

Appendix A:
Locks and Dams,
Tributaries, Flow, and
Ohio River Discharges

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

Appendix A: Selected Tributaries to the Ohio River

Enters Ohio River at Mile					Enters Ohio River at Mile				
Point	Stream Name	State	Stream Length (Miles)	Drainage Area (Sq. Miles)	Point	Stream Mile	State	Stream 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		

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Enters Ohio River at Mile Point	Stream Name	State	Stream Length (Miles)	Drainage Area (Sq. Miles)	Enters Ohio River at Mile Point	Stream Mile	State	Stream 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	SYMMES 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

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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	255	6970
434.4	LITTLE SNAG CREEK	KY			546.4	GREEN VALLEY CREEK	IN		
435.7	BIG SNAG CREEK	KY			546.6	LITTLE KENTUCKY RIVER	KY	35	147
443.8	LITTLE INDIAN CREEK	OH			549.6	LOCUST CREEK	KY		
445.3	BIG INDIAN CREEK	OH			550.5	INDIAN KENTUCK CREEK	IN		150
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

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Point	Stream Name	State	Stream Length (Miles)	Drainage Area (Sq. Miles)	Point	Stream Mile	State	Stream Length (Miles)	Drainage Area (Sq. Miles)
616.3	MILL CREEK CUTOFF	KY			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	SLICK CREEK	KY		
629.7	SALT RIVER	KY	125	2,890	710.8	CLOVER CREEK	KY		
633.3	ABRAHAMS 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 HALLOW	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	LICK 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

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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	BEAVERDAMN 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			

Month and Year	Ohio River Mile 84.2				Ohio River Mile 531.5				Ohio River Mile 918.5			
	Maximum	Minimum	Average	% long-term Average	Maximum	Minimum	Average	% long-term Average	Maximum	Minimum	Average	% long-term Average
June 2006	3,890	71,220	27,225	96%	25,357	169,873	70,888	83%	62,220	196,585	122,014	75%
July 2006	14,343	56,077	31,221	152%	48,127	181,307	84,974	153%	65,495	207,754	127,401	131%
August 2006	5,625	54,697	17,573	103%	22,261	81,123	37,282	87%	37,979	92,641	62,306	90%
September 2006	13,417	54,111	31,283	151%	38,607	113,175	68,203	151%	35,514	320,157	131,820	193%
October 2006	19,439	122,340	58,087	269%	53,251	258,488	122,433	256%	60,694	298,386	167,061	220%
November 2006	29,203	139,763	66,974	193%	64,935	260,259	147,765	197%	152,359	364,725	261,172	224%
December 2006	24,335	62,648	37,245	71%	47,268	158,403	95,859	80%	112,828	328,265	196,089	101%
January 2007	32,491	183,606	85,276	147%	94,461	369,745	213,594	146%	261,614	604,793	422,671	175%
February 2007	9,808	73,366	29,105	52%	45,603	209,667	87,747	57%	79,598	268,721	158,961	61%
March 2007	49,048	208,948	109,194	153%	122,327	389,112	259,469	138%	214,959	501,705	368,628	119%
April 2007	38,927	120,619	68,087	109%	81,188	351,990	167,485	105%	173,083	428,787	291,695	108%
May 2007	8,286	62,197	26,387	56%	22,452	132,636	67,341	50%	33,688	208,265	120,589	49%
June 2007	4,994	21,780	12,089	43%	14,905	56,509	31,969	38%	2,810	104,873	49,638	31%
July 2007	3,206	26,553	10,936	53%	11,861	58,720	30,641	55%	2,781	82,930	48,268	50%
August 2007	5,765	77,692	23,054	134%	5,535	95,792	41,962	97%	9,737	97,507	54,890	79%
September 2007	4,145	16,322	9,106	44%	12,459	37,326	25,785	57%	10,097	73,505	35,988	53%
October 2007	4,001	29,310	10,754	50%	12,246	73,611	30,396	64%	3,162	203,534	58,505	77%
November 2007	9,853	84,254	28,281	81%	21,100	141,296	51,744	69%	26,532	139,298	66,699	57%
December 2007	39,940	195,596	91,162	175%	88,182	368,498	185,541	156%	153,213	532,655	299,856	154%
January 2008	18,483	108,295	52,792	91%	45,548	288,128	120,965	83%	88,827	411,419	232,012	96%
February 2008	46,117	220,879	93,697	167%	120,566	407,862	214,601	140%	120,812	605,857	383,156	146%
March 2008	34,295	194,295	103,055	144%	132,945	454,952	303,637	161%	230,804	782,811	520,982	169%
April 2008	21,856	83,693	48,174	77%	68,246	320,860	154,114	96%	131,703	652,477	409,451	152%
May 2008	20,549	87,723	54,658	116%	55,883	244,600	145,718	109%	121,147	387,981	246,714	101%
June 2008	11,073	96,942	29,205	103%	33,886	302,248	97,060	114%	90,345	352,308	218,706	134%
July 2008	8,909	47,216	24,237	118%	19,484	96,356	62,687	113%	51,075	156,111	111,442	115%
August 2008	3,967	23,045	11,643	68%	10,376	45,124	27,228	63%	2,213	84,969	50,103	72%
September 2008	3,499	21,802	9,330	45%	2,092	50,111	23,568	52%	8,022	72,037	39,806	58%
October 2008	5,755	15,294	9,178	43%	10,414	35,794	23,333	49%	9,648	80,972	38,243	50%
November 2008	4,752	32,376	14,309	41%	13,507	55,404	29,949	40%	23,615	73,854	47,306	41%
December 2008	19,243	141,693	76,768	147%	38,216	259,794	131,700	111%	39,833	362,184	158,645	82%

* % Long-Term Average calculated by dividing the harmonic mean flow by the median flow for each location

Month and Year	Ohio River Mile 84.2				Ohio River Mile 531.5				Ohio River Mile 918.5			
	Maximum	Minimum	Average	% long-term Average	Maximum	Minimum	Average	% long-term Average	Maximum	Minimum	Average	% long-term Average
February 2009	28,324	153,988	68,315	122%	75,843	271,220	151,334	99%	156,104	393,042	281,220	107%
March 2009	22,742	111,121	50,112	70%	52,792	152,606	106,936	57%	142,861	239,330	189,813	61%
April 2009	23,430	84,102	50,078	80%	69,815	188,734	139,574	87%	211,653	345,134	283,630	105%
May 2009	14,439	117,238	44,440	94%	45,382	302,562	141,585	106%	193,300	497,321	301,688	124%
June 2009	10,998	56,358	28,467	101%	43,971	119,835	88,732	104%	132,881	226,250	182,691	112%
July 2009	8,133	28,329	16,246	79%	2,313	80,744	39,285	71%	33,241	123,212	75,265	78%
August 2009	7,129	41,878	24,196	141%	11,616	147,129	67,125	156%	37,987	236,455	114,773	165%
September 2009	2,918	19,276	9,941	48%	9,002	84,980	33,263	74%	9,345	147,196	53,645	79%
October 2009	9,895	46,681	20,996	97%	28,795	93,207	53,100	111%	24,993	192,639	118,730	157%
November 2009	12,524	43,519	21,903	63%	36,537	113,472	62,907	84%	72,144	242,906	132,321	113%
December 2009	15,286	92,168	47,642	91%	41,982	285,316	127,560	107%	64,298	357,374	206,232	106%
January 2010	12,153	195,378	58,837	102%	42,659	407,410	148,734	102%	72,089	456,050	198,002	82%
February 2010	16,003	84,722	37,183	66%	59,656	254,498	122,267	80%	113,024	498,392	248,983	95%
March 2010	25,010	183,701	79,501	111%	82,355	426,795	209,014	111%	129,627	469,711	276,898	90%
April 2010	12,659	52,256	26,202	42%	40,908	182,885	78,082	49%	74,410	341,803	164,063	61%
May 2010	15,417	67,369	44,090	94%	65,228	345,223	149,751	112%	149,298	576,807	303,336	124%
June 2010	11,412	70,967	28,604	101%	36,772	174,647	93,746	110%	110,425	244,925	167,191	103%
July 2010	3,169	24,963	12,283	60%	28,218	102,375	47,919	86%	56,547	177,515	105,165	109%
August 2010	3,631	19,160	10,544	62%	10,128	52,316	30,997	72%	33,443	88,805	56,062	81%
September 2010	2,882	13,564	7,953	38%	9,154	37,820	23,971	53%	4,581	85,646	37,316	55%
October 2010	6,603	22,456	13,769	64%	7,188	44,766	27,133	57%	8,493	67,815	36,727	48%
November 2010	6,794	69,918	22,794	66%	21,856	123,874	45,001	60%	4,374	152,816	56,158	48%
December 2010	12,017	211,820	60,163	115%	30,844	333,718	110,963	93%	48,204	344,755	156,015	80%
January 2011	14,238	75,003	29,629	51%	32,582	156,797	68,709	47%	35,321	214,356	101,171	42%
February 2011	17,628	127,543	58,935	105%	50,471	369,454	139,010	91%	76,637	399,839	163,663	62%
March 2011	45,298	263,573	144,884	203%	154,680	542,895	373,214	198%	349,386	834,361	626,186	203%
April 2011	34,160	169,117	119,642	191%	90,968	470,089	329,709	206%	149,443	892,829	477,100	177%
May 2011	53,038	147,825	85,094	180%	188,755	401,002	249,458	186%	359,972	946,103	614,651	252%
June 2011	8,516	55,860	22,831	81%	32,199	165,495	76,737	90%	74,481	371,190	199,402	123%
July 2011	3,253	20,673	11,750	57%	19,257	69,165	42,575	76%	65,698	205,243	115,591	119%

* % Long-Term Average calculated by dividing the harmonic mean flow by the median flow for each location

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ORMP	Permit Number	Type	Corporation Name	Plant Name
0.0	PA0217611	M	CITY OF PITTSBURGH CSOS	CITY OF PITTSBURGH CSO OUTFALLS
1.9	PA0031933	I	ORION POWER MID WEST, L.P.	BRUNOT ISLAND POWER STATION
3.1	PA0025984	M	ALLEGHENY COUNTY SANITARY AUTHORITY	ALCOSAN WWTP
4.0	WV0076538	I	E. I. DUPONT DE NEMOURS AND COMPANY	LOCAL LANDFILL
4.6	PA0217689	M	MUNICIPAL AUTHORITY OF THE BOROUGH OF WEST VIEW	JOSEPH A. BERKLEY WATER TREATMENT PLANT
5.1	PA0027928	I	GULF OIL LIMITED PARTNERSHIP	NEVILLE ISLAND PLANT
5.3	PA0091227	I	CALGON CARBON CORPORATION	NEVILLE ISLAND PLANT
6.4	PA0041602	I	EXXON COMPANY, U.S.A.	NEVILLE ISLAND TERMINAL
6.6	PA0004979	I	NEVILLE CHEMICAL COMPANY	
6.7	PA0204030	I	CALGON CARBON CORPORATION	NEVILLE ISLAND WEST PLANT
6.8	PA0003832	I	ASHLAND CHEMICAL CORPORATION	NEVILLE ISLAND PLANT
7.0	PA0094722	I	TAPCO, INC.	
8.0	PA0002437	I	SHENANGO, INC.	SHENANGO COKE DIVISION
8.6	PA0093706	M	MUNICIPAL AUTHORITY OF THE TOWNSHIP OF ROBINSON	ROBINSON TOWNSHIP WTP
9.3	PA0028801	M	MOON TOWNSHIP MUNICIPAL AUTHORITY	MONTOUR RUN WWTP
10.9	PA0002984	I	STAR ENTERPRISE	PITTSBURGH SALES TERMINAL
11.2	PA0003816	I	BP PRODUCTS NORTH AMERICA INC.	CORAOPOLIS TERMINAL
11.2	PA0217751	M	BOROUGH OF OSBORNE AND SEWICKLEY	SEWICKLEY WATER AUTHORITY WTP
11.2	PA0026352	M	RIVERVIEW SANITARY AUTHORITY	RIVERVIEW SANITARY AUTHORITY WASTEWATER TREATMENT PLANT
11.6	PA0205991	M	MOON TOWNSHIP MUNICIPAL AUTHORITY	MOON TOWNSHIP MUNICIPAL AUTHORITY WTP
12.3	PA0020681	M	BOROUGH OF SEWICKLEY	SEWICKLEY WWTP
12.8	PA0203718	M	MUNICIPAL AUTHORITY OF THE BOROUGH OF EDGEWORTH	EDGEWORTH WTP
14.0	PA0023159	M	CRESCENT-SOUTH HEIGHTS MUNICIPAL AUTHORITY	CRESCENT-SOUTH HEIGHTS STP
14.2	PA0046906	M	MOON TOWNSHIP MUNICIPAL AUTHORITY	FLAUGHERTY RUN STP
14.2	PA0024589	M	MUNICIPAL AUTHORITY OF THE BOROUGH OF LEETSDALE	LEETSDALE STP
14.5	PA0253138	I	ALMATIS, INC	ALMATIS, INC. LEETSDALE OPERATIONS
15.0	PA0001619	I	DUQUESNE LIGHT	F.R. PHILIPS POWER STATION
15.5	PA0000566	I	HUSSEY COPPER LTD	
16.0	PA0006335	I	KOPPEL STEEL CORPORATION	AMBRIDGE PLANT
17.5	PA0006114	I	LTV STEEL COMPANY, INC.	ALIQIPPA WORKS
17.5	PA0003000	I	CENTRIA	AMBRIDGE PLANT
17.5	PA0027146	M	BOROUGH OF AMBRIDGE MUNICIPAL AUTHORITY	AMBRIDGE BOROUGH STP
17.6	PA0090522	I	SACCO DISPOSAL SITE	AMBRIDGE LANDFILL
18.9	PA0204315	I	J & L STRUCTURAL, INC.	14" PRODUCTS MILL
20.3	PA0028410	M	MUNICIPAL AUTHORITY OF THE BOROUGH OF BADEN	BADEN STP
20.6	PA0025968	M	MUNICIPAL WATER AUTHORITY OF ALIQIPPA	ALIQIPPA WWTP
22.0	PA0036609	M	CONWAY BOROUGH MUNICIPAL AUTHORITY	CONWAY BOROUGH WWTP
22.7	PA0037940	M	CENTER TOWNSHIP SEWER AUTHORITY	ELKHORN RUN WWTP

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ORMP	Permit Number	Type	Corporation Name	Plant Name
22.8	PA0037958	M	CENTER TOWNSHIP SEWER AUTHORITY	MOON RUN STP
23.8	PA0095796	I	PITTSBURGH TUBE COMPANY	MONACA DIVISION
24.0	PA0001295	I	ASHLAND PETROLEUM COMPANY	FREEDOM REFINERY
24.2	PA0034665	I	BEAVER VALLEY HEATING, INC.	MONACA PLANT
25.0	PA0218553	I	BEAVER CONCRETE AND GRAVEL COMPANY	
25.3	PA0026140	M	ROCHESTER AREA JOINT SEWER AUTHORITY	ROCHESTER AREA JOINT SEWER AUTHORITY WWTP
25.6	PA0020125	M	BOROUGH OF MONACA	MONACA WWTP AND CSOS
25.6	PA0002046	I	PITTSBURGH TOOL STEEL, INC.	
26.2	PA0024694	M	BEAVER BOROUGH MUNICIPAL AUTHORITY	BEAVER BOROUGH WWTP
27.5	PA0204528	M	VANPORT TOWNSHIP MUNICIPAL AUTHORITY	VANPORT WATER TREATMENT PLANT
28.1	PA0023698	M	VANPORT TOWNSHIP MUNICIPAL AUTHORITY	VANPORT WWTP
28.3	PA0036684	I	SUN REFINING AND MARKETING COMPANY	BEAVER MARKETING TERMINAL
28.5	PA0002208	I	ZINC CORPORATION OF AMERICA	MONACA SMELTING DIVISION
29.3	PA0218154	I	LOCK 6 LANDING RESTAURANT AND LOUNGE	LOCK 6 WWTP
29.4	PA0001236	I	WESTINGHOUSE ELECTRIC CORPORATION	BEAVER PLANT
29.6	PA0006254	I	NOVA CHEMICALS	BEAVER VALLEY PLANT
30.7	PA0253545	I	PENNSYLVANIA BIODIESEL, INC	KOBUTA YARD
33.3	PA0027481	I	FIRST ENERGY GENERATION CORPORATION	BRUCE MANSFIELD PLANT
34.5	PA0252492	M	SHIPPINGPORT BOROUGH	SHIPPINGPORT STP
34.9	PA0025615	I	FIRST ENERGY NUCLEAR OPERATING COMPANY	BEAVER VALLEY POWER STATION
35.0	PA0027707	I	DUQUESNE LIGHT COMPANY	BEAVER VALLEY UNIT NO.2
35.7	PA0005754	I	JEWEL ACQUISITION, LLC	MIDLAND PLANT
36.4	PA0097870	I	LTV STEEL COMPANY	MIDLAND WORKS
37.0	PA0005754	I	J&L SPECIALTY STEEL, INC.	MIDLAND PLANT
37.4	PA0023701	M	MIDLAND BOROUGH MUNICIPAL AUTHORITY	MIDLAND BOROUGH MUNICIPAL AUTHORITY STP
38.7	PA0218219	I	C&C MARINE MAINTENANCE CO.	C&C MARINE MAINTENANCE CO.
40.0	PA0027481	I	PENNSYLVANIA POWER COMPANY	BRUCE MANSFIELD PLANT
40.1	OH0011410	I	THE HALL CHINA COMPANY	HALL CHINA COMPANY WWTP
40.3	OH0107298	I	HERITAGE-WTI, INC.	
42.1	WV0116505	I	CONGO CORP	
43.0	WV0021768	M	CITY OF CHESTER	CHESTER WWTP
44.6	OH0024970	M	CITY OF EAST LIVERPOOL	EAST LIVERPOOL WWTP
44.8	OH0123617	I	BP OIL COMPANY	EAST LIVERPOOL BULK PLANT WWTP
45.0	WV0005754	I	DIXON TICONDEROGA D.B.A. NEW CASTLE REFRACTORIES	
45.3	OH0133447	I	DALE RUFENER	FARR HILL MOBILE HOME PARK
45.5	WV0004774	I	GLOBE REFRACTORIES, INC.	
45.7	WV0027502	I	THE NEWELL COMPANY	
46.2	OH0030341	M	CITY OF EAST LIVERPOOL	CITY OF EAST LIVERPOOL WTP
47.3	WV0112941	I	DTC ENVIRONMENTAL SERVICES, INC.	

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ORMP	Permit Number	Type	Corporation Name	Plant Name
47.4	WV0004626	I	ERGON-WEST VIRGINIA INC	CONGO PLANT
48.0	OH0012327	I	STERLING CHINA COMPANY	WWTP
48.5	OH0028045	M	VILLAGE OF WELLSVILLE	WELLSVILLE WWTP
49.2	OH0029068	I	MARATHON ASHLAND PETROLEUM LLC	WELLSVILLE TERMINAL
49.6	OH0064157	I	WELLSVILLE STORAGE & TRANSPORTATION TERMINAL	
49.7	OH0140546	I	BUCKEYE INDUSTRIAL MINING COMPANY	COLUMBIANA
49.8	OH0140597	I	OHIO RIVER CLEAN FUELS. LLC	
50.4	WV0101729	M	HANCOCK COUNTY PSD	HANCOCK COUNTY
51.6	WV0049361	I	BOC GASSES	NEWELL PLANT
53.9	OH0011525	I	FIRST ENERGY GENERATION CORP	W.H. SAMMIS PLANT
55.1	OH0022225	M	VILLAGE OF STRATTON	STRATTON WWTP
55.6	OH0050539	M	VILLAGE OF EMPIRE	EMPIRE WWTP
57.5	OH0011568	I	OHIO EDISON COMPANY	TORONTO PLANT
57.6	WV0025119	M	CITY OF NEW CUMBERLAND	NEW CUMBERLAND WWTP
59.1	OH0059234	M	CITY OF TORONTO	TORONTO WTP
59.2	OH0011738	I	VALLEY CONVERTING COMPANY, INC.	
60.2	OH0020214	M	CITY OF TORONTO	TORONTO WWTP
60.5	OH0010910	I	TITANIUM METALS CORPORATION	TIMET-TORONTO PLANT
62.0	WV0003336	I	ARCELORMITTAL WEIRTON INC.	
64.3	OH0108014	I	MARATHON ASHLAND PETROLEUM LLC	
65.2	WV0070971	M	CITY OF WEIRTON	WEIRTON WTP
65.8	WV0003425	I	SIGNODE CONSUMABLE PRODUCTS OPERATION	
66.0	WV0091367	I	WEIRTON ICE AND COAL SUPPLY COMPANY	
66.2	WV0023108	M	CITY OF WEIRTON	WEIRTON WWTP
68.0	OH0027511	M	CITY OF STEUBENVILLE	STEUBENVILLE WWTP
68.7	OH0011347	I	WHEELING PITTSBURGH STEEL CORPORATION	STEUBENVILLE NORTH PLANT
68.9	WV0004499	I	MOUNTAIN STATE CARBON, LLC	STEUBENVILLE EAST COKE PLANT
69.4	WV0004588	I	KOPPERS INDUSTRIES, INC.	FOLLANSBEE PLANT
69.7	WV0023281	I	SEVERSTAL WHEELING, INC.	STUEBENVILLE EAST SINTER PLANT
70.4	WV0004502	I	WHEELING - NISSHIN INC.	
70.5	WV0020273	M	CITY OF FOLLANSBEE	FOLLANSBEE WWTP
70.7	OH0011355	I	WHEELING PITTSBURGH STEEL CORPORATION	MINGO JUNCTION SOUTH PLANT
71.6	OH0026565	M	VILLAGE OF MINGO JUNCTION	MINGO JUNCTION WWTP
72.5	WV1002554	I	STARVAGGI INDUSTRIES, INC.	WELLSBURG DOCK AND STOCKPILE FACILITY
73.0	WV0071196	I	EAGLE MANUFACTURING COMPANY	
73.6	WV0070289	I	GENPAK CORPORATION	
74.5	OH0099333	M	VILLAGE OF BRILLIANT WATER PLANT	BRILLIANT WTP
74.7	WV0026832	M	CITY OF WELLSBURG, WATER & SEWER BOARD	WELLSBURG WWTP
75.5	OH0021270	M	BRILLAIA NT WATER & SEWER DISTRICT WWTP	BRILLIANT WWTP

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ORMP	Permit Number	Type	Corporation Name	Plant Name
76.5	OH0012581	I	CARDINAL OPERATING COMPANY (AMERICAN ELECTRIC POWER)	CARDINAL POWER PLANT COMPLEX (BRILLIANT PLANT)
78.5	WV0084182	M	BROOKE COUNTY PUBLIC SERVICE DISTRICT	BEECH BOTTOM WWTP
79.0	WV0114375	I	ARROW CONCRETE COMPANY	
79.4	WV0004511	I	SEVERSTAL WHEELING, INC	
80.7	OH0090891	M	VILLAGE OF TILTONSVILLE	TILTONSVILLE WWTP
81.0	OH0076597	I	WARRENTON RIVER TERMINAL LTD	
83.7	OH0011371	I	RG STEEL, LLC	YORKVILLE PLANT
84.5	OH0120588	I	OHIO COATINGS COMPANY	
86.4	WV0039764	I	WARWOOD TOOL COMPANY	
87.8	OH0011339	I	WHEELING - PITTSBURGH STEEL CORPORATION	MARTINS FERRY PLANT
88.3	WV0026387	I	UNO - VEN COMPANY	
90.2	OH0032433	M	CITY OF BRIDGEPORT	BRIDGEPORT WTP
90.6	WV0005282	I	L. NIEBERGALL ICE AND FREEZER STORAGE	
90.8	WV0023230	M	CITY OF WHEELING	WHEELING WWTP
92.7	OH0059889	I	OXFORD MINING COMPANY, INC.	BELLAIRE DOCK
93.1	OH0076864	I	MARIETTA COAL COMPANY	BELLAIRE REFUSE DISPOSAL SITE
93.2	WV0020648	M	CITY OF BENWOOD	BENWOOD WWTP
94.0	OH0049999	M	EASTERN OHIO REGIONAL WASTEWATER AUTHORITY	EASTERN OHIO REGIONAL WASTEWATER AUTHORITY WWTP
94.7	WV0116033	I	AUTOMATIC RECYCLING, INC.	
96.5	WV0020141	M	CITY OF MCMECHEN	McMECHEN WWTP
97.0	WV0103110	I	ARROW CONCRETE COMPANY	
97.6	OH0027383	M	VILLAGE OF SHADYSIDE	SHADYSIDE WWTP
99.3	WV0020036	M	CITY OF GLEN DALE	GLEN DALE WWTP
100.5	WV0004693	I	TRIANGLE WIRE AND CABLE, INC.	GLEN DALE FACILITY
102.4	OH0011592	I	FIRST ENERGY GENERATING CORP	R.E. BURGER PLANT
102.5	WV0023264	M	CITY OF MOUNDSVILLE	MOUNDSVILLE WWTP
106.5	OH0076040	I	TONKOVICH TRUCKING COMPANY	FLYASH DISPOSAL FACILITY
107.6	WV0081612	M	MARSHALL COUNTY SEWER DISTRICT	MARSHALL COUNTY WWTP
109.5	OH0027219	M	VILLAGE OF POWHATAN POINT	POWHATAN POINT WWTP
110.6	OH0099660	I	OHIO VALLEY TRASLOADING CO	
110.9	WV0005291	I	OHIO POWER CO.	KRAMMER PLANT
111.2	OH0011681	I	BELLAIRE CORPORATION	POWHATAN MINE NO. 1
111.8	WV0004642	I	VENCO L.L.C.	
112.0	WV0005304	I	OHIO POWER CO.	C/O AEP-MITCHELL PLANT
112.4	WV0005304	I	AMERICAN ELECTRIC POWER	OHIO POWER COMPANY MITCHELL PLANT
114.5	WV0076660	I	COLUMBIAN CHEMICALS COMPANY	
115.0	WV0116271	I	CNX GAS COMPANY LLC	
115.5	OH0012211	I	CONSOL ENERGY-CONSOLIDATION COAL CO.	POWHATAN MINE NO. 4

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ORMP	Permit Number	Type	Corporation Name	Plant Name
119.7	WV0004359	I	PPG INDUSTRIES, INC.	NATRIUM PLANT
121.0	WV0004383	I	AIR PRODUCTS AND CHEMICALS, INC.	GEG EH & S FIELD SUPPORT
121.7	WV0005169	I	BAYER CORPORATION	
122.3	WV0077429	I	GRANDVIEW-DOOLIN PUBLIC SERVICE DISTRICT	
123.5	OH0011550	I	ORMET PRIMARY ALUMINUM CORPORATION	HANNIBAL REDUCTION DIVISION FACILITIES
124.7	OH0124991	I	MARIETTA INDUSTRIAL ENTERPRISES, INC.	HANNIBAL DOCKSIDE WASTEWATER TREATMENT WORKS
126.0	WV0114367	I	ARROW CONCRETE COMPANY	
126.4	WV0114499	I	CITY OF NEW MARTINSVILLE	HYDROELECTRIC POWER PLANT
127.8	OH0091103	M	OHIO DEPARTMENT OF TRANSPORTATION	DUFFEY OUTPOST BUILDING
128.7	WV0027472	M	CITY OF NEW MARTINSVILLE	
129.0	WV0109185	I	WETZEL COUNTY LANDFILL	WETZEL COUNTY LANDFILL
133.0	WV0078352	I	PAUL WISSMACH GLASS COMPANY, INC	
133.2	WV0020613	M	CITY OF PADEN CITY	PADEN CITY WWTP
138.2	WV0021814	M	CITY OF SISTERSVILLE	SISTERSVILLE WWTP
142.0	WV0048861	M	FRIENDLY PUBLIC SERVICE DISTRICT	FRIENDLY PSD
142.8	OH0059323	M	FRONTIER BOARD OF EDUCATION	FRONTIER HIGH SCHOOL WWTP
145.0	WV0000094	I	MPM SILICONES, LLC	SISTERSVILLE PLANT
147.0	WV0048861	M	FRIENDLY PUBLIC SERVICE DISTRICT	FRIENDLY WWTP
150.9	WV0051268	M	WEST VIRGINIA DIVISION OF CORRECTIONS	ST. MARYS CORRECTIONAL CENTER
155.1	WV0020168	M	CITY OF ST. MARYS	ST. MARYS WWTP
155.5	WV0111490	I	ST MARYS REFINING COMPANY	
155.6	WV0111635	I	WATSON-HAAS LUMBER CORPORATION	
157.8	WV0024490	M	CITY OF BELMONT	BELMONT WWTP
159.5	OH0099449	I	OHIO OIL GATHERING CORP	BELLS RUN TERMINAL WWT WORKS
160.0	WV0023248	I	ALLEGHENY ENERGY SUPPLY COMPANY, LLC	WILLOW ISLAND POWER STATION
160.6	WV0000787	I	CYTEC INDUSTRIES	WILLOW ISLAND FACILITY
162.9	WV0112640	I	LAMBERT ENTERPRISES, INC.	
164.0	WV0001210	I	CABOT CORPORATION	OHIO RIVER VALLEY PLANT
166.0	WV0112089	I	CARR CONCRETE CORPORATION	
166.8	WV0101443	M	UNION-WILLIAMS PSD	
168.8	OH0127621	I	ERGON TRUCKING, INC.	MARIETTA TERMINAL
171.0	OH0026344	M	CITY OF MARIETTA	MARIETTA WWTP
172.1	WV0022071	M	CITY OF WILLIAMSTOWN	WILLIAMSTOWN WWTP
172.2	OH0104035	I	SUPER AMERICA, INC.	STATION NO. 5237
172.7	WV0054259	I	FENTON ART GLASS COMPANY	
174.9	OH0048747	I	MARATHON ASHLAND PETROLEUM LLC	MARIETTA TERMINALS NOS. 1 AND 2
175.0	OH0005070	I	ASPHALT MATERIALS, INC.	MARIETTA PLANT 2
175.7	OH0003905	I	SOLVAY ADVANCED POLYMERS, LLC	SOLVAY MARIETTA PLANT

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ORMP	Permit Number	Type	Corporation Name	Plant Name
175.7	WV0084221	M	CENTRAL BOAZ PSD	CENTRAL BOAZ PSD
176.7	OH0099252	I	PRAXAIR, INCORPORATED	MARIETTA PLANT
176.8	OH0099538	I	AMERICAN MUNICIPAL POWER-OHIO, INC.	RH GORSUSH STATION WWTP
176.9	OH0004006	I	ELKEM METALS COMPANY	MARIETTA PLANT
179.2	OH0006751	I	CHEVRON ASPHALT COMPANY	MARIETTA TERMINAL
180.3	WV0001422	I	MANVILLE BUILDING MATERIALS CORPORATION	
181.4	WV0023221	M	CITY OF VIENNA	VIENNA WWTP
182.1	OH0005665	I	DEGUSSA ENGINEERED CARBONS, LLC	BELPRE OHIO CARBON BLACK FACILITY
183.2	WV0025011	M	CITY OF PARKERSBURG	PARKERSBURG WTP
183.4	WV0023213	M	PARKERSBURG UTILITY BOARD	PARKERSBURG WWTP
185.7	OH0020621	M	CITY OF BELPRE	BELPRE WWTP
189.7	OH0041335	I	SHELLY MATERIALS INC.	PRICE ISLAND TERMINAL
190.1	WV0001279	I	E.I. DU PONT DE NEMOURS AND COMPANY	WASHINGTON WORKS
191.5	WV0000841	I	SABIC INNOVATIVE PLASTICS	
192.8	WV0076546	I	SENTINEL TRANSPORTATION CO.	PERMIT ISSUED TO CONOCO, INC. (NOW DUPONT COMPANY)
193.0	WV0001775	I	AGA GAS INC.	
195.5	WV0032590	M	LUBECK PSD	LUBECK PSD
210.8	OH0030643	I	TUPPERS PLAINS	CHESTER WATER PLANT
220.8	WV0021989	M	CITY OF RAVENSWOOD	RAVENSWOOD WWTP
226.9	WV0000779	I	CENTURY ALUMINUM OF WV, INC.	
227.3	WV0115932	I	ALCAN ROLLED PRODUCTS, LLC	
229.0	WV0110175	I	PLASMA PROCESSING CORPORATION	
229.4	WV0116661	I	ARMSTRONG WORLD INDUSTRIES	
231.5	WV0046434	I	MCCOY DEVELOPMENT CORP.	MILLWOOD SUBDIVISION WWTP
232.0	OH0005983	I	MARTIN MARIETTA AGGREGATES	APPLE GROVE PLANT
234.2	OH0004413	I	THE SHELLY COMPANY, RICHARDS AND SON, INC	
235.7	WV0092100	I	JESCO CORPORATION	SAND AND GRAVEL MINING
237.5	OH0059561	I	OHIO POWER COMPANY	RACINE HYDROELECTRIC PLANT
241.6	WV0000426	I	FELMAN PRODUCTION, INC	
241.9	WV0001058	I	APPALACHIAN POWER COMPANY	AEP - PHILLIP SPORN PLANT
242.0	WV0048500	I	APPALACHIAN POWER COMPANY	AEP - MOUNTAINEER PLANT
243.0	OH0050661	M	SYRACUSE - RACINE REGIONAL SEWER DISTRICT	SYRACUSE - RACINE WWTP
245.0	WV0032531	M	TOWN OF NEW HAVEN	NEW HAVEN WWTP
247.1	OH0114944	I	ASHLAND BRANDED MARKETING INC.	BULK PLANT #490
247.2	OH0127680	I	G & M FUEL COMPANY	BULK TERMINAL
250.2	OH0021725	M	VILLAGE OF POMEROY	POMEROY WWTP
250.7	WV0021849	M	TOWN OF MASON	MASON WWTP
255.0	OH0026514	M	VILLAGE OF MIDDLEPORT	MIDDLEPORT WWTP

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ORMP	Permit Number	Type	Corporation Name	Plant Name
256.4	WV0105619	M	MASON COUNTY PSD	
258.1	OH0028762	I	OHIO POWER COMPANY	GENERAL JAMES GAVIN PLANT
260.0	OH0005282	I	OHIO VALLEY ELECTRIC COPORATION	KYGER CREEK
260.0	WV0075736	M	POINT PLEASANT WATER WORKS	POINT PLEASANT WTP
260.3	WV0086886	M	CAMP CONLEY PUBLIC SERVICE DISTRICT	MASON COUNTY
262.0	OH0051063	I	GALLIPOLIS HOSPITALITY, INC.	HOLIDAY INN - GALLIPOLIS WWTP
262.9	OH0139947	I	CUSTOM FUEL SERVICES	
263.0	OH0059692	I	MCCARTY CONSTRUCTION INC.	RIVER DOCK WASTEWATER TREATMENT WORKS
264.1	OH0060003	I	WATERLOO COAL COMPANY, INC	WATERLOO RIVER DOCK FACILITY #1
265.0	OH0060151	I	SANDS HILL COAL COMPANY, INC.	ZINN COAL DOCK WWTP
265.4	WV0112046	I	CUSTOM FUEL SERVICES	CUSTOM FUEL SERVICES
265.7	WV0022039	M	CITY OF POINT PLEASANT	POINT PLEASANT WWTP
266.2	OH0125016	I	O-KAN MARINE REPAIR INC.	
266.9	WV0114642	I	KANAWHA RIVER TOWING, INC.	
268.5	OH0006416	M	GALLIA COUNTY RURAL WATER ASSOCIATION	GALLIA COUNTY WTP
268.8	OH0120863	I	BP OIL COMPANY	GALLIPOLIS BULK PLANT
269.8	OH0020478	M	CITY OF GALLIPOLIS	GALLIPOLIS WWTP
273.0	WV0002496	I	ICL SUPRESTA, INC	
274.5	WV0074799	M	MASON COUNTY PUBLIC SERVICE DISTRICT	MASON COUNTY WTP
280.2	WV0000132	I	M & G POLYMERS USA LLC	POINT PLEASANT POLYSTER PLANT-MASON COUNTY
282.1	WV0079138	I	APPLE GROVE LANDFILL	
300.0	WV0114383	I	ARROW CONCRETE COMPANY	
300.5	WV0115398	M	ALCON RESEARCH, LTD	
301.0	WV0104647	I	YMCA GLENBRIER	
303.5	WV0032484	I	CHEVRON HUNTINGTON LIGHT OIL	HUNTINGTON TERMINAL
304.6	WV0023159	M	CITY OF HUNTINGTON SANITARY BOARD	HUNTINGTON WWTP
313.1	OH0094684	M	LAWRENCE COUNTY, BOARD OF COMMISSIONERS	UNION-ROME TOWNSHIPS SUBSEWER DISTRICT WWTP
314.7	WV0064238	I	OGLEBAY NORTON COMPANY	
315.0	WV0115380	I	KOSMOS CEMENT CO	KOSMOS CEMENT CO
315.4	WV0027090	I	SUN OIL COMPANY	
316.0	WV0116432	I	KANAWHA RIVER TERMINAL LLC	
316.1	WV0035912	M	CITY OF KENOVA	KENOVA WWTP
317.0	OH0021814	M	VILLAGE OF SOUTH POINT	SOUTH POINT WWTP
317.1	KY0000388	I	ASHLAND PETROLEUM COMPANY	CATLETTSBURG REFINERY
317.1	KY0035467	M	CITY OF CATLETTSBURG	CATLETTSBURG WWTP
318.4	OH0076392	I	ASHLAND SERVICES COMPANY	FORMER SOUTH POINT ETHANOL SITE
320.3	KY0000558	I	AK STEEL CORPORATION	AK STEEL CORPORATION - COKE PLANT
321.0	KY0060399	I	AK STEEL CORPORATION - WEST WORKS	NORTON LANDFILL
321.1	KY0099651	I	PROGRESS METALS RECLAMATION CO.	

