/29/2015	336.4	Little Sandy	Little sandy Little Sandy DW intake	<0.15	<0.50	ug/L
9/9/2015	340.7	Ohio	38° 38' 33" - 82° 51' 37"	-	3.6	ug/L
9/2/2015	341.0	Ohio	Greenup	1.8	-	ug/L
9/9/2015	341.5	Ohio	Greenup tailwater	-	2.8	ug/L
9/21/2015	341.8	Ohio	O341.8 RDB	6.11	4.38	ug/L
10/29/2015	342.7	Ohio	Ohio Ohio River at Ashland	<0.15	<0.50	ug/L
10/21/2015	354.7	Ohio	Ohio South shore bank	<0.15	<0.50	ug/L
10/29/2015	354.7	Ohio	Ohio South Shore bank	<0.15	<0.50	ug/L
9/9/2015	356	Ohio	Portsmouth ramp	-	3.6	ug/L
9/21/2015	356.1	Ohio	O356.1 RDB	9.47	6.65	ug/L
9/9/2015	356.7	Ohio	On Ohio DS Scioto	-	590	ug/L
9/21/2015	356.7	Ohio	O356.7 RDB	4.07	3.21	ug/L
10/21/2015	368.1	Kiniconic	Kiniconic creek Ohio River at Garrison	0.193	<0.50	ug/L
10/29/2015	368.1	Kiniconic	Kiniconic Creek Garrison ramp	<0.15	<0.50	ug/L
10/21/2015	378.3	Salt Lick Creek	Salt lick creek Vanceburg ramp	2.5	2.19	ug/L
10/29/2015	378.3	Salt Lick Creek	Salt lick creek, Vanceburg Ramp Vanceburg	<0.15	<0.50	ug/L
9/21/2015	405.5	Ohio	O405.5 RDB	255	177	ug/L
10/21/2015	405.5	Ohio	Ohio DP&L	<0.15	<0.50	ug/L
10/29/2015	405.5	Ohio	Ohio DP&L	<0.15	<0.50	ug/L
9/9/2015	407	Ohio	Maysville intake	-	6.6	ug/L
9/21/2015	408.4	Ohio	O408.4 LDB	2.25	0.917	ug/L
9/3/2015	414	Ohio	ORSANCO - 0414-HAB-RDB	>5.00	120	ug/L
10/21/2015	414	Ohio	Ohio	0.167	<0.50	ug/L
10/29/2015	414	Ohio	Ohio	<0.15	<0.50	ug/L
9/3/2015	424	Ohio	ORSANCO - 0424-HAB-RDB	0.157	<0.50	ug/L
9/3/2015	434	Ohio	ORSANCO - 0434-HAB-RDB	44.9	28.3	ug/L
9/21/2015	434	Ohio	O434.0 RDB	0.552	<0.50	ug/L