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ORMP	Permit Number	Type	Corporation Name	Plant Name
321.3	KY0022373	M	CITY OF ASHLAND	ASHLAND WWTP
322.7	KY0094005	I	PACTIV CORPORATION	
323.5	KY0000485	I	AK STEEL CORPORATION	ASHLAND WORKS
323.8	OH0060097	I	OLIVER M. ELAM JR. COMPANY, INC.	
324.0	OH0029432	M	VILLAGE OF COAL GROVE	COAL GROVE WWTP
324.4	OH0076619	I	IRONTON COAL COMPANY, ADDINGTON INCORPORATED	IRONTON COAL LOADING FACILITY
324.9	OH0059897	I	RAIL RIVER TERMINAL	
326.4	KY0000124	I	CSX TRANSPORTATION	RUSSELL YARD
327.1	OH0008516	M	CITY OF IRONTON	IRONTON WTP
327.2	OH0025852	M	CITY OF IRONTON	IRONTON WWTP
327.4	KY0109479	M	CITY OF RUSSELL	RUSSELL WTP
327.5	KY0048348	M	GREENUP COUNTY ENVIRONMENTAL COMMISSION	GREENUP COUNTY WWTP
328.5	KY0022926	M	CITY OF WORTHINGTON	WORTHINGTON WWTP
332.3	KY0033553	M	CITY OF WURLAND	WURLAND WWTP
332.5	KY0000493	I	E.I. DU PONT DE NEMOURS AND COMPANY	WURLAND PLANT
332.6	KY0094790	I	SUN CHEMICAL PCI, INCORPORATED	
332.6	KY0000493	I	E.I. DU PONT DE NEMOURS AND COMPANY	WURLAND PLANT
333.3	OH017931	I	DUKE ENERGY	HANGING ROCK ENERGY FACILITY
333.5	OH0099309	I	DOW CHEMICAL CO., USA	HANGING ROCK PLANT
336.1	OH0007391	I	SUNOCO CHEMICALS	HAVERHILL PLANT
336.4	KY0026450	M	CITY OF GREENUP	GREENUP WWTP
347.2	OH0060089	I	STANDARD LAFARGE COMPANY	WHEELERSBURG DOCK
349.0	OH0027201	M	CITY OF PORTSMOUTH	SCIOTOVILLE WWTP
349.2	OH0050962	I	BP AMOCO PLC	BP AMOCO SCIOTOVILLE TERMINAL
350.8	OH0008621	M	CITY OF PORTSMOUTH	PORTSMOUTH WTP
351.8	OH0020613	M	VILLAGE OF NEW BOSTON	NEW BOSTON WWTP
353.6	OH0027197	M	CITY OF PORTSMOUTH	PORTSMOUTH WWTP
353.8	KY0026131	M	CITY OF SOUTH SHORE	SOUTH SHORE WWTP
358.0	KY0075914	I	SAXONY VILLAGE APARTMENTS	
363.2	OH0048305	M	OHIO DEPARTMENT OF NATURAL RESOURCES	SHAWNEE STATE PARK MARINA WWTP
375.5	KY0092061	I	ELECTRIC PLANT BOARD	VANCEBURG LEWIS COUNTY INDUSTRIAL AUTHORITY
375.7	KY0100528	I	SUPERIOR FIBERS, LLC	
378.4	KY0021512	M	ELECTRIC PLANT BOARD	VANCEBURG WWTP
397.8	OH0020842	M	VILLAGE OF MANCHESTER	MANCHESTER WWTP
400.0	OH0023825	M	VILLAGE OF ABERDEEN	ABERDEEN WWTP
405.7	OH0004316	I	DAYTON POWER AND LIGHT COMPANY	J.M. STUART STATION
405.9	KY0105091	M	WESTERN LEWIS RECTORVILLE WATER COOPERATIVE	WESTERN LEWIS RECTORVILLE WATER COOP, MUN. WATER SUPPLY WELL
407.2	KY0100196	I	EPT, DRIVES AND COMPONENTS	EMERSON POWER TRANSMISSION

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ORMP	Permit Number	Type	Corporation Name	Plant Name
408.5	KY0000477	I	WALD MANUFACTURING COMPANY, INC.	
409.8	KY0091359	I	HARPER OIL PRODUCTS, INC.	HARPER OIL PRODUCTS, INCORPORATED
411.2	KY0020257	M	MAYSVILLE UTILITY COMMISSION	MAYSVILLE STP
413.2	KY0094463	I	TEMPLE-INLAND	MAYSVILLE MILL
413.2	KY0022250	I	EAST KENTUCKY POWER COOPERATIVE	HUGH L. SPURLOCK POWER STATION
417.1	OH0020966	M	VILLAGE OF RIPLEY	RIPLEY WWTP
417.2	OH0127175	M	BROWN COUNTY RURAL WATER ASSOCIATION, INC.	RURAL WATER WELLFIELD WTP
424.5	OH0134091	M	VILLAGE OF HIGGINSPOET	HIGGINSPOET WWTP
427.7	KY0021261	M	CITY OF AUGUSTA	AUGUSTA WWTP
441.5	KY0045284	I	DRAVO LIME COMPANY	BLACK RIVER DIVISION
442.7	OH0096571	M	VILLAGE OF MOSCOW	MOSCOW WWTP
443.2	OH0048836	I	DUKE ENERGY OHIO, INC	WILLIAM H. ZIMMER POWER STATION
445.0	KY0090603	I	SPANGLER APARTMENTS	
447.7	OH0010677	M	TATE MONROE WATER ASSOCIATION INC.	TATE MONROE WTP
449.9	OH0021156	M	VILLAGE OF NEW RICHMOND	NEW RICHMOND WWTP
451.4	KY0105031	M	SANITATION DISTRICT NO. 1	EASTERN REGIONAL WWTP
453.0	OH0009865	I	DUKE ENERGY OHIO, INC	W.C. BECKJORD STATION
455.1	OH0049361	M	CLERMONT COUNTY BOARD OF COMMISSIONERS	NINE MILE CREEK WWTP
457.3	KY0088749	I	PRESTRESS SERVICES, INCORPORATED	
462.8	OH0009083	M	GREATER CINCINNATI WATERWORKS	RICHARD MILLER WTP
465.2	OH0025453	M	HAMILTON COUNTY BOARD OF COMMISSIONERS-METROPOLITAN SEWER	LITTLE MIAMI WWTP - MSD OF GREATER CINCINNATI
465.7	OH0085936	I	QUEEN CITY TERMINALS, INC.	
470.0	OH0010031	I	HILLTOP BASIC RESOURCES, INC.	RIVER TERMINAL PLANT
472.5	OH0025461	M	HAMILTON COUNTY COMMISSIONERS	MILL CREEK WWTP
474.4	OH0010120	I	PETER CREMER NORTH AMERICA LP	
474.5	KY0001406	I	BP OIL PIPELINE CO., BROMLEY	BROMLEY TERMINAL
475.6	KY0063274	I	TRANSMONTAIGNE, INCORPORATED	TRANSMONTAIGNE PRODUCT SERVICE, INC.
475.8	OH0047457	I	THE VALVOLINE COMPANY	WWTP
477.0	OH0009598	I	MARATHON ASHLAND PETROLEUM LLC	CINCINNATI LIGHT OIL TERMINAL
477.4	KY0021466	M	SANITATION DISTRICT NO.1 OF CAMPBELL & KENTON COUNTIES	DRY CREEK WWTP
479.4	OH0105716	I	KINDER MORGAN RIVER TRANSPORTATION TERMINAL	
482.0	KY0099694	I	McGINNIS, INCORPORATED	HEBRON DIVISION
482.2	OH0025470	M	HAMILTON COUNTY COMMISSIONERS METRO SEWER DIST	MUDDY CREEK WWTP
483.8	KY0094072	M	SANITATION DISTRICT NO. 1	RIVERSHORE FARMS SUBDIVISION WWTP
484.4	OH0009946	I	INEOS ABS	ADDYSTON FACILITY, PORT PLASTICS PLANT
486.0	OH0024678	M	BOARD OF COMMISSIONERS HAMILTON COUNTY	INDIAN CREEK WWTP
489.7	OH001006	I	MARATHON PETROLEUM CO LLC	NORTH BEND ASPHALT
489.8	OH0009571	I	AGRIUM U.S., INC.	NORTH BEND NITROGEN OPERATIONS
490.0	OH0009873	I	DUKE ENERGY OHIO, INC	MIAMI FORT STATION

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ORMP	Permit Number	Type	Corporation Name	Plant Name
493.0	IN0024538	M	SOUTH DEARBORN REGIONAL SEWER DISTRICT	SOUTH DEARBORN REGIONAL WWTP
494.2	IN0060950	I	PSEG LAWRENCEBURG ENERGY CO.	PSEG
495.0	IN0003131	I	LAWRENCEBURG DISTILLERS INDIANA, LLC	
495.5	IN0002160	I	INDIANA & MICHIGAN POWER (AEP)	TANNERS CREEK PLANT
497.0	IN0050903	M	CITY OF AURORA	CSO OVERFLOW POINTS
502.4	KY0075639	I	RIVER RIDGE PARK, INCORPORATED	RIVER RIDGE PARK WWTP
502.6	KY0080691	M	BOONE COUNTY WATER AND SEWER DISTRICT, SANITATION DISTRICT 1	CHARLES H. KELLY ELEMENTARY SCHOOL
503.0	KY0077917	I	ARLINGHAUS PROPERTIES	ARLINGHAUS PROPERTIES, RIVERSIDE DRIVE
506.0	IN0024431	M	CITY OF RISING SUN	RISING SUN WWTP
510.4	KY0040444	I	DUKE ENERGY KENTUCKY, INC	CINCINNATI GAS & ELECTRIC COMPANY-EAST BEND STATION
516.6	KY0004243	M	KENTUCKY DEPARTMENT OF PARKS	BIG BONE LICK STATE PARK WTP
519.5	IN0056391	M	PATRIOT, TOWN OF	PATRIOT WWTP
529.9	KY0075825	I	CHARLOTTE LOWENDICK SCOTT	RIVER'S EDGE CAMPGROUND
530.0	KY0028118	M	CITY OF WARSAW	WARSAW STP
533.1	KY0100153	I	STEEL TECHNOLOGIES, LP	GHENT FACILITY
534.8	KY0098221	I	GALLATIN STEEL COMPANY	GALLATIN COUNTY STEEL PLANT
535.0	KY0082686	I	GALLATIN TERMINAL COMPANY	
535.3	KY0002038	I	KENTUCKY UTILITIES COMPANY	GHENT GENERATING STATION
537.5	IN0020231	M	TOWN OF VEVAY	VEVAY WWTP
537.9	KY0096890	M	CITY OF GHENT	GHENT WTP
538.7	KY0095877	I	NORTH AMERICAN STAINLESS, LP	
540.5	KY0001279	I	DOW CORNING CORPORATION	CARROLLTON PLANT
543.6	KY0001431	I	ARKEMA INC.	
543.7	KY0071757	I	HARPER OIL PRODUCTS, INC.	
550.5	IN0060470	M	TOWN OF BROOKSBURG WASTEWATER TREATMENT PLANT	BROOKSBURG WWTP
552.0	KY0102920	I	NUGENT SAND COMPANY	MILTON PLANT
552.4	KY0001732	I	AMERIFORM MANUFACTURING, INCORPORATED	
556.6	KY0088625	M	CITY OF MILTON	MILTON WWTP
558.6	IN0025666	M	CITY OF MADISON	MADISON WWTP
560.0	IN0001759	I	INDIANA - KENTUCKY ELECTRIC CORPORATION	CLIFTY CREEK STATION
562.5	IN0020702	M	TOWN COUNCIL OF HANOVER	HANOVER WWTP
571.3	KY0041971	I	LOUISVILLE GAS AND ELECTRIC COMPANY	TRIMBLE COUNTY GENERATING STATION
586.0	IN0053571	I	MULZER CRUSHED STONE, INC.	CHARLESTOWN QUARRY
589.5	KY0038580	M	OLDHAM COUNTY SANITATION DISTRICT	CARDINAL HARBOUR WWTP
592.0	IN0020508	M	CITY OF CHARLESTOWN	CHARLESTOWN WWTP
593.5	IN0001163	I	U.S. DEPARTMENT OF THE ARMY	INDIANA ARMY AMMUNITION PLANT
596.9	KY0044261	M	LOUISVILLE & JEFFERSON COUNTY MSD	GLENVIEW BLUFF SUBDIVISION WWTP
600.0	IN0060224	M	INDIANA-AMERICAN WATER CO., INC./SIOTC	JEFFERSONVILLE SOUTHERN INDIANA OPERATIONS & TREATMENT CNTR

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ORMP	Permit Number	Type	Corporation Name	Plant Name
600.5	KY0097241	I	RIVER ROAD TERMINAL, INC.	
600.7	KYG640139	M	LOUISVILLE WATER COMPANY	B.E. PAYNE WTP
600.8	KY0001830	M	LOUISVILLE WATER COMPANY	ZORN AVENUE WTP
601.1	KY0095702	I	LOUISIANA DOCK COMPANY LLC	
601.2	KY0098710	I	NUGENT SAND COMPANY	NUGENT SAND COMPANY EXTRUSION MILL
602.0	IN0023965	M	OAK PARK CONSERVANCY DISTRICT	OAK PARK CONSERVANCY DISTRICT WWTP
603.0	KY0046027	I	MISSOURI PORTLAND CEMENT COMPANY	LOUISVILLE PLANT
603.0	KY0105236	I	MUHAMMAD ALI CENTER	MUHAMMAD ALI CENTER
603.0	KY0054771	I	MARATHON ASHLAND PETROLEUM LLC	LOUISVILLE RIVER ROAD ASPHALT TERMINAL
603.3	KY0002101	I	LOUISVILLE GAS AND ELECTRIC COMPANY	WATERSIDE STATION
603.5	KY0069809	I	HUMANA, INC.	HUMANA BUILDING
603.5	KY0053783	I	JEFFERSON COUNTY MEDICAL CENTER	MEDICAL CENTER STEAM AND CHILLED WATER PLANT
603.5	KY0080675	I	AL J. SCHNEIDER CO.	GALT HOUSE HOTEL
604.1	IN0023302	M	CITY OF JEFFERSONVILLE & ENVIRONMENTAL MANAGEMENT CORP.	JEFFERSONVILLE WWTP
604.4	IN0060186	I	NATIONWIDE TRUCK SERVICE	
604.5	IN0025313	I	MARATHON ASHLAND PETROLEUM COMPANY	CLARKSVILLE TERMINAL
606.0	KY0002089	I	LOUISVILLE GAS AND ELECTRIC COMPANY	OHIO FALLS GENERATING STATION
606.0	IN0047058	M	TOWN OF CLARKSVILLE	CLARKSVILLE WWTP
606.2	KY0020320	M	U.S. ARMY CORPS OF ENGINEERS-LOUISVILLE	LOUISVILLE REPAIR STATION
606.4	IN0002666	I	CALDWELL-MOSER LEATHER CO., INC.	
606.8	KY0105163	I	TGM CONSTRUCTORS, DBA	MCALPINE LOCK & DAM
609.5	IN0023884	M	CITY OF NEW ALBANY	NEW ALBANY WWTP
610.0	IN0002798	I	PUBLIC SERVICE COMPANY OF INDIANA	GALLAGHER GENERATING STATION
610.5	KY0070301	I	HEYBURN PARTNERSHIP	HEYBURN BUILDING
611.2	KY0002291	I	MARATHON ASHLAND PETROLEUM , LLC	LOUISVILLE-ALGONQUIN TERMINAL
611.6	KY0089711	I	BP PRODUCTS NORTH AMERICA, INCORPORATED	BP LOUISVILLE TERMINAL
612.0	KY0021610	I	ASHLAND INCORPORATED	
612.0	KY0022411	M	LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT	MORRIS FORMAN WWTP
612.3	KY0097179	I	CARBIDE/GRAPHITE GROUP, INC	LOUISVILLE PLANT
612.5	KY0101257	I	FIVE M TRANSPORTATION	
612.9	KY0002305	I	ROHM AND HAAS COMPANY	
613.0	KY0002071	I	LOUISVILLE GAS AND ELECTRIC COMPANY	PADDY'S RUN STATION
613.1	KY0001007	I	REYNOLDS METALS COMPANY	LOUISVILLE PLANT NO. 3
613.1	KY0001589	I	AMERICAN SYNTHETIC RUBBER COMPANY, LLC	
613.1	KY0001457	I	OXY VINYL, LP	BF GOODRICH COMPANY
613.4	KY0001350	I	E.I. DU PONT DE NUMOURS AND COMPANY, INC.	
613.6	KY0002976	I	CITGO PETROLEUM CORPORATION	LOUISVILLE TERMINAL
614.1	KY0064629	I	MARATHON OIL COMPANY	
614.4	KY0002780	I	ASTRAZENECA	ATKEMIX TEN, INCORPORATED

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ORMP	Permit Number	Type	Corporation Name	Plant Name
614.8	KY0001112	I	HEXION SPECIALTY CHEMICALS, INC.	
617.4	IN0059781	M	RDI / CAESARS RIVERBOAT CASINO, L.L.C.	CAESARS INDIANA GAMING FACILITY WWTP
617.4	KY0002062	I	LOUISVILLE GAS AND ELECTRIC COMPANY	CANE RUN GENERATING STATION
617.6	KY0097659	I	ELG METALS, INCORPORATED	
619.2	KY0090875	I	LOUISVILLE AND JEFFERSON COUNTY RIVERPORT AUTHORITY	
619.7	KY0086665	I	INTERPOLYMER CORPORATION	
619.8	KY0103993	I	THORNTON TRANSPORTATION	THORNTON TRANSPORTATION TERMINAL
620.1	KY0021881	I	MARATHON ASHLAND PETROLEUM, LLC	LOUISVILLE CANE RUN ROAD ASHALT TERMINAL
620.1	KY0096504	I	DJ/NYPRO	DJ/NYPRO LOUISVILLE
620.5	KY0021881	I	MARATHON ASHLAND PETROLEUM LLC	LOUISVILLE ASPHALT TERMINAL
621.3	KY0100803	I	JOHNSTOWN ROAD ELEMENTARY SCHOOL	JOHNSTOWN SCHOOL WWTP
621.5	IN0054852	I	US SILICA COMPANY	
622.9	KY0078956	M	LOUISVILLE AND JEFFERSON COUNTY METROPOLITAN SEWER DISTRICT	WEST COUNTY WWTP
626.0	KY0003221	I	LOUISVILLE GAS AND ELECTRIC COMPANY	MILL CREEK STATION
627.3	KY0001210	I	KOSMOS CEMENT COMPANY	KOSMOS CEMENT COMPANY-LOUISVILLE PLANT
627.8	KY0087386	I	LOUISVILLE ENVIRONMENTAL SERVICES	WEST POINT FACILITY
630.5	KY0022152	M	CITY OF WEST POINT	WEST POINT WWTP
637.4	KY0074268	M	OTTER CREEK PARK LODGE	OTTER CREEK PARK WWTP
642.3	KY0043478	I	DOE VALLEY UTILITIES, INC.-	DOE VALLEY WWTP
642.9	KY0021474	M	CITY OF BRANDENBURG	BRANDENBURG WWTP
643.7	KY0002119	I	ARCH CHEMICALS INC.	ARCH CHEMICALS INC.
648.0	IN0060895	I	MULZER CRUSHED STONE, INC.	NEW AMSTERDAM QUARRY
664.0	IN0021121	M	TOWN OF LEAVENWORTH	LEAVENWORTH WWTP
674.0	IN0001139	I	MULZER CRUSHED STONE, INC.	CAPE SANDY QUARRY
710.0	KY0023272	I	CLOVER CREEK BRICK AND TILE	
711.3	KY0026701	M	CITY OF CLOVERPORT	CLOVERPORT WWTP
719.9	KY0001716	I	WEYERHAEUSER COMPANY	HAWESVILLE OPERATION-BLEACHED PULP MILL
725.6	KY0092118	I	ROLL COATER, INCORPORATED	
726.1	KY0101141	I	ALCOA AUTOMOTIVE CASTINGS	KENTUCKY CASTING CENTER
726.1	KY0065838	M	HANCOCK RIVERPORT PROPERTIES	
726.2	IN0001406	I	MAXON MARINE, INC.	
726.3	KY0101206	I	ALCOA	HAWESVILLE WORKS
726.5	IN0043460	M	TELL CITY WATER DEPARTMENT	TELL CITY WTP
726.6	IN0021016	M	CITY OF TELL CITY	TELL CITY WWTP
727.0	KY0001821	I	CENTURY ALUMINUM OF KENTUCKY, LLC	DIVISION OF SOUTHWIRE COMPANY
727.1	KY0002747	I	SOUTHWIRE COMPANY	
728.0	IN0059692	I	MULZER CRUSHED STONE, INC.	CAPE SANDY BARGE WATER DISCHARGE
728.1	KY0001937	I	BIG RIVERS ELECTRIC CO	KENNETH C. COLEMAN STATION
737.7	KY0052744	M	CITY OF LEWISPORT	LEWISPORT WTP

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ORMP	Permit Number	Type	Corporation Name	Plant Name
738.1	KY0023281	I	DAL-TILE INTERNATIONAL	
738.6	KY0025241	M	CITY OF LEWISPORT	LEWISPORT WWTP
743.5	IN0038300	M	TOWN OF GRANDVIEW	GRANDVIEW WWTP
744.7	IN0051845	I	INDIANA & MICHIGAN POWER (AEP)	ROCKPORT GENERATING FACILITY
746.2	IN0021067	M	CITY OF ROCKPORT	ROCKPORT WWTP
749.2	IN0055620	I	ROCKPORT RIVER TERMINAL, INC.	ROCKPORT RIVER TERMINAL
749.7	KY0104566	I	KINDER MORGAN BULK TERMINALS, INC.	OWENSBORO GATEWAY TERMINAL
751.4	KY0100471	I	EVANSVILLE MARINE SERVICE, INC.	EMS OWENSBORO BARGE WASH
751.9	KY0101109	I	POLYPORE INTERNATIONAL, LLC	DARAMIC, INC
752.0	KY0099911	I	SPECIALTY PAPERBOARD, INC.	ENDURA PRODUCTS DIVISION
752.0	KY0001953	I	OWENSBORO SPECIALITY POLYMERS, LLC	
752.8	KY0001295	M	OWENSBORO MUNICIPAL UTILITIES	ELMER SMITH ELECTRIC GENERATING STATION
753.0	KY0083771	I	KENTUCKY FRIED CHICKEN	KENTUCKY FRIED CHICKEN WWTP
753.2	KY0095711	I	SOUTHERN STATES COOPERATIVE, INCORPORATED	SOUTHERN STATES RIVER TERMINAL COMPANY
753.5	KY0001571	I	GREEN RIVER STEEL CORPORATION	
753.9	KY0076147	I	BUEHLER-RUCKRIEGEL	LONG JOHN SILVER'S SEAFOOD RESTAURANT, NO.3 WWTP
754.0	KY0033421	I	BROOKHAVEN EAST 60 APARTMENTS	EAST 60 APARTMENTS WWTP
754.5	KY0023817	I	WYNDALL'S CENTER	WYNDALL'S CENTER WWTP
754.5	KY0071684	I	KROGER COMPANY	KROGER FOOD STORE L-336
754.6	KY0056103	I	OSCAR HORNSBY, INC.	SUPER TEST FOOD MART #22
754.6	KY0073377	M	CITY OF OWENSBORO	OWENSBORO WWTP EAST
754.9	KY0069752	I	MCDONALD'S CORPORATION	MCDONALD'S WWTP
755.3	KY0046019	I	LAFARGE CORPORATION	
755.5	KY0090280	I	OWENSBORO GRAIN COMPANY, INCORPORATED	
755.5	KY0001031	I	SARERAC NORTH AMERICA, INC	
756.0	KY0095729	I	OWENSBORO GRAIN COMPANY - GROUNDWATER REMEDIATION	
757.5	KY0001520	I	SPECIALITY FOOD GROUP	
757.8	KY0020095	M	REGIONAL WATER RESOURCE AGENCY	OWENSBORO - WEST WWTP
757.9	KY0101184	I	DES-BROTHERS MOTEL ASSOCIATES	HOLIDAY INN - OWENSBORO
759.0	KY0093734	I	DART POLYMERS, INCORPORATED	
759.5	KY0099724	I	EAST/WEST MARINE TERMINALS	
768.7	KY0095192	I	KIMBERLY CLARK CORPORATION	OWENSBORO FACILITY
772.5	IN0048429	I	YANKEETOWN DOCK CORPORATION	
773.1	IN0002259	I	SIGECO	F.B. CULLEY SATION
773.5	IN0001155	I	ALUMINUM COMPANY OF AMERICA (ALCOA)	WARRICK OPERATIONS
778.0	IN0023892	M	TOWN OF NEWBURGH	NEWBURGH WWTP
779.0	IN0062839	I	MULZER CRUSHED STONE, INC	NEWBURGH FACILITY
784.2	IN0062243	I	PEABODY MIDWEST MINING, L.L.C.	OHIO RIVER TERMINAL

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ORMP	Permit Number	Type	Corporation Name	Plant Name
784.9	KY0099422	I	OHIO VALLEY MARINE SERVICES, INC.	
790.0	IN0025348	I	MARATHON ASHLAND PETROLEUM COMPANY	EVANSVILLE TERMINAL
791.5	IN0043117	M	CITY OF EVANSVILLE	EVANSVILLE WTP
792.5	IN0033073	M	CITY OF EVANSVILLE & ENVIRONMENTAL MANAGEMENT CORP.	EVANSVILLE EAST WWTP
793.5	IN0002241	I	SOUTHERN INDIANA GAS AND ELECTRIC COMPANY	OHIO RIVER GENERATING STATION
793.6	IN0047091	I	EVANSVILLE TERMINAL CORPORATION	BLACK BEAUTY COAL CO.
794.0	IN0032956	M	CITY OF EVANSVILLE & ENVIRONMENTAL MANAGEMENT CORP.	EVANSVILLE WEST WWTP
794.5	KY0099511	I	EVANSVILLE MARINE SERVICE, INCORPORATED	EVANSVILLE MARINE SERVICE
801.0	KY0095435	I	TRANSMONTAIGNE TERMINALING, INC.	
804.0	KY0002178	I	HENDERSON MUNICIPAL POWER AND LIGHT	
805.6	KY0020711	M	HENDERSON WATER UTILITY	HENDERSON WWTP #1
807.3	KY0002534	I	IMC-AGRICOLA CHEMICAL COMPANY	IMC-AGRICOLA CHEMICAL COMPANY
807.5	KY0100277	I	CONSOLIDATED GRAIN & BARGE MARINE SERVICES	CGB MARINE SERVICES
807.5	KY0092126	I	HENDERSON COUNTY RIVERPORT AUTHORITY	
807.5	KY0024643	I	CUSTOM RESINS, INCORPORATED	CUSTOM RESINS, INCORPORATED
808.0	KY0026514	I	HENDERSON TERMINALING CO.	HENDERSON TERMINALING COMPANY
817.0	IN0052191	I	SOUTHERN INDIANA GAS AND ELECTRIC COMPANY	A.B. BROWN GENERATING STATION
828.2	KY0100773	I	MT. VERNON BARGE SERVICE, INC.	MT. VERNON BARGE SERVICE INC
829.3	IN0035696	M	CITY OF MOUNT VERNON	MT. VERNON WWTP
829.3	IN0003921	M	CITY OF MOUNT VERNON WATER WORKS	MOUNT VERNON WATER WORKS
829.7	IN0002470	I	COUNTRYMARK CO-OP INC.	INDIANA FARM BUREAU REFINERY
830.1	IN0001970	I	MG INDUSTRIES	
830.4	IN0049948	I	MARATHON PETROLEUM COMPANY	MT VERNON TERMINAL
830.8	IN0002895	I	BABCOCK AND WILCOX COMPANY	
831.1	IN0059773	I	CF INDUSTRIES, INC.	MT VERNON TERMINAL
831.2	IN0002101	I	GENERAL ELECTRIC COMPANY	
842.1	KY0025844	M	CITY OF UNIONTOWN	UNIONTOWN WWTP
852.7	KY0001996	I	ISLAND CREEK COAL COMPANY	MORGANFIELD PLANT
859.5	IL0021776	M	CITY OF SHAWNEETOWN	CITY OF SHAWNEETOWN STP
880.5	IL0055581	M	VILLAGE OF CAVE IN ROCK	CAVE IN ROCK STP
889.0	IL0028690	M	VILLAGE OF ELIZABETHTOWN	ELIZABETHTOWN WWTP
891.5	IL0034207	M	CITY OF ROSICLARE	CITY OF ROSICLARE STP
891.7	IL0004251	I	OZARK - MAHONING COMPANY	JOHNSON WORKS, ROSICLARE TAILINGS PONDS
903.0	IL0028991	M	CITY OF GOLCONDA	GOLCONDA WWTP
929.1	KY0096776	I	MCGINNIS, INCORPORATED, DBA	NATIONAL MAINTENANCE & REPAIR OF KENTUCKY, INCORPORATED
934.3	KY0073113	M	PADUCAH WATER WORKS	PADUCAH WTP
934.6	KY0021695	I	MID WEST TERMINAL, INC.	
936.0	KY0022799	M	PADUCAH-McCRACKEN COUNTY JOINT SEWER AGENCY	PADUCAH WWTP

Appendix A: Ohio River Discharge Information

ORMP	Permit Number	Type	Corporation Name	Plant Name
937.5	IL0027782	M	CITY OF BROOKPORT	BROOKPORT STP
942.9	IL0073717	I	U.S. INITED BARGE LINE	METROPOLIS LOCATION
943.5	KY0099368	I	TECO BARGE COMPANY	PADUCAH LOCATION
943.8	KY0042838	I	TYLER MOUNTAIN WATER COMPANY	RAINBOW DIVISION
944.0	IL0029874	M	CITY OF METROPOLIS	METROPOLIS WWTP
944.5	IL0076252	M	CITY OF METROPOLIS	METROPOLIS WATER TREATMENT PLANT
945.0	IL0004421	I	HONEYWELL INTERNATIONAL INCORPORATED	METROPOLIS WORKS
946.0	KY0004049	I	DEPARTMENT OF ENERGY	PADUCAH GASEOUS DIFFUSION PLANT
946.0	KY0004219	I	TENNESSEE VALLEY AUTHORITY	SHAWNEE FOSSIL PLANT
949.5	IL0004081	I	LAFARGE CORPORATION	CEMENT GROUP/ JOPPA PLANT
952.0	IL0004171	I	ELECTRIC ENERGY, INC.	JOPPA GENERATING STATION
952.0	ILG580156	M	JOPPA SANITARY DISTRICT	JOPPA STP
952.5	IL0042773	I	OHIO POWER COMPANY	COOK COAL TERMINAL
973.0	IL0071439	I	CGB WATERFRONT SERVICES	CONSOLIDATED GRAIN & BAGE WATERFRONT SERVICES
973.9	IL0041891	M	CITY OF MOUND CITY	MOUND CITY STP
974.0	IL0077674	I	MOUNDS PRODUCTION COMPANY, LLC	MOUNDS PRODUCTION COMPANY, LLC
975.9	IL0069205	I	AMERICAN COMMERCIAL MARINE SERVICE COMAPANY	LOUISIANA DOCK COMPANY, LLC
979.0	IL0023825	M	CITY OF CAIRO	CAIRO STP

Appendix B:

Monitoring Locations

BIMONTHLY AND CLEAN METALS SAMPLING LOCATIONS

Station Name	River	River Mile Point	Bordering States	Latitude	Longitude
New Cumberland	Ohio	54.4	OH - WV	40.527220	-80.627780
Pike Island	Ohio	84.2	OH - WV	40.149720	-80.713890
Hannibal	Ohio	126.4	OH - WV	39.636110	-80.875280
Willow Island	Ohio	161.7	OH - WV	39.357780	-81.319170
Belleville	Ohio	203.9	OH - WV	39.118610	-81.742220
R.C. Byrd	Ohio	279.2	OH - WV	38.681670	-82.188060
Greenup	Ohio	341.0	OH - KY	38.646940	-82.860280
Meldahl	Ohio	436.2	OH - KY	38.797220	-84.170830
Anderson Ferry	Ohio	477.5	OH - KY		
Markland	Ohio	531.5	IN - KY	38.774720	-84.964440
Louisville	Ohio	600.6	IN - KY		
McAlpine	Ohio	606.8	IN - KY	38.281110	-85.702220
West Point	Ohio	625.9	IN - KY		
Cannelton	Ohio	720.7	IN - KY	37.899440	-86.705560
Newburgh	Ohio	776.1	IN - KY	37.931110	-87.370830
J.T. Myers	Ohio	846.0	IN - KY	37.800000	-87.983330
Smithland	Ohio	918.5	IL - KY	37.145830	-88.406940
Lock & Dam 52	Ohio	938.9	IL - KY	37.125830	-88.651670

Longitudinal Bacteria Sampling Locations

Mile Point	River	Mile Point	River	Mile Point	River	Mile Point	River
1.0	Monongahela	205.7	Ohio	465.4	Ohio	711.5	Ohio
1.0	Allegheny	210.7	Ohio	468.7	Ohio	717.2	Ohio
1.5	Ohio	215.7	Ohio	1.0	Licking	720.7	Cannelton L&D
3.3	Ohio	220.4	Ohio	0.3	Mill Creek	721.5	Ohio
6.2	Emsworth L&D	225.4	Ohio	472.7	Ohio	727.0	Ohio
6.4	Ohio	230.4	Ohio	477.6	Ohio	732.5	Ohio
9.5	Ohio	235.6	Ohio	482.2	Ohio	739.2	Ohio
11.4	Ohio	237.5	Racine L&D	486.2	Ohio	742.4	Ohio
12.5	Ohio	240.4	Ohio	489.7	Ohio	746.4	Ohio
13.2	Dashields L&D	245.4	Ohio	1.0	Great Miami	750.6	Ohio
14.4	Ohio	250.4	Ohio	493.2	Ohio	754.8	Ohio
17.7	Ohio	255.5	Ohio	498.0	Ohio	758.0	Ohio
20.5	Ohio	260.6	Ohio	503.1	Ohio	763.2	Ohio
20.8	Ohio	265.7	0.7	508.3	Ohio	769.1	Ohio
21.8	Ohio	1.3	Kanawha	513.4	Ohio	773.6	Ohio
22.9	Ohio	269.8	Ohio	518.5	Ohio	776.1	Newburgh L&D
25.5	Ohio	275.2	Ohio	523.4	Ohio	778.2	Ohio
1.0	Beaver	279.2	R.C. Byrd L&D	528.4	Ohio	782.8	Ohio
25.8	Ohio	280.8	Ohio	531.7	Markland L&D	2.3	Green
26.4	Ohio	285.9	Ohio	533.2	Ohio	787.0	Ohio
28.3	Ohio	291.4	Ohio	538.5	Ohio	792.7	Ohio
31.7	Montgomery L&D	296.6	Ohio	543.5	Ohio	794.2	Ohio
32.9	Ohio	279.2	R.C. Byrd L&D	1.5	Kentucky	799.5	Ohio
37.6	Ohio	280.8	Ohio	548.3	Ohio	805.8	Ohio
41.2	Ohio	285.9	Ohio	553.6	Ohio	811.3	Ohio
44.8	Ohio	291.4	Ohio	558.8	Ohio	817.0	Ohio
48.7	Ohio	296.6	Ohio	562.7	Ohio	823.2	Ohio
52.5	Ohio	302.0	Ohio	567.6	Ohio	829.5	Ohio
54.4	New Cumberland L&D	1.0	Guyandotte	572.5	Ohio	832.2	Ohio
56.4	Ohio	307.7	Ohio	577.4	Ohio	837.2	Ohio
60.3	Ohio	313.3	Ohio	582.9	Ohio	842.3	Ohio
66.4	Ohio	0.5	Big Sandy	587.8	Ohio	846.0	J.T. Meyers
68.2	Ohio	1.0	Big Sandy	592.2	Ohio	846.5	Ohio
70.7	Ohio	317.2	Ohio	597.1	Ohio	2.0	Wabash
71.8	Ohio	321.5	Ohio	602.2	Ohio	851.3	Ohio
74.9	Ohio	327.4	Ohio	604.3	Ohio	855.5	Ohio
80.2	Ohio	327.7	Ohio	606.8	McAlpine L&D	859.7	Ohio
84.2	Pike Island L&D	328.0	Ohio	607.5	Ohio	864.4	Ohio
85.6	Ohio	332.5	Ohio	609.7	Ohio	1.4	Saline
91.2	Ohio	1.0	Little Sandy	612.2	Ohio	869.8	Ohio
94.2	Ohio	338.1	Ohio	617.6	Ohio	1.2	Tradewater
97.8	Ohio	341.0	Greenup L&D	623.1	Ohio	875.7	Ohio
102.6	Ohio	343.5	Ohio	628.1	Ohio	880.7	Ohio

Longitudinal Bacteria Sampling Locations

Mile Point	River	Mile Point	River	Mile Point	River	Mile Point	River
107.7	Ohio	349.2	Ohio	1.5	Salt	885.0	Ohio
113	Ohio	352.0	Ohio	631.6	Ohio	889.2	Ohio
118.3	Ohio	353.8	Ohio	637.6	Ohio	891.7	Ohio
123.7	Ohio	0.5	Scioto	643.1	Ohio	897.5	Ohio
124.9	Ohio	359.3	Ohio	648.9	Ohio	903.2	Ohio
126.4	Hannibal L&D	364.6	Ohio	607.5	Ohio	908.0	Ohio
129.1	Ohio	369.8	Ohio	609.7	Ohio	912.6	Ohio
133.4	Ohio	375.0	Ohio	612.2	Ohio	917.6	Ohio
138.7	Ohio	380.4	Ohio	617.6	Ohio	918.5	Smithland L&D
144.2	Ohio	385.4	Ohio	623.1	Ohio	3.3	Cumberland
149.6	Ohio	390.6	Ohio	628.1	Ohio	923.4	Ohio
155	Ohio	395.0	Ohio	1.5	Salt	927.9	Ohio
160.4	Ohio	400.4	Ohio	631.6	Ohio	932.2	Ohio
161.7	Willow Island L&D	405.8	Ohio	637.6	Ohio	4.3	Tennessee
165.8	Ohio	411.4	Ohio	643.1	Ohio	936.2	Ohio
171.2	Ohio	416.4	Ohio	648.9	Ohio	937.7	Ohio
1	Muskingum	421.6	Ohio	654.0	Ohio	938.9	L&D 52
175.1	Ohio	426.4	Ohio	659.2	Ohio	940.9	Ohio
179.4	Ohio	431.4	Ohio	664.2	Ohio	944.2	Ohio
183.5	Ohio	436.2	Meldahl L&D	669.1	Ohio	947.5	Ohio
1	L. Kanawha	436.8	Ohio	674.5	Ohio	952.2	Ohio
185.9	Ohio	441.5	Ohio	680.4	Ohio	957.7	Ohio
190.8	Ohio	446.5	Ohio	684.9	Ohio	962.6	L&D 53
195.7	Ohio	451.6	Ohio	690.7	Ohio	963.0	Ohio
1	Hocking	455.3	Ohio	695.6	Ohio	969.2	Ohio
200.7	Ohio	460.0	Ohio	700.9	Ohio	974.1	Ohio
203.9	Belleville L&D	1.0	Little Miami	706.2	Ohio	979.2	Ohio

CONTACT RECREATION BACTERIA SAMPLING LOCATIONS

City	Site	Location Description
Pittsburgh	Site 1	Mile point 1.4M, above Brunot Island A midstream sample is collected by boat at this location
	Site 2	Mile point 4.3, above Davis and Neville Islands A midstream surface grab is collected by boat at this location
Wheeling	Site 1	Milepoint 86.8, at the Wheeling Water Department Intake A grab sample is collected from the raw water intake
	Site 2	Mile point 92.8, at the 48th Street Boat Club A surface grab sample is collected from the dock on the left descending bank
Huntington	Site 1	Mile point 305.1, at the Guyan Marina A surface grab sample is collected from a dock on the left descending bank
	Site 2	Mile point 314.8, at the Kosmos Cement Company A bailer is lowered from a barge mooring on the left descending bank.
Cincinnati	Site 1	Mile point 462.6, at the California Yacht Club A surface grab sample is collected from a dock on the right descending bank
	Site 2	Mile point 470.0, at the Serpentine Wall A surface grab sample is collected on the right descending bank
	Site 3	Mile point 477.5, at the Anderson Ferry A midstream surface grab sample is collected by boat at this locations
Louisville	Site 1	Mile point 594.0, at the Upper Louisville Water Company intake A grab sample is collected from the raw water intake at the water company
	Site 2	Mile point 619.3 at the Greenwood Road Public Access Site A surface grab sample is collected from a dock on the left descending bank
Evansville	Site 1	Mile point 791.5, at the Evansville Water Plant A grab sample is collected from the raw water intake at the water plant
	Site 2	Mile point 793.7, at the Bristol-Myers parking lot A surface grab sample is collected on the right descending bank.

Algae and Nutrient Monitoring Locations

River Mile	River	Site Name	Parameter	Latitude	Longitude
5.0	Ohio	West View Water Authority, Pittsburgh PA	TKN,NH3,TP,N-N/N	40.493056	-80.076389
86.8	Ohio	Wheeling Water Plant, Wheeling, WV	TKN,NH3,TP,N-N/N	40.149722	-80.701667
306.9	Ohio	WV-American Water Company, Huntington, WV	TKN,NH3,TP,N-N/N	38.433300	-82.416400
462.9	Ohio	Northern Kentucky Water, Ft. Thomas, KY	TKN,NH3,TP,N-N/N	39.070390	-84.436840
594.0	Ohio	Louisville Water Company, Louisville, KY	TKN,NH3,TP,N-N/N	38.347310	-85.639130
791.5	Ohio	EA2 Systems, Evansville, IN	TKN,NH3,TP,N-N/N	37.958800	-87.574100
935.5	Ohio	Paducah Water Works, Paducah, KY	TKN,NH3,TP,N-N/N	37.099700	-88.607500

Dissolved Oxygen and Temperature Monitoring Locations

Station	River Mile	Operating Agency	Frequency	Date of Operation	Comments
MONTGOMERY	31.7	USACE	Hourly	2009, 2011-2013	No Data 2010
NEW CUMBERLAND	54.4	ORSANCO	15 Min	Sept 2012-2013	
PIKE ISLAND	84.2	ORSANCO	15 Min	Sept 2012-2013	
HANNIBAL	126.4	Hydropower ORSANCO	Hourly 15 min	2009-2013 2012-2013	Data issues early 2011 and late 2013
BELLEVILLE	203.9	USACE	Hourly	2012-2013	Annually
RACINE	237.5	Hydropower	Hourly	2009-2013	
GREENUP	341	Hydropower	Hourly	2009-2013	Data issues mid-2010 and late 2013
RENSLAR	462.6	ORSANCO	15 Min	Sept 2012-2013	
MARKLAND	531.5	Hydropower	15 Min	2009-2013	Multiple instruments
McALPINE	606.8	Hydropower	Hourly	2011-2013	Sent weekly
CANNELTON	720.7	USACE ORSANCO	Hourly 15 Min	2009-2010 Sept 2012-2013	
NEWBURGH	776.1	USACE ORSANCO	Hourly 15 Min	2009-2010 Sept 2012-2013	
J. T. MYERS	846	USACE ORSANCO	Hourly 30 Min	2009-2010 2011-2013	
SMITHLAND	919	USACE ORSANCO	Hourly 30 Min	2009-2010 2011-2013	

PCB and Dioxin Monitoring Locations

River	Mile Point	Date	River	Mile Point	Date	River	Mile Point	Date
Ohio	4.0	8/2/2000	Ohio	184.3	5/10/2001	Ohio	670.7	5/1/2000
Ohio	4.0	4/25/2001	Ohio	184.3	3/23/2004	Ohio	670.7	11/4/2003
Ohio	4.0	7/13/2004	Ohio	207.7	7/16/1998	Ohio	717.4	5/19/1999
Ohio	10.9	8/3/2000	Ohio	207.7	8/13/1998	Ohio	717.4	7/28/1999
Ohio	10.9	4/26/2001	Ohio	207.7	9/24/1998	Ohio	717.4	5/2/2000
Ohio	10.9	7/14/2004	Ohio	207.7	8/18/2000	Ohio	717.4	9/17/2003
Ohio	20.2	7/7/1998	Ohio	207.7	5/11/2001	Ohio	722.5	5/20/1999
Ohio	20.2	9/15/1998	Ohio	264.0	8/20/1997	Ohio	722.5	7/29/1999
Ohio	20.2	8/4/2000	Ohio	264.0	9/24/1997	Ohio	722.5	5/3/2000
Ohio	20.2	4/27/2001	Ohio	264.0	6/18/1998	Ohio	722.5	9/16/2003
Ohio	30.9	8/5/2000	Ohio	264.0	11/3/1998	Ohio	765.0	5/7/2002
Ohio	30.9	4/30/2001	Ohio	264.0	8/19/2000	Ohio	765.0	10/22/2002
Ohio	30.9	3/30/2004	Ohio	264.0	5/12/2001	Ohio	765.0	5/17/2003
Ohio	30.9	7/15/2004	Ohio	281.5	8/21/1997	Ohio	770.0	5/9/2002
Ohio	40.0	7/8/1998	Ohio	281.5	9/25/1997	Ohio	770.0	10/23/2002
Ohio	40.0	9/16/1998	Ohio	281.5	6/19/1998	Ohio	770.0	5/18/2003
Ohio	40.0	8/8/2000	Ohio	281.5	11/4/1998	Ohio	847.0	5/13/2002
Ohio	40.0	5/1/2001	Ohio	302.9	8/22/1997	Ohio	847.0	10/25/2002
Ohio	44.6	7/9/1998	Ohio	302.9	6/20/1998	Ohio	847.0	5/20/2003
Ohio	44.6	9/17/1998	Ohio	302.9	11/5/1998	Ohio	917.0	5/16/2002
Ohio	69.9	8/9/2000	Ohio	321.5	5/7/1999	Ohio	917.0	10/30/2002
Ohio	69.9	5/2/2001	Ohio	321.5	7/15/1999	Ohio	917.0	5/29/2003
Ohio	69.9	11/4/2004	Ohio	321.5	4/20/2000	Ohio	943.0	5/19/2002
Ohio	99.2	8/11/2000	Ohio	360.0	5/9/1999	Ohio	943.0	11/2/2002
Ohio	99.2	5/3/2001	Ohio	360.0	7/17/1999	Ohio	943.0	6/1/2003
Ohio	99.2	3/31/2004	Ohio	360.0	4/22/2000	Ohio	948.0	5/20/2002
Ohio	99.2	11/3/2004	Ohio	438.6	5/10/1999	Ohio	948.0	11/3/2002
Ohio	129.0	7/14/1998	Ohio	438.6	7/18/1999	Ohio	948.0	6/2/2003
Ohio	129.0	8/11/1998	Ohio	438.6	4/23/2000	Ohio	980.0	5/21/2002
Ohio	129.0	9/22/1998	Ohio	486.5	5/12/1999	Ohio	980.0	11/4/2002
Ohio	129.0	8/12/2000	Ohio	486.5	7/19/1999	Ohio	980.0	6/3/2003
Ohio	129.0	5/4/2001	Ohio	486.5	4/25/2000			
Ohio	149.0	8/13/2000	Ohio	494.5	5/14/1999			
Ohio	149.0	5/5/2001	Ohio	494.5	7/21/1999			
Ohio	149.0	3/25/2004	Ohio	494.5	4/26/2000			
Ohio	171.8	8/14/2000	Ohio	548.3	5/15/1999			
Ohio	171.8	5/7/2001	Ohio	548.3	7/22/1999			
Ohio	171.8	3/24/2004	Ohio	548.3	4/27/2000			
Ohio	175.1	7/15/1998	Ohio	625.6	5/17/1999			
Ohio	175.1	8/12/1998	Ohio	625.6	7/23/1999			
Ohio	175.1	9/23/1998	Ohio	625.6	4/28/2000			
Ohio	175.1	8/16/2000	Ohio	625.6	9/11/2003			
Ohio	175.1	5/9/2001	Ohio	670.7	5/18/1999			
Ohio	184.3	8/17/2000	Ohio	670.7	7/27/1999			

Dissolved Solids Study Monitoring Locations

Site Name	Parameters	River	Ohio River Mile	Tributary River Mile	Latitude	Longitude
Pittsburgh Water	TDS/ Anions/ Cations	Allegheny	0.0	-8.0	40.485190	-79.889560
American Water, Hayes Mine	TDS/ Anions/ Cations	Monongahela	0.0	-25.0	40.410770	-79.954420
Moon Township	TDS/ Anions/ Cations	Ohio	12.0	0.0	40.533387	-80.186743
Beaver Falls	TDS/ Anions/ Cations	Beaver	25.4	-2.0	40.755847	-80.320933
Steubenville Water	TDS/ Anions/ Cations	Ohio	65.0	0.0	40.387128	-80.630420
Wheeling Water	TDS/ Anions/ Cations	Ohio	87.0	0.0	40.114866	-80.703510
Sistersville Water	TDS/ Anions/ Cations	Ohio	137.0	0.0	39.570293	-80.994118
AEP Muskingham	TDS/ Anions/ Cations	Muskingham	172.2	-29.0	40.755847	-80.320933
DuPont Washington Works	TDS/ Anions/ Cations	Ohio	191.0	0.0	39.271859	-81.674587
Kyger Creek	TDS/ Anions/ Cations	Ohio	260.0	0.0	38.938750	-82.109770
American Water, Huntington	TDS/ Anions/ Cations	Ohio	306.0	0.0	38.432699	-82.416831
AEP, Big Sandy River	TDS/ Anions/ Cations	Big Sandy	317.1	-20.0	38.171110	-82.634720
Cincinnati Water Works	TDS/ Anions/ Cations	Ohio	463.0	0.0	39.068639	-84.436083
Louisville Water	TDS/ Anions/ Cations	Ohio	600.0	0.0	38.281412	-85.702570
Evansville Water	TDS/ Anions/ Cations	Ohio	792.0	0.0	37.951919	-87.574894
Cairo	TDS/ Anions/ Cations	Ohio	978.0	0.0	37.019233	-89.174167

Appendix C:

Clean Metals Sampling Results

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
New Cumberland	54.4	16-Jul-08	<0.1	21.42	0.62	40.79	31.96	<0.1	1.05	3.43	<50	<1.5	8.13	0.75	1.21	<0.1	<0.5	<0.5	<0.1	<1
New Cumberland	54.4	24-Sep-08	<0.1	9.64	0.75	50.22	36.32	<0.1	1.62	6.61	<50	<1.5	9.79	1.63	1.98	<0.1	<0.5	0.8	<0.1	2.75
New Cumberland	54.4	12-Nov-08	<0.1	14.07	0.82	58.59	36.36	<0.1	0.52	3.91	<50	<1.5	9.94	36.93	2.69	<0.1	<0.5	0.97	<0.1	4.02
New Cumberland	54.4	09-Feb-09	<0.1	10.15	0.28	42.46	33.12	<0.1	1.05	1.44	<50	<1.5	8.72	135.6	3.24	<0.1	<0.5	<0.5	<0.1	3.96
New Cumberland	54.4	16-Mar-09	<0.1	14.2	0.38	30.74	16.95	<0.1	0.27	1.49	<50	<1.5	4.4	52.12	2.26	<0.1	<0.5	<0.5	<0.1	2.11
New Cumberland	54.4	18-May-09	<0.1	18.59	0.36	37.95	23.21	<0.1	0.54	2.55	<50	<1.5	6.19	64.39	2.18	<0.1	<0.5	<0.5	<0.1	3.15
New Cumberland	54.4	15-Jul-09	<0.1	17.5	0.6	49.12	27.59	<0.1	1.18	3.34	<50	<1.5	7.4	1.73	1.45	<0.1	<0.5	0.92	<0.1	1.15
New Cumberland	54.4	08-Sep-09	<0.1	10.8	0.66	50.03	26.5	<0.1	0.71	3.97	<50	<1.5	6.84	15.41	1.76	<0.1	<0.5	<0.5	<0.1	2.14
New Cumberland	54.4	16-Nov-09	<0.1	11.14	0.51	43.2	25.95	<0.1	0.47	2.6	<50	<1.5	6.31	41.74	2.05	<0.1	<0.5	<0.5	<0.1	1.72
New Cumberland	54.4	18-Jan-10	<0.1	17.81	0.32	50.47	34.22	<0.1	1.15	1.37	<50	<1.5	9.19	119.27	3.8	<0.1	<0.5	<0.5	<0.1	4.52
New Cumberland	54.4	17-Mar-10	<0.1	18.79	0.33	33.15	18.95	<0.1	0.46	1.11	<50	<1.5	5.02	75.05	2.87	0.11	<0.5	<0.5	<0.1	2.45
New Cumberland	54.4	12-May-10	<0.1	18.73	0.49	40.59	30.62	<0.1	1.12	2.59	<50	<1.5	7.98	35.64	2.74	<0.1	<0.5	<0.5	<0.1	2.08
New Cumberland	54.4	20-Jul-10	<0.1	13.43	0.78	62.34	36.67	<0.1	0.64	5.11	<50	R	9.96	3.17	1.78	<0.1	<0.5	0.87	<0.1	3.25
New Cumberland	54.4	23-Sep-10	<0.1	8.98	0.93	90.98	42.53	<0.1	2.42	5.7	<50	<1.5	11.29	1.37	2.59	<0.1	<0.5	1.23	<0.1	2.97
New Cumberland	54.4	02-Nov-10	<0.1	9.42	0.76	57.9	38.13	<0.1	0.77	4.78	<50	<1.5	10.14	6.61	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	43.39	23.46	<0.1	1.06	1.93	<50	<1.5	6.1	73.29	3.11	<0.1	<0.5	<0.5	<0.1	3.92
New Cumberland	54.4	21-Mar-11	<0.1	16.41	0.29	35.66	22.32	<0.1	0.34	1.38	<50	<1.5	6.11	118.15	3.9	<0.1	<0.5	<0.5	<0.1	3.14
New Cumberland	54.4	26-May-11	<0.1	27.34	0.64	36.44	26.48	<0.1	0.52	1.87	<50	<1.5	7.57	37.14	3.22	0.13	<0.5	0.59	<0.1	1.59
New Cumberland	54.4	21-Jul-11	<0.1	17.68	0.85	55.55	42.33	<0.1	1.04	5.78	<50	<1.5	11.82	3.38	2.29	<0.1	<0.5	0.77	<0.1	4.3
New Cumberland	54.4	08-Sep-11	<0.1	11.46	0.55	48.27	39.06	<0.1	1.68	2.76	<50	<1.5	10.46	3.1	2.12	<0.1	<0.5	0.7	<0.1	2.42
New Cumberland	54.4	16-Nov-11	<0.1	13.6	0.45	38.21	30.1	<0.1	<0.1	1.79	<50	<1.5	8.38	67.37	3.06	<0.1	<0.5	<0.5	<0.1	R
New Cumberland	54.4	09-Jan-12	<0.1	16.43	0.48	33.04	25.5	<0.1	0.89	1.35	<50	<1.5	7.08	89.98	3.93	0.12	<0.5	0.51	<0.1	3.38
New Cumberland	54.4	08-Mar-12	<0.1	18.18	0.18	29.81	21.05	<0.1	0.5	0.98	<50	<1.5	5.69	63.2	2.16	<0.1	<0.5	<0.5	<0.1	2.04
New Cumberland	54.4	15-May-12	<0.1	14.59	0.41	35.16	21.94	<0.1	<0.1	2.99	<50	<1.5	5.96	24.73	2.08	<0.1	<0.5	<0.5	<0.1	1.76
New Cumberland	54.4	23-Jul-12	<0.1	11.92	0.79	51.11	37.45	<0.1	0.37	R	<50	<1.5	11.14	3.34	2.07	<0.1	<0.5	1.05	<0.1	2.59
New Cumberland	54.4	19-Sep-12	<0.1	9.45	0.9	46.27	34.87	<0.1	0.5	2.08	<50	<1.5	9.7	11.28	2.21	<0.1	<0.5	1.23	<0.1	2.18
New Cumberland	54.4	20-Nov-12	<0.1	17.47	0.36	33.29	23.15	<0.1	0.18	2.12	<50	<1.5	5.92	66.26	2.58	<0.1	<0.5	<0.5	<0.1	2.95
New Cumberland	54.4	09-Jan-13	<0.1	16.73	0.36	35.88	29.21	<0.1	0.2	1.85	<50	<1.5	7.66	94	3.27	0.14	<0.5	<0.5	<0.1	R
New Cumberland	54.4	20-Mar-13	<0.1	19.38	0.25	31.64	24.84	<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	19.61	0.45	39.95	31.17	<0.1	<0.5	2.54	<50	<1.5	9.02	13.56	2.13	<0.1	<0.5	0.55	<0.1	2.14
Pike Island	84.2	16-Jul-08	<0.1	27.64	0.75	43.56	39.04	<0.1	1.54	2.34	<50	<1.5	10.49	1.35	1.47	<0.1	<0.5	0.63	<0.1	<1
Pike Island	84.2	24-Sep-08	<0.1	11.86	1.27	50.41	39.59	<0.1	1.36	2.99	<50	<1.5	11.11	1.36	2.06	<0.1	<0.5	1.03	<0.1	1.51
Pike Island	84.2	12-Nov-08	<0.1	9.58	0.74	52.67	37.67	<0.1	0.29	R	<50	<1.5	10.35	28.74	2.34	<0.1	<0.5	1.04	<0.1	2.6
Pike Island	84.2	09-Feb-09	<0.1	10.8	0.22	44.78	34.61	<0.1	0.94	1.08	<50	<1.5	8.94	153.01	3.99	<0.1	<0.5	0.6	<0.1	4.89
Pike Island	84.2	16-Mar-09	<0.1	13.88	0.42	29.56	16.21	<0.1	0.26	R	<50	<1.5	4.21	50.48	2.6	<0.1	<0.5	<0.5	<0.1	R
Pike Island	84.2	18-May-09	<0.1	22.27	0.33	35.93	23.21	<0.1	0.52	1.56	<50	<1.5	6.2	48.91	2.03	<0.1	<0.5	<0.5	<0.1	2.09
Pike Island	84.2	15-Jul-09	<0.1	11.97	0.82	48.22	28.2	<0.1	1.17	2.35	<50	2.56	7.55	0.95	1.55	<0.1	<0.5	0.75	<0.1	<1
Pike Island	84.2	08-Sep-09	<0.1	11.99	1.29	63.62	30.38	<0.1	0.75	2.32	<50	<1.5	8.03	19.75	1.54	<0.1	<0.5	0.79	<0.1	<1
Pike Island	84.2	16-Nov-09	<0.1	10.61	0.62	38.49	24.47	<0.1	0.87	1.72	<50	<1.5	6.13	39.75	1.65	<0.1	<0.5	<0.5	<0.1	1.97
Pike Island	84.2	18-Jan-10	<0.1	10.33	0.31	47.11	36.24	<0.1	1.02	0.95	<50	<1.5	8.96	103.23	2.95	<0.1	<0.5	0.53	<0.1	3.04
Pike Island	84.2	17-Mar-10	<0.1	18.94	0.35	34.29	20.48	<0.1	0.63	1.01	<50	<1.5	5.19	71.74	2.74	<0.1	<0.5	<0.5	<0.1	1.83
Pike Island	84.2	12-May-10	<0.1	16.31	0.46	40.95	30.38	<0.1	1.03	1.61	<50	<1.5	7.78	16.85	2.6	<0.1	<0.5	<0.5	<0.1	3.51
Pike Island	84.2	20-Jul-10	<0.1	17.86	0.91	58.05	40.18	<0.1	0.61	R	<50	<1.5	11.41	0.58	1.92	<0.1	<0.5	1.13	<0.1	<1
Pike Island	84.2	23-Sep-10	<0.1	9.29	1.04	82.37	42.34	<0.1	1.71	3.03	<50	1.54	11.75	3.53	2.62	<0.1	<0.5	1.6	<0.1	1.18
Pike Island	84.2	02-Nov-10	<0.1	6.64	0.66	58.26	40.06	<0.1	1.18	2.46	<50	<1.5	10.94	8.08	2.51	<0.1	<0.5	0.93	<0.1	2.03
Pike Island	84.2	18-Jan-11	<0.1	12.73	0.43	38.32	22.27	<0.1	0.71	1.25	<50	<1.5	5.92	83.22	3.01	<0.1	<0.5	<0.5	<0.1	3.09
Pike Island	84.2	21-Mar-11	<0.1	17.78	0.16	36.79	22.66	<0.1	0.21	1	<50	<1.5	5.96	118.07	3.74	<0.1	<0.5	<0.5	<0.1	3.19
Pike Island	84.2	26-May-11	<0.1	27.08	0.42	35.1	25.46	<0.1	0.48	1.44	<50	<1.5	6.81	24.3	3.05	<0.1	<0.5	0.59	<0.1	1.55
Pike Island	84.2	21-Jul-11	<0.1	17.03	0.87	56.33	43.1	<0.1	0.97	3.18	<50	<1.5	12.58	0.44	2.37	<0.1	<0.5	1.12	<0.1	1.29

R - indicates data redacted due to quality assurance factors

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Pike Island	84.2	08-Sep-11	<0.1	12.76	0.65	47.18	38.04	<0.1	1.92	1.81	<50	<1.5	10.67	4.99	1.9	<0.1	<0.5	0.85	<0.1	<1
Pike Island	84.2	16-Nov-11	<0.1	14.49	0.25	32.3	25.78	<0.1	0.58	1.14	<50	<1.5	6.64	50.24	2.37	<0.1	<0.5	<0.5	<0.1	R
Pike Island	84.2	09-Jan-12	<0.1	17.01	0.27	28.86	22.6	<0.1	0.58	1.01	<50	<1.5	6.07	66.19	3.11	<0.1	<0.5	<0.5	<0.1	3.64
Pike Island	84.2	08-Mar-12	<0.1	18.78	0.22	29.73	21.12	<0.1	0.51	1	<50	<1.5	5.43	57.8	2.18	<0.1	<0.5	<0.5	<0.1	2.18
Pike Island	84.2	15-May-12	<0.1	12.94	0.29	35.01	22.31	<0.1	<0.1	1.58	<50	<1.5	6.03	17.14	1.78	<0.1	<0.5	<0.5	<0.1	<1
Pike Island	84.2	23-Jul-12	<0.1	14.26	1.02	47.5	36.91	<0.1	0.35	2.69	<50	<1.5	10.92	5.78	2.3	<0.1	<0.5	1.21	<0.1	2.2
Pike Island	84.2	19-Sep-12	<0.1	9.91	1.05	45.15	35.85	<0.1	0.18	2.24	<50	<1.5	10.56	2.99	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	33.24	24.63	<0.1	0.33	1.38	<50	<1.5	6.35	54.52	2.39	<0.1	<0.5	0.52	<0.1	1.62
Pike Island	84.2	09-Jan-13	<0.1	17.69	0.38	36.42	30.08	<0.1	0.15	1.23	<50	<1.5	7.8	82.3	2.95	<0.1	<0.5	<0.5	<0.1	2.89
Pike Island	84.2	20-Mar-13	<0.1	16.6	0.26	32.55	23.49	<0.1	0.14	R	<50	<1.5	6.16	84.9	3.25	<0.1	<0.5	<0.5	<0.1	R
Pike Island	84.2	14-May-13	<0.1	19.69	0.42	42.87	35.88	<0.1	<0.5	R	<50	<1.5	10.3	7.54	2.01	<0.1	<0.5	0.55	<0.1	1.78
Hannibal	126.4	17-Jul-08	<0.1	21.94	0.55	39.51	32.58	<0.1	0.76	2.39	<50	<1.5	8.52	0.55	1.18	<0.1	<0.5	0.53	<0.1	<1
Hannibal	126.4	17-Sep-08	<0.1	13.32	1.1	51.16	38.35	<0.1	1.95	3	<50	<1.5	11.24	25.04	2	<0.1	<0.5	1.11	<0.1	1.19
Hannibal	126.4	19-Nov-08	<0.1	9.97	0.82	54.99	40.91	<0.1	0.51	2.95	<50	<1.5	11.51	14.4	2.9	<0.1	<0.5	1.01	<0.1	2.34
Hannibal	126.4	10-Feb-09	<0.1	11.34	0.21	42.22	34.99	<0.1	1.09	R	<50	2.52	9.05	130.17	3.89	<0.1	<0.5	<0.5	<0.1	4.23
Hannibal	126.4	10-Mar-09	<0.1	13.15	0.2	34.98	23.48	<0.1	0.24	1.51	<50	<1.5	6.43	99.97	3.2	<0.1	<0.5	<0.5	<0.1	4.52
Hannibal	126.4	19-May-09	<0.1	18.01	0.29	36.37	26.24	<0.1	0.57	1.33	<50	<1.5	6.97	33.09	1.68	<0.1	<0.5	<0.5	<0.1	1.34
Hannibal	126.4	22-Jul-09	<0.1	8.87	0.88	51.44	30.34	<0.1	1.23	2.5	<50	<1.5	8.35	5.12	1.76	<0.1	<0.5	1.1	<0.1	<1
Hannibal	126.4	15-Sep-09	<0.1	6.91	1.05	59.69	31.67	<0.1	0.48	2.12	<50	<1.5	8.35	23.04	1.78	<0.1	<0.5	1.09	<0.1	<1
Hannibal	126.4	12-Nov-09	<0.1	9.69	0.41	43.04	28.99	<0.1	1.39	1.75	<50	R	7.44	24.19	1.85	<0.1	<0.5	<0.5	<0.1	<1
Hannibal	126.4	20-Jan-10	<0.1	11.2	0.33	50.91	35.28	<0.1	0.7	1.21	<50	<1.5	9.44	108.13	3.76	<0.1	<0.5	0.53	<0.1	2.77
Hannibal	126.4	18-Mar-10	<0.1	16.08	0.16	30.85	18.57	<0.1	0.52	0.8	<50	<1.5	4.86	62.02	2.39	<0.1	<0.5	<0.5	<0.1	1.44
Hannibal	126.4	19-May-10	<0.1	13.23	0.42	40.4	24.03	<0.1	0.39	1.35	<50	<1.5	6.51	16.03	2.54	<0.1	<0.5	<0.5	<0.1	2.41
Hannibal	126.4	21-Jul-10	<0.1	12.27	0.9	62.55	43.55	<0.1	0.46	2.52	<50	<1.5	12.27	3.97	2.51	<0.1	<0.5	1.25	<0.1	<1
Hannibal	126.4	14-Sep-10	<0.1	9.65	0.8	78.74	42.43	<0.1	1.85	3.22	<50	<1.5	11.87	2.15	2.17	<0.1	<0.5	1.37	<0.1	<1
Hannibal	126.4	08-Nov-10	<0.1	7.17	0.85	58.48	40.68	<0.1	0.74	3.1	<50	<1.5	11.23	9.54	2.68	<0.1	<0.5	1.15	<0.1	1.81
Hannibal	126.4	25-Jan-11	<0.1	8.87	0.36	42.92	24.71	<0.1	0.77	1.41	<50	<1.5	6.29	76.71	2.73	<0.1	<0.5	0.56	<0.1	3.52
Hannibal	126.4	29-Mar-11	<0.1	25.95	0.2	36.63	25.97	<0.1	<0.1	1.02	<50	<1.5	7.07	114.3	3.53	<0.1	<0.5	<0.5	<0.1	R
Hannibal	126.4	24-May-11	<0.1	27.46	0.47	36.21	26.88	<0.1	0.69	1.76	<50	<1.5	7.31	13.21	3.35	<0.1	<0.5	0.52	<0.1	1.11
Hannibal	126.4	19-Jul-11	<0.1	22.73	0.84	56.34	42.46	<0.1	0.49	2.48	<50	<1.5	12.25	2.23	2.14	<0.1	<0.5	0.74	<0.1	1.82
Hannibal	126.4	14-Sep-11	<0.1	10.36	0.53	39.68	31.32	<0.1	0.94	2.4	<50	<1.5	7.79	3.87	1.97	<0.1	<0.5	<0.5	<0.1	1.74
Hannibal	126.4	09-Nov-11	<0.1	13.6	0.38	30.09	23.42	<0.1	0.93	1.26	<50	<1.5	6.1	26.77	2.16	<0.1	<0.5	<0.5	<0.1	2.17
Hannibal	126.4	10-Jan-12	<0.1	17.57	0.34	28.12	23.27	0.11	0.37	0.88	<50	<1.5	6.4	56.77	3.09	0.16	<0.5	<0.5	0.13	2.38
Hannibal	126.4	12-Mar-12	<0.1	18.3	0.3	30.45	26.52	<0.1	0.24	1.04	<50	<1.5	6.86	49.7	2.09	<0.1	<0.5	<0.5	<0.1	1.6
Hannibal	126.4	16-May-12	<0.1	13.55	0.4	34.72	23.79	<0.1	0.13	1.31	<50	<1.5	6.54	23.6	1.78	<0.1	<0.5	<0.5	<0.1	1
Hannibal	126.4	24-Jul-12	<0.1	15.27	0.77	49.46	38.9	<0.1	0.15	2.32	<50	<1.5	11.64	9.92	2.1	<0.1	<0.5	1.16	<0.1	2.02
Hannibal	126.4	27-Sep-12	<0.1	10.07	0.97	46.16	37.25	<0.1	0.23	2.48	<50	<1.5	10.96	32.91	2.94	<0.1	<0.5	1.18	<0.1	1.93
Hannibal	126.4	19-Nov-12	<0.1	14.21	0.51	35.34	26.05	<0.1	0.22	1.22	<50	<1.5	6.89	40.19	2.38	<0.1	<0.5	0.59	<0.1	1.03
Hannibal	126.4	14-Jan-13	<0.1	15.28	0.44	38.03	34.2	<0.1	0.34	1.24	<50	<1.5	9.01	64.8	3	<0.1	<0.5	0.54	<0.1	3.33
Hannibal	126.4	19-Mar-13	<0.1	21.8	0.35	35.77	28.43	<0.1	0.21	1.02	<50	<1.5	7.57	78.2	3.1	<0.1	<0.5	<0.5	<0.1	2.12
Hannibal	126.4	21-May-13	<0.1	16.74	0.4	37.93	29.84	<0.1	<0.5	1.22	<50	<1.5	8.96	26.7	1.94	<0.1	<0.5	0.56	<0.1	R
Willow Island	161.8	17-Jul-08	<0.1	19.62	0.52	50.5	41.45	<0.1	0.93	2.19	<50	1.98	11.29	0.41	1.35	<0.1	<0.5	0.6	<0.1	<1
Willow Island	161.8	08-Sep-08	<0.1	9.18	0.89	49.16	32.41	<0.1	1.97	2.52	<50	<1.5	9.77	1.02	1.93	<0.1	<0.5	0.62	<0.1	1.37
Willow Island	161.8	19-Nov-08	<0.1	8.92	0.68	54.44	41.55	<0.1	0.22	2.47	<50	<1.5	11.96	9.24	2.56	<0.1	<0.5	1.34	<0.1	1.74
Willow Island	161.8	10-Feb-09	<0.1	12.94	0.23	42.64	36.31	<0.1	1.12	1.15	<50	<1.5	9.37	113.02	3.83	<0.1	<0.5	0.53	<0.1	3.39
Willow Island	161.8	10-Mar-09	<0.1	14.66	0.31	38.64	25.67	<0.1	R	1.09	<50	<1.5	7.01	108.77	3.54	<0.1	<0.5	<0.5	<0.1	3.76
Willow Island	161.8	19-May-09	<0.1	17.03	0.26	36.21	24.96	<0.1	0.41	1.37	<50	<1.5	6.64	24.73	1.65	<0.1	<0.5	<0.5	<0.1	1.51
Willow Island	161.8	22-Jul-09	<0.1	4.43	0.63	49.07	30.19	<0.1	1.08	2.35	<50	<1.5	8.37	16.6	1.72	<0.1	<0.5	0.86	<0.1	<1
Willow Island	161.8	15-Sep-09	<0.1	8.71	0.87	46.13	26.12	<0.1	0.35	1.85	<50	<1.5	6.95	17.61	1.46	<0.1	<0.5	<0.5	<0.1	<1