Appendix J. 2015 Microcystin Results

Date	ORM	River	Location Description	Microcystin by ELISA*	Total Microcystins by LC/MS**	Units
9/9/2015	434.2	Ohio	Chilo ramp	-	1.4	ug/L
10/21/2015	434.2	Ohio	Ohio Chilo park/ramp	<0.15	<0.50	ug/L
10/29/2015	434.2	Ohio	Ohio Chilo ramp	0.891	0.677	ug/L
11/2/2015	434.2	Ohio	Ohio	-	-	ug/L
9/2/2015	436.2	Ohio	Meldahl	0.37	-	ug/L
9/3/2015	460.2	Ohio	ORSANCO - OR 460.2	<0.15	<0.50	ug/L
9/15/2015	462.6	Ohio	ORM 462.6	9.78	8.84	ug/L
10/6/2015	462.6	Ohio	O462.6-R	0.675	1.01	ug/L
9/25/2015	463	Ohio	O463.0 LDB	0.326	<0.50	ug/L
9/8/2015	468.8	Ohio	OR 468.8	-	1900	ug/L
9/3/2015	469.8	Ohio	ORSANCO - OR 469.8	<0.15	<0.50	ug/L
9/8/2015	470	Ohio	OR 470	-	12	ug/L
9/8/2015	470	Ohio	ORSANCO - 0470-HAB-RDB	78.8	53.6	ug/L
9/15/2015	470	Ohio	ORM 470	1.82	0.822	ug/L
9/22/2015	470	Ohio	O470.0 RDB	15.7	14.2	ug/L
9/25/2015	470	Ohio	O470.0 RDB	0.659	<0.50	ug/L
10/6/2015	470	Ohio	Ohio River RDB 470.0	<0.15	<0.50	ug/L
9/3/2015	470.3	Ohio	ORSANCO - OR 470.3 LDB	<0.15	<0.50	ug/L
9/15/2015	477.5	Ohio	ORM 477.5	9.24	7.64	ug/L
10/6/2015	477.5	Ohio	ORM 477.5 Mid	0.194	<0.50	ug/L
9/8/2015	493.5	Ohio	ORSANCO - 0493.5-HAB-RDB	<0.15	<0.50	ug/L
9/8/2015	515	Ohio	ORSANCO - 0515-HAB-RDB	402	273	ug/L
10/20/2015	515	Ohio	Ohio Near day mark 514.9	<0.15	<0.50	ug/L
10/27/2015	515	Ohio	ORM 515	<0.15	<0.50	ug/L
9/8/2015	531	Ohio	ORSANCO - 0531-HAB-LDB	23.2	17.6	ug/L
10/20/2015	531	Ohio	Ohio Near bull nose of markland L&D	<0.15	<0.50	ug/L
10/27/2015	531	Ohio	Ohio Near bullnose of L&D	<0.15	<0.50	ug/L
9/1/2015	531.5	Ohio	Markland	0.79	-	ug/L
9/9/2015	533	Ohio	ORSANCO - 0533-HAB-LDB	<0.150	-	ug/L
9/9/2015	558	Ohio	ORSANCO - 0558-HAB-RDB	0.93	-	ug/L
9/9/2015	558	Ohio	ORSANCO - 0558-HAB-RDB DUP	2.70	-	ug/L
9/9/2015	580	Ohio	ORSANCO - 0580-HAB-LDB	0.17	-	ug/L
9/9/2015	603	Ohio	ORSANCO - 0603-HAB-LDB	<0.150	-	ug/L
9/9/2015	605	Ohio	ORSANCO - 0605-HAB-MID	<0.150	-	ug/L
9/1/2015	606.8	Ohio	McAlpine	<0.30	-	ug/L
9/23/2015	607.5	Ohio	MID, downstream of McAlpine	0.84	<0.5	ug/L
9/23/2015	619.3	Ohio	Ohio River 619.3	0.465	<0.5	ug/L
9/23/2015	629.9	Salt River	Salt River Trib @ 0.2 SRM LDB, from boat at	0.757	<0.5	ug/L
9/23/2015	630	Ohio	Ohio River at 630 MID	0.35	<0.5	ug/L
9/23/2015	646	Ohio	Ohio River at 646 LDB	8.36	5.9	ug/L
9/23/2015	663	Ohio	Ohio River at 663 RDB	7.44	5.34	ug/L
9/23/2015	720.5	Ohio	Ohio River at 720.5 RDB	<0.15	-	ug/L
9/29/2015	720.7	Ohio	Cannelton L&D	0.948	<0.50	ug/L
9/23/2015	727.2	Ohio	Ohio River at 727.2 RDB	<0.15	<0.5	ug/L
9/29/2015	742.1	Ohio	Gandview Ramp	0.156	<0.50	ug/L
9/29/2015	776.1	Ohio	Newburgh L&D	0.298	<0.50	ug/L
10/8/2015	776.1	Ohio	Newburgh L&D	59.1	36.4	ug/L
10/14/2015	776.1	Ohio	Ohio @ Newburgh	0.186	<0.50	ug/L
9/15/2015	782	Ohio	ORM 782.0 BAF sampling Site	<0.15	<0.50	ug/L
10/8/2015	791.2	Ohio	791.5 RDB	0.21	<0.50	ug/L

Appendix J. 2015 Microcystin Results

Date	ORM	River	Location Description	Microcystin by ELISA*	Total Microcystins by LC/MS**	Units
10/14/2015	791.2	Ohio	Ohio LST Dock	0.175	<0.50	ug/L
9/29/2015	803.9	Ohio	Henderson Ramp	0.298	<0.50	ug/L
10/7/2015	803.9	Ohio	803.9 LDB	0.23	<0.5	ug/L
10/14/2015	803.9	Ohio	Ohio Henderson ramp	0.186	<0.50	ug/L
10/7/2015	846	Ohio	JT Myers L&D	<0.15	<0.50	ug/L
10/7/2015	918.5	Ohio	Smithland L&D	<0.15	<0.5	ug/L