R - indicates data redacted due to quality assurance factors

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Willow Island	161.8	12-Nov-09	<0.1	8.99	0.45	41.67	28.03	<0.1	1.12	1.62	<50	1.63	7.26	16.15	1.66	<0.1	<0.5	0.61	<0.1	3.2
Willow Island	161.8	20-Jan-10	<0.1	11.29	0.38	44.9	35.55	<0.1	1.13	1.23	<50	<1.5	9.13	70.66	2.97	<0.1	<0.5	0.63	<0.1	1.73
Willow Island	161.8	18-Mar-10	<0.1	16.17	0.36	32.18	20.48	<0.1	0.43	1.21	<50	<1.5	5.31	56.52	2.49	<0.1	<0.5	<0.5	<0.1	1.16
Willow Island	161.8	19-May-10	<0.1	13.08	0.44	37.87	22.38	<0.1	0.46	1.42	<50	<1.5	5.86	13.63	2.3	<0.1	<0.5	0.51	<0.1	1.36
Willow Island	161.8	27-Jul-10	<0.1	12.05	0.83	60.07	41.48	<0.1	0.3	2.41	<50	<1.5	12.37	0.43	2.14	<0.1	<0.5	1.39	<0.1	2.08
Willow Island	161.8	27-Sep-10	<0.1	7.42	0.86	79.51	43.28	<0.1	1.95	2.15	<50	<1.5	12.55	1.6	2.48	<0.1	<0.5	1.8	<0.1	1.22
Willow Island	161.8	08-Nov-10	<0.1	6.59	0.82	67.16	40.98	<0.1	0.71	2.57	<50	<1.5	11.22	6.09	2.65	<0.1	<0.5	1.13	<0.1	2.29
Willow Island	161.8	25-Jan-11	<0.1	11.88	0.4	36.34	22.53	<0.1	0.75	1.37	<50	<1.5	5.81	74.97	3.07	<0.1	<0.5	0.71	<0.1	3.02
Willow Island	161.8	22-Mar-11	<0.1	18.64	0.3	36.62	23.17	<0.1	0.27	1.08	<50	<1.5	6.26	104.24	3.47	<0.1	<0.5	0.53	<0.1	2.76
Willow Island	161.8	24-May-11	<0.1	24.19	0.27	36.02	27.89	<0.1	0.72	1.69	<50	<1.5	7.44	6.63	3.09	<0.1	<0.5	0.69	<0.1	R
Willow Island	161.8	19-Jul-11	<0.1	12.76	0.66	55.57	42.52	<0.1	0.76	1.84	<50	<1.5	12.62	3.92	2.13	<0.1	<0.5	0.84	<0.1	<1
Willow Island	161.8	14-Sep-11	<0.1	8.71	0.4	45.87	36.9	<0.1	1.43	1.96	<50	R	9.98	5.51	2.02	<0.1	<0.5	0.59	<0.1	R
Willow Island	161.8	09-Nov-11	<0.1	13.49	0.1	29.79	22.91	<0.1	0.54	1.24	<50	<1.5	5.95	15.33	2.06	<0.1	<0.5	<0.5	<0.1	3.66
Willow Island	161.8	10-Jan-12	<0.1	18.51	0.37	31.49	25.9	<0.1	0.81	1.26	<50	<1.5	7.14	50.19	2.77	0.12	<0.5	<0.5	<0.1	1.72
Willow Island	161.8	12-Mar-12	<0.1	18.72	0.14	30.18	24.12	<0.1	R	0.96	<50	<1.5	6.34	45.6	1.9	<0.1	<0.5	<0.5	<0.1	R
Willow Island	161.8	16-May-12	<0.1	10.82	0.4	33.27	23.8	<0.1	0.47	1.31	<50	<1.5	6.26	13.71	1.35	<0.1	<0.5	<0.5	<0.1	<1
Willow Island	161.8	24-Jul-12	<0.1	R	0.67	49.83	37.65	<0.1	<0.1	1.98	<50	<1.5	11.76	7.49	1.92	<0.1	<0.5	0.91	<0.1	1.2
Willow Island	161.8	27-Sep-12	<0.1	6.83	0.87	47.06	35.64	<0.1	0.17	2.28	<50	<1.5	10.45	6.44	2.95	<0.1	<0.5	1.27	<0.1	1.87
Willow Island	161.8	19-Nov-12	<0.1	16.38	0.47	33.23	24.79	<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	14-Jan-13	<0.1	12.59	0.32	30.57	26.42	<0.1	0.35	1.1	<50	<1.5	7.05	56.3	2.31	<0.1	<0.5	<0.5	<0.1	2.37
Willow Island	161.8	19-Mar-13	<0.1	21.2	0.29	36.73	29.25	<0.1	<0.1	1.02	<50	<1.5	7.94	64.2	3.01	<0.1	<0.5	<0.5	<0.1	1.57
Willow Island	161.8	21-May-13	<0.1	14.94	0.53	40.96	32.58	<0.1	<0.5	1.36	<50	<1.5	9.37	2.57	1.92	<0.1	<0.5	0.61	<0.1	1.57
Belleville	203.9	23-Jul-08	<0.1	13.1	0.81	47.61	44.59	<0.1	0.73	1.68	<50	2.01	12.88	0.7	1.13	<0.1	<0.5	0.65	<0.1	<1
Belleville	203.9	08-Sep-08	<0.1	7.06	0.86	52.65	36.97	<0.1	2.41	2.04	<50	<1.5	12.36	3.53	1.92	<0.1	<0.5	0.96	<0.1	R
Belleville	203.9	13-Nov-08	<0.1	4.65	0.93	51.75	44.62	<0.1	0.3	2.63	<50	<1.5	14.42	30.15	2.53	<0.1	<0.5	1.35	<0.1	1.72
Belleville	203.9	22-Jan-09	<0.1	13.03	0.18	31.72	29.93	<0.1	0.61	1.59	<50	<1.5	8.13	72.03	2.23	<0.1	<0.5	<0.5	<0.1	2.92
Belleville	203.9	09-Mar-09	<0.1	13.59	0.34	34.15	28.55	<0.1	0.95	1.28	<50	<1.5	7.79	104.83	2.82	<0.1	<0.5	0.52	<0.1	4.15
Belleville	203.9	13-May-09	<0.1	13.37	0.43	33.34	27.82	<0.1	0.63	1.37	<50	<1.5	7.47	4.42	1.23	<0.1	<0.5	<0.5	<0.1	1.51
Belleville	203.9	13-Jul-09	<0.1	7.75	0.7	48.59	34.09	<0.1	1.82	1.65	<50	<1.5	9.82	4.17	1.29	<0.1	<0.5	0.79	<0.1	<1
Belleville	203.9	09-Sep-09	<0.1	6.6	1.04	45.09	28.85	<0.1	0.77	1.86	<50	<1.5	8.23	6.07	1.74	<0.1	0.67	<0.5	<0.1	<1
Belleville	203.9	09-Nov-09	<0.1	5.81	0.5	45.53	36.17	<0.1	0.6	5.59	<50	<1.5	10.05	12.32	1.93	<0.1	<0.5	<0.5	<0.1	1
Belleville	203.9	19-Jan-10	<0.1	12.58	0.32	40.15	34.57	<0.1	1.5	1.3	<50	<1.5	9.54	55.6	2.43	<0.1	<0.5	<0.5	<0.1	2.14
Belleville	203.9	24-Mar-10	<0.1	20.03	0.46	31.78	25.61	<0.1	0.2	1.53	<50	<1.5	7.03	22.03	2.37	<0.1	<0.5	<0.5	<0.1	1.84
Belleville	203.9	13-May-10	<0.1	17.37	0.54	43.64	40.07	<0.1	1.19	1.35	<50	<1.5	11.45	6.24	2.47	<0.1	<0.5	0.64	<0.1	2.26
Belleville	203.9	22-Jul-10	<0.1	7.66	0.92	49.95	36.81	<0.1	0.58	1.94	<50	<1.5	11.24	2.96	1.5	<0.1	<0.5	0.9	<0.1	<1
Belleville	203.9	29-Sep-10	<0.1	5.06	1.08	76.82	42.43	<0.1	1.83	2.27	<50	<1.5	13.69	3.28	2.76	<0.1	<0.5	1.71	<0.1	1.03
Belleville	203.9	17-Nov-10	<0.1	4.23	1.44	61.44	45.6	0.3	1.16	3.13	<50	<1.5	12.84	12.75	4.07	0.4	<0.5	1.75	0.39	3.42
Belleville	203.9	02-Feb-11	<0.1	9.19	0.45	48.96	34.16	<0.1	0.55	1.31	<50	<1.5	9.32	89.63	2.75	<0.1	<0.5	0.57	<0.1	3.35
Belleville	203.9	28-Mar-11	<0.1	17.33	0.34	35.46	33.21	<0.1	0.13	1.13	<50	<1.5	9.23	48.35	2.85	<0.1	<0.5	<0.5	<0.1	1.45
Belleville	203.9	25-May-11	<0.1	21.55	0.55	30.54	28.5	<0.1	0.9	1.61	<50	<1.5	8.4	4.39	3.17	<0.1	<0.5	0.64	<0.1	<1
Belleville	203.9	26-Jul-11	<0.1	14.29	1.07	55.84	44.4	<0.1	1.44	R	<50	<1.5	14.72	1.67	2.1	<0.1	<0.5	0.88	<0.1	R
Belleville	203.9	12-Sep-11	<0.1	8.67	0.89	47.71	39.68	<0.1	2.21	2.09	<50	<1.5	11.01	7.78	2.33	<0.1	<0.5	0.84	<0.1	R
Belleville	203.9	24-Jan-12	<0.1	18.67	0.32	31.87	31.17	<0.1	1.29	R	<50	<1.5	8.74	37.33	3.14	0.11	<0.5	0.56	0.1	1.27
Belleville	203.9	14-Mar-12	<0.1	15.02	0.22	31.51	30.67	<0.1	0.63	1.04	<50	<1.5	8.64	26	1.54	<0.1	<0.5	<0.5	<0.1	<1
Belleville	203.9	21-May-12	<0.1	11.65	0.49	36.6	27.8	<0.1	0.24	1.26	<50	<1.5	7.93	36.7	1.41	<0.1	<0.5	<0.5	<0.1	1.73
Belleville	203.9	18-Jul-12	<0.1	5.52	0.69	41.03	31.64	<0.1	<0.1	1.3	<50	<1.5	10.5	8.53	1.33	<0.1	<0.5	0.62	<0.1	1.75
Belleville	203.9	17-Sep-12	<0.1	4.4	0.72	48.43	35.51	<0.1	0.65	1.74	<50	<1.5	12.22	1.43	2.53	<0.1	<0.5	0.91	<0.1	1.37
Belleville	203.9	13-Nov-12	<0.1	8.7	0.58	33.56	28.29	<0.1	0.4	1.48	<50	<1.5	7.54	8.66	1.93	<0.1	<0.5	<0.5	<0.1	1.14
Belleville	203.9	17-Jan-13	<0.1	12.56	0.39	33.93	31.04	<0.1	0.16	1	<50	<1.5	8.28	16.96	2.63	<0.1	<0.5	<0.5	<0.1	2.13

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Belleville	203.9	27-Mar-13	<0.1	14.44	0.35	32.36	28.02	<0.1	0.22	1	<50	<1.5	7.82	40.3	2.11	<0.1	<0.5	<0.5	<0.1	1.48
Belleville	203.9	16-May-13	<0.1	12.86	0.47	34.34	29.92	<0.1	<0.5	1.11	<50	<1.5	8.68	12.73	1.17	<0.1	<0.5	<0.5	<0.1	2.23
R.C. Byrd	279.2	23-Jul-08	<0.1	12.38	0.78	46.85	35.67	<0.1	0.7	1.97	<50	2.04	10.94	37.32	1.13	<0.1	<0.5	0.75	<0.1	<1
R.C. Byrd	279.2	17-Sep-08	<0.1	6.24	0.93	46.14	29.95	<0.1	1.74	1.8	<50	<1.5	10.89	34.96	1.72	<0.1	<0.5	0.75	<0.1	R
R.C. Byrd	279.2	13-Nov-08	<0.1	5.48	0.66	50.27	33.69	<0.1	0.31	2.18	<50	<1.5	11.47	48.13	2.03	<0.1	<0.5	0.9	<0.1	1.09
R.C. Byrd	279.2	22-Jan-09	<0.1	9.49	0.21	31.45	23.87	<0.1	0.48	0.9	<50	<1.5	6.76	75.11	1.84	<0.1	<0.5	0.55	<0.1	1.09
R.C. Byrd	279.2	09-Mar-09	<0.1	12.56	0.34	33.55	25.39	<0.1	0.84	1.07	<50	<1.5	7.45	72.44	1.96	<0.1	<0.5	<0.5	<0.1	2.09
R.C. Byrd	279.2	13-May-09	<0.1	6.87	0.37	29.98	15.03	<0.1	0.13	1.12	<50	<1.5	4.56	58.66	1.13	<0.1	<0.5	<0.5	<0.1	<1
R.C. Byrd	279.2	13-Jul-09	<0.1	10.07	0.67	46.85	32.88	<0.1	1.91	1.5	<50	<1.5	10.17	47.42	1.25	<0.1	<0.5	0.74	<0.1	1.2
R.C. Byrd	279.2	09-Sep-09	<0.1	9.63	0.81	47.26	29.41	<0.1	0.72	2.39	<50	<1.5	9.48	18.99	1.45	<0.1	<0.5	0.66	<0.1	1.04
R.C. Byrd	279.2	09-Nov-09	<0.1	5.57	0.59	44.04	35.06	<0.1	0.62	1.42	<50	<1.5	10.43	26.35	1.96	<0.1	<0.5	0.58	<0.1	<1
R.C. Byrd	279.2	19-Jan-10	<0.1	8.37	0.23	32.62	22.91	<0.1	1.26	1.12	<50	<1.5	8.23	34.3	1.8	<0.1	<0.5	<0.5	<0.1	1.68
R.C. Byrd	279.2	24-Mar-10	<0.1	11.33	0.28	27.53	15.77	<0.1	0.11	1.27	<50	<1.5	5.46	25.74	1.49	<0.1	<0.5	0.51	<0.1	1.89
R.C. Byrd	279.2	13-May-10	<0.1	14.58	0.58	43.83	31.87	<0.1	0.95	1.17	<50	<1.5	9.71	99.59	1.81	<0.1	<0.5	0.62	<0.1	<1
R.C. Byrd	279.2	22-Jul-10	<0.1	10.8	0.88	53.62	34.07	<0.1	0.29	2.55	<50	<1.5	11.69	149.88	1.64	<0.1	<0.5	0.87	<0.1	1
R.C. Byrd	279.2	29-Sep-10	<0.1	7.41	0.78	57.98	34.72	<0.1	2.03	1.73	<50	<1.5	12.82	3.61	2.29	<0.1	<0.5	1.15	<0.1	<1
R.C. Byrd	279.2	17-Nov-10	<0.1	4.07	1.31	56.72	38.96	0.42	0.78	1.67	<50	<1.5	13.04	32.32	3.43	0.43	<0.5	1.74	0.44	1.96
R.C. Byrd	279.2	02-Feb-11	<0.1	8.88	0.33	36.85	24.03	<0.1	0.33	1.07	<50	<1.5	7.58	66.3	2.11	<0.1	<0.5	0.53	<0.1	2.1
R.C. Byrd	279.2	28-Mar-11	<0.1	12.62	0.38	31.48	21.28	<0.1	<0.1	0.74	<50	<1.5	6.68	57.52	1.67	<0.1	<0.5	<0.5	<0.1	1.01
R.C. Byrd	279.2	25-May-11	<0.1	15.96	0.38	28.61	21.93	<0.1	0.6	1.26	<50	<1.5	6.5	41.86	2.11	<0.1	<0.5	<0.5	<0.1	1.84
R.C. Byrd	279.2	26-Jul-11	<0.1	16.3	0.76	54.74	39.06	<0.1	1.03	1.63	<50	<1.5	12.73	28.99	1.89	<0.1	<0.5	0.65	<0.1	<1
R.C. Byrd	279.2	12-Sep-11	<0.1	9.77	0.77	49.3	33.67	<0.1	2.06	1.69	<50	<1.5	10.99	46.46	2.17	<0.1	<0.5	0.81	<0.1	1.67
R.C. Byrd	279.2	14-Nov-11	<0.1	8.17	0.3	31.17	24.23	<0.1	0.67	1.02	<50	<1.5	7.11	35.06	1.71	<0.1	<0.5	<0.5	<0.1	1.74
R.C. Byrd	279.2	24-Jan-12	<0.1	9.53	0.28	23.94	16.29	0.12	0.85	0.83	<50	<1.5	5.59	66.68	1.55	0.16	<0.5	<0.5	0.14	<1
R.C. Byrd	279.2	14-Mar-12	<0.1	13.07	0.23	31.15	23.06	<0.1	0.71	R	<50	<1.5	7.1	66.2	1.2	<0.1	<0.5	<0.5	<0.1	R
R.C. Byrd	279.2	21-May-12	<0.1	9.24	0.37	34.95	21.82	<0.1	<0.1	0.89	<50	<1.5	6.6	115	0.93	<0.1	<0.5	<0.5	<0.1	<1
R.C. Byrd	279.2	18-Jul-12	<0.1	11.04	0.79	51.95	32.08	<0.1	<0.1	1.74	<50	<1.5	12.51	53.7	1.31	<0.1	<0.5	0.62	<0.1	R
R.C. Byrd	279.2	17-Sep-12	<0.1	8.4	0.83	49.71	33.75	<0.1	<0.1	2.03	<50	<1.5	12.49	11.89	2.66	<0.1	<0.5	0.92	<0.1	1.31
R.C. Byrd	279.2	13-Nov-12	<0.1	7.09	0.47	34.98	26.62	<0.1	0.35	1.35	<50	<1.5	8.01	14.08	1.88	<0.1	<0.5	<0.5	<0.1	<1
R.C. Byrd	279.2	17-Jan-13	<0.1	7.13	0.3	32.74	16.85	<0.1	0.14	0.62	<50	<1.5	5.97	78.3	1.32	<0.1	<0.5	<0.5	<0.1	1.08
R.C. Byrd	279.2	27-Mar-13	<0.1	8.96	0.22	30.27	21	<0.1	0.5	0.65	<50	<1.5	6.46	90.5	1.38	<0.1	<0.5	<0.5	<0.1	<1
R.C. Byrd	279.2	16-May-13	<0.1	10.36	0.42	37.03	25.45	<0.1	<0.5	1	<50	<1.5	7.89	83.4	1.09	<0.1	<0.5	<0.5	<0.1	1.36
Greenup	341	21-Jul-08	<0.1	8.28	0.56	41.54	31.29	<0.1	0.58	1.56	<50	<1.5	9.92	0.66	0.87	<0.1	<0.5	<0.5	<0.1	<1
Greenup	341	25-Sep-08	<0.1	7.18	0.77	53.02	34.8	<0.1	1.35	1.83	<50	<1.5	13.17	1.82	2.19	<0.1	<0.5	1.02	<0.1	2.4
Greenup	341	15-Nov-08	<0.1	4.88	0.74	50.79	35.36	<0.1	0.54	2.35	<50	<1.5	12.55	7.58	2.59	<0.1	<0.5	1.09	<0.1	4.96
Greenup	341	22-Jan-09	<0.1	9.7	0.22	32.29	24.46	<0.1	0.69	1.06	<50	<1.5	8.26	47.4	1.94	<0.1	<0.5	0.57	<0.1	2.25
Greenup	341	09-Mar-09	<0.1	11.7	0.35	33.08	25.49	<0.1	0.87	0.9	<50	<1.5	8.56	42.48	1.92	<0.1	<0.5	0.6	<0.1	1.43
Greenup	341	28-May-09	<0.1	8.48	0.42	32.77	22.43	<0.1	0.15	1.09	<50	<1.5	7.59	10.64	1.34	0.1	<0.5	0.82	<0.1	2.88
Greenup	341	15-Jul-09	<0.1	9.31	0.63	42.87	31.16	<0.1	1.47	1.61	<50	<1.5	10.94	1.72	1.39	<0.1	<0.5	0.78	<0.1	<1
Greenup	341	28-Sep-09	<0.1	8.43	0.82	51.2	31.19	<0.1	1.29	R	<50	<1.5	11.86	21.9	1.9	<0.1	<0.5	0.64	<0.1	1.42
Greenup	341	09-Nov-09	<0.1	4.29	0.5	40.61	30.54	<0.1	0.69	R	<50	<1.5	9.58	11.02	1.41	<0.1	<0.5	0.56	<0.1	<1
Greenup	341	13-Jan-10	<0.1	6.79	0.28	33.27	26.79	<0.1	1.42	0.78	<50	<1.5	9.08	47.71	2.28	<0.1	<0.5	0.51	<0.1	1.62
Greenup	341	24-Mar-10	<0.1	10.57	0.28	29.64	19.67	<0.1	0.11	1	<50	<1.5	6.38	10.64	1.91	<0.1	<0.5	0.6	<0.1	1.61
Greenup	341	19-May-10	<0.1	9.53	0.44	38.15	26.65	<0.1	0.21	1.17	<50	<1.5	8.97	11.3	1.96	<0.1	<0.5	<0.5	<0.1	1.4
Greenup	341	29-Jul-10	<0.1	8.26	0.73	46.68	27.42	<0.1	0.22	1.52	<50	<1.5	9.72	1.77	1.31	<0.1	<0.5	0.84	<0.1	<1
Greenup	341	27-Sep-10	<0.1	11.93	0.9	71.1	41.59	<0.1	1.92	1.72	<50	<1.5	15.26	1.52	2.44	<0.1	<0.5	1.23	<0.1	1.18
Greenup	341	18-Nov-10	<0.1	2.75	0.76	60.38	41.09	<0.1	0.11	1.72	<50	<1.5	14.76	17.63	3.07	<0.1	<0.5	1.07	<0.1	1.28
Greenup	341	10-Jan-11	<0.1	11.56	0.45	44.79	28.34	<0.1	1.98	1.2	<50	<1.5	9.16	41.51	2.55	<0.1	<0.5	0.72	<0.1	2.15
Greenup	341	08-Mar-11	<0.1	14.21	0.31	31.78	23.52	<0.1	0.4	1.14	<50	<1.5	7.33	17.21	2	<0.1	<0.5	<0.5	<0.1	3.31

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Greenup	341	11-May-11	<0.1	16.16	0.45	29.38	26.3	<0.1	0.83	1.27	<50	<1.5	9.24	28.42	2.29	<0.1	<0.5	<0.5	<0.1	R
Greenup	341	27-Jul-11	<0.1	10.69	0.61	53.29	37.58	<0.1	0.14	1.76	<50	3.24	12.64	0.8	1.95	<0.1	<0.5	0.69	<0.1	4.59
Greenup	341	15-Sep-11	<0.1	5.58	0.65	46.91	34.15	<0.1	1.01	1.7	<50	<1.5	10.78	4.92	1.98	<0.1	<0.5	0.71	<0.1	3.16
Greenup	341	08-Nov-11	<0.1	7.54	0.45	35.42	29.07	<0.1	1.57	1.18	<50	<1.5	9.32	13.19	1.92	<0.1	<0.5	<0.5	<0.1	1.36
Greenup	341	05-Jan-12	<0.1	15.02	0.42	30.86	26.88	<0.1	1.67	R	<50	<1.5	9.02	11.96	2.33	0.13	<0.5	0.67	0.12	R
Greenup	341	07-Mar-12	<0.1	12.63	0.21	27.48	19.5	<0.1	0.15	R	<50	<1.5	6.89	7.17	1.03	<0.1	<0.5	<0.5	<0.1	1.3
Greenup	341	17-May-12	<0.1	11.08	0.42	35.73	25.18	<0.1	0.86	1.13	<50	<1.5	8.97	7.45	1.23	<0.1	<0.5	<0.5	<0.1	1.31
Greenup	341	09-Jul-12	<0.1	6.89	0.77	48.27	33.32	<0.1	0.17	1.48	<50	<1.5	12.82	1.44	1.53	<0.1	<0.5	0.81	<0.1	R
Greenup	341	24-Sep-12	<0.1	7.5	0.78	48.33	32.17	<0.1	<0.1	1.73	<50	<1.5	13.32	4.93	2.27	<0.1	<0.5	1.02	<0.1	2.78
Greenup	341	08-Nov-12	<0.1	8.16	0.44	37.12	31.06	<0.1	0.25	1.51	<50	<1.5	10.02	1.74	1.49	<0.1	<0.5	0.55	<0.1	1.11
Greenup	341	07-Jan-13	<0.1	12.51	0.34	31.92	24.53	<0.1	0.13	0.93	<50	<1.5	8.65	25.82	1.55	<0.1	<0.5	0.53	<0.1	3.22
Greenup	341	27-Mar-13	<0.1	13.44	0.28	27.51	20.81	<0.1	0.1	1	<50	<1.5	7.84	21.6	1.73	<0.1	<0.5	0.6	<0.1	R
Greenup	341	30-May-13	<0.1	9.11	0.46	37.96	29.36	<0.1	<0.5	1.17	<50	<1.5	10.49	23.7	1.31	<0.1	<0.5	0.55	<0.1	2.28
Meldahl	436.2	21-Jul-08	<0.1	5.49	0.65	43.11	31.71	<0.1	0.71	1.55	<50	<1.5	10.08	0.32	0.93	<0.1	<0.5	0.7	<0.1	<1
Meldahl	436.2	25-Sep-08	<0.1	9.48	0.93	58.29	38.25	<0.1	1.23	1.83	<50	<1.5	14.35	3.73	1.95	<0.1	<0.5	1.16	<0.1	R
Meldahl	436.2	15-Nov-08	<0.1	5.42	0.65	54.44	39.05	<0.1	0.7	2.21	<50	<1.5	14.45	3.99	2.26	<0.1	<0.5	0.74	<0.1	2.76
Meldahl	436.2	22-Jan-09	<0.1	8.97	0.21	29.76	24.39	<0.1	0.16	0.87	<50	<1.5	7.54	13.59	1.42	<0.1	<0.5	0.51	<0.1	<1
Meldahl	436.2	09-Mar-09	<0.1	9.68	0.41	36.1	30.25	<0.1	1.12	1	<50	<1.5	9.58	20.17	1.91	<0.1	<0.5	<0.5	<0.1	1.13
Meldahl	436.2	28-May-09	<0.1	7.16	0.46	33.45	24.08	<0.1	0.19	1.11	<50	2.01	8.15	4.39	1.04	<0.1	<0.5	0.51	<0.1	<1
Meldahl	436.2	29-Jul-09	<0.1	7.9	0.63	43.7	30.25	<0.1	0.66	1.8	<50	<1.5	11.25	1.36	1.55	<0.1	<0.5	0.89	<0.1	2.5
Meldahl	436.2	28-Sep-09	<0.1	5.99	0.94	46.42	34.06	<0.1	1.57	1.69	<50	<1.5	11.36	1.41	1.82	<0.1	<0.5	0.84	<0.1	<1
Meldahl	436.2	04-Nov-09	<0.1	4.27	0.71	50.55	38.03	<0.1	0.69	1.38	<50	<1.5	12.85	3.41	1.5	<0.1	<0.5	0.54	<0.1	<1
Meldahl	436.2	13-Jan-10	<0.1	7.08	0.27	33.73	27.83	<0.1	1.19	0.98	<50	<1.5	9.04	25.18	1.85	<0.1	<0.5	<0.5	<0.1	1.55
Meldahl	436.2	24-Mar-10	<0.1	11.58	0.33	31.83	25.69	<0.1	0.84	1.09	<50	<1.5	7.99	3.78	1.79	<0.1	<0.5	<0.5	<0.1	1.29
Meldahl	436.2	19-May-10	<0.1	7.26	0.39	30.94	22.95	<0.1	0.44	2.1	<50	<1.5	7.45	3.66	1.84	<0.1	<0.5	<0.5	<0.1	<1
Meldahl	436.2	29-Jul-10	<0.1	7.36	0.81	41.8	28.38	<0.1	0.19	1.81	<50	<1.5	8.91	16.84	1.54	0.12	<0.5	0.71	0.11	<1
Meldahl	436.2	27-Sep-10	<0.1	10.78	1.11	67.57	42.63	<0.1	2.63	1.75	<50	<1.5	15.6	1.12	2.83	<0.1	<0.5	1.54	<0.1	<1
Meldahl	436.2	23-Nov-10	<0.1	2.42	0.74	58.63	41.17	<0.1	0.44	1.63	<50	<1.5	14.86	1.64	2.81	<0.1	<0.5	1.21	<0.1	1.03
Meldahl	436.2	10-Jan-11	<0.1	8.65	0.37	39.84	27.65	<0.1	1.2	1.17	<50	<1.5	8.37	8.72	1.96	<0.1	<0.5	<0.5	<0.1	1.85
Meldahl	436.2	08-Mar-11	<0.1	13.71	0.38	30.98	24.76	<0.1	0.4	1.36	<50	<1.5	6.95	8.53	2.24	<0.1	<0.5	<0.5	<0.1	1.41
Meldahl	436.2	11-May-11	<0.1	14.49	0.55	33.46	33.42	<0.1	1.02	1.38	<50	1.82	10.69	2.06	2.36	<0.1	<0.5	<0.5	<0.1	1.25
Meldahl	436.2	27-Jul-11	<0.1	9.75	0.79	50.79	37.38	<0.1	0.46	1.7	<50	<1.5	13.64	0.81	2.03	<0.1	<0.5	0.69	<0.1	1.16
Meldahl	436.2	15-Sep-11	<0.1	6.39	0.85	52.32	39.34	<0.1	1.19	1.77	<50	<1.5	13.63	2.71	2.39	<0.1	<0.5	0.98	<0.1	1.14
Meldahl	436.2	08-Nov-11	<0.1	5.92	0.71	38.18	31.69	<0.1	1.29	1.54	<50	<1.5	9.92	3.5	1.98	<0.1	<0.5	<0.5	<0.1	R
Meldahl	436.2	05-Jan-12	<0.1	11.32	0.66	29.26	27	0.2	1.85	1.36	<50	<1.5	8.49	3.9	2.43	0.19	<0.5	0.73	0.18	1.4
Meldahl	436.2	07-Mar-12	<0.1	11.07	0.24	28.33	22.03	<0.1	0.69	0.93	<50	1.73	6.88	4.37	1.2	<0.1	<0.5	<0.5	<0.1	1.53
Meldahl	436.2	17-May-12	<0.1	8.21	0.42	37.04	29.5	<0.1	<0.1	1.28	<50	<1.5	9.32	5.61	1.1	<0.1	<0.5	<0.5	<0.1	1.67
Meldahl	436.2	09-Jul-12	<0.1	5.66	0.79	46.41	32.15	<0.1	0.24	1.47	<50	<1.5	12.53	0.58	1.5	<0.1	<0.5	0.69	<0.1	1.28
Meldahl	436.2	24-Sep-12	<0.1	5.66	1	55.35	39.15	<0.1	0.19	2.26	<50	<1.5	15.07	2.65	3.67	<0.1	<0.5	0.89	<0.1	2.39
Meldahl	436.2	08-Nov-12	<0.1	7.39	0.63	40.99	35.88	<0.1	<0.1	2.34	<50	<1.5	10.58	2.17	1.7	<0.1	<0.5	0.68	<0.1	3.11
Meldahl	436.2	07-Jan-13	<0.1	11.26	0.34	31.35	25.53	<0.1	0.46	1.16	<50	<1.5	8.08	7.99	1.5	<0.1	<0.5	<0.5	<0.1	R
Meldahl	436.2	27-Mar-13	<0.1	8.8	0.35	26.35	22.84	<0.1	<0.1	0.87	<50	<1.5	7.5	4.19	1.37	<0.1	<0.5	<0.5	<0.1	R
Meldahl	436.2	30-May-13	<0.1	7.18	0.44	36.41	29.25	<0.1	<0.5	1.25	<50	<1.5	10.78	5.68	1.24	<0.1	<0.5	0.58	<0.1	1.34
Anderson Ferry	477.5	17-Jul-08	<0.1	9.52	0.81	46.84	35.16	<0.1	1.01	1.97	<50	<1.5	10.76	23.57	1.26	<0.1	<0.5	0.77	<0.1	<1
Anderson Ferry	477.5	23-Sep-08	<0.1	11.82	1.03	57.47	40.27	<0.1	1.72	1.94	<50	<1.5	14.93	3.42	2.03	<0.1	<0.5	1.03	<0.1	1.91
Anderson Ferry	477.5	19-Nov-08	<0.1	8.21	0.73	50.53	37.28	<0.1	0.56	2.24	<50	<1.5	13.67	6.82	2.57	<0.1	<0.5	0.78	<0.1	1.63
Anderson Ferry	477.5	14-Jan-09	<0.1	7.76	0.22	30.47	23.24	<0.1	0.62	R	<50	2.15	7.15	3.11	1.45	<0.1	<0.5	<0.5	<0.1	<1
Anderson Ferry	477.5	09-Mar-09	<0.1	11.17	0.37	32.91	28.2	<0.1	0.38	0.79	<50	<1.5	8.91	33.99	1.55	<0.1	<0.5	0.53	<0.1	2.16
Anderson Ferry	477.5	28-May-09	<0.1	9.81	0.6	39.64	29.96	<0.1	0.39	1.31	<50	<1.5	9.54	29.7	1.27	0.11	<0.5	<0.5	<0.1	1.33

R - indicates data redacted due to quality assurance factors

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Anderson Ferry	477.5	29-Jul-09	<0.1	9.68	0.66	48.12	33.23	<0.1	0.88	1.91	<50	<1.5	11.58	10.82	1.38	<0.1	<0.5	0.99	<0.1	2.88
Anderson Ferry	477.5	21-Sep-09	<0.1	8.47	0.78	57.6	41.6	<0.1	0.32	1.69	<50	<1.5	13.4	10.16	1.95	<0.1	<0.5	0.92	<0.1	1.13
Anderson Ferry	477.5	03-Nov-09	<0.1	5.1	0.75	45.85	39.53	<0.1	0.82	1.67	<50	<1.5	13.33	3.04	1.58	<0.1	<0.5	0.64	<0.1	<1
Anderson Ferry	477.5	12-Jan-10	<0.1	5.99	0.37	35.48	34.16	<0.1	2.62	1.11	<50	<1.5	10.92	32.4	1.97	<0.1	<0.5	<0.5	<0.1	1.88
Anderson Ferry	477.5	23-Mar-10	<0.1	11.68	0.51	31.77	26.11	<0.1	1.1	1.31	<50	<1.5	7.64	21.56	1.98	<0.1	<0.5	0.58	<0.1	6.83
Anderson Ferry	477.5	20-May-10	<0.1	6.69	0.52	37.51	29	<0.1	0.51	1.38	<50	<1.5	9.24	5.11	R	<0.1	<0.5	0.53	<0.1	R
Anderson Ferry	477.5	13-Jul-10	<0.1	6.68	1.06	47.79	37.4	<0.1	1.25	1.93	<50	<1.5	12.33	7.07	1.57	<0.1	<0.5	0.77	<0.1	<1
Anderson Ferry	477.5	20-Sep-10	<0.1	12.34	0.93	72.29	44.78	<0.1	2.76	1.96	<50		14.93	2.06	2.81	<0.1	<0.5	1.31	<0.1	<1
Anderson Ferry	477.5	19-Nov-10	<0.1	3.21	0.87	72.12	47.12	<0.1	0.29	2.02	<50	<1.5	16.15	9.01	2.92	<0.1	<0.5	1.36	<0.1	1.74
Anderson Ferry	477.5	18-Jan-11	<0.1	10.18	0.52	47.41	32.41	<0.1	1.64	1.4	<50	<1.5	10.04	32.82	2.35	<0.1	<0.5	0.6	<0.1	1.97
Anderson Ferry	477.5	08-Mar-11	<0.1	12.5	0.39	32.64	28.03	<0.1	0.28	1.32	<50	<1.5	8.05	6.69	2.27	<0.1	<0.5	<0.5	<0.1	2.95
Anderson Ferry	477.5	24-May-11	<0.1	11.73	0.6	30.56	34.62	<0.1	0.8	1.6	<50	R	9.14	22.81	2.66	<0.1	<0.5	<0.5	<0.1	1.66
Markland	531.5	21-Jul-08	<0.1	8.06	1.53	37.78	39.76	<0.1	0.88	1.56	<50	<1.5	10.81	8.93	1.09	<0.1	<0.5	<0.5	<0.1	2.98
Markland	531.5	24-Sep-08	<0.1	7.76	1.09	56.06	38.52	<0.1	1.5	1.91	<50	<1.5	14.52	1.24	1.87	<0.1	<0.5	1.04	<0.1	1.42
Markland	531.5	19-Nov-08	<0.1	5.58	0.99	61.21	45.18	<0.1	0.97	2.36	<50	R	17.07	13.33	2.85	<0.1	<0.5	1.5	<0.1	2.21
Markland	531.5	02-Feb-09	<0.1	6.15	0.24	30.42	26.88	<0.1	0.59	R	<50	2.12	8.41	6.12	1.46	<0.1	<0.5	<0.5	<0.1	1.85
Markland	531.5	09-Mar-09	<0.1	10.03	0.39	33.25	29.97	<0.1	0.87	0.94	<50	<1.5	9.15	10.39	1.36	<0.1	<0.5	0.51	<0.1	1.07
Markland	531.5	28-May-09	<0.1	7.81	0.49	35.58	28.17	<0.1	0.36	1.22	<50	<1.5	9.48	14.64	1.1	<0.1	<0.5	<0.5	<0.1	1.3
Markland	531.5	16-Jul-09	<0.1	7.67	0.66	45.03	35.37	<0.1	1.63	1.38	<50	<1.5	11.67	2.5	1.04	<0.1	<0.5	0.68	<0.1	1.69
Markland	531.5	22-Sep-09	<0.1	5.55	0.75	53.81	39.03	<0.1	1.03	1.5	<50	<1.5	12.79	31.41	1.66	<0.1	<0.5	0.69	<0.1	<1
Markland	531.5	18-Nov-09	<0.1	4.39	0.76	43.55	36	<0.1	2.04	1.41	<50	1.56	11.79	8	1.73	<0.1	<0.5	0.59	<0.1	<1
Markland	531.5	12-Jan-10	<0.1	6.9	0.32	34.49	34.49	<0.1	2.68	0.9	<50	<1.5	11.02	9.23	1.81	<0.1	<0.5	<0.5	<0.1	1.71
Markland	531.5	23-Mar-10	<0.1	12.46	0.44	31.74	25.98	<0.1	0.63	1.27	<50	<1.5	7.79	3.72	1.72	0.11	<0.5	<0.5	<0.1	1.94
Markland	531.5	26-May-10	<0.1	R	0.65	32.98	30.13	<0.1	0.24	1.57	<50	<1.5	8.85	3.05	2	<0.1	<0.5	0.57	<0.1	<1
Markland	531.5	14-Jul-10	<0.1	5.49	1.01	45.77	35.22	<0.1	0.16	1.68	<50	<1.5	12.61	5.15	1.28	<0.1	<0.5	0.71	0.1	1.1
Markland	531.5	20-Sep-10	<0.1	7.31	1.12	65.61	43.62	<0.1	1.49	1.76	<50	<1.5	15.8	12.31	2.97	<0.1	<0.5	1.5	<0.1	1.66
Markland	531.5	19-Nov-10	<0.1	3.17	1.02	68.84	45.72	<0.1	0.84	1.94	<50	<1.5	16.4	3.65	2.97	<0.1	<0.5	1.56	<0.1	1.47
Markland	531.5	18-Jan-11	<0.1	7.57	0.45	36.2	27.57	<0.1	1.13	1.34	<50	<1.5	8.49	13.6	2.15	<0.1	<0.5	0.8	<0.1	1.89
Markland	531.5	08-Mar-11	<0.1	12.4	0.98	31.92	30.16	<0.1	0.5	2.93	<50	<1.5	8.11	18.5	4.59	0.17	<0.5	0.84	<0.1	2.36
Markland	531.5	24-May-11	<0.1	13.41	0.62	33.27	34.46	<0.1	0.76	1.65	<50	<1.5	10	1.22	2.64	<0.1	<0.5	<0.5	<0.1	2.03
Markland	531.5	18-Jul-11	<0.1	8.44	1	55.59	45.54	<0.1	1.51	1.86	<50	<1.5	15.18	6.12	2.4	<0.1	<0.5	0.73	<0.1	1.37
Markland	531.5	16-Sep-11	<0.1	10.3	0.84	59.61	43.79	<0.1	2.41	1.78	<50	<1.5	14.84	1.51	2.72	<0.1	<0.5	0.73	<0.1	1.44
Markland	531.5	21-Nov-11	<0.1	5.67	0.62	40.33	33.93	<0.1	0.91	1.39	<50	<1.5	10.3	1.87	2.55	<0.1	<0.5	0.54	<0.1	1.02
Markland	531.5	25-Jan-12	<0.1	11.43	0.63	29.48	32.72	0.18	1.38	1.29	<50	<1.5	9.86	2.75	2.15	0.15	<0.5	0.58	0.14	19.98
Markland	531.5	07-Mar-12	<0.1	12.04	0.34	30.7	25.46	<0.1	0.65	0.94	<50	<1.5	7.77	4.55	1.1	<0.1	<0.5	<0.5	<0.1	1.93
Markland	531.5	17-May-12	<0.1	7.92	0.56	35.66	33.61	<0.1	0.95	1.59	<50	<1.5	9.31	5.23	1.12	<0.1	<0.5	<0.5	<0.1	<1
Markland	531.5	17-Jul-12	<0.1	4.05	1.13	49.16	35.72	<0.1	<0.1	1.42	<50	<1.5	14.01	0.57	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	39.43	<0.1	0.92	4.98	<50	<1.5	15.33	3.26	2.53	0.17	<0.5	1.15	<0.1	3.28
Markland	531.5	08-Nov-12	<0.1	5.56	0.66	45.25	37.27	<0.1	0.2	2.67	<50	<1.5	11.72	1.4	1.76	<0.1	<0.5	0.71	<0.1	1.81
Markland	531.5	10-Jan-13	<0.1	10.09	0.46	32.41	30.73	<0.1	0.33	R	<50	<1.5	9.16	8.63	1.38	<0.1	<0.5	0.53	<0.1	R
Markland	531.5	26-Mar-13	<0.1	10.5	0.39	31.59	31.38	<0.1	0.15	1.22	<50	<1.5	9.36	2.2	1.31	<0.1	<0.5	<0.5	<0.1	<1
Markland	531.5	09-May-13	<0.1	13.78	0.65	25.25	37.05	<0.1	0.68	1.44	<50	<1.5	8.58	4.17	1.16	<0.1	<0.5	<0.5	<0.1	2.22
Louisville	600.6	14-Jul-08	<0.1	14.14	1.07	52.46	39.2	<0.1	1.76	1.85	<50	<1.5	11.51	130.84	1.46	<0.1	<0.5	0.69	<0.1	<1
Louisville	600.6	24-Sep-08	<0.1	6.95	1.17	57.74	40.9	<0.1	1.59	2.08	<50	<1.5	15.35	2.43	1.77	<0.1	<0.5	1.29	<0.1	1.2
Louisville	600.6	19-Nov-08	<0.1	6.84	1.01	58.12	42	<0.1	0.69	2.24	<50	<1.5	15.89	18.34	2.52	<0.1	<0.5	1.08	<0.1	1.64
Louisville	600.6	22-Jan-09	<0.1	7.59	0.32	28.78	29.21	<0.1	0.61	R	<50	<1.5	8.48	9.19	1.32	<0.1	<0.5	<0.5	<0.1	<1
Louisville	600.6	12-Mar-09	<0.1	72.64	0.51	33.14	34.53	<0.1	0.64	1.06	113.17	1.52	10.22	16.89	1.54	0.18	<0.5	0.64	<0.1	1.32
Louisville	600.6	28-May-09	<0.1	9.77	0.64	37.17	31.05	<0.1	0.58	1.34	<50	<1.5	10.14	35.07	1.12	0.12	<0.5	0.66	<0.1	1.25
Louisville	600.6	16-Jul-09	<0.1	8.04	0.76	44.4	36.51	<0.1	1.14	1.4	<50	<1.5	10.77	21.04	1.14	<0.1	<0.5	0.73	<0.1	<1

R - indicates data redacted due to quality assurance factors

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Louisville	600.6	23-Sep-09	<0.1	5.09	0.8	48.1	36.3	<0.1	0.59	1.88	<50	1.77	12.05	11.71	1.46	<0.1	<0.5	0.78	<0.1	<1
Louisville	600.6	18-Nov-09	<0.1	4.37	0.73	48.88	46.47	<0.1	1.34	R	<50	<1.5	14.77	10.15	1.6	<0.1	<0.5	0.63	<0.1	4.18
Louisville	600.6	26-Jan-10	<0.1	7.69	0.4	27.58	35.79	<0.1	1.48	0.95	<50	<1.5	9.64	4.91	1.56	<0.1	<0.5	<0.5	<0.1	<1
Louisville	600.6	16-Mar-10	<0.1	7.7	0.54	41.46	37.13	<0.1	1.22	1.14	<50	<1.5	10.92	10.9	2.05	<0.1	<0.5	0.57	<0.1	<1
Louisville	600.6	20-May-10	<0.1	6.99	0.51	32.02	30.68	<0.1	0.3	1.22	<50	<1.5	9.03	10.17	1.83	<0.1	<0.5	0.52	<0.1	1.23
Louisville	600.6	22-Jul-10	<0.1	6.67	1.19	48.73	44.23	<0.1	0.69	1.86	<50	<1.5	14.83	3.62	1.5	0.11	<0.5	0.98	0.12	<1
Louisville	600.6	16-Sep-10	<0.1	12.68	1.06	58.93	41.67	<0.1	1.16	1.87	<50	<1.5	13.83	8.13	2.39	<0.1	<0.5	1.36	<0.1	<1
Louisville	600.6	17-Nov-10	<0.1	3.57	1.2	67.08	47.67	<0.1	0.35	2.18	<50	<1.5	16.7	10.94	3.18	<0.1	<0.5	1.83	<0.1	2.16
Louisville	600.6	26-Jan-11	<0.1	7.68	0.54	41.17	35.66	<0.1	2.33	1.54	<50	<1.5	10.39	38.75	2.42	<0.1	<0.5	0.76	<0.1	1.81
Louisville	600.6	28-Mar-11	<0.1	5.34	0.58	57.96	59.93	<0.1	<0.1	1.03	<50	<1.5	14.84	604.83	2.54	<0.1	<0.5	2.06	<0.1	5.06
Louisville	600.6	18-May-11	<0.1	8.45	0.94	42.86	46.45	<0.1	1.12	1.5	<50	<1.5	14.02	214.65	3.04	<0.1	<0.5	0.76	<0.1	12.08
McAlpine	606.8	20-May-10	<0.1	8.03	0.65	37.93	36.52	<0.1	0.45	1.33	<50	<1.5	10.85	3.98	1.82	<0.1	<0.5	0.61	<0.1	<1
McAlpine	606.8	22-Jul-10	<0.1	5.97	1.1	48.33	43.89	<0.1	0.67	1.85	<50	<1.5	14.58	0.48	1.42	<0.1	<0.5	0.92	<0.1	<1
McAlpine	606.8	16-Sep-10	<0.1	12.68	0.99	58.12	41.72	<0.1	0.76	1.71	<50	<1.5	14.01	3.94	2.44	<0.1	<0.5	1.33	<0.1	<1
McAlpine	606.8	17-Nov-10	<0.1	<1	1.71	67.9	47.23	0.46	1.25	R	<50	<1.5	17.53	5.04	4.2	0.47	<0.5	2.19	0.54	1.75
McAlpine	606.8	26-Jan-11	<0.1	8.75	0.57	40.68	32.74	<0.1	0.83	1.59	<50	<1.5	9.58	20.8	2.64	0.11	<0.5	0.76	<0.1	1.99
McAlpine	606.8	28-Mar-11	<0.1	11.86	0.5	34.18	32.85	<0.1	0.21	R	<50	1.59	9.85	5.16	1.97	<0.1	<0.5	0.62	<0.1	1.69
McAlpine	606.8	18-May-11	<0.1	10.07	0.64	35.59	39.92	<0.1	1.21	1.55	<50	<1.5	12.57	3.13	2.7	<0.1	<0.5	<0.5	<0.1	R
McAlpine	606.8	18-Jul-11	<0.1	6.33	0.88	47.26	40.73	<0.1	1.13	1.76	<50	<1.5	13.46	0.8	2.09	<0.1	<0.5	0.72	<0.1	<1
McAlpine	606.8	14-Sep-11	<0.1	6.49	0.87	59.77	41.7	<0.1	3.12	1.92	<50	R	14.64	2.46	3.01	<0.1	<0.5	0.76	<0.1	R
McAlpine	606.8	21-Nov-11	<0.1	4.29	0.63	37.18	37.93	<0.1	1.14	1.31	<50	<1.5	10.98	1.16	2.34	<0.1	<0.5	<0.5	<0.1	<1
McAlpine	606.8	25-Jan-12	<0.1	9.39	0.43	22.7	32.64	<0.1	1.33	2.47	<50	<1.5	9.2	1.21	1.84	<0.1	<0.5	<0.5	<0.1	<1
McAlpine	606.8	07-Mar-12	<0.1	9.99	0.33	26.42	26.13	<0.1	1.09	0.98	<50	<1.5	7.83	2.46	0.97	<0.1	<0.5	<0.5	<0.1	1.2
McAlpine	606.8	17-May-12	<0.1	6.71	0.54	32.22	35.1	<0.1	0.44	1.71	<50	<1.5	9.71	1.32	1.2	<0.1	<0.5	<0.5	<0.1	<1
McAlpine	606.8	17-Jul-12	<0.1	4.72	1.07	47	35.89	<0.1	0.45	2.16	<50	<1.5	14.02	0.98	1.66	<0.1	<0.5	1.08	<0.1	4.19
McAlpine	606.8	20-Sep-12	<0.1	3.87	1.15	51.03	38.03	<0.1	0.18	2.05	<50	<1.5	14.59	2.27	2.81	<0.1	<0.5	1.38	<0.1	2.02
McAlpine	606.8	08-Nov-12	<0.1	4.14	0.66	49.92	39.1	<0.1	0.12	2.1	<50	<1.5	12.36	0.92	2.3	<0.1	<0.5	0.87	<0.1	4.76
McAlpine	606.8	10-Jan-13	<0.1	9.44	0.36	28.89	32	<0.1	0.15	2.46	<50	<1.5	9.34	8.11	1.24	<0.1	<0.5	0.6	<0.1	2.28
McAlpine	606.8	26-Mar-13	<0.1	9.6	0.45	27.72	30.83	<0.1	0.29	1.15	<50	<1.5	8.93	2.33	1.25	<0.1	<0.5	0.56	<0.1	1.24
McAlpine	606.8	09-May-13	<0.1	8.14	0.56	28.62	41.71	<0.1	0.56	1.33	<50	<1.5	10.43	1.31	0.96	<0.1	<0.5	<0.5	<0.1	1.17
West Point	625.9	14-Jul-08	<0.1	8.44	0.96	47.78	47	<0.1	1.51	2.14	<50	<1.5	13.69	24.18	1.64	<0.1	<0.5	2.01	<0.1	<1
West Point	625.9	24-Sep-08	<0.1	13.7	1.25	57.01	49.98	<0.1	1.78	4.18	<50	6.62	16.36	5.93	2.79	<0.1	<0.5	2.59	<0.1	1.87
West Point	625.9	19-Nov-08	<0.1	8.82	1.13	56.89	50.02	<0.1	0.37	2.45	<50	4.1	17.03	39.89	3.6	<0.1	<0.5	3.22	<0.1	2.69
West Point	625.9	22-Jan-09	<0.1	7.84	0.43	30.66	36.42	<0.1	0.62	1.29	<50	5.07	9.7	49.9	1.83	<0.1	<0.5	1.69	<0.1	1.76
West Point	625.9	12-Mar-09	<0.1	9.75	0.54	33.86	36.74	<0.1	0.58	1.21	<50	<1.5	10.78	15.4	1.69	<0.1	<0.5	1.37	<0.1	1.29
West Point	625.9	28-May-09	<0.1	9.08	0.69	39.46	38.17	<0.1	0.35	1.77	<50	1.96	11.44	39.11	1.63	<0.1	<0.5	1.61	<0.1	1.37
West Point	625.9	16-Jul-09	<0.1	11.87	0.93	49.98	46.27	<0.1	1.85	1.99	<50	3.54	12.72	22.04	1.91	<0.1	<0.5	2.53	<0.1	1.78
West Point	625.9	09-Sep-09	<0.1	12.86	0.86	47.96	49.04	<0.1	0.46	4.79	<50	5.72	13.12	6.23	2.14	<0.1	<0.5	2.83	<0.1	<1
West Point	625.9	18-Nov-09	<0.1	5.54	0.81	49.04	56.7	<0.1	1.98	1.99	<50	3	16.36	42.97	2.36	<0.1	<0.5	1.74	<0.1	2.55
West Point	625.9	26-Jan-10	<0.1	7.55	0.45	29.02	38.53	<0.1	1.6	1	<50	1.95	10.53	4.42	1.81	<0.1	<0.5	0.63	<0.1	1.18
West Point	625.9	16-Mar-10	<0.1	7.81	0.52	43.72	40.04	<0.1	1.21	1.35	<50	<1.5	11.67	3.59	2.34	<0.1	<0.5	0.78	<0.1	1.42
West Point	625.9	20-May-10	<0.1	6.96	0.71	34.16	35.94	<0.1	0.62	1.67	<50	<1.5	9.87	2.7	2.11	<0.1	<0.5	1.37	<0.1	1.04
West Point	625.9	22-Jul-10	<0.1	8.45	1.19	46.48	44.59	<0.1	0.3	1.97	<50	<1.5	14.39	4.79	1.56	<0.1	<0.5	1.36	<0.1	1.03
West Point	625.9	16-Sep-10	<0.1	37.12	1.96	66.98	68.33	<0.1	1.43	4.95	<50	9.04	17.17	7.17	4.48	<0.1	<0.5	5.99	0.22	1.6
West Point	625.9	17-Nov-10	<0.1	7.83	1.24	68.28	58	0.11	0.58	2.35	<50	<1.5	18.83	26.86	3.98	0.11	<0.5	2.84	0.18	3.66
West Point	625.9	26-Jan-11	<0.1	12.8	0.74	40.52	42.18	<0.1	0.91	1.9	<50	4.11	11.21	38.19	3.44	<0.1	<0.5	1.91	0.13	7.76
West Point	625.9	28-Mar-11	<0.1	10.01	0.42	31.03	28.59	1	<0.1	1.22	<50	<1.5	8.5	8.78	1.71	<0.1	<0.5	<0.5	<0.1	R
West Point	625.9	18-May-11	<0.1	8.25	0.44	31.97	40.17	<0.1	0.79	1.45	<50	1.86	12.52	4.54	2.38	<0.1	<0.5	0.69	<0.1	2.4
Cannelton	720.7	23-Jul-08	<0.1	5.16	0.86	47.05	39.47	<0.1	0.54	1.85	<50	R	11.95	0.76	1.24	<0.1	<0.5	0.77	<0.1	<1

R - indicates data redacted due to quality assurance factors

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Cannelton	720.7	18-Sep-08	<0.1	9.03	1.08	56.35	45.55	<0.1	2.89	1.81	<50	1.87	15.6	13.22	1.97	<0.1	<0.5	1.24	<0.1	<1
Cannelton	720.7	18-Nov-08	<0.1	4.84	0.97	55.74	40.7	<0.1	0.4	1.86	<50	<1.5	14.93	7.12	2.52	<0.1	<0.5	1.36	<0.1	1.37
Cannelton	720.7	03-Feb-09	<0.1	6.26	0.36	29.53	33.33	<0.1	1.92	1	<50	<1.5	9.4	3.09	1.29	<0.1	<0.5	0.61	<0.1	<1
Cannelton	720.7	10-Mar-09	<0.1	8.21	0.46	30.59	31.9	<0.1	0.77	1.16	<50	<1.5	9.12	1.33	1.31	<0.1	<0.5	0.63	<0.1	2.03
Cannelton	720.7	21-May-09	<0.1	6.17	0.59	32.57	31.39	<0.1	0.47	1.59	<50	<1.5	8.45	2.23	1.06	<0.1	<0.5	<0.5	<0.1	1.4
Cannelton	720.7	22-Jul-09	<0.1	7.09	0.88	46.79	37.87	<0.1	0.45	1.51	<50	<1.5	11.1	0.85	1.28	<0.1	<0.5	0.96	<0.1	2.39
Cannelton	720.7	23-Sep-09	<0.1	4.92	0.76	46.38	36.59	<0.1	0.89	1.55	<50	<1.5	12.11	5.06	1.34	<0.1	<0.5	1.31	<0.1	<1
Cannelton	720.7	18-Nov-09	<0.1	3.56	0.77	45.97	47.44	<0.1	2.07	R	<50	<1.5	13.81	3.13	1.4	<0.1	<0.5	0.68	<0.1	2.17
Cannelton	720.7	12-Jan-10	<0.1	4.45	0.25	29.47	33.13	<0.1	1.95	0.93	<50	<1.5	9.89	4.82	1.45	<0.1	<0.5	<0.5	<0.1	1.46
Cannelton	720.7	24-Mar-10	<0.1	10.94	0.35	33.06	28.27	<0.1	0.18	1.19	<50	<1.5	8.05	1.89	1.72	<0.1	<0.5	<0.5	<0.1	R
Cannelton	720.7	11-May-10	<0.1	7.37	0.63	30.14	32.87	<0.1	0.92	1.7	<50	<1.5	7.8	3.2	2.05	<0.1	<0.5	<0.5	<0.1	<1
Cannelton	720.7	13-Jul-10	<0.1	4.95	1.05	46.04	41.63	<0.1	1.61	1.8	<50	<1.5	12.96	2.24	1.32	<0.1	<0.5	0.81	<0.1	<1
Cannelton	720.7	07-Sep-10	<0.1	12.89	1	53.32	38.45	<0.1	1.39	1.8	<50	<1.5	13.75	4.8	1.92	<0.1	<0.5	1.18	<0.1	<1
Cannelton	720.7	02-Nov-10	<0.1	5.79	1.06	63.22	47.55	<0.1	0.53	1.86	<50	<1.5	17.96	2.5	2.87	<0.1	<0.5	1.67	<0.1	1.21
Cannelton	720.7	26-Jan-11	<0.1	6.43	0.36	35.26	30.49	<0.1	0.6	1.39	<50	<1.5	9.51	7.75	1.83	<0.1	<0.5	<0.5	<0.1	2.23
Cannelton	720.7	30-Mar-11	<0.1	9.94	0.29	33.32	31.68	<0.1	<0.1	1.11	<50	<1.5	9.24	1.55	1.82	<0.1	<0.5	<0.5	<0.1	2.29
Cannelton	720.7	24-May-11	<0.1	8.91	0.62	36.18	37.91	<0.1	0.64	1.58	<50	<1.5	11.34	0.79	2.89	<0.1	<0.5	<0.5	<0.1	1.4
Cannelton	720.7	12-Jul-11	<0.1	5.85	0.9	39.59	40.11	<0.1	1.29	1.48	<50	<1.5	11.49	2.89	1.85	<0.1	<0.5	0.7	<0.1	<1
Cannelton	720.7	29-Sep-11	<0.1	4.94	0.87	53.52	42.88	<0.1	2.42	1.81	<50	<1.5	14.17	0.92	2.61	<0.1	<0.5	0.9	<0.1	R
Cannelton	720.7	16-Nov-11	<0.1	4.58	0.64	32.25	33.13	<0.1	1.2	1.63	<50	<1.5	9.61	1.94	1.93	<0.1	<0.5	<0.5	<0.1	<1
Cannelton	720.7	09-Jan-12	<0.1	9.68	0.46	28.51	30.25	<0.1	1.12	1.29	<50	<1.5	9.12	2.52	2.09	0.11	<0.5	0.56	0.11	1.43
Cannelton	720.7	14-Mar-12	<0.1	13.63	0.38	28.63	31.21	<0.1	0.29	R	<50	<1.5	8.55	1.11	0.85	<0.1	<0.5	<0.5	<0.1	R
Cannelton	720.7	31-May-12	<0.1	6.21	0.62	38.63	35.79	<0.1	0.84	2.06	<50	<1.5	10.65	2.74	1.22	<0.1	<0.5	0.52	<0.1	3.06
Cannelton	720.7	10-Jul-12	<0.1	7.45	0.88	43.56	35.2	<0.1	<0.1	1.31	<50	<1.5	12.08	1.09	1.11	<0.1	<0.5	0.82	<0.1	1.01
Cannelton	720.7	12-Sep-12	<0.1	4.63	1.13	46.17	36.95	<0.1	0.27	1.96	<50	<1.5	13.08	1	2.15	<0.1	<0.5	1.22	<0.1	R
Cannelton	720.7	14-Nov-12	<0.1	3.84	0.71	47.69	38.86	<0.1	0.68	2.31	<50	<1.5	11.93	1	2.06	<0.1	<0.5	0.95	<0.1	8.08
Cannelton	720.7	29-Jan-13	<0.1	9.02	0.45	29.98	28.67	<0.1	0.33	1.12	<50	<1.5	7.99	1.88	1.22	<0.1	<0.5	<0.5	<0.1	1.17
Cannelton	720.7	26-Mar-13	<0.1	9.98	0.49	27.39	30.96	<0.1	0.4	1.17	<50	<1.5	8.69	1.66	1.36	<0.1	<0.5	0.52	<0.1	1.06
Cannelton	720.7	07-May-13	<0.1	8.37	0.56	33.11	37.34	<0.1	<0.5	1.31	<50	<1.5	9.93	6.47	1.08	<0.1	<0.5	<0.5	<0.1	1.09
Newburgh	776	15-Jul-08	<0.1	8.09	0.81	47.75	41.61	<0.1	1.82	1.93	<50	12.87	12.94	0.46	1.18	<0.1	<0.5	0.92	<0.1	1.4
Newburgh	776	29-Sep-08	<0.1	10.64	1.04	56.02	46.32	<0.1	1.2	2.22	<50	R	16.34	0.15	1.77	<0.1	<0.5	1.42	<0.1	<1
Newburgh	776	18-Nov-08	<0.1	5.65	0.99	57.73	45.27	<0.1	0.5	2.15	<50	1.84	16.74	8.08	3.07	<0.1	<0.5	1.49	<0.1	1.36
Newburgh	776	03-Feb-09	<0.1	4.62	0.37	28.86	33.38	<0.1	1.38	1.03	<50	<1.5	10.39	7.41	1.3	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	776	10-Mar-09	<0.1	7.32	0.45	29.7	33.97	<0.1	0.57	1.18	<50	<1.5	9.54	8.87	1.32	<0.1	<0.5	0.54	<0.1	<1
Newburgh	776	20-May-09	<0.1	5.02	0.48	30.79	29.08	<0.1	0.36	1.56	<50	<1.5	7.69	2.62	1.13	<0.1	<0.5	0.59	<0.1	2.31
Newburgh	776	22-Jul-09	<0.1	6.44	0.91	42.5	36.04	<0.1	0.55	1.63	<50	<1.5	11.17	1.13	1.32	<0.1	<0.5	0.86	<0.1	<1
Newburgh	776	15-Sep-09	<0.1	4.71	0.75	39.67	31.83	<0.1	<0.1	1.56	<50	<1.5	10.36	0.29	1.23	<0.1	<0.5	1.1	<0.1	<1
Newburgh	776	02-Nov-09	<0.1	3.71	0.62	38.22	46.85	<0.1	0.53	1.45	<50	<1.5	12.52	0.57	1.79	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	776	12-Jan-10	<0.1	5.45	0.45	31.28	36.06	<0.1	2.41	1.1	<50	<1.5	11.96	12.15	1.59	<0.1	<0.5	0.56	<0.1	<1
Newburgh	776	24-Mar-10	<0.1	7.23	0.49	32.16	28.83	<0.1	0.17	1.69	<50	<1.5	8.87	12.35	2.03	<0.1	<0.5	<0.5	<0.1	1.99
Newburgh	776	11-May-10	<0.1	5.98	0.77	30.62	33.08	<0.1	1.1	1.8	<50	<1.5	9	43.31	2.38	<0.1	<0.5	0.53	<0.1	1.69
Newburgh	776	13-Jul-10	<0.1	5.54	1.07	45.12	41.15	<0.1	0.7	2.1	<50	<1.5	13.13	0.91	1.32	<0.1	<0.5	0.86	<0.1	<1
Newburgh	776	07-Sep-10	<0.1	5.3	0.99	48.17	38.27	<0.1	1.09	2.07	<50	<1.5	12.04	0.55	2.22	<0.1	<0.5	1.01	<0.1	<1
Newburgh	776	02-Nov-10	<0.1	6.59	1.05	64.87	49.54	<0.1	0.13	1.86	<50	<1.5	17.58	2	2.94	<0.1	<0.5	1.6	<0.1	R
Newburgh	776	26-Jan-11	<0.1	5.52	0.51	39.09	34.45	<0.1	0.79	1.4	<50	<1.5	10.8	15.26	2.24	<0.1	<0.5	0.9	<0.1	1.24
Newburgh	776	01-Mar-11	<0.1	7.88	0.58	36.5	41.98	<0.1	0.1	1.56	<50	<1.5	10.55	2.55	2.5	<0.1	<0.5	0.54	<0.1	1.21
Newburgh	776	24-May-11	<0.1	9.07	0.65	37.42	37.33	<0.1	1.12	1.61	<50	<1.5	11.68	2.38	2.76	<0.1	<0.5	0.62	<0.1	1.2
Newburgh	776	12-Jul-11	<0.1	8.53	1.19	41.4	41.46	0.18	1.65	2.17	<50	<1.5	12.76	2.57	2.67	0.17	<0.5	0.97	0.21	<1
Newburgh	776	29-Sep-11	<0.1	8.79	0.71	45.32	37.39	<0.1	2.62	1.81	<50	<1.5	13.13	4.14	2.26	<0.1	<0.5	0.97	<0.1	1.52

R - indicates data redacted due to quality assurance factors

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Newburgh	776	16-Nov-11	<0.1	6.28	0.83	36.22	41.74	<0.1	0.48	2.01	<50	5.2	13.83	18.32	2.75	<0.1	<0.5	0.59	<0.1	2.91
Newburgh	776	09-Jan-12	<0.1	9.12	0.6	28.22	31.79	<0.1	0.38	1.59	<50	<1.5	9.99	17.68	2.3	<0.1	<0.5	0.53	<0.1	R
Newburgh	776	14-Mar-12	<0.1	9.98	0.26	29.2	32.27	<0.1	0.9	1.09	<50	<1.5	8.96	2.29	0.9	<0.1	<0.5	<0.5	<0.1	<1
Newburgh	776	31-May-12	<0.1	5.38	0.8	38.96	36.64	0.13	0.22	1.86	<50	<1.5	11.2	0.56	1.39	0.14	<0.5	0.71	0.13	1.66
Newburgh	776	10-Jul-12	<0.1	6.69	0.73	40.73	36.59	<0.1	0.12	1.53	<50	<1.5	11.83	0.19	1.03	<0.1	<0.5	0.59	<0.1	<1
Newburgh	776	12-Sep-12	<0.1	7.78	0.96	44.65	35.46	<0.1	0.24	1.88	<50	<1.5	11.92	0.42	1.84	<0.1	<0.5	1.09	<0.1	2.07
Newburgh	776	14-Nov-12	<0.1	3.53	0.65	52.33	41.03	<0.1	0.58	R	<50	<1.5	12.92	3.59	2.12	<0.1	<0.5	0.95	<0.1	R
Newburgh	776	29-Jan-13	<0.1	8.75	0.44	29.92	29.19	<0.1	0.39	1.11	<50	<1.5	8.35	8.55	1.22	<0.1	<0.5	0.51	<0.1	<1
Newburgh	776	26-Mar-13	<0.1	8.23	0.44	27.33	32.21	<0.1	0.22	2.41	<50	<1.5	9.33	7.53	1.43	<0.1	<0.5	0.68	<0.1	3.18
Newburgh	776	07-May-13	<0.1	8.63	0.61	32.14	32.87	<0.1	<0.5	1.41	<50	<1.5	9.9	13.94	1.36	<0.1	<0.5	<0.5	<0.1	2.39
J.T. Myers	846	22-Jul-08	<0.1	8.05	0.86	50.29	43.43	<0.1	0.57	1.72	<50	R	13.25	0.54	1.03	<0.1	<0.5	0.63	<0.1	<1
J.T. Myers	846	17-Sep-08	<0.1	10.83	1.12	52.51	43.01	<0.1	2.75	1.83	<50	<1.5	15.35	0.43	1.56	<0.1	<0.5	0.87	<0.1	<1
J.T. Myers	846	17-Nov-08	<0.1	7.12	0.77	51.05	40.7	<0.1	0.88	1.54	<50	<1.5	14.01	5.72	1.84	<0.1	<0.5	0.89	<0.1	1.14
J.T. Myers	846	02-Feb-09	<0.1	6.18	0.39	26.75	28.81	<0.1	1.46	0.97	<50	<1.5	7.99	2.65	1.05	<0.1	<0.5	<0.5	<0.1	<1
J.T. Myers	846	10-Mar-09	<0.1	6.08	0.35	28.89	34.91	<0.1	0.24	1.2	<50	<1.5	9.25	4.51	1.1	<0.1	<0.5	<0.5	<0.1	1.03
J.T. Myers	846	19-May-09	<0.1	4.61	0.54	29.23	28.42	<0.1	0.35	1.39	<50	<1.5	7.1	0.85	1.14	<0.1	<0.5	0.53	<0.1	1.48
J.T. Myers	846	21-Jul-09	<0.1	8.47	0.72	40.33	37.27	<0.1	0.43	1.51	<50	<1.5	11.67	0.44	1.04	<0.1	<0.5	0.71	<0.1	<1
J.T. Myers	846	15-Sep-09	<0.1	3.57	0.71	35.89	31.94	<0.1	0.85	1.31	<50	<1.5	10.73	0.35	1.46	<0.1	<0.5	0.61	<0.1	1.62
J.T. Myers	846	02-Nov-09	<0.1	3.76	0.73	33.83	42.56	<0.1	0.58	1.5	<50	1.56	11.61	0.87	1.18	<0.1	<0.5	<0.5	<0.1	<1
J.T. Myers	846	13-Jan-10	<0.1	5.82	0.25	30.89	37.42	<0.1	1.51	0.83	<50	<1.5	11.88	15.33	1.48	<0.1	<0.5	<0.5	<0.1	<1
J.T. Myers	846	25-Mar-10	<0.1	6.58	0.47	35.53	31.69	<0.1	0.16	1.41	<50	<1.5	9.32	1.62	1.43	<0.1	<0.5	0.53	<0.1	<1
J.T. Myers	846	12-May-10	<0.1	8.78	0.64	28.95	30.82	<0.1	0.16	1.53	<50	<1.5	7.34	2.64	2	<0.1	<0.5	<0.5	<0.1	<1
J.T. Myers	846	14-Jul-10	<0.1	6.36	1.08	42.27	40.13	<0.1	0.69	1.81	<50	<1.5	12.14	5.14	1.17	<0.1	<0.5	0.76	<0.1	<1
J.T. Myers	846	08-Sep-10	<0.1	20.56	0.94	44.52	39.44	<0.1	0.85	1.55	<50	<1.5	11.99	0.22	2.05	<0.1	<0.5	0.87	<0.1	<1
J.T. Myers	846	03-Nov-10	<0.1	7.02	0.99	56.01	46.42	<0.1	1.33	1.67	<50	<1.5	15.68	0.45	2.73	<0.1	<0.5	1.34	<0.1	1.41
J.T. Myers	846	26-Jan-11	<0.1	8.4	0.5	35.61	32.68	<0.1	0.56	1.54	<50	<1.5	10.13	10.85	2.25	<0.1	<0.5	0.68	<0.1	2.56
J.T. Myers	846	01-Mar-11	<0.1	6.73	0.62	37.39	41.36	<0.1	1.02	1.57	<50	<1.5	10.4	1.89	2.48	<0.1	<0.5	0.61	<0.1	<1
J.T. Myers	846	23-Mar-11	<0.1	5.95	0.69	34.4	37.29	<0.1	1.2	1.57	<50	R	11.28	9.69	2.8	<0.1	<0.5	0.67	<0.1	1.15
J.T. Myers	846	12-Jul-11	<0.1	5.65	0.99	36.25	38.96	<0.1	1.53	1.85	<50	<1.5	10.97	2.06	2.04	<0.1	<0.5	0.57	<0.1	<1
J.T. Myers	846	28-Sep-11	<0.1	8.17	0.93	54.87	45	<0.1	1.98	1.7	<50	<1.5	15.5	2.11	2.44	<0.1	<0.5	0.69	<0.1	1.44
J.T. Myers	846	17-Nov-11	<0.1	5.72	0.73	37.26	37.46	<0.1	1	1.83	<50	<1.5	10.94	2.83	2.28	<0.1	<0.5	0.54	<0.1	1.35
J.T. Myers	846	09-Jan-12	<0.1	8.26	0.5	26.94	30.52	<0.1	0.27	R	<50	<1.5	8.79	24.82	1.98	<0.1	<0.5	0.52	<0.1	R
J.T. Myers	846	14-Mar-12	<0.1	9.43	0.44	27.96	30.41	<0.1	0.43	R	<50	<1.5	8.37	1.95	1.03	<0.1	<0.5	<0.5	<0.1	R
J.T. Myers	846	30-May-12	<0.1	7.24	0.63	36.38	37.08	<0.1	0.31	1.8	<50	<1.5	10.15	0.44	1.12	<0.1	<0.5	<0.5	<0.1	<1
J.T. Myers	846	10-Jul-12	<0.1	13.81	0.76	42.86	37.74	<0.1	0.16	1.51	<50	<1.5	12.05	3.51	1.03	<0.1	<0.5	0.66	<0.1	1.03
J.T. Myers	846	13-Sep-12	<0.1	7.81	0.8	37.25	29.59	<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
J.T. Myers	846	15-Nov-12	<0.1	5.73	0.7	53.07	40.58	<0.1	0.36	1.95	<50	<1.5	13.17	3.1	2.28	<0.1	<0.5	0.93	<0.1	1.95
J.T. Myers	846	30-Jan-13	<0.1	8.96	0.65	29.4	29.64	<0.1	0.21	1.24	<50	<1.5	7.99	6.52	1.31	<0.1	<0.5	<0.5	<0.1	<1
J.T. Myers	846	27-Mar-13	<0.1	7.14	0.46	26.3	30.38	<0.1	0.22	1.24	<50	<1.5	8.53	2.17	1.31	<0.1	<0.5	<0.5	<0.1	1.87
J.T. Myers	846	08-May-13	<0.1	6.81	0.51	31.14	33.19	<0.1	<0.5	1.36	<50	R	9.34	2.37	1.12	<0.1	<0.5	<0.5	<0.1	1.4
Smithland	918.5	22-Jul-08	<0.1	3.92	1	43.16	43.91	<0.1	0.26	1.74	<50	R	13.66	0.2	1.04	<0.1	<0.5	0.56	<0.1	<1
Smithland	918.5	30-Sep-08	<0.1	3.16	1.2	52.22	45.12	<0.1	1.03	1.86	<50	R	16.65	0.43	1.67	<0.1	<0.5	1.02	<0.1	1.36
Smithland	918.5	17-Nov-08	<0.1	1.14	0.99	51.82	46.82	<0.1	0.59	1.47	<50	<1.5	17.47	6.04	1.87	<0.1	<0.5	1.06	<0.1	<1
Smithland	918.5	02-Feb-09	<0.1	5.21	0.37	28.74	33.01	<0.1	0.77	0.95	<50	<1.5	9.38	2.68	1.07	<0.1	<0.5	0.53	<0.1	<1
Smithland	918.5	10-Mar-09	<0.1	4.83	0.59	32.12	40.88	<0.1	0.68	1.27	<50	<1.5	11.28	1.79	1.21	<0.1	<0.5	0.54	<0.1	<1
Smithland	918.5	19-May-09	<0.1	4.17	0.84	33.11	32.51	<0.1	0.36	1.79	<50	<1.5	9.37	0.67	1.33	<0.1	<0.5	0.53	<0.1	<1
Smithland	918.5	21-Jul-09	<0.1	5.02	0.85	42.41	43.15	<0.1	0.4	1.37	<50	<1.5	14.39	0.19	1.83	<0.1	<0.5	0.77	<0.1	<1
Smithland	918.5	16-Sep-09	<0.1	3.07	0.9	38.88	35.09	<0.1	0.74	1.24	<50	<1.5	11.72	8.12	1.53	<0.1	<0.5	<0.5	<0.1	1.59
Smithland	918.5	02-Nov-09	<0.1	6.01	0.94	35.27	43.6	<0.1	0.5	R	<50	<1.5	12.36	1.41	2.08	<0.1	<0.5	<0.5	<0.1	<1

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Smithland	918.5	13-Jan-10	<0.1	3.44	0.46	34.65	49.31	<0.1	2.85	3.47	<50	<1.5	15.59	14.42	1.95	<0.1	<0.5	<0.5	<0.1	<1
Smithland	918.5	25-Mar-10	<0.1	6.34	0.67	39.14	37.8	<0.1	0.22	1.78	<50	<1.5	11.41	3.91	2.22	0.11	<0.5	0.5	<0.1	1.77
Smithland	918.5	13-May-10	<0.1	5.3	0.92	34.77	36.87	<0.1	1.36	1.68	<50	<1.5	10.28	22.28	2.23	<0.1	<0.5	0.56	<0.1	<1
Smithland	918.5	15-Jul-10	<0.1	2.89	1.26	44.47	46.42	<0.1	1.34	1.7	<50	<1.5	14.26	1.23	1.19	<0.1	<0.5	0.68	0.12	<1
Smithland	918.5	09-Sep-10	<0.1	6.51	1.14	53.31	45.19	<0.1	0.66	1.51	<50	<1.5	15.14	0.61	2.26	<0.1	<0.5	0.82	<0.1	<1
Smithland	918.5	03-Nov-10	<0.1	3.09	1.01	57.2	49.83	<0.1	1.5	1.54	<50	<1.5	18.06	0.35	2.71	<0.1	<0.5	1.7	<0.1	1.04
Smithland	918.5	27-Jan-11	<0.1	3.11	0.3	19.27	19.63	<0.1	0.56	0.85	<50	<1.5	6.13	9.07	1.43	<0.1	<0.5	<0.5	<0.1	<1
Smithland	918.5	29-Mar-11	<0.1	5.96	0.62	36.55	41.12	<0.1	<0.1	1.52	<50	<1.5	11.63	4.7	2.11	<0.1	<0.5	0.53	<0.1	2.38
Smithland	918.5	23-May-11	<0.1	5.75	0.95	37.05	43.66	<0.1	1.25	1.7	<50	R	13.12	8.15	3.12	<0.1	<0.5	0.53	<0.1	<1
Smithland	918.5	13-Jul-11	<0.1	3.67	1.19	36.36	37.2	<0.1	1.42	1.69	<50	<1.5	10.77	1.45	1.93	<0.1	<0.5	0.51	<0.1	R
Smithland	918.5	28-Sep-11	<0.1	6.81	1.06	49.06	42.19	<0.1	2.89	1.77	<50	<1.5	14.16	1.17	2.66	<0.1	<0.5	0.76	<0.1	R
Smithland	918.5	17-Nov-11	<0.1	4.87	0.67	41.29	40.32	<0.1	1.19	1.48	<50	<1.5	12.54	5.3	2.28	<0.1	<0.5	<0.5	<0.1	<1
Smithland	918.5	10-Jan-12	<0.1	5.11	0.7	33.12	43.3	<0.1	2	1.49	<50	<1.5	12.7	13.88	2.38	<0.1	<0.5	0.68	<0.1	2.19
Smithland	918.5	13-Mar-12	<0.1	8.14	0.35	31.55	35.71	<0.1	1.62	R	<50	<1.5	10.47	1.96	0.97	<0.1	<0.5	<0.5	<0.1	<1
Smithland	918.5	30-May-12	<0.1	3.96	0.74	38.02	39.6	<0.1	0.57	1.58	<50	<1.5	12.32	6.81	1.09	<0.1	<0.5	<0.5	<0.1	1.17
Smithland	918.5	11-Jul-12	<0.1	8.42	1.02	42.91	39.93	<0.1	<0.1	1.24	<50	5	16.29	0.68	1.02	<0.1	<0.5	0.56	<0.1	2.39
Smithland	918.5	13-Sep-12	<0.1	4.26	1.12	46.3	37.38	<0.1	0.21	1.57	<50	<1.5	13.32	0.46	1.74	<0.1	<0.5	0.9	<0.1	3.96
Smithland	918.5	15-Nov-12	<0.1	2.21	0.71	57.66	45.06	<0.1	0.39	1.79	<50	<1.5	15.53	1.5	2.25	<0.1	<0.5	0.93	<0.1	1.34
Smithland	918.5	30-Jan-13	<0.1	5.95	0.65	34.46	35.71	<0.1	1.01	1.73	<50	<1.5	9.83	14.64	1.53	0.1	<0.5	0.69	<0.1	<1
Smithland	918.5	27-Mar-13	<0.1	5.38	0.58	30.6	35.84	<0.1	0.42	1.28	<50	<1.5	10.14	2.96	1.36	<0.1	<0.5	0.54	<0.1	<1
Smithland	918.5	08-May-13	<0.1	3.99	0.96	38.86	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
L&D 52	938.9	21-Jul-08	<0.1	3.92	0.86	44.35	42.04	<0.1	0.63	1.57	<50	R	13.06	20.71	0.98	<0.1	<0.5	<0.5	<0.1	<1
L&D 52	938.9	16-Sep-08	<0.1	4.31	1.2	52.54	42.99	<0.1	1.74	1.53	<50	<1.5	16.92	9.83	1.44	<0.1	<0.5	1.07	<0.1	<1
L&D 52	938.9	17-Nov-08	<0.1	1.97	1.01	42.99	39.57	<0.1	1.65	1.3	<50	R	14.22	4.54	1.48	<0.1	<0.5	0.77	<0.1	<1
L&D 52	938.9	02-Feb-09	<0.1	4.97	0.37	28.21	32.68	<0.1	1.09	1.21	<50	1.87	9.14	4.12	1.11	<0.1	<0.5	<0.5	<0.1	1.85
L&D 52	938.9	11-Mar-09	<0.1	4.36	0.59	33.05	40.27	<0.1	0.64	1.33	<50	<1.5	11.11	19.31	1.26	<0.1	<0.5	0.57	<0.1	<1
L&D 52	938.9	19-May-09	<0.1	3.31	0.86	32.75	33.12	<0.1	0.4	1.62	<50	<1.5	9.49	0.71	1.35	<0.1	<0.5	<0.5	<0.1	1.03
L&D 52	938.9	21-Jul-09	<0.1	7.1	0.8	43.74	43.24	<0.1	0.29	1.33	<50	<1.5	14.29	0.89	0.91	<0.1	<0.5	<0.5	<0.1	<1
L&D 52	938.9	16-Sep-09	<0.1	2.18	1	31.51	29.91	<0.1	0.92	1.1	<50	<1.5	9.7	0.21	1.29	<0.1	<0.5	<0.5	<0.1	<1
L&D 52	938.9	03-Nov-09	<0.1	2.84	0.8	36.35	45.8	<0.1	0.51	2.24	<50	<1.5	12.92	1.02	1.4	<0.1	<0.5	0.57	<0.1	<1
L&D 52	938.9	12-Jan-10	<0.1	3.6	0.48	33.54	45.43	<0.1	3.52	1.16	<50	<1.5	14.41	48.84	1.92	<0.1	<0.5	<0.5	<0.1	<1
L&D 52	938.9	25-Mar-10	<0.1	6.36	0.7	38.51	36.74	<0.1	0.19	1.68	<50	<1.5	10.82	2.5	2.23	<0.1	<0.5	0.56	<0.1	1.31
L&D 52	938.9	12-May-10	<0.1	17.37	0.54	43.64	40.07	<0.1	1.19	1.35	<50	<1.5	11.45	6.24	2.47	<0.1	<0.5	0.64	<0.1	2.26
L&D 52	938.9	14-Jul-10	<0.1	4.27	1.42	44.39	45.18	<0.1	1	1.57	<50	<1.5	13.46	12.57	1.1	<0.1	<0.5	0.57	<0.1	<1
L&D 52	938.9	08-Sep-10	<0.1	5.99	1.27	41.66	35.84	<0.1	0.74	1.36	<50	<1.5	11.26	0.44	1.71	<0.1	<0.5	0.78	<0.1	<1
L&D 52	938.9	03-Nov-10	<0.1	3.16	1.12	40.98	34.97	<0.1	0.32	1.19	<50	<1.5	12.13	1.09	1.96	<0.1	<0.5	1	<0.1	<1
L&D 52	938.9	27-Jan-11	<0.1	4.83	0.51	39.1	39.48	<0.1	1.9	1.36	<50	<1.5	11.98	17.77	2.42	<0.1	<0.5	0.62	<0.1	1.32
L&D 52	938.9	16-Mar-11	<0.1	5.58	0.74	35.7	33.42	<0.1	0.73	1.84	<50	1.85	8.61	7.88	2.24	<0.1	<0.5	<0.5	<0.1	2.05
L&D 52	938.9	23-May-11	<0.1	6.04	1.4	39.17	45.07	<0.1	1.35	1.59	<50	<1.5	11.96	260.46	3.43	<0.1	<0.5	0.53	<0.1	1.42
L&D 52	938.9	13-Jul-11	<0.1	5.1	1.13	34.62	33.92	<0.1	1.14	1.6	<50	<1.5	9.56	21.67	1.91	<0.1	<0.5	0.51	<0.1	<1
L&D 52	938.9	28-Sep-11	<0.1	5.43	0.88	52.34	45.15	<0.1	3.06	1.81	<50	<1.5	15.94	2	2.56	<0.1	<0.5	0.76	<0.1	1.84
L&D 52	938.9	17-Nov-11	<0.1	5.36	0.82	41.68	39.68	<0.1	0.77	1.83	<50	<1.5	11.86	12.85	2.5	<0.1	<0.5	0.65	<0.1	2.71
L&D 52	938.9	10-Jan-12	<0.1	5.71	0.73	32.15	38.67	<0.1	1.12	1.6	<50	<1.5	11.38	34.81	2.42	<0.1	<0.5	0.61	<0.1	9.17
L&D 52	938.9	13-Mar-12	<0.1	7.04	0.39	30.83	34.87	<0.1	R	1.52	<50	<1.5	10.21	2.66	0.97	<0.1	<0.5	<0.5	<0.1	1.41
L&D 52	938.9	30-May-12	<0.1	2.96	0.69	34.65	36.17	<0.1	0.54	1.52	<50	<1.5	10.62	0.3	1.06	<0.1	<0.5	<0.5	<0.1	1.11
L&D 52	938.9	11-Jul-12	<0.1	5.5	1.09	31.6	27.69	<0.1	<0.1	0.8	<50	<1.5	9.28	0.21	0.51	<0.1	<0.5	<0.5	<0.1	4.29
L&D 52	938.9	12-Sep-12	<0.1	4.79	1.08	46.03	36.52	<0.1	0.25	1.73	<50	<1.5	12.8	0.94	1.8	<0.1	<0.5	0.93	<0.1	1.07
L&D 52	938.9	15-Nov-12	<0.1	2.15	0.88	57.83	45.58	<0.1	0.68	1.85	<50	<1.5	15.84	3.21	2.16	<0.1	<0.5	0.94	<0.1	1.41
L&D 52	938.9	30-Jan-13	<0.1	6.99	0.73	32.66	32.18	<0.1	0.2	1.72	<50	1.61	8.8	26.6	1.46	<0.1	<0.5	<0.5	<0.1	5.06

Appendix C: Dissolved Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
L&D 52	938.9	27-Mar-13	<0.1	5.01	0.53	27	29.77	<0.1	0.36	1.31	<50		8.32	7.02	1.24	<0.1	<0.5	0.5	<0.1	<1
L&D 52	938.9	08-May-13	<0.1	3.41	0.93	38.01	40.92	<0.1	0.61	1.82	<50	<1.5	11.66	3.53	1.41	<0.1	<0.5	0.54	<0.1	1.21

Appendix C: Total Recoverable Metals Results 2014 305b July 2008 through June 2013																				
SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
New Cumberland	54.4	16-Jul-08	<0.1	167.61	0.62	45.67	33.19	<0.1	1.57	5.22	383.45	<1.5	8.47	55.11	2.21	0.71	<0.5	0.67	<0.1	4.89
New Cumberland	54.4	24-Sep-08	<0.1	73.39	0.75	51.28	37.82	<0.1	2.26	8.72	125.79	<1.5	10.64	31.79	2.24	0.18	<0.5	0.8	<0.1	4.04
New Cumberland	54.4	12-Nov-08	<0.1	303.89	1.01	56.57	39.59	<0.1	1.29	4.82	212.55	2.22	10.28	47.92	2.83	0.43	<0.5	1.21	<0.1	8.7
New Cumberland	54.4	09-Feb-09	<0.1	629.78	0.55	51.8	34.01	<0.1	1.34	3.46	1395.06	6.19	8.95	222.01	5.21	1.52	<0.5	<0.5	<0.1	13.68
New Cumberland	54.4	16-Mar-09	<0.1	697.44	0.91	39.48	17.35	<0.1	1.31	2.59	1252.7	3.83	4.59	117.52	3.55	1.25	<0.5	<0.5	<0.1	9.39
New Cumberland	54.4	18-May-09	<0.1	141.17	0.54	43.6	25.47	<0.1	1.94	3.47	347.27	1.86	6.82	99.65	2.73	0.54	<0.5	0.53	0.11	5.97
New Cumberland	54.4	15-Jul-09	<0.1	126.39	0.47	52.88	27.53	<0.1	1.07	4.15	215	<1.5	7.63	39.99	1.85	0.4	<0.5	<0.5	<0.1	3.81
New Cumberland	54.4	08-Sep-09	<0.1	87.92	0.81	52.16	27.24	<0.1	0.45	4.42	146.82	<1.5	7.07	44.14	2.11	0.36	<0.5	0.55	<0.1	5.01
New Cumberland	54.4	16-Nov-09	<0.1	65.46	0.41	45.95	27.01	<0.1	0.89	2.5	205.39	1.63	6.72	51.74	1.59	0.26	<0.5	<0.5	<0.1	2.98
New Cumberland	54.4	18-Jan-10	<0.1	115.71	0.35	52.28	34.77	<0.1	0.92	1.81	386.4	1.98	9.39	134.62	3.66	0.32	<0.5	0.58	<0.1	6.52
New Cumberland	54.4	17-Mar-10	<0.1	562.88	0.66	43.7	19.76	<0.1	1.61	2.15	1259.66	5.11	5.28	174.73	3.99	1.46	<0.5	<0.5	<0.1	10.76
New Cumberland	54.4	12-May-10	<0.1	146.79	0.48	45.25	29.88	<0.1	1.15	2.98	301.58	1.82	7.72	73.82	3.18	0.48	<0.5	0.75	<0.1	3.92
New Cumberland	54.4	20-Jul-10	<0.1	78.47	0.65	70.81	44.71	<0.1	1.33	5.77	151.2	<1.5	12.17	67.84	2.11	0.38	<0.5	0.93	0.14	4.97
New Cumberland	54.4	23-Sep-10	<0.1	98	0.89	91.84	42.95	<0.1	1.37	7.24	189.16	<1.5	11.48	51.1	2.96	0.36	<0.5	1.56	<0.1	6.17
New Cumberland	54.4	02-Nov-10	<0.1	73.09	0.52	57.15	38.1	<0.1	1.55	5.12	151.87	<1.5	10.26	25.57	3.01	0.39	<0.5	1.15	<0.1	5.01
New Cumberland	54.4	18-Jan-11	<0.1	157.64	0.23	52.19	25.89	<0.1	1.68	2.43	398.05	1.74	6.76	93.29	3.24	0.32	<0.5	0.67	<0.1	6.4
New Cumberland	54.4	21-Mar-11	<0.1	511.66	0.43	44.3	23.06	0.11	1.08	2.39	1092.29	3.15	6.46	193.3	5.53	1.17	<0.5	0.56	<0.1	10.93
New Cumberland	54.4	26-May-11	<0.1	259.67	0.74	40.09	26.37	<0.1	0.84	2.72	553.91	2.34	7.54	80.88	3.93	0.77	<0.5	0.57	<0.1	5.19
New Cumberland	54.4	21-Jul-11	<0.1	75.91	1.79	54.16	41.9	<0.1	1.63	7.1	113.95	<1.5	11.8	26.43	3.01	0.3	<0.5	0.94	<0.1	4.77
New Cumberland	54.4	08-Sep-11	<0.1	568	0.8	55.19	38.8	<0.1	1.63	4.51	1138.09	7.12	10.7	119	3.82	2.19	<0.5	<0.5	<0.1	13.2
New Cumberland	54.4	16-Nov-11	<0.1	191	0.9	40.66	30.24	<0.1	1	2.7	470.13	1.63	8.5	95.9	4.11	0.64	<0.5	0.69	<0.1	5.84
New Cumberland	54.4	09-Jan-12	<0.1	210	0.7	35.24	25.84	<0.1	0.96	1.51	469.54	<1.5	7.21	112	4.05	0.29	<0.5	<0.5	<0.1	6.45
New Cumberland	54.4	08-Mar-12	<0.1	592	0.77	36.9	21.2	<0.1	0.97	2.02	1090	4.29	5.87	117	3.54	0.99	<0.5	<0.5	<0.1	10.58
New Cumberland	54.4	15-May-12	<0.1	399	0.56	37.16	21.5	<0.1	1.37	3.77	553.4	2.1	6.17	62.4	2.86	0.73	<0.5	<0.5	<0.1	6.7
New Cumberland	54.4	23-Jul-12	<0.1	150.75	0.95	50.83	34.67	<0.1	<0.1	6.24	235.68	<1.5	10.61	57.63	2.75	0.53	<0.5	1.05	<0.1	5.87
New Cumberland	54.4	19-Sep-12	<0.1	123.09	0.82	50.41	35.09	<0.1	0.42	2.49	218.47	<1.5	10	45.38	2.42	0.5	<0.5	1.35	<0.1	5.07
New Cumberland	54.4	20-Nov-12	<0.1	107.24	0.49	34.41	23.93	<0.1	0.29	2.57	264.1	<1.5	6.02	77.25	3.06	0.32	<0.5	0.57	<0.1	5.29
New Cumberland	54.4	09-Jan-13	<0.1	164	0.81	36.38	29.56	<0.1	0.56	2.4	380.98	<1.5	7.78	110	3.77	0.37	<0.5	0.58	<0.1	6.79
New Cumberland	54.4	20-Mar-13	<0.1	268	0.73	34.6	25.47	<0.1	0.51	1.6	537.13	1.53	6.6	95.7	3.61	0.63	<0.5	0.63	<0.1	7.85
New Cumberland	54.4	14-May-13	<0.1	93.8	0.21	38.45	29.27	<0.1	0.6	3.35	224.19	<1.5	8.43	48.7	2.39	0.38	<0.5	0.63	<0.1	5.84
Pike Island	84.2	16-Jul-08	<0.1	127.2	0.66	48.21	41.29	<0.1	1.66	3.12	259.99	<1.5	11.06	40.1	2.1	0.47	<0.5	1.05	<0.1	2.9
Pike Island	84.2	24-Sep-08	<0.1	60.13	1.34	51.32	41.07	<0.1	2.57	3.41	83.03	<1.5	11.71	26.95	2.21	0.11	<0.5	1.8	<0.1	2.5
Pike Island	84.2	12-Nov-08	<0.1	62.05	0.56	58.3	40.44	<0.1	1.32	3.32	147.21	<1.5	11.06	51.39	2.76	0.12	<0.5	1.23	<0.1	4.05
Pike Island	84.2	09-Feb-09	<0.1	700.15	0.54	52.2	35.08	<0.1	1.61	2.99	1450.72	7.64	9.24	228.35	6.63	1.66	<0.5	<0.5	<0.1	19.37
Pike Island	84.2	16-Mar-09	<0.1	778.22	1.03	39.58	16.96	<0.1	1.5	2.14	1431.59	4.98	4.52	137.78	4.09	1.48	<0.5	<0.5	<0.1	11.54
Pike Island	84.2	18-May-09	<0.1	125.8	0.62	41.57	24.87	<0.1	1.23	1.85	299.4	3.45	6.63	81.28	2.51	0.45	<0.5	0.57	<0.1	5.45
Pike Island	84.2	15-Jul-09	<0.1	99.56	0.78	52.48	28.65	<0.1	1.17	2.65	181.8	2.75	7.85	36.73	1.87	0.39	<0.5	0.59	<0.1	1.94
Pike Island	84.2	08-Sep-09	<0.1	63.95	1.32	68.05	32.11	<0.1	0.86	2.69	107.67	1.51	8.53	46.82	2.09	0.27	<0.5	0.71	<0.1	2.32
Pike Island	84.2	16-Nov-09	<0.1	107.56	0.58	43.35	27.16	<0.1	0.92	1.85	298.43	<1.5	6.84	56.58	1.87	0.41	<0.5	0.52	<0.1	2.87
Pike Island	84.2	18-Jan-10	<0.1	456.98	0.59	56.46	31.98	<0.1	1.48	2.45	1029.16	4.75	8.01	187.12	4.4	1.24	<0.5	0.65	<0.1	10.03
Pike Island	84.2	17-Mar-10	<0.1	1660.2	1.15	61.12	32.66	0.15	4.37	5.09	3296.61	10.04	10.21	321.94	7.66	4.72	<0.5	<0.5	0.1	23.65
Pike Island	84.2	12-May-10	<0.1	157.22	0.43	47.15	32.96	<0.1	1.04	2.07	331.78	<1.5	8.56	61.4	3.26	0.59	<0.5	0.64	<0.1	4.34
Pike Island	84.2	20-Jul-10	<0.1	74.69	0.84	67.25	49.24	<0.1	1.23	3.46	157.65	9.33	14.08	37.64	2.12	0.39	<0.5	1.04	0.14	2.78
Pike Island	84.2	23-Sep-10	<0.1	136.02	1.02	89.36	44.31	<0.1	1.66	3.83	261.91	4.01	12.31	57.8	3.2	0.5	<0.5	1.81	<0.1	2.57
Pike Island	84.2	02-Nov-10	<0.1	100.97	0.66	61.42	41.3	<0.1	2.06	3.27	191.86	2.02	10.94	34.93	3.18	0.62	<0.5	1.23	0.11	4.19
Pike Island	84.2	18-Jan-11	<0.1	234.66	0.24	48.42	25.6	<0.1	2.06	1.93	526.66	1.63	6.6	111.29	3.7	0.48	<0.5	0.7	<0.1	7.07
Pike Island	84.2	21-Mar-11	<0.1	580.64	0.37	46.97	24.55	0.13	1.19	2.05	1269.99	3.64	6.54	219.11	5.8	1.44	<0.5	0.54	<0.1	10.85
Pike Island	84.2	26-May-11	<0.1	355.38	0.98	43.1	26.22	<0.1	0.96	2.44	780.55	3.15	7.03	103.31	4.44	1.18	<0.5	0.67	<0.1	8.4
Pike Island	84.2	21-Jul-11	<0.1	74.94	2.22	56.85	42.38	<0.1	1.72	3.9	97.4	<1.5	12.34	24.32	3.03	0.26	<0.5	1.27	<0.1	6.4
Pike Island	84.2	08-Sep-11	<0.1	591	1.06	55.61	38.13	<0.1	1.83	4.18	1182.64	8.01	10.52	153	4.5	2.56	<0.5	0.75	<0.1	19.12

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Pike Island	84.2	16-Nov-11	<0.1	388	0.95	43.99	30.93	<0.1	1.42	2.57	947.51	3.57	8.08	138	4.98	1.34	<0.5	0.77	<0.1	9.4
Pike Island	84.2	09-Jan-12	<0.1	307	0.73	37.15	27.07	<0.1	1.16	1.64	669	2.68	7.27	124	4.38	0.58	<0.5	0.57	<0.1	9.32
Pike Island	84.2	08-Mar-12	<0.1	572	0.79	35.47	21.45	<0.1	1.34	1.76	1020	4.71	5.44	101	3.39	0.92	<0.5	<0.5	<0.1	8.53
Pike Island	84.2	15-May-12	<0.1	312	0.56	36.18	21.82	<0.1	1.1	1.75	394.28	2.29	5.89	42.4	2.3	0.5	<0.5	0.56	<0.1	3.7
Pike Island	84.2	23-Jul-12	<0.1	130.43	1.17	48.54	36.64	<0.1	0.45	3.53	165.89	<1.5	11.04	35.63	2.56	0.3	<0.5	1.05	<0.1	3.82
Pike Island	84.2	19-Sep-12	<0.1	128.1	1.11	48.66	35.55	<0.1	0.54	3.22	219.75	<1.5	10.6	44.09	2.74	0.52	<0.5	1.49	<0.1	4.17
Pike Island	84.2	20-Nov-12	<0.1	100.59	0.49	34.38	25.52	<0.1	0.11	1.92	268.91	<1.5	6.45	65.46	2.97	0.37	<0.5	0.57	<0.1	5
Pike Island	84.2	09-Jan-13	<0.1	142	0.81	35.81	30.77	<0.1	<0.1	1.75	319.2	<1.5	7.81	92.5	3.19	0.25	<0.5	0.55	<0.1	5.94
Pike Island	84.2	20-Mar-13	<0.1	368	0.76	36.58	24.01	<0.1	0.69	1.72	761.22	2.42	6.14	118	4.48	0.8	<0.5	0.51	<0.1	9.54
Pike Island	84.2	14-May-13	<0.1	92.7	0.45	41.56	34.46	<0.1	0.55	1.76	204.52	<1.5	9.73	42.3	2.26	0.35	<0.5	0.66	<0.1	3.27
Hannibal	126.4	17-Jul-08	<0.1	79.77	0.45	48.84	38.52	<0.1	1.56	2.56	155.31	<1.5	10.29	27.1	1.75	0.32	<0.5	0.63	<0.1	2.26
Hannibal	126.4	17-Sep-08	<0.1	131.86	1.13	51.83	39.39	<0.1	3.28	3.9	237.92	<1.5	11.85	59.53	2.62	0.3	<0.5	1.42	<0.1	3.53
Hannibal	126.4	19-Nov-08	<0.1	110.52	0.92	58.81	40.73	<0.1	1.12	3.4	225.35	<1.5	10.97	40.51	3.1	0.35	<0.5	1.25	<0.1	3.89
Hannibal	126.4	10-Feb-09	<0.1	346.29	0.44	46.92	36.39	<0.1	1.33	1.94	709.99	4.4	9.39	173.62	4.98	0.95	<0.5	<0.5	<0.1	11.16
Hannibal	126.4	10-Mar-09	<0.1	1530.3	1.59	58.61	26.42	0.17	2.99	4.77	3334.75	2.9	7.21	370.92	9.41	4.15	<0.5	0.72	<0.1	36.58
Hannibal	126.4	19-May-09	<0.1	184.57	0.58	42.14	27.83	<0.1	1.56	1.67	380.84	3.33	7.29	68.32	2.14	0.54	<0.5	<0.5	<0.1	3.95
Hannibal	126.4	22-Jul-09	<0.1	97.87	0.54	55.9	30.39	<0.1	0.89	2.64	168	<1.5	8.17	28.83	1.51	0.17	<0.5	0.63	<0.1	2
Hannibal	126.4	15-Sep-09	<0.1	72.27	1.06	60.82	32.86	<0.1	0.48	2.62	130.98	<1.5	8.7	57.41	2.04	0.17	<0.5	0.99	<0.1	1.99
Hannibal	126.4	12-Nov-09	<0.1	143.32	0.61	44.86	29.01	<0.1	0.95	1.9	349.39	2.91	7.57	42.68	2.21	0.41	<0.5	0.58	<0.1	3.25
Hannibal	126.4	20-Jan-10	<0.1	587.92	0.41	39.36	24.14	<0.1	1.39	1.85	1073.88	4.18	8.65	86.54	2.68	1.09	<0.5	0.56	<0.1	5.97
Hannibal	126.4	18-Mar-10	<0.1	594.08	0.73	43.21	21.01	0.18	1.47	2.53	1353.32	5.32	5.41	186.23	5.17	1.92	<0.5	0.52	<0.1	12.63
Hannibal	126.4	19-May-10	<0.1	1115.3	0.76	61.57	27.85	0.11	1.8	3.2	1748.4	3.65	7.61	114.72	4.73	1.59	<0.5	0.77	<0.1	9.56
Hannibal	126.4	21-Jul-10	<0.1	91.99	0.69	66.79	40.72	<0.1	1.46	3.09	155.38	<1.5	11.61	35.69	2.16	0.26	<0.5	1.27	<0.1	1.85
Hannibal	126.4	14-Sep-10	<0.1	92.62	0.83	75	41.08	<0.1	1.43	3.56	150.77	<1.5	11.86	32.04	2.97	0.21	<0.5	1.5	<0.1	2.23
Hannibal	126.4	08-Nov-10	<0.1	102.05	0.79	62	42.24	0.11	1.64	3.3	220.74	1.8	11.17	35.41	3.3	0.41	<0.5	1.48	<0.1	4.48
Hannibal	126.4	25-Jan-11	<0.1	154.08	0.12	53.99	29.68	<0.1	1.91	1.92	432.16	1.91	7.57	101.22	3.41	0.43	<0.5	0.89	<0.1	6.04
Hannibal	126.4	29-Mar-11	<0.1	466.03	<0.1	41.53	25.84	<0.1	1.37	1.99	940.47	3.94	7.03	157.64	4.81	0.87	<0.5	0.55	<0.1	10.85
Hannibal	126.4	24-May-11	<0.1	441.16	0.8	42.99	28.14	0.16	0.99	2.56	938.62	3.02	7.69	88.83	4.42	1.24	<0.5	0.52	<0.1	8.25
Hannibal	126.4	19-Jul-11	<0.1	74.59	1.85	55.49	42.85	<0.1	1.76	2.93	106.35	<1.5	12.62	24.06	2.77	0.24	<0.5	1.08	<0.1	2.35
Hannibal	126.4	14-Sep-11	<0.1	145	0.53	42.64	33.02	<0.1	0.56	2.6	273.84	1.57	8.28	31.74	2.2	0.35	<0.5	0.5	<0.1	6.07
Hannibal	126.4	09-Nov-11	<0.1	153	0.59	38.2	29.03	<0.1	0.69	1.62	346.14	13.63	7.61	53.3	3.17	0.4	<0.5	0.59	<0.1	4.04
Hannibal	126.4	10-Jan-12	<0.1	190	0.7	35.25	27.91	<0.1	1.06	1.37	409.34	<1.5	7.71	84.08	3.76	0.28	<0.5	0.53	<0.1	6
Hannibal	126.4	12-Mar-12	<0.1	447	0.76	35.76	26.83	<0.1	1.22	2.14	737.47	2.74	7.01	75.3	3.16	0.9	<0.5	0.51	<0.1	8
Hannibal	126.4	16-May-12	<0.1	466	0.65	36.84	23.58	<0.1	1.38	2.02	477.39	1.9	6.46	49.4	2.51	0.61	<0.5	<0.5	<0.1	4.47
Hannibal	126.4	24-Jul-12	<0.1	121.04	0.98	48.84	36.3	<0.1	0.63	2.76	126.87	<1.5	10.95	23.31	2.77	0.17	<0.5	1.17	<0.1	5.56
Hannibal	126.4	27-Sep-12	<0.1	161.8	0.99	49.54	38.41	<0.1	0.32	2.89	242.35	<1.5	11.3	61.07	2.64	0.44	<0.5	1.34	<0.1	4.17
Hannibal	126.4	19-Nov-12	<0.1	101.03	0.65	36.97	26.68	<0.1	0.15	1.83	288.31	<1.5	7.11	51.52	2.87	0.35	<0.5	0.64	<0.1	3
Hannibal	126.4	14-Jan-13	<0.1	562	1.12	43.88	34.99	0.11	0.74	3	1207.96	4.95	9.07	193	5.38	1.7	<0.5	0.81	<0.1	16.4
Hannibal	126.4	19-Mar-13	<0.1	226	0.39	37.32	29.47	0.27	0.67	1.67	532.86	2.71	7.58	98.6	4.61	0.76	<0.5	0.57	<0.1	6.52
Hannibal	126.4	21-May-13	<0.1	97.9	0.41	37.81	29.02	<0.1	<0.5	1.57	174.44	<1.5	8.47	53.9	2.23	0.24	<0.5	0.77	<0.1	2.72
Willow Island	161.8	17-Jul-08	<0.1	83.54	0.35	53.92	41.5	<0.1	1.58	2.19	147.08	<1.5	11.35	25.04	1.7	0.29	<0.5	0.73	<0.1	2.36
Willow Island	161.8	08-Sep-08	<0.1	83.85	0.78	50.63	33.17	<0.1	2.88	2.93	140.13	<1.5	10.02	30.22	2.06	<0.1	<0.5	0.8	<0.1	2.09
Willow Island	161.8	19-Nov-08	<0.1	163.29	0.91	58.96	41.44	<0.1	1.36	3.15	286.25	<1.5	11.79	40.97	3.04	0.4	<0.5	1.36	<0.1	3.75
Willow Island	161.8	10-Feb-09	<0.1	515.11	0.64	49.9	37.46	<0.1	1.28	2.31	1117.04	5.78	9.53	179.23	5.15	1.26	<0.5	<0.5	<0.1	11.69
Willow Island	161.8	10-Mar-09	<0.1	998.18	1.05	52.66	26.42	0.15	2.03	3.47	2067.91	5.53	7.29	282.72	6.99	2.47	<0.5	0.56	<0.1	20.96
Willow Island	161.8	19-May-09	<0.1	143.54	0.37	40.74	25.88	<0.1	1.23	1.5	329.91	2.12	6.67	59.44	2.15	0.49	<0.5	0.56	<0.1	5.56
Willow Island	161.8	22-Jul-09	<0.1	145.31	0.68	56.12	30.88	<0.1	0.98	2.56	232	5.77	8.67	44.31	2.21	0.3	<0.5	<0.5	<0.1	3.4
Willow Island	161.8	15-Sep-09	<0.1	116.21	1.03	50.09	26.52	<0.1	0.59	2.36	208.05	<1.5	7.03	53.94	1.98	0.33	<0.5	0.72	<0.1	1.99
Willow Island	161.8	12-Nov-09	<0.1	114.46	0.55	47.7	27.58	<0.1	0.61	1.74	255.13	9.38	7.04	34.05	2.12	0.39	<0.5	<0.5	<0.1	2.32
Willow Island	161.8	20-Jan-10	<0.1	517.65	0.55	52.37	35.41	<0.1	1.43	2.63	1206.6	5.95	9.25	160.19	4.48	1.26	<0.5	<0.5	<0.1	9.6
Willow Island	161.8	18-Mar-10	<0.1	769.81	0.75	47.4	21.4	0.13	2.03	3.22	1803.63	7.33	5.47	238.27	6.65	2.81	<0.5	<0.5	<0.1	17.96

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Willow Island	161.8	19-May-10	<0.1	728.77	0.73	54.19	28.29	<0.1	1.49	2.86	1268.19	4.06	7.29	109.73	4.33	1.44	<0.5	0.68	<0.1	8.71
Willow Island	161.8	27-Jul-10	<0.1	106.68	0.65	66.54	47.62	<0.1	0.79	2.65	182.78	<1.5	13.9	33.34	2.67	0.3	<0.5	1.19	<0.1	2.6
Willow Island	161.8	27-Sep-10	<0.1	136.03	0.95	84.5	45.73	<0.1	1.35	2.88	211.4	<1.5	13.49	36.15	3.29	0.27	<0.5	2.25	<0.1	3.19
Willow Island	161.8	08-Nov-10	<0.1	77.75	0.54	69.66	42.18	<0.1	1.76	2.92	157.79	<1.5	11.95	22.53	2.99	0.28	<0.5	1.38	<0.1	2.31
Willow Island	161.8	25-Jan-11	<0.1	131.24	0.14	48.7	27.88	<0.1	1.72	1.69	366.71	1.89	7.29	97.41	3.4	0.39	<0.5	0.56	<0.1	5.06
Willow Island	161.8	22-Mar-11	<0.1	707.09	0.44	46.53	24.59	0.12	1.43	2.54	1538.75	5.26	6.64	217.34	5.81	1.82	<0.5	0.55	<0.1	13.35
Willow Island	161.8	24-May-11	<0.1	484.17	1.03	43.69	28.33	<0.1	1.15	2.65	1047.45	3.39	7.67	91.33	4.7	1.32	<0.5	<0.5	<0.1	8.58
Willow Island	161.8	19-Jul-11	<0.1	52.84	1.52	56.5	42.54	<0.1	1.47	2.48	74.4	<1.5	12.62	19.74	2.46	0.16	<0.5	0.93	<0.1	1.96
Willow Island	161.8	14-Sep-11	<0.1	197	0.72	48.9	37.81	<0.1	0.9	2.48	323.94	1.93	10.07	37.53	2.47	0.5	<0.5	0.72	<0.1	5.33
Willow Island	161.8	09-Nov-11	<0.1	188	0.76	38.51	28.67	<0.1	1.09	1.93	414.05	2.24	7.55	48.2	3.26	0.53	<0.5	0.84	<0.1	6.35
Willow Island	161.8	10-Jan-12	<0.1	184	0.7	34.78	27.43	<0.1	1.04	1.16	389.11	<1.5	7.53	69.11	3.35	0.25	<0.5	0.54	<0.1	3.98
Willow Island	161.8	12-Mar-12	<0.1	467	0.72	34.92	24.62	<0.1	1.21	1.81	785.32	3.27	6.55	77.9	3.06	0.82	<0.5	0.57	<0.1	8.84
Willow Island	161.8	16-May-12	<0.1	439	0.68	36.69	23.56	<0.1	1.64	2.15	505.31	1.95	6.23	42.6	2.46	0.69	<0.5	<0.5	<0.1	4.72
Willow Island	161.8	24-Jul-12	<0.1	59.61	0.81	47.72	34.66	<0.1	0.19	2.44	72.27	<1.5	10.77	22.48	2.02	0.13	<0.5	1.26	<0.1	2.04
Willow Island	161.8	27-Sep-12	<0.1	155.52	1.1	49.97	36.68	<0.1	0.31	2.82	230.13	<1.5	11.11	40.06	2.39	0.4	<0.5	1.4	<0.1	4.07
Willow Island	161.8	19-Nov-12	<0.1	126.84	0.61	34.97	25.42	<0.1	0.2	1.92	337.49	1.62	6.46	48.49	2.89	0.5	<0.5	0.57	<0.1	3.59
Willow Island	161.8	14-Jan-13	<0.1	423	0.86	40.74	33.03	<0.1	1.7	2.11	896.5	3.01	8.57	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	39.31	29.78	<0.1	0.55	1.66	629.39	4.25	7.68	96	3.81	0.55	<0.5	0.53	<0.1	6.9
Willow Island	161.8	21-May-13	<0.1	88.1	0.36	39.59	30.6	<0.1	<0.5	1.66	164.26	<1.5	8.79	29.3	2	0.26	<0.5	<0.5	<0.1	2.98
Belleville	203.9	23-Jul-08	<0.1	104.45	0.61	50.23	44.81	<0.1	1.47	2.13	201.96	3.08	13.03	34.76	1.6	0.32	<0.5	0.73	<0.1	2.21
Belleville	203.9	08-Sep-08	<0.1	69.81	0.98	53.72	37.82	<0.1	2.46	2.39	85.74	<1.5	12.65	25.84	2.18	0.15	<0.5	1.65	<0.1	1.46
Belleville	203.9	13-Nov-08	<0.1	142.83	1.01	55.33	45.29	<0.1	1.32	2.68	225.25	<1.5	14.18	47.57	2.78	0.23	<0.5	1.39	<0.1	3.06
Belleville	203.9	22-Jan-09	<0.1	213.49	0.33	34.19	24.92	<0.1	1.32	1.34	475.81	2.41	8.18	68.76	2.4	0.53	<0.5	0.62	<0.1	5.74
Belleville	203.9	09-Mar-09	<0.1	639.41	0.9	43.48	31.11	<0.1	1.71	2.31	1210.24	10.82	8.67	173.82	4.36	1.23	<0.5	0.64	<0.1	9.45
Belleville	203.9	13-May-09	<0.1	466.28	0.59	43.46	30.06	<0.1	1.63	2.46	988.84	5.43	8.03	85.98	3.23	1.49	<0.5	0.51	<0.1	10.01
Belleville	203.9	13-Jul-09	<0.1	85.15	0.69	50.03	34.18	<0.1	1.41	2.01	127.8	2.61	9.92	33.56	1.43	0.22	<0.5	<0.5	<0.1	1.91
Belleville	203.9	09-Sep-09	<0.1	111.31	1.06	48.28	30.57	<0.1	0.87	2.32	174.15	<1.5	8.68	55.76	2.27	0.38	0.76	<0.5	<0.1	3.05
Belleville	203.9	09-Nov-09	<0.1	136.87	0.71	50.35	39.1	<0.1	0.82	1.92	294.28	<1.5	10.94	34.17	2.39	0.33	<0.5	0.64	<0.1	2.44
Belleville	203.9	19-Jan-10	<0.1	1148.7	0.8	56.3	36.34	<0.1	2.03	3.14	2190.99	6.79	9.96	234.95	4.95	1.97	<0.5	<0.5	<0.1	14.47
Belleville	203.9	24-Mar-10	<0.1	995.02	0.96	48.21	27.74	<0.1	2.16	3.24	1951.87	7.49	7.75	205.46	5.45	2.32	<0.5	<0.5	<0.1	13.51
Belleville	203.9	13-May-10	<0.1	373.35	0.52	50.87	41.96	<0.1	1.39	2.13	624.92	2.22	11.86	76.86	3.19	0.74	<0.5	0.73	<0.1	4.81
Belleville	203.9	22-Jul-10	<0.1	164.01	0.82	56.74	40.31	<0.1	1.22	2.4	269.81	1.73	12.28	44.97	1.77	0.44	<0.5	0.85	0.12	2.36
Belleville	203.9	29-Sep-10	<0.1	250.9	1.02	72.2	44.21	<0.1	1.49	2.62	338.83	<1.5	14.96	51.85	3.22	0.23	<0.5	1.64	<0.1	3.07
Belleville	203.9	17-Nov-10	<0.1	51.7	0.5	62.54	45.48	<0.1	1.63	2.59	96.71	<1.5	12.92	23.93	3.11	0.2	<0.5	1.21	<0.1	2.58
Belleville	203.9	02-Feb-11	<0.1	268.64	0.22	55.59	36.46	<0.1	2.09	1.76	610.62	1.8	10.04	114.57	3.38	0.99	<0.5	0.83	<0.1	4.63
Belleville	203.9	28-Mar-11	<0.1	793.16	0.66	46.36	34.34	0.11	1.61	2.61	1624.35	7.01	9.5	195.99	4.97	1.75	<0.5	0.55	<0.1	10.89
Belleville	203.9	25-May-11	<0.1	977.53	1.09	47.69	35.68	0.14	1.6	3.48	1877	4.3	10.61	144.05	5.6	1.86	<0.5	0.55	<0.1	11.87
Belleville	203.9	26-Jul-11	<0.1	74.9	1.79	55.69	46.17	0.13	1.62	2.5	100.92	<1.5	15.26	36.59	2.87	0.19	<0.5	1.1	<0.1	3.5
Belleville	203.9	12-Sep-11	<0.1	312	1.04	53.12	41.52	<0.1	1.04	2.53	484.96	1.69	11.68	61.47	2.8	0.54	<0.5	0.79	<0.1	4.56
Belleville	203.9	14-Nov-11	<0.1	108	0.68	39.62	34.23	<0.1	0.78	1.52	250.61	4.66	9.6	49.9	2.95	0.25	<0.5	0.75	<0.1	2.41
Belleville	203.9	24-Jan-12	<0.1	1000	1.12	41.46	32.02	<0.1	1.87	2.36	1645.48	5.09	9.21	137	4.67	1.3	<0.5	0.5	<0.1	12.28
Belleville	203.9	14-Mar-12	<0.1	462	0.81	36.01	30.63	<0.1	1.3	2.25	801.03	3.46	8.67	63.2	2.73	0.77	<0.5	0.67	<0.1	5.73
Belleville	203.9	21-May-12	<0.1	306	0.71	40.21	27.67	<0.1	1.13	1.71	312.29	<1.5	8.18	57.6	1.92	0.36	<0.5	0.58	<0.1	4.33
Belleville	203.9	18-Jul-12	<0.1	22.02	0.75	50.17	35.67	<0.1	0.49	2.06	<50	<1.5	11.98	20.24	2.07	<0.1	<0.5	0.83	<0.1	1.11
Belleville	203.9	17-Sep-12	<0.1	48.65	0.77	49.47	34.94	<0.1	0.35	2.07	70.28	<1.5	11.83	24.46	2.95	0.11	<0.5	1.11	<0.1	2.27
Belleville	203.9	13-Nov-12	<0.1	190.25	0.8	34.19	27.48	<0.1	0.57	2.04	396.59	1.94	7.2	41.3	2.71	0.6	<0.5	0.66	<0.1	3.36
Belleville	203.9	17-Jan-13	<0.1	972	1.36	45.97	32.3	<0.1	1.32	3.37	1957.11	8.03	8.84	247	5.25	2.23	<0.5	0.71	<0.1	15.55
Belleville	203.9	27-Mar-13	<0.1	404	0.85	36.94	29.74	<0.1	0.71	1.62	639.09	1.63	7.98	66.9	2.73	0.7	<0.5	<0.5	<0.1	6.06
Belleville	203.9	16-May-13	<0.1	99.7	0.58	40.79	35.76	<0.1	<0.5	1.7	177.64	<1.5	10.59	35.8	1.78	0.29	<0.5	0.57	<0.1	5.97
R.C. Byrd	279.2	23-Jul-08	<0.1	397.07	0.58	53.21	36.02	<0.1	1.85	2.57	777.23	5.14	11.14	80	2.35	0.93	<0.5	0.64	<0.1	4.81
R.C. Byrd	279.2	17-Sep-08	<0.1	190.28	1.04	55.72	35.61	<0.1	2.27	2.66	321.98	<1.5	13.2	70.71	2.41	0.33	<0.5	0.96	<0.1	3

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
R.C. Byrd	279.2	13-Nov-08	<0.1	388.16	0.82	54.53	37.99	<0.1	1.65	2.63	532.25	<1.5	12.72	78.01	3.08	0.52	<0.5	1.11	<0.1	4.68
R.C. Byrd	279.2	22-Jan-09	<0.1	277.62	0.5	33.9	24.28	<0.1	1.46	1.53	534.39	2.12	7.03	100.59	2.52	0.65	<0.5	<0.5	<0.1	4.62
R.C. Byrd	279.2	09-Mar-09	<0.1	293.41	0.55	37.7	26.64	<0.1	1.27	1.51	537.26	1.61	7.88	98.8	2.75	0.58	<0.5	0.59	<0.1	5.41
R.C. Byrd	279.2	13-May-09	<0.1	411.39	0.47	38.04	14.95	<0.1	1.81	1.54	764.35	3.77	4.65	97.97	2.19	1.17	<0.5	<0.5	<0.1	5.8
R.C. Byrd	279.2	13-Jul-09	<0.1	287.33	0.72	52.03	31.1	<0.1	1.56	2.47	501	<1.5	9.46	87.59	2.08	0.66	<0.5	0.6	<0.1	3.12
R.C. Byrd	279.2	09-Sep-09	<0.1	108.09	0.99	49.81	30.47	<0.1	0.65	1.92	181.13	<1.5	9.82	44.19	1.66	0.27	<0.5	0.91	<0.1	3.18
R.C. Byrd	279.2	09-Nov-09	<0.1	381.78	0.62	49.02	35.02	<0.1	1.11	2.05	643.43	3.68	10.49	58.77	2.77	0.68	<0.5	<0.5	<0.1	4.08
R.C. Byrd	279.2	19-Jan-10	<0.1	343.3	0.69	56.21	36.19	<0.1	0.87	2.33	883.91	4.4	9.56	172.64	4.99	1.08	<0.5	0.61	<0.1	9.52
R.C. Byrd	279.2	24-Mar-10	<0.1	428.35	0.41	39.8	17.82	<0.1	1.33	1.78	910.34	4.08	6.19	97.71	3.13	1.38	<0.5	<0.5	<0.1	7.75
R.C. Byrd	279.2	12-May-10	<0.1	747.56	0.7	53.9	33.92	<0.1	1.56	2.35	1185.92	3.13	10.61	173.91	3.6	1.2	<0.5	0.78	<0.1	6.64
R.C. Byrd	279.2	22-Jul-10	<0.1	444.67	1.17	66.53	37.16	<0.1	1.52	2.32	930.81	2.53	12.87	222.18	2.91	1.09	<0.5	0.83	<0.1	5.65
R.C. Byrd	279.2	29-Sep-10	<0.1	213.08	0.88	65.71	37.55	<0.1	1.58	2.14	303.48	<1.5	13.34	37.75	2.71	0.32	<0.5	1.35	<0.1	2.7
R.C. Byrd	279.2	17-Nov-10	<0.1	291.99	0.59	62.45	39.77	<0.1	1.63	2.51	586.88	2.02	13.57	68.9	3.36	0.82	<0.5	1.18	<0.1	4.86
R.C. Byrd	279.2	02-Feb-11	<0.1	607.68	<0.1	45.71	23.87	<0.1	2.07	1.95	970.67	3.08	7.68	98.65	2.95	0.78	<0.5	0.83	<0.1	6.06
R.C. Byrd	279.2	28-Mar-11	<0.1	573.95	0.12	38.55	21.92	<0.1	1.39	1.77	1088.36	4.19	6.94	131.14	3.06	1.11	<0.5	<0.5	<0.1	6.36
R.C. Byrd	279.2	25-May-11	<0.1	513.1	0.52	41.02	26.03	0.12	0.97	2.28	972.31	2.55	7.75	100.1	3.32	1.07	<0.5	<0.5	<0.1	5.61
R.C. Byrd	279.2	26-Jul-11	<0.1	171.44	1.86	57.48	42.38	<0.1	1.75	2.54	319.23	<1.5	13.73	67.63	2.93	0.47	<0.5	0.91	<0.1	3.05
R.C. Byrd	279.2	12-Sep-11	<0.1	352	0.84	54.47	34.73	<0.1	0.81	1.97	556.29	2.03	11.45	87.48	2.5	0.57	<0.5	0.88	<0.1	4.01
R.C. Byrd	279.2	14-Nov-11	<0.1	619	1.06	44.58	29.41	<0.1	1.7	2.5	1210.19	3.84	8.76	115	3.74	1.32	<0.5	0.59	<0.1	7.28
R.C. Byrd	279.2	24-Jan-12	<0.1	795	0.95	36.05	19.57	<0.1	1.65	2.08	1332.21	3.72	6.72	142	3.44	1.32	<0.5	0.6	<0.1	8.35
R.C. Byrd	279.2	14-Mar-12	<0.1	534	0.68	36.95	22.32	<0.1	1.3	1.76	885	3.26	6.91	99.5	2.58	0.91	<0.5	<0.5	<0.1	6.32
R.C. Byrd	279.2	21-May-12	<0.1	729	0.62	40.2	20.95	<0.1	1.49	1.66	695.71	1.5	6.59	142	2.03	0.69	<0.5	<0.5	<0.1	4.46
R.C. Byrd	279.2	18-Jul-12	<0.1	109.6	0.78	52.57	29.81	<0.1	0.21	1.58	186.79	<1.5	11.9	80.89	1.71	0.27	<0.5	0.63	<0.1	2.16
R.C. Byrd	279.2	17-Sep-12	<0.1	169.37	0.83	53.22	33.95	<0.1	0.68	2.16	294.39	<1.5	13	60.16	2.62	0.39	<0.5	0.94	<0.1	2.79
R.C. Byrd	279.2	13-Nov-12	<0.1	231.06	0.71	37.32	26.33	<0.1	0.34	2.11	480.17	1.87	7.9	49.91	2.59	0.72	<0.5	0.72	<0.1	4.61
R.C. Byrd	279.2	17-Jan-13	<0.1	896	0.63	43.64	17.12	<0.1	1.18	2.67	1648.57	5.55	6.23	174	3.89	2.08	<0.5	0.5	<0.1	9.72
R.C. Byrd	279.2	27-Mar-13	<0.1	457	0.89	35.1	21.7	<0.1	0.84	1.64	753.07	2.13	6.42	126	2.64	0.8	<0.5	0.52	<0.1	5.24
R.C. Byrd	279.2	16-May-13	<0.1	269	0.58	38.39	24.25	<0.1	0.57	1.58	474.75	1.64	7.44	114	1.83	0.58	<0.5	<0.5	<0.1	4.2
Greenup	341	21-Jul-08	<0.1	105.31	0.27	47.07	32.97	<0.1	1.54	1.98	215.09	<1.5	10.23	27.56	1.47	0.37	<0.5	0.63	<0.1	2.59
Greenup	341	25-Sep-08	<0.1	197.14	0.55	58.36	37.08	<0.1	2.47	2.49	318.15	2.04	14.11	55.45	2.8	0.37	<0.5	0.97	<0.1	5.82
Greenup	341	15-Nov-08	<0.1	428.65	1.2	55.28	36.84	<0.1	1.58	3.42	651.18	1.87	12.88	86.12	3.65	1.28	<0.5	1.12	<0.1	14.99
Greenup	341	22-Jan-09	<0.1	306.64	0.51	35.66	31.31	<0.1	1.68	1.79	580.46	2.48	8.54	96.96	3.4	0.64	<0.5	0.59	<0.1	5.95
Greenup	341	09-Mar-09	<0.1	283.9	0.7	37.45	27.36	<0.1	1.28	1.4	551.78	1.76	9.34	71.35	2.64	0.48	<0.5	0.79	<0.1	4.12
Greenup	341	28-May-09	<0.1	311.82	0.59	43.86	27.4	<0.1	1.22	1.94	600.89	2.92	9.12	51.03	2.07	1.45	<0.5	<0.5	<0.1	9.2
Greenup	341	15-Jul-09	<0.1	353.75	0.55	50.8	32.75	<0.1	1.2	2.23	534	<1.5	11.22	34.95	2.2	0.48	<0.5	0.64	<0.1	9.26
Greenup	341	28-Sep-09	<0.1	172.24	0.87	54.23	32.33	<0.1	0.89	2.02	335.96	1.55	12.28	53.46	2.2	0.35	<0.5	0.89	<0.1	3.43
Greenup	341	09-Nov-09	<0.1	286.54	0.61	48.59	35.96	<0.1	0.83	1.7	439.96	<1.5	11.48	40.46	2.03	0.39	<0.5	<0.5	<0.1	2.69
Greenup	341	13-Jan-10	<0.1	110.32	0.3	36.12	29.54	<0.1	0.97	1.18	361.8	<1.5	10.28	62.79	2.88	0.45	<0.5	0.51	<0.1	3.69
Greenup	341	24-Mar-10	<0.1	654.94	0.61	44.06	22.18	<0.1	1.56	2.68	1513.12	6.52	7.18	160.96	4.2	2.19	<0.5	<0.5	<0.1	17.76
Greenup	341	19-May-10	<0.1	2432.5	1.34	66.95	29.38	0.12	3.54	5.59	4374.34	11.64	10.24	290.19	7.82	4.21	<0.5	0.76	<0.1	21.9
Greenup	341	29-Jul-10	<0.1	90.35	0.53	48.08	26.92	<0.1	1.42	1.99	141.66	<1.5	9.42	19.92	1.48	0.3	<0.5	0.76	<0.1	1.8
Greenup	341	27-Sep-10	<0.1	237.48	0.74	69.14	41.09	<0.1	1.48	1.92	332.46	<1.5	14.74	46.67	2.82	0.33	<0.5	1.24	<0.1	3.23
Greenup	341	18-Nov-10	<0.1	88.58	0.54	61.12	42.17	<0.1	1.63	2.08	189.5	<1.5	15	37.72	3.33	0.28	<0.5	1.13	<0.1	2.13
Greenup	341	10-Jan-11	<0.1	452.49	0.58	55.14	29.25	<0.1	2.3	2.11	977.05	3.45	9.4	109.7	3.56	1.05	<0.5	0.91	<0.1	8.84
Greenup	341	08-Mar-11	<0.1	2740.3	1.35	65.08	23.76	0.17	3.81	5.35	5315.24	13.38	7.8	402.46	8.5	5.28	<0.5	0.58	<0.1	27.38
Greenup	341	11-May-11	<0.1	4166.4	1.66	77.99	27.6	0.11	5.28	8.83	7575.65	16.51	10.46	375.38	11.48	7.51	<0.5	0.84	0.11	35.33
Greenup	341	27-Jul-11	<0.1	145.56	1.84	57.44	40.98	<0.1	1.63	2.55	259.98	<1.5	13.81	44.87	2.61	0.39	<0.5	0.79	<0.1	3.26
Greenup	341	15-Sep-11	<0.1	803	0.92	57.9	36.96	<0.1	1.49	2.57	1028.05	2.32	11.7	93.4	3	0.94	<0.5	0.71	<0.1	8.72
Greenup	341	08-Nov-11	<0.1	283	0.9	41.92	31.82	<0.1	1.09	1.93	551.79	11.53	10.44	54.7	2.88	0.61	<0.5	0.73	<0.1	5.63
Greenup	341	05-Jan-12	<0.1	672	1.2	39.04	27.51	<0.1	1.73	2.24	1333.85	4.61	9.41	121	3.95	1.4	<0.5	0.73	<0.1	11.59
Greenup	341	07-Mar-12	<0.1	1260	0.94	43.1	21.36	<0.1	1.81	3.15	2230.45	5.89	7.73	132	4.07	2.24	<0.5	0.55	<0.1	15.32

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Greenup	341	17-May-12	<0.1	1063	0.9	43.23	25.44	<0.1	2.03	2.61	1301.61	3.52	9.12	82.1	3.01	1.21	<0.5	0.54	<0.1	8.97
Greenup	341	09-Jul-12	<0.1	60.4	0.64	49.02	32.56	<0.1	0.52	1.69	61.99	<1.5	12.63	11.34	1.53	0.13	<0.5	0.85	<0.1	6.37
Greenup	341	24-Sep-12	<0.1	148.7	0.86	51.05	32.86	<0.1	0.18	2.06	218.91	<1.5	14.03	30.72	2	0.28	<0.5	1.13	<0.1	7.56
Greenup	341	08-Nov-12	<0.1	625.18	1.11	45.55	30.93	<0.1	1.27	3.42	1316.18	6.06	9.9	152.53	4.61	2.12	<0.5	0.76	<0.1	15.12
Greenup	341	07-Jan-13	<0.1	215	0.56	33.99	25.57	<0.1	0.54	1.34	438.28	<1.5	8.92	52.4	1.94	0.67	<0.5	0.55	<0.1	40.7
Greenup	341	27-Mar-13	<0.1	535	0.79	35.18	23.08	<0.1	0.94	1.81	1006.43	2.73	8.23	62.4	2.72	0.96	<0.5	0.57	<0.1	6.11
Greenup	341	30-May-13	<0.1	174	0.77	40.15	29.14	<0.1	<0.5	1.58	330.55	1.66	10.79	48.9	1.63	0.46	<0.5	<0.5	<0.1	3.15
Meldahl	436.2	21-Jul-08	<0.1	93.47	0.47	50.47	35.34	<0.1	1.75	1.97	183.83	<1.5	11.32	17.72	1.43	0.28	<0.5	0.64	<0.1	2.1
Meldahl	436.2	25-Sep-08	<0.1	123.71	0.5	57.8	38.3	<0.1	2.67	2.21	197.55	<1.5	14.21	30.87	2.21	0.16	<0.5	1.34	<0.1	2.8
Meldahl	436.2	15-Nov-08	<0.1	254.96	0.78	60.86	40.29	<0.1	1.13	2.77	374.18	<1.5	14.55	45.44	3.09	0.61	<0.5	1.21	<0.1	6.63
Meldahl	436.2	22-Jan-09	<0.1	296.1	0.52	34.61	25.54	<0.1	1.4	1.53	545.87	2.67	8.05	40.46	2.21	0.63	<0.5	0.54	<0.1	3.94
Meldahl	436.2	09-Mar-09	<0.1	231.88	0.51	38.48	30	<0.1	1.48	1.44	443.81	<1.5	9.68	39.86	2.43	0.43	<0.5	0.56	<0.1	3.4
Meldahl	436.2	28-May-09	<0.1	192.26	0.8	42.95	28.91	<0.1	1.28	1.61	358.56	1.87	9.62	40.51	1.66	0.48	<0.5	0.73	<0.1	3.24
Meldahl	436.2	29-Jul-09	<0.1	152.81	0.66	51.46	33.3	<0.1	0.98	2.3	243	<1.5	12.44	34.01	1.89	1.09	<0.5	1.36	<0.1	5.81
Meldahl	436.2	28-Sep-09	<0.1	526.08	0.95	53.9	35.16	<0.1	1.21	2.34	750.37	2.93	11.85	73.75	2.52	0.84	<0.5	0.67	<0.1	3.75
Meldahl	436.2	04-Nov-09	<0.1	663.57	0.95	59.35	40.26	<0.1	1.72	2.44	990.68	1.7	13.64	49.66	3.04	0.77	<0.5	0.72	<0.1	5.07
Meldahl	436.2	13-Jan-10	<0.1	111.14	0.4	36.29	33.93	<0.1	1.32	1.29	295.33	1.57	11.05	34.48	1.74	0.34	<0.5	0.69	<0.1	2.64
Meldahl	436.2	24-Mar-10	<0.1	737.02	0.73	46.28	26	<0.1	2.3	2.92	1526.24	5.14	8.33	139.08	4.92	2.17	<0.5	0.54	<0.1	14.59
Meldahl	436.2	19-May-10	<0.1	1414.2	1.18	55.05	31.37	0.1	2.28	3.56	2508.02		10.21	141.39	5.16	2.31	<0.5	0.66	<0.1	15.17
Meldahl	436.2	29-Jul-10	<0.1	787.27	1.07	53.26	31.54	<0.1	1.92	3.2	1328.23	4.53	10.11	71.04	3.37	1.5	<0.5	0.76	<0.1	5.85
Meldahl	436.2	27-Sep-10	<0.1	289.45	1.14	71.11	44.8	<0.1	2.91	2.2	398.14	<1.5	16.5	43.44	3.31	0.3	<0.5	1.53	<0.1	2.73
Meldahl	436.2	23-Nov-10	<0.1	150.97	0.74	60.4	41.42	<0.1	1.58	2.09	291.1	<1.5	15.28	30.47	3.21	0.44	<0.5	1.25	0.1	2.91
Meldahl	436.2	10-Jan-11	<0.1	1424.2	1.16	59.22	28.24	<0.1	3.12	3.6	2468.47	7.27	9.23	170.83	5.03	2.39	<0.5	0.64	<0.1	15.67
Meldahl	436.2	08-Mar-11	<0.1	3089.2	1.55	69.99	25.25	0.22	4.34	6.91	5983.9	17.6	7.78	477.95	10.37	6.65	<0.5	0.66	0.11	32.09
Meldahl	436.2	11-May-11	<0.1	996.21	0.95	47.83	34.01	<0.1	1.41	3.33	1823.24	5.28	10.87	125.12	5.16	1.92	<0.5	0.78	<0.1	11.11
Meldahl	436.2	27-Jul-11	<0.1	157.81	1.97	52.67	39.51	<0.1	1.74	2.43	260.23	<1.5	14.3	40.88	2.88	0.36	<0.5	1.16	<0.1	3.4
Meldahl	436.2	15-Sep-11	<0.1	218	0.72	54.85	39.47	<0.1	0.53	1.95	347.58	<1.5	13.43	36.03	2.2	0.33	<0.5	0.69	<0.1	4.27
Meldahl	436.2	08-Nov-11	<0.1	651	1.3	44.66	32.02	<0.1	1.61	2.83	1051.51	2.9	10.21	77.9	3.76	1.21	<0.5	0.78	<0.1	7.97
Meldahl	436.2	05-Jan-12	<0.1	626	1.24	38.49	30.23	<0.1	1.84	3.76	1103.77	3.36	9.73	82.92	3.55	1.1	<0.5	0.72	<0.1	9.25
Meldahl	436.2	07-Mar-12	<0.1	1550	1.29	48.84	24.94	<0.1	2.65	3.67	2670	9.2	8.01	171	4.81	2.91	<0.5	0.55	<0.1	18.09
Meldahl	436.2	17-May-12	<0.1	1085	0.87	45.13	30.58	<0.1	1.92	2.2	1026.01	2.44	10.07	48	2.73	0.88	<0.5	0.53	<0.1	7.06
Meldahl	436.2	09-Jul-12	<0.1	93.5	1	49.31	33.06	<0.1	0.14	1.89	83.25	<1.5	12.93	18.26	1.74	0.12	<0.5	0.85	<0.1	2.53
Meldahl	436.2	24-Sep-12	<0.1	154.37	1.13	59.15	40.65	<0.1	0.11	2.86	200.62	<1.5	15.97	33.77	2.9	0.25	<0.5	1.27	<0.1	5.85
Meldahl	436.2	08-Nov-12	<0.1	384.94	0.86	44.53	35.05	<0.1	0.61	3.21	731.58	3.56	10.39	62.55	2.94	1.17	<0.5	0.71	<0.1	8.22
Meldahl	436.2	07-Jan-13	<0.1	311	0.64	35.01	26.7	<0.1	0.68	1.56	674.23	<1.5	8.31	28.2	2.2	0.49	<0.5	0.6	<0.1	17.67
Meldahl	436.2	27-Mar-13	<0.1	706	0.88	38.63	28.21	<0.1	1.04	2.2	1198.87	3.04	9.12	70.3	3.04	1.21	<0.5	<0.5	<0.1	8.19
Meldahl	436.2	30-May-13	<0.1	191	1	40.21	27.5	<0.1	<0.5	1.84	313.06	<1.5	10.11	35.4	1.81	0.45	<0.5	1	<0.1	4.83
Anderson Ferry	477.5	17-Jul-08	<0.1	396.91	0.81	52.02	34.52	0.1	2.04	2.98	813.4	2.5	10.7	62.11	2.55	1.13	<0.5	0.67	<0.1	6.47
Anderson Ferry	477.5	23-Sep-08	<0.1	123.81	0.69	57.9	40.42	<0.1	3.16	2.43	211.77	<1.5	14.72	35.2	2.16	0.41	<0.5	1.66	<0.1	3.32
Anderson Ferry	477.5	19-Nov-08	<0.1	80.73	0.71	51.79	37.75	<0.1	1.14	2.61	136.4	13.04	13.8	16.27	2.77	0.14	<0.5	1.17	<0.1	3.37
Anderson Ferry	477.5	14-Jan-09	<0.1	1059.1	0.93	45.94	23.43	0.13	2.46	3.33	2095.43	8.83	7.37	185.46	4.71	2.52	<0.5	<0.5	<0.1	13.37
Anderson Ferry	477.5	09-Mar-09	<0.1	433.12	0.67	39.43	31.07	<0.1	0.94	1.84	680.84	1.98	9.85	60.29	2.51	0.82	<0.5	0.72	<0.1	5.99
Anderson Ferry	477.5	28-May-09	<0.1	374.67	0.65	44.78	30.33	<0.1	1.35	2.1	725.53	3.25	9.65	74.26	2.23	0.97	<0.5	0.61	<0.1	5.55
Anderson Ferry	477.5	29-Jul-09	<0.1	249.12	0.75	51.85	33.57	<0.1	0.84	2.63	408	2.76	11.83	48.42	1.94	0.8	<0.5	0.63	<0.1	7.05
Anderson Ferry	477.5	21-Sep-09	<0.1	434.6	1.11	63.69	42.59	<0.1	0.82	2.91	797.37	6.93	13.91	102.61	3.07	2.02	<0.5	0.73	<0.1	9.28
Anderson Ferry	477.5	03-Nov-09	<0.1	1129.7	1.15	55.42	40.96	<0.1	1.37	2.8	1621.26	3.51	13.72	80.62	3.11	1.5	<0.5	0.76	<0.1	7.27
Anderson Ferry	477.5	12-Jan-10	<0.1	1210.8	0.8	51.95	36.48	0.1	2.75	3.51	2424.11	8.48	12.19	267.07	4.86	2.89	<0.5	0.5	<0.1	15.75
Anderson Ferry	477.5	23-Mar-10	<0.1	982.43	1.05	49.64	27.4	0.12	2.68	3.81	2029.93	8.52	8.45	209.49	5.65	3.36	<0.5	<0.5	<0.1	16.18
Anderson Ferry	477.5	20-May-10	<0.1	1592.5	1.08	56.51	32.37	0.12	2.42	3.87	2609.54	6.4	10.37	152.03	5.33	2.46	<0.5	0.81	<0.1	17.56
Anderson Ferry	477.5	13-Jul-10	<0.1	163.11	0.89	51.65	40.86	<0.1	1.26	2.29	295.57	<1.5	13.74	41.23	2.12	0.47	<0.5	0.75	<0.1	2.49
Anderson Ferry	477.5	20-Sep-10	<0.1	197.13	0.95	70.14	43.07	<0.1	2.01	2.46	298.8	<1.5	13.63	31.56	3.62	0.26	<0.5	1.63	<0.1	2.62

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Anderson Ferry	477.5	19-Nov-10	<0.1	199.06	1.07	72.04	47.94	<0.1	1.58	2.58	322.59	<1.5	16.39	32.86	3.49	0.38	<0.5	1.74	<0.1	4.14
Anderson Ferry	477.5	18-Jan-11	<0.1	250.75	0.2	50.7	33.13	<0.1	1.73	1.91	495.27	<1.5	10.3	50.79	2.67	0.49	<0.5	0.81	<0.1	4.23
Anderson Ferry	477.5	08-Mar-11	<0.1	2827.5	1.55	64.37	29.47	0.17	3.59	5.67	5291.97	13.42	8.83	362.67	8.4	5.2	<0.5	0.65	<0.1	28.07
Anderson Ferry	477.5	24-May-11	<0.1	1344.5	1.3	44.97	35.9	<0.1	2.25	3.89	2345.33	6.05	9.63	164.55	5.37	2.46	<0.5	0.7	<0.1	14.61
Markland	531.5	21-Jul-08	<0.1	165.58	1.5	39.79	38.82	<0.1	2.13	2.06	371.7	2.24	10.72	64.89	1.73	0.49	<0.5	0.64	<0.1	3.58
Markland	531.5	24-Sep-08	<0.1	126.75	0.74	57.18	38.83	<0.1	1.99	2.21	186.31	<1.5	14.56	28.08	2.02	0.16	<0.5	0.99	<0.1	2.39
Markland	531.5	19-Nov-08	<0.1	396.97	1.14	66.42	44.64	<0.1	1.76	2.85	558.96	2.58	16.72	72.86	3.35	0.52	<0.5	1.17	<0.1	5.26
Markland	531.5	02-Feb-09	<0.1	981.64	0.81	42.12	27.67	<0.1	2.15	2.92	1909.82	6.64	8.82	102.99	4.1	2.12	<0.5	0.52	<0.1	12.76
Markland	531.5	09-Mar-09	<0.1	594.28	0.71	40.92	32.16	<0.1	1.7	1.95	949.92	1.95	9.98	57.86	2.94	0.92	<0.5	0.6	<0.1	6.46
Markland	531.5	28-May-09	<0.1	241.38	0.55	43.23	31.55	<0.1	1.32	1.79	446.78	1.75	10.45	56.14	1.8	0.61	<0.5	<0.5	<0.1	4.03
Markland	531.5	16-Jul-09	<0.1	144.38	0.63	48.56	36.52	<0.1	1.21	1.74	219	<1.5	12.29	29.06	1.44	0.18	<0.5	0.63	<0.1	1.73
Markland	531.5	22-Sep-09	<0.1	177.24	1.19	57.99	39.96	<0.1	0.43	1.97	286.07	<1.5	13.48	59.09	2.53	0.38	<0.5	0.56	<0.1	2.28
Markland	531.5	18-Nov-09	<0.1	310.9	0.74	50.05	35.92	<0.1	1	1.94	489.58	1.93	11.52	36.17	1.84	0.4	<0.5	0.61	<0.1	3.08
Markland	531.5	12-Jan-10	<0.1	1212.3	1.05	49.27	37.47	0.11	3.41	3.21	2307.13	7.77	11.96	216.35	4.36	2.38	<0.5	<0.5	<0.1	13.57
Markland	531.5	23-Mar-10	<0.1	852.31	0.82	48.48	28.5	0.14	2.28	3.56	1784.18	6.56	8.74	174.03	5.06	2.78	<0.5	<0.5	<0.1	15.9
Markland	531.5	26-May-10	<0.1	943.66	0.89	42.24	31.37	<0.1	1.54	2.62	1384.45	4.23	9.28	48.09	3.6	1.23	<0.5	0.54	<0.1	6.64
Markland	531.5	14-Jul-10	<0.1	328.24	1.02	54.71	42.31	<0.1	1.53	2.55	509.44	<1.5	15.06	39.79	1.98	0.55	<0.5	0.74	<0.1	3.77
Markland	531.5	20-Sep-10	<0.1	157.73	1.07	69.95	44.02	<0.1	1.24	2.12	265.1	<1.5	16.16	39.32	3.07	0.31	<0.5	1.12	<0.1	2.27
Markland	531.5	19-Nov-10	<0.1	147.78	0.59	68.07	45.96	<0.1	1.58	2.85	239.99	<1.5	16.49	26.73	3.29	0.29	<0.5	1.53	<0.1	2.77
Markland	531.5	18-Jan-11	<0.1	206.89	0.26	46.71	33.3	<0.1	2.04	1.79	401.13	1.5	10.26	31.6	2.43	0.39	<0.5	0.58	<0.1	3.79
Markland	531.5	08-Mar-11	<0.1	3821.1	1.45	77.9	34.01	0.22	5.03	7.29	6780.37	19.37	9.94	497.47	10.41	7.31	<0.5	0.62	<0.1	34.6
Markland	531.5	24-May-11	<0.1	1206.5	1.4	49.18	36.02	0.11	1.7	3.87	2143.33	5.96	10.79	159.54	5.26	2.44	<0.5	0.63	<0.1	13.37
Markland	531.5	18-Jul-11	<0.1	100.92	1.65	56.57	45.52	<0.1	1.17	2.44	257.38	<1.5	15.19	34.99	2.8	0.38	<0.5	1.07	<0.1	4.95
Markland	531.5	16-Sep-11	<0.1	286	0.79	63.24	43.36	<0.1	0.65	2.13	402.31	<1.5	14.99	37.02	2.85	0.38	<0.5	0.86	<0.1	4.39
Markland	531.5	21-Nov-11	<0.1	1110	1.53	52.28	34.49	0.15	2.33	3.58	1881.02	5.45	10.78	121	5.38	2.04	<0.5	0.82	0.11	12.37
Markland	531.5	25-Jan-12	<0.1	1961	1.43	46.08	33.98	<0.1	2.79	3.37	2788.7	7.45	10.75	134	5.09	2.19	<0.5	0.59	<0.1	50.75
Markland	531.5	07-Mar-12	<0.1	2750	1.6	65.98	26.87	<0.1	3.95	5.7	4800	15.5	8.57	315	8.44	5.06	<0.5	0.59	<0.1	27.7
Markland	531.5	17-May-12	<0.1	1593	1.19	46.68	32.81	<0.1	2.5	2.92	1509.08	3.36	9.79	60.2	3.56	1.15	<0.5	0.57	<0.1	7.48
Markland	531.5	17-Jul-12	<0.1	43.96	1.44	48.89	33.56	<0.1	0.54	1.72	62.17	<1.5	13.6	26.32	1.65	<0.1	<0.5	0.67	<0.1	1.51
Markland	531.5	20-Sep-12	<0.1	242.23	1.18	58.47	40.52	<0.1	0.6	2.37	324.64	<1.5	15.91	48.97	2.46	0.4	<0.5	1.47	<0.1	3.7
Markland	531.5	08-Nov-12	<0.1	546.7	1.06	50.81	36.53	<0.1	0.88	3.61	921.82	3.4	11.34	77.39	3.4	1.36	<0.5	0.96	<0.1	8.55
Markland	531.5	10-Jan-13	<0.1	324	0.97	36.43	31.46	<0.1	0.46	1.73	661.36	1.99	9.62	41.2	2.23	0.62	<0.5	0.73	<0.1	5.45
Markland	531.5	26-Mar-13	<0.1	1260	1.49	44.3	31.9	<0.1	2.52	3.08	1886.93	4.28	9.43	84.9	3.81	1.67	<0.5	0.65	<0.1	11.07
Markland	531.5	09-May-13	<0.1	766	0.99	28.86	33.97	<0.1	1.25	2.17	1038.32	1.9	8.06	38.7	2.29	0.85	<0.5	<0.5	<0.1	4.69
Louisville	600.6	14-Jul-08	<0.1	2721.1	1.98	80.02	41.45	0.18	4.56	6.97	4840.79	7.46	12.83	373.96	8.7	5.37	<0.5	0.68	<0.1	23.62
Louisville	600.6	24-Sep-08	<0.1	89.46	0.73	57.16	40.9	<0.1	3.29	2.32	140.17	<1.5	15.19	20.33	2.08	0.14	<0.5	1.4	<0.1	1.88
Louisville	600.6	19-Nov-08	<0.1	1001.2	1.57	65.88	41.6	<0.1	2.25	3.76	1577.14	6.63	15.5	91.93	4.6	1.45	<0.5	1.41	<0.1	8.68
Louisville	600.6	22-Jan-09	<0.1	348.54	0.41	31.95	29.03	<0.1	1.05	1.64	679.82	3.7	8.51	43.74	2.19	0.83	<0.5	<0.5	<0.1	3.92
Louisville	600.6	12-Mar-09	<0.1	614.79	0.67	38.02	34.84	<0.1	1.57	1.88	1005.62	4.72	10.71	57.35	2.57	0.88	<0.5	0.71	<0.1	5.41
Louisville	600.6	28-May-09	<0.1	735.45	0.87	48.09	33.87	<0.1	1.84	2.6	1342.13	3.78	11.22	100.97	2.86	1.42	<0.5	0.7	<0.1	7.46
Louisville	600.6	16-Jul-09	<0.1	548.18	0.68	50.07	35.85	<0.1	1.41	2.25	921	4.78	10.84	74.19	2.08	0.77	<0.5	0.51	<0.1	4.59
Louisville	600.6	23-Sep-09	<0.1	218.98	0.93	50.38	37.51	<0.1	0.94	1.84	332.32	2.59	12.55	37.34	2.16	0.32	<0.5	0.9	<0.1	1.79
Louisville	600.6	18-Nov-09	<0.1	384.91	0.81	51.19	46	<0.1	1	1.91	526.73	2.01	14.72	32.44	1.88	0.4	<0.5	0.61	<0.1	6.93
Louisville	600.6	26-Jan-10	<0.1	1957.7	0.98	49.16	37.01	<0.1	3.22	4.44	3421.9	13.27	10.19	252.22	5.94	3.56	<0.5	<0.5	<0.1	13.66
Louisville	600.6	16-Mar-10	<0.1	1080.3	0.81	56.89	39.68	<0.1	2.91	3.14	1843.86	5.54	12.08	130.46	5.23	2.21	<0.5	<0.5	<0.1	10.78
Louisville	600.6	20-May-10	<0.1	1473.7	0.95	50.35	36.98	<0.1	1.95	3.28	2379.4	5.57	11.21	128.09	4.58	1.91	<0.5	0.74	<0.1	10.36
Louisville	600.6	22-Jul-10	<0.1	477.29	1.37	55.28	45.8	<0.1	1.8	2.44	740.58	1.77	15.51	54.34	2.36	0.75	<0.5	1.06	<0.1	3.97
Louisville	600.6	16-Sep-10	<0.1	373.33	1.25	60.07	41.33	<0.1	1.79	2.21	513.44	<1.5	13.83	40.61	2.08	0.45	<0.5	1.73	<0.1	3.52
Louisville	600.6	17-Nov-10	<0.1	149.61	0.88	67.28	47.83	<0.1	1.79	2.43	264.04	<1.5	17.35	26.52	3.4	0.38	<0.5	1.56	0.15	2.88
Louisville	600.6	26-Jan-11	<0.1	821.45	0.46	57.61	39.27	<0.1	2.64	3.1	1635.36	5.88	11.73	146.97	4.5	1.67	<0.5	1.06	<0.1	11.93
Louisville	600.6	28-Mar-11	<0.1	3572.0	1.24	98.01	61.98	0.31	5.02	7.83	6510.15	20.61	16.02	921.07	11.87	6.94	<0.5	2.09	0.1	39.46

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Louisville	600.6	18-May-11	<0.1	3518.0	2.39	80.83	50.33	0.2	5.79	8.08	7131.81	18.59	15.77	609.36	13.43	7.8	<0.5	1.09	0.16	60.99
McAlpine	606.8	20-May-10	<0.1	2289.6	1.32	58.8	37.77	0.14	3.13	4.67	3795.86	9.89	11.51	221.52	6.58	3.25	<0.5	0.85	<0.1	16.67
McAlpine	606.8	22-Jul-10	<0.1	760.9	1.14	56.23	45.9	<0.1	1.78	3.01	1191.49	3.07	15.34	87.58	2.8	1.14	<0.5	1.02	<0.1	6.02
McAlpine	606.8	16-Sep-10	<0.1	390.7	1.19	58.52	41.64	<0.1	1.85	2.06	509.65	<1.5	13.86	39.18	3.03	0.5	<0.5	1.45	<0.1	2.72
McAlpine	606.8	17-Nov-10	<0.1	92.19	0.7	67.16	47.44	<0.1	1.74	2.3	148.62	<1.5	17.6	18.87	3.23	0.21	<0.5	1.55	<0.1	<1
McAlpine	606.8	26-Jan-11	<0.1	299.07	0.17	52.51	37.69	<0.1	2.69	2.2	620.16	4.53	11.36	67.52	3.13	0.6	<0.5	0.65	<0.1	5.4
McAlpine	606.8	28-Mar-11	<0.1	1294.9	0.77	52.15	35.13	0.12	2.27	3.5	2582.36	8.54	10.78	237.68	5.66	2.68	<0.5	0.72	<0.1	16.62
McAlpine	606.8	18-May-11	<0.1	2440.4	1.61	62.67	40.68	<0.1	3.52	5.51	4608	9.1	13.8	277.84	7.83	3.96	<0.5	0.8	<0.1	19.8
McAlpine	606.8	18-Jul-11	<0.1	89.05	1.92	46.77	40.41	<0.1	1.19	2.19	154.43	<1.5	13.11	18.07	2.39	0.21	<0.5	0.86	<0.1	2.47
McAlpine	606.8	20-Sep-11	<0.1	471	0.83	64.61	41.56	<0.1	0.67	1.95	612.77	<1.5	14.52	56.8	3.05	0.47	<0.5	0.56	<0.1	3.12
McAlpine	606.8	21-Nov-11	<0.1	5300	3.01	94.23	41.36	0.28	8.21	12.41	9426.96	18.48	13.04	761	16.04	9.86	<0.5	0.86	0.15	45.6
McAlpine	606.8	25-Jan-12	<0.1	2930	1.56	48.13	35.52	<0.1	3.88	4.75	4258.06	9.65	10.58	202	6.81	3.29	<0.5	0.56	<0.1	18.79
McAlpine	606.8	07-Mar-12	<0.1	5080	2.12	81.63	28.28	0.1	7.02	9.35	8280	26.06	9.36	465	11.97	7.45	<0.5	0.51	<0.1	37.8
McAlpine	606.8	17-May-12	<0.1	2430	1.24	48.37	34.57	<0.1	3.31	3.54	2277.69	5.1	10.04	85.7	4.07	1.49	<0.5	0.59	<0.1	10.56
McAlpine	606.8	17-Jul-12	<0.1	88.72	0.83	47.75	33.63	<0.1	0.49	1.99	117.57	<1.5	13.37	22.34	1.72	0.2	<0.5	0.93	<0.1	2.94
McAlpine	606.8	20-Sep-12	<0.1	174.44	1.15	53.82	38.78	<0.1	0.36	2.38	225.41	<1.5	14.84	28.02	2.25	0.26	<0.5	1.44	<0.1	3.36
McAlpine	606.8	08-Nov-12	<0.1	782.36	1.14	57.71	38.38	<0.1	1.15	3.84	1258.16	5.3	12.27	128.98	4.56	1.72	<0.5	1.03	<0.1	10.25
McAlpine	606.8	10-Jan-13	<0.1	392	0.7	31.02	32.86	0.17	0.6	1.94	598.38	2.57	9.34	42.3	2.35	0.74	<0.5	0.97	0.15	5.43
McAlpine	606.8	26-Mar-13	<0.1	2060	1.61	47.3	32.22	0.11	2.84	4.66	3516.25	7.28	9.38	160	6.36	3.23	<0.5	0.65	<0.1	17.6
McAlpine	606.8	09-May-13	<0.1	533	0.94	31.31	38.39	<0.1	0.76	2	819.09	2.55	9.7	44.5	2.12	0.82	<0.5	<0.5	<0.1	9.67
West Point	625.9	14-Jul-08	0.1	8167.5	4.41	146.2	74.46	0.76	18	20.52	18721.0	R	21.24	1052.27	33.69	22.23	<0.5	2.48	0.25	102.62
West Point	625.9	24-Sep-08	<0.1	91.32	0.86	58.19	50.84	<0.1	2.59	4.88	147.92	34.66	17.15	34.39	2.89	0.17	<0.5	2.49	<0.1	3.34
West Point	625.9	19-Nov-08	<0.1	514.03	1.19	63.48	48.98	<0.1	1.75	3.35	742.87	30.93	16.63	78.98	4.32	0.86	<0.5	2.88	<0.1	7.25
West Point	625.9	22-Jan-09	<0.1	775.5	0.87	39.36	36.67	<0.1	2.02	3.29	1525.44	19.62	10	140.81	4.25	1.92	<0.5	1.59	<0.1	13.41
West Point	625.9	12-Mar-09	<0.1	941.98	0.94	42.76	36.77	<0.1	1.92	2.74	1586.32	14	10.98	101.13	3.93	1.51	<0.5	1.3	<0.1	9.5
West Point	625.9	28-May-09	<0.1	1225.7	1.37	55.92	39.81	0.16	3.26	5.02	2464.47	30.01	12.24	176.33	5.5	3.03	<0.5	1.58	0.14	16.27
West Point	625.9	16-Jul-09	<0.1	317.95	0.92	53.83	45.29	<0.1	1.73	3.06	536	32.68	12.76	66.54	2.7	0.71	<0.5	2.93	<0.1	5.15
West Point	625.9	09-Sep-09	<0.1	294.91	1.04	53.47	51.47	<0.1	0.94	4.98	438.6	58.54	13.79	58.5	3.12	0.58	<0.5	3.02	<0.1	4.13
West Point	625.9	18-Nov-09	<0.1	1013.8	1.05	57.92	55.91	<0.1	1.66	3.91	1642.49	20.64	16.37	123.98	4.22	1.65	<0.5	1.69	<0.1	11.28
West Point	625.9	26-Jan-10	<0.1	1989.5	0.94	51.69	41.29	0.16	2.71	3.93	3611.28	14.68	11.71	290.91	5.97	3.43	<0.5	0.65	<0.1	15.42
West Point	625.9	16-Mar-10	<0.1	2621.9	1.55	80.29	43.75	0.13	4.71	6.81	4755.01	21.62	13.3	400.91	10.43	6.3	<0.5	0.74	<0.1	29.88
West Point	625.9	20-May-10	<0.1	3518.9	1.9	74.92	47.16	0.28	5.37	7.35	6864.42	24.51	13.1	398.45	12.3	6.97	<0.5	1.52	0.13	34.4
West Point	625.9	22-Jul-10	<0.1	733.33	1.29	57.82	46.85	<0.1	1.89	3.57	1257.25	7.81	15.19	120.25	3.24	1.43	<0.5	1.51	<0.1	7.45
West Point	625.9	16-Sep-10	<0.1	234.42	2.13	64.6	68.08	0.12	2.63	5.07	255.5	42.41	17.52	29.06	5.06	0.3	0.5	6.06	0.25	3.63
West Point	625.9	17-Nov-10	<0.1	140.25	0.95	68.45	57.65	<0.1	1.93	2.68	256.53	5.67	18.3	41.82	4.16	0.3	<0.5	2.35	<0.1	3.87
West Point	625.9	26-Jan-11	<0.1	336.11	0.6	51.47	45.47	<0.1	2.06	2.51	623.29	18	12.26	71.65	3.98	0.7	<0.5	1.71	<0.1	12.06
West Point	625.9	28-Mar-11	<0.1	1173.3	0.68	50.35	35.3	<0.1	1.9	3.45	2354.83	7.26	10.51	208.12	5.22	2.47	<0.5	0.78	<0.1	17.87
West Point	625.9	18-May-11	<0.1	2435.2	1.43	63.01	42.17	<0.1	3.33	5.74	4578.92	10.76	14.06	292.75	8.19	3.99	<0.5	0.94	<0.1	21.23
Cannelton	720.7	23-Jul-08	<0.1	142.53	0.86	49.42	38.02	<0.1	0.41	2.07	272.43	<1.5	11.32	39.46	1.54	0.42	<0.5	0.53	<0.1	1.93
Cannelton	720.7	18-Sep-08	<0.1	205.85	1.16	57.07	45.63	<0.1	2.48	0.89	304.85	2.95	15.87	38.05	2.22	0.29	<0.5	1.18	<0.1	2.79
Cannelton	720.7	18-Nov-08	<0.1	201.83	0.91	58.66	40.91	<0.1	1.29	2.33	238.47	<1.5	14.84	21.65	2.65	0.26	<0.5	1.25	<0.1	2.74
Cannelton	720.7	03-Feb-09	<0.1	1368.7	0.95	45.54	33.78	<0.1	2.39	3.73	2706.47	7.78	9.8	198.09	5.3	2.84	<0.5	0.52	<0.1	14.76
Cannelton	720.7	10-Mar-09	<0.1	1293.1	1.03	41.83	33.21	<0.1	2.3	2.79	1972.12	5.58	9.76	99.74	3.77	1.75	<0.5	0.63	<0.1	11.63
Cannelton	720.7	21-May-09	<0.1	838.74	0.82	43.38	32.23	<0.1	1.75	3.01	1427.74	9.65	8.72	66.78	3.31	1.73	<0.5	0.8	<0.1	8.53
Cannelton	720.7	22-Jul-09	<0.1	268.06	0.95	49.98	37.17	<0.1	1.46	2.32	397	2.04	11.03	38.23	2.19	0.54	<0.5	0.87	<0.1	2.34
Cannelton	720.7	23-Sep-09	<0.1	210.35	0.85	52.04	37.76	<0.1	0.25	1.84	339.04	1.77	12.48	36.14	2.06	0.35	<0.5	0.96	<0.1	1.58
Cannelton	720.7	18-Nov-09	<0.1	343.04	0.8	48.45	46.49	<0.1	1.26	1.87	496.07	2.8	13.62	25.79	1.77	0.38	<0.5	0.72	<0.1	4.35
Cannelton	720.7	12-Jan-10	<0.1	242.45	0.46	31.69	32.88	<0.1	1.69	1.48	467.92	2.43	10.39	24.3	1.61	0.51	<0.5	0.59	<0.1	2.51
Cannelton	720.7	24-Mar-10	<0.1	1331.7	1.05	57.82	30.55	<0.1	2.75	4.8	2710.1	11.58	8.98	273.2	6.8	4.34	<0.5	<0.5	0.1	20.1
Cannelton	720.7	11-May-10	<0.1	1330.0	0.89	40.29	34.04	<0.1	2.08	2.99	1951.36	3.57	8.15	56.16	4.21	1.47	<0.5	0.51	<0.1	7.42
Cannelton	720.7	13-Jul-10	<0.1	102.7	0.76	48.42	47.28	<0.1	1.77	2.11	199.72	<1.5	14.93	18.45	1.52	0.27	<0.5	0.7	<0.1	1.94

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Cannelton	720.7	07-Sep-10	<0.1	266.1	0.97	53.67	38.32	<0.1	2.18	1.96	352.2	<1.5	13.74	30.57	2.83	0.27	<0.5	1.24	<0.1	3.16
Cannelton	720.7	02-Nov-10	<0.1	212.66	1.3	67.33	50.12	<0.1	2.36	2.46	321.85	<1.5	18.98	28.75	3.44	0.39	<0.5	1.69	<0.1	2.67
Cannelton	720.7	26-Jan-11	<0.1	264	0.36	43.78	34.88	<0.1	2.29	1.72	498.01	2.84	10.71	30.2	2.31	0.38	<0.5	1.18	<0.1	3.82
Cannelton	720.7	30-Mar-11	<0.1	1423.1	0.78	52.96	33.36	0.1	2.38	3.73	2683.26	7.55	10.06	222.75	5.61	2.61	<0.5	0.74	<0.1	12.8
Cannelton	720.7	24-May-11	<0.1	2553.0	1.99	71.95	41.44	0.19	4.02	6.51	5034.73	11.8	13.26	463	10.06	5.97	<0.5	0.98	0.13	27.98
Cannelton	720.7	12-Jul-11	<0.1	159.21	1.83	42.61	41.43	<0.1	2.09	2.27	256.66	<1.5	11.61	26.65	2.47	0.35	<0.5	0.68	<0.1	3.08
Cannelton	720.7	29-Sep-11	<0.1	336	1.02	57.35	42.64	<0.1	0.69	2.2	445.53	1.8	14.12	30.28	2.8	0.46	<0.5	1.14	<0.1	5.45
Cannelton	720.7	16-Nov-11	<0.1	382	1.11	38.8	37.08	<0.1	1.28	2.32	557.22	2.33	10.88	30.9	2.91	0.51	<0.5	0.88	<0.1	5.47
Cannelton	720.7	09-Jan-12	<0.1	846	1.01	37.62	31.84	<0.1	2.21	2.62	1432.66	4.23	9.66	95.83	3.77	1.35	<0.5	0.56	<0.1	8.84
Cannelton	720.7	14-Mar-12	<0.1	2500	1.61	51.28	31.32	<0.1	3.58	4.69	3980	11.08	9.07	225	6.31	3.68	<0.5	0.6	<0.1	22.3
Cannelton	720.7	31-May-12	<0.1	298	0.6	41.2	35.23	<0.1	1.49	1.7	269	<1.5	10.91	16.08	1.51	0.25	<0.5	0.57	<0.1	5.98
Cannelton	720.7	10-Jul-12	<0.1	284	1.23	46.55	35	<0.1	0.43	1.95	323.4	<1.5	12.22	21.6	1.79	0.32	<0.5	1.03	<0.1	3.14
Cannelton	720.7	12-Sep-12	<0.1	138.28	1.03	49.42	37.16	<0.1	0.27	2.09	182.23	<1.5	13.18	25.59	2.17	0.24	<0.5	1.24	<0.1	2.53
Cannelton	720.7	14-Nov-12	<0.1	241.28	0.84	49.99	39.3	<0.1	0.25	2.75	398.47	<1.5	12.3	28.52	2.66	0.49	<0.5	1.05	<0.1	3.29
Cannelton	720.7	29-Jan-13	<0.1	809	0.94	38.15	29.23	0.18	1.4	3.21	1492.68	<1.5	8.44	96.9	4.17	2.09	<0.5	0.79	<0.1	9.94
Cannelton	720.7	26-Mar-13	<0.1	2340	1.89	48.68	31.91	0.16	2.93	4.42	3709.18	10.13	8.89	162	6.38	3.59	<0.5	0.68	0.15	18.08
Cannelton	720.7	07-May-13	<0.1	771	0.89	38	37.08	<0.1	1.58	2.24	1033.26	3.32	10.33	57.2	2.58	1.01	<0.5	0.69	<0.1	6.52
Newburgh	776	15-Jul-08	<0.1	111.18	0.64	50.56	41.77	<0.1	1.93	2.26	183.2	17.13	12.9	18.59	1.5	0.27	<0.5	0.59	<0.1	1.44
Newburgh	776	29-Sep-08	<0.1	70.33	0.67	55.17	46.15	<0.1	1.99	2.48	96.28	7.39	16.57	11.51	1.95	<0.1	<0.5	1.39	<0.1	1.64
Newburgh	776	18-Nov-08	<0.1	527.63	1.15	61.73	44.42	<0.1	1.49	3	703.64	3.8	16.15	50.34	3.65	0.68	<0.5	1.19	<0.1	5.03
Newburgh	776	03-Feb-09	<0.1	1801.4	0.97	51.62	34.55	0.11	2.92	4.63	3592.23	13.69	10.72	299.22	6.21	3.98	<0.5	<0.5	<0.1	18.19
Newburgh	776	10-Mar-09	<0.1	793.98	0.77	36.44	34.39	<0.1	1.72	2.17	1196.46	3.72	9.88	59.73	2.72	1	<0.5	0.62	<0.1	5.87
Newburgh	776	20-May-09	<0.1	1165.6	1.04	46.44	31.41	<0.1	2.61	3.51	2007.45	5.69	8.36	94.32	4.06	2.05	<0.5	<0.5	<0.1	10.87
Newburgh	776	22-Jul-09	<0.1	310.97	0.94	45.9	35.52	<0.1	1.46	2.32	503	2.5	11.03	42.6	2.19	0.54	<0.5	0.87	<0.1	3.65
Newburgh	776	15-Sep-09	<0.1	106.49	0.8	44.55	34.98	<0.1	0.13	1.87	154.83	1.65	11.41	18.8	1.28	0.16	<0.5	0.77	<0.1	1.32
Newburgh	776	02-Nov-09	<0.1	2376.7	1.23	57.42	47.73	<0.1	3.07	4.05	3483.39	8.39	13.39	212.16	4.62	2.57	<0.5	0.71	<0.1	12.1
Newburgh	776	12-Jan-10	<0.1	388.35	0.5	33.88	36.21	<0.1	1.77	1.89	710	3.48	11.56	45.99	2.14	0.72	<0.5	0.66	0.1	4.37
Newburgh	776	24-Mar-10	<0.1	802.88	0.68	48.57	20.64	0.12	1.78	2.85	1835.6	13.1	5.34	244.92	5.76	2.61	<0.5	<0.5	0.1	16.44
Newburgh	776	11-May-10	<0.1	2011.2	1.33	46.94	34.69	0.1	2.86	3.98	2921.42	6.3	9.7	145.41	5.55	2.2	<0.5	0.63	<0.1	15.75
Newburgh	776	13-Jul-10	<0.1	48.55	1.02	46.82	45.24	<0.1	1.88	2.34	80.31	<1.5	14.35	13.81	1.35	0.19	<0.5	0.82	<0.1	1.38
Newburgh	776	07-Sep-10	<0.1	379.64	1.04	52.03	37.25	<0.1	2.26	2.47	437.61	<1.5	11.9	32.25	3.05	0.37	<0.5	1.18	<0.1	2.56
Newburgh	776	02-Nov-10	<0.1	169.85	1.17	67.19	51.83	<0.1	1.48	2.52	263.13	<1.5	18.31	24.57	3.64	0.3	<0.5	2.17	<0.1	2.55
Newburgh	776	26-Jan-11	<0.1	270.87	<0.1	43.99	35.73	<0.1	1.63	1.92	529.62	3.42	11.28	38.18	2.59	0.74	<0.5	0.98	<0.1	4.42
Newburgh	776	01-Mar-11	<0.1	5487.1	1.62	85.62	44.66	0.22	6.34	8.19	8876.83	17.82	12.1	482.86	11.98	7.25	<0.5	0.75	0.12	31.92
Newburgh	776	24-May-11	<0.1	1108.7	1.36	52.95	38.53	<0.1	2.11	3.92	2126.9	6.09	12.18	209.75	5.82	2.56	<0.5	0.7	<0.1	13.14
Newburgh	776	12-Jul-11	<0.1	233.57	1.98	43.29	41.91	<0.1	1.73	2.45	377.74	2.27	13.26	37.58	2.77	0.42	<0.5	0.91	<0.1	3.05
Newburgh	776	29-Sep-11	<0.1	386	1.1	54.32	41.81	<0.1	1.2	2.32	556.16	2.35	14.46	39.98	2.86	0.46	<0.5	0.96	<0.1	3.39
Newburgh	776	16-Nov-11	<0.1	799	1.57	42.88	41.51	<0.1	1.79	3.11	1219.64	3.37	13.98	78.4	4.35	1.08	<0.5	0.99	<0.1	7.55
Newburgh	776	09-Jan-12	<0.1	1018	1.18	39.44	33.48	<0.1	1.95	7.41	1700.35	5.66	10.81	125	4.15	1.97	<0.5	0.68	<0.1	21.49
Newburgh	776	14-Mar-12	<0.1	1970	1.3	49.74	32.2	<0.1	3.1	4.37	3360	9.88	9.34	208	5.86	3.4	<0.5	0.58	<0.1	19.9
Newburgh	776	31-May-12	<0.1	410	0.9	41.35	35.59	<0.1	1.18	2.15	404.08	<1.5	11.26	27.2	1.88	0.45	<0.5	0.74	<0.1	4.39
Newburgh	776	10-Jul-12	<0.1	242	0.81	42.69	35.92	<0.1	0.28	2.17	175.15	<1.5	11.94	14.07	1.45	0.15	<0.5	0.89	<0.1	2.31
Newburgh	776	12-Sep-12	<0.1	239.93	1.04	51.24	38.32	<0.1	0.22	2.42	329.77	<1.5	13.73	33.8	2.3	0.33	<0.5	0.97	<0.1	4.35
Newburgh	776	14-Nov-12	<0.1	352.51	1.07	54.15	39.39	<0.1	0.38	2.67	501.13	1.54	12.61	43.58	3.01	0.58	<0.5	1.07	<0.1	4.9
Newburgh	776	29-Jan-13	<0.1	772	0.95	38.15	30.16	0.31	1.13	3.01	1456.43	3.05	8.85	102	3.51	2.17	<0.5	0.9	0.16	10.35
Newburgh	776	26-Mar-13	<0.1	3220	2.49	59.71	34.23	0.21	3.96	6.26	5483.74	13.81	9.94	268	9.54	5.18	<0.5	<0.5	0.17	26.5
Newburgh	776	07-May-13	<0.1	903	1.16	39.38	33.54	<0.1	1.31	2.8	1546.12	5.79	10.44	93.1	3.31	1.49	<0.5	<0.5	<0.1	8.71
J.T. Myers	846	22-Jul-08	<0.1	64.17	0.53	51	42.34	<0.1	1.44	1.99	121.8	2.4	13.18	18.21	1.4	0.19	<0.5	0.84	<0.1	<1
J.T. Myers	846	17-Sep-08	<0.1	264.96	1.16	54.03	43.22	<0.1	3.08	2.38	374.93	<1.5	15.51	34.99	2.03	0.32	<0.5	1.38	<0.1	1.67
J.T. Myers	846	17-Nov-08	<0.1	245.48	0.94	52.88	40.33	<0.1	1.37	2.09	337.78	<1.5	13.04	28.62	2.4	0.41	<0.5	1.43	<0.1	2.59
J.T. Myers	846	02-Feb-09	<0.1	2924.1	1.41	68.01	32.93	<0.1	4.48	7.04	5734.2	43.76	9.83	541.31	10.11	6.64	<0.5	<0.5	<0.1	31.37

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
J.T. Myers	846	10-Mar-09	<0.1	1303.1	0.99	38.66	35.16	<0.1	2.23	2.61	1854.59	4.52	9.53	74.18	3.25	1.36	<0.5	0.67	<0.1	8.08
J.T. Myers	846	19-May-09	<0.1	1941.2	1.19	53.16	28.85	<0.1	3.12	4.74	3473.12	9.33	7.57	162.26	5.65	3.73	<0.5	<0.5	<0.1	15.74
J.T. Myers	846	21-Jul-09	<0.1	210.37	0.68	43.91	36.76	<0.1	1.52	1.76	279	<1.5	11.6	30.24	1.47	0.31	<0.5	0.72	<0.1	2.08
J.T. Myers	846	15-Sep-09	<0.1	226.53	1.01	44.98	37.9	<0.1	1.31	2.06	358.22	2.43	12.64	39.02	2.01	0.38	<0.5	0.69	<0.1	3.53
J.T. Myers	846	02-Nov-09	<0.1	2501.2	1.5	52.2	43.25	<0.1	3.53	4.04	3666.91	8.89	12.1	225.42	5.56	2.66	<0.5	0.59	<0.1	13.93
J.T. Myers	846	13-Jan-10	<0.1	327.58	0.42	34.15	37.42	<0.1	1.48	1.56	625	2.9	12	43.06	1.85	0.61	<0.5	<0.5	<0.1	4.25
J.T. Myers	846	25-Mar-10	<0.1	1643.4	1.1	62.21	32.69	0.17	2.51	5.35	3224.09	13.41	9.87	312.31	7.14	4.86	<0.5	<0.5	0.18	21.68
J.T. Myers	846	12-May-10	<0.1	2440.7	1.34	49.33	31.35	0.15	2.95	4.3	3643.2	9.15	7.69	162.9	6.15	3.08	<0.5	<0.5	0.11	16.93
J.T. Myers	846	14-Jul-10	<0.1	155.71	0.82	46.16	42.91	<0.1	1.66	2.24	245.32	<1.5	12.96	26.62	1.37	0.25	<0.5	0.84	<0.1	1.85
J.T. Myers	846	08-Sep-10	<0.1	252.49	0.93	48.96	40.91	<0.1	2.44	2.12	320.25	3.11	12.26	32.71	2.84	0.34	<0.5	1.13	<0.1	2.31
J.T. Myers	846	03-Nov-10	<0.1	127.15	0.88	61.29	50.88	<0.1	2.09	2.92	183.14	<1.5	16.64	21.18	3.48	0.27	<0.5	1.83	0.13	3.83
J.T. Myers	846	26-Jan-11	<0.1	274.59	0.1	43.23	36.44	<0.1	2.23	1.9	528.64	2.33	11.07	36.57	2.71	0.53	<0.5	0.77	<0.1	3.83
J.T. Myers	846	01-Mar-11	<0.1	8207.5	2.04	121.46	47.83	0.46	10.15	14.21	14326.5	40.64	13.72	1011.19	20.72	13.78	<0.5	0.77	0.19	59.98
J.T. Myers	846	23-May-11	<0.1	3194.8	1.52	75.59	39.62	0.29	3.97	7.45	6408.17	17.39	12.55	523.18	11.45	6.53	<0.5	0.61	0.11	38.01
J.T. Myers	846	12-Jul-11	<0.1	286.55	1.86	38.32	38.6	<0.1	1.24	2.34	455.44	<1.5	10.94	37.46	2.54	0.53	<0.5	0.75	<0.1	2.77
J.T. Myers	846	28-Sep-11	<0.1	892	1.26	62.41	44.91	<0.1	1.56	3.17	1291.45	2.91	15.37	78.23	3.99	1.24	<0.5	1.02	<0.1	10.56
J.T. Myers	846	17-Nov-11	<0.1	962	1.73	46.48	37.9	0.15	2.54	3.98	1668.57	7.14	11.43	99.4	4.68	1.9	<0.5	0.92	0.12	10.16
J.T. Myers	846	09-Jan-12	<0.1	1940	1.58	49.21	33.4	<0.1	3.3	5.11	3323.95	9.89	9.9	260	6.53	3.52	<0.5	0.55	<0.1	21
J.T. Myers	846	13-Mar-12	<0.1	2790	1.85	58.5	31.74	0.14	4.26	5.94	4550	13.18	9.25	285	7.64	4.72	<0.5	0.62	<0.1	27.1
J.T. Myers	846	30-May-12	<0.1	876	0.96	42.94	36.07	<0.1	1.57	2.68	891.05	2.31	10.3	56.2	2.31	0.72	<0.5	0.56	<0.1	5.31
J.T. Myers	846	10-Jul-12	<0.1	355	0.89	45.2	37.4	<0.1	0.39	1.87	253	<1.5	12.2	32.2	1.52	0.2	<0.5	0.91	<0.1	2.2
J.T. Myers	846	13-Sep-12	<0.1	158.51	1.08	52.9	39.59	<0.1	0.29	2.16	223.11	<1.5	14.69	35.87	2.14	0.28	<0.5	1.26	<0.1	4.86
J.T. Myers	846	15-Nov-12	<0.1	272.46	1.03	56.38	41.4	<0.1	0.58	2.64	451.09	<1.5	13.49	33.01	2.89	0.53	<0.5	1.14	<0.1	4.09
J.T. Myers	846	30-Jan-13	<0.1	919	1.11	37.78	30.42	0.23	1.39	3.53	1585.72	5.4	8.37	97.9	4.39	2.07	<0.5	0.79	<0.1	10.88
J.T. Myers	846	27-Mar-13	<0.1	2480	1.8	55.21	34.43	<0.1	3.21	5.58	4355.17	15.2	9.95	262	8.01	4.56	<0.5	0.56	<0.1	22
J.T. Myers	846	08-May-13	<0.1	1070	1.28	41.5	33.37	<0.1	1.56	3.28	1932.35	6.85	9.92	129	3.78	1.96	<0.5	0.54	<0.1	12.06
Smithland	918.5	22-Jul-08	<0.1	375.5	0.87	46.61	42.89	<0.1	1.76	2.28	547.42	4.06	13.15	26.44	1.73	0.48	<0.5	0.63	<0.1	3.1
Smithland	918.5	30-Sep-08	<0.1	196.17	0.96	53.44	44.95	<0.1	3.29	2.1	259.82	9.84	16.66	25.3	1.87	0.15	<0.5	1.06	<0.1	1.66
Smithland	918.5	17-Nov-08	<0.1	125.23	0.92	53	45.69	<0.1	1.19	1.7	174.36	<1.5	16.53	17.74	2.23	0.14	<0.5	1.23	<0.1	1.15
Smithland	918.5	02-Feb-09	<0.1	2012.3	1.35	56.03	44.21	<0.1	3.5	5.31	3898.35	15.67	9.91	350.63	6.89	4.42	<0.5	0.54	<0.1	21.94
Smithland	918.5	10-Mar-09	<0.1	1561.3	0.97	44.75	41.72	<0.1	2.57	2.91	2040.54	5.07	11.71	78.25	3.36	1.55	<0.5	0.85	<0.1	8.86
Smithland	918.5	19-May-09	<0.1	1809.2	1.43	54.64	32.99	<0.1	2.79	4.46	3017.03	11.48	9.86	180.54	5.23	2.97	<0.5	<0.5	<0.1	14.6
Smithland	918.5	21-Jul-09	<0.1	174.65	0.69	45.56	42.47	<0.1	0.99	1.54	228	<1.5	14.4	35.08	2.02	0.2	<0.5	0.86	<0.1	1.48
Smithland	918.5	16-Sep-09	<0.1	183.94	0.94	42.89	37.43	<0.1	1.09	1.86	291.47	<1.5	12.32	57.52	1.38	0.5	<0.5	0.63	<0.1	3.87
Smithland	918.5	02-Nov-09	<0.1	1787.6	1.48	48.26	45.75	<0.1	2.96	3.59	2408.52	5.47	13.09	113.39	4.01	1.79	<0.5	<0.5	<0.1	9.36
Smithland	918.5	13-Jan-10	<0.1	1072.1	0.8	43.56	48.02	0.1	2.58	2.64	1637.61	4.3	15.18	85	3.07	1.29	<0.5	0.71	<0.1	7.28
Smithland	918.5	25-Mar-10	<0.1	1559.1	1.02	62.92	38.47	<0.1	2.53	5.02	2773.14	10.3	11.85	233.67	6.67	3.78	<0.5	0.71	<0.1	19.55
Smithland	918.5	13-May-10	<0.1	2486.2	1.53	57.36	38.87	0.16	3.82	4.57	3586.76	8.99	10.82	208.97	6.6	3.27	<0.5	0.66	<0.1	16.57
Smithland	918.5	15-Jul-10	<0.1	285.15	1.01	49.39	53.48	<0.1	2.11	2.27	398.24	<1.5	16.53	30.44	1.61	0.35	<0.5	0.59	<0.1	2.08
Smithland	918.5	09-Sep-10	<0.1	504.55	1.2	54.94	44.47	<0.1	2.46	1.96	631.58	<1.5	15.48	49.63	3.08	0.41	<0.5	0.95	<0.1	2.99
Smithland	918.5	03-Nov-10	<0.1	150.77	0.83	60.99	52.29	<0.1	1.83	1.89	227.75	<1.5	18.91	45.74	3.11	0.3	<0.5	1.59	<0.1	2.42
Smithland	918.5	27-Jan-11	<0.1	281.23	0.14	44.84	42.18	<0.1	1.84	1.85	518.85		12.83	39.12	2.58	0.46	<0.5	0.65	<0.1	3.66
Smithland	918.5	29-Mar-11	<0.1	1750.8	0.94	56.18	41.38	0.15	2.81	4.03	2888.86	8.53	12.14	212.32	5.68	2.67	<0.5	0.75	<0.1	14.05
Smithland	918.5	23-May-11	<0.1	1986.9	2.11	58.31	42.04	0.1	3.17	4.59	3492.84	7.85	13.17	263.55	6.72	3.09	<0.5	0.81	<0.1	15.25
Smithland	918.5	13-Jul-11	<0.1	348.81	2.44	39.73	36.83	<0.1	2.32	2.35	516.39	<1.5	10.7	35.07	2.45	0.49	<0.5	0.85	<0.1	2.47
Smithland	918.5	28-Sep-11	<0.1	1166	1.59	59.54	42.46	<0.1	1.94	2.96	1538.81	2.82	14.47	90.35	3.64	1.31	<0.5	0.84	<0.1	8
Smithland	918.5	17-Nov-11	<0.1	528	1.46	46.27	40.67	<0.1	1.39	2.58	820.42	3	12.84	48.4	3.42	0.73	<0.5	0.83	<0.1	6.03
Smithland	918.5	10-Jan-12	<0.1	1465	1.57	46.18	44.33	<0.1	2.43	3.46	2104.16	5.38	13.45	133	4.65	2.25	<0.5	0.73	<0.1	11.04
Smithland	918.5	13-Mar-12	<0.1	3220	1.9	62.53	37.72	0.14	4.21	5.61	4790	12.59	11.57	268	7.52	4.26	<0.5	0.62	<0.1	23.8
Smithland	918.5	30-May-12	<0.1	388	0.83	40.48	38.4	<0.1	1.13	2.07	365.64	<1.5	12.03	31.6	1.6	0.36	<0.5	0.66	<0.1	2.79
Smithland	918.5	11-Jul-12	<0.1	58.41	1.18	43.47	38.17	<0.1	1.57	1.48	103.92	<1.5	15.5	35.65	1.26	0.14	<0.5	0.67	<0.1	1.04

SampleSite	Mile Point	Date	Ag (ug/L)	Al (ug/L)	As (ug/L)	Ba (ug/L)	Ca (mg/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Hg (ng/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)
Smithland	918.5	13-Sep-12	<0.1	157.35	1.24	51.19	40.06	<0.1	0.33	1.9	219.84	<1.5	14.75	58.52	2.31	0.32	<0.5	0.99	<0.1	8.84
Smithland	918.5	15-Nov-12	<0.1	250.02	0.93	60.42	45.48	<0.1	0.25	2.36	382.01	<1.5	15.68	27.88	2.71	0.47	<0.5	0.87	<0.1	3.95
Smithland	918.5	30-Jan-13	<0.1	2400	1.6	53.82	36.11	0.14	3.24	4.45	3374.03	7.65	10.7	134	5.52	3.56	<0.5	1.13	<0.1	17.87
Smithland	918.5	27-Mar-13	<0.1	2560	1.75	55.5	38.59	0.11	3.63	4.53	3870.78	9.42	11.3	188	5.77	3.82	<0.5	<0.5	0.13	18.09
Smithland	918.5	08-May-13	<0.1	1170	1.63	49.99	42.78	0.11	1.76	3.44	1701.2	7.19	12.84	87.9	3.54	1.52	<0.5	0.6	<0.1	8.23
L&D 52	938.9	21-Jul-08	<0.1	273.81	0.84	47.17	40.82	<0.1	1.79	2.12	436.45	14	12.68	48.5	1.71	0.45	<0.5	0.76	<0.1	2.19
L&D 52	938.9	16-Sep-08	<0.1	500.41	1.19	55.61	43.25	<0.1	2.91	2.05	709.36	<1.5	16.9	70.78	2.22	0.55	<0.5	1.03	<0.1	3.02
L&D 52	938.9	17-Nov-08	<0.1	366.27	1.08	47.23	38.63	<0.1	1.62	1.76	555.04	15.73	13.56	52.08	2.12	0.45	<0.5	0.95	<0.1	3.07
L&D 52	938.9	02-Feb-09	<0.1	2395.0	1.32	60.93	34.05	0.13	3.76	6.23	4644.04	25.38	9.89	395.41	8.38	5.97	<0.5	0.59	<0.1	23.86
L&D 52	938.9	11-Mar-09	<0.1	2838.0	1.64	58.9	41.64	<0.1	4.38	4.76	4105.89	13.1	11.88	192.41	6.05	3.63	<0.5	0.74	<0.1	18.98
L&D 52	938.9	19-May-09	<0.1	1388.9	1.53	49.03	33.71	<0.1	3	3.99	2338.42	10.59	9.91	164.9	4.73	2.41	<0.5	<0.5	<0.1	13.66
L&D 52	938.9	21-Jul-09	<0.1	353.96	0.92	47.29	41.99	<0.1	1.58	1.83	534	<1.5	14.11	58.42	1.75	0.53	<0.5	0.87	<0.1	3.74
L&D 52	938.9	16-Sep-09	<0.1	123.57	1.22	37.73	34.07	<0.1	1.38	1.52	201.43	3.63	11.08	48.36	1.46	0.38	<0.5	0.54	<0.1	2.38
L&D 52	938.9	03-Nov-09	<0.1	2104.2	1.35	53.23	45.62	<0.1	2.37	4.22	3030.09	7.38	13.01	162.47	4.65	2.37	<0.5	0.55	<0.1	11.68
L&D 52	938.9	12-Jan-10	<0.1	921.36	0.8	42.05	44.44	<0.1	2.28	2.38	1486.36	4.4	14.13	101.5	2.67	1.37	<0.5	0.58	<0.1	7.11
L&D 52	938.9	25-Mar-10	<0.1	1352.6	1.2	58.22	37.82	<0.1	2.64	4.35	2407.25	8.69	11.67	191.66	6.02	3.47	<0.5	0.66	<0.1	16.36
L&D 52	938.9	12-May-10	<0.1	1945.9	1.31	48.23	36.06	0.13	2.89	3.89	2677.85	6.27	9.61	120.1	5.19	2.28	<0.5	0.6	0.11	11.75
L&D 52	938.9	14-Jul-10	<0.1	484.65	1.23	49.8	50.32	<0.1	2.03	2.22	700.34	1.62	14.88	55.33	2.02	0.64	<0.5	0.57	0.11	3.28
L&D 52	938.9	08-Sep-10	<0.1	484.47	1.33	47.64	37.26	<0.1	2.02	1.75	616.34	3.25	11.99	56.1	2.7	0.52	<0.5	0.92	<0.1	3.27
L&D 52	938.9	03-Nov-10	<0.1	269.35	1	45.72	36.77	<0.1	2	1.56	389.03	<1.5	12.87	53.38	2.37	0.45	<0.5	1.36	<0.1	6.25
L&D 52	938.9	27-Jan-11	<0.1	379.35	0.34	45.93	41.46	<0.1	1.7	1.95	732.86	2.61	12.32	53.5	2.86	0.65	<0.5	0.88	<0.1	4.18
L&D 52	938.9	16-Mar-11	<0.1	1249.5	0.84	46.42	32.69	<0.1	1.79	2.88	1680.67	5.52	8.45	43.73	3.42	1.7	<0.5	0.53	<0.1	10.18
L&D 52	938.9	23-May-11	<0.1	1762.6	1.97	56.95	43.75	0.13	2.9	4.32	2867.03	7.83	11.61	433.58	5.79	4.11	<0.5	0.85	<0.1	15.66
L&D 52	938.9	13-Jul-11	<0.1	917.23	2.22	45.02	33.76	0.12	2.61	3.06	1418.35	3.61	9.73	97.07	3.43	1.4	<0.5	0.68	<0.1	5.94
L&D 52	938.9	28-Sep-11	<0.1	1355	1.75	64.95	45.78	<0.1	2.24	3.34	1897.14	4.02	16.19	127	4.66	1.81	<0.5	0.95	<0.1	11.17
L&D 52	938.9	17-Nov-11	<0.1	1260	1.76	53.36	40.31	0.18	2.88	3.97	2022.95	6.39	12.65	109	5.1	2.03	<0.5	0.85	0.13	10.95
L&D 52	938.9	10-Jan-12	<0.1	1708	1.54	47.44	39.97	<0.1	2.55	3.85	2515.27	7.53	11.98	176	5.04	2.26	<0.5	0.64	<0.1	13.96
L&D 52	938.9	13-Mar-12	<0.1	2140	1.67	52.42	34.85	<0.1	3.4	4.28	3290	9.25	10.47	175	5.52	3.14	<0.5	0.77	<0.1	18.28
L&D 52	938.9	30-May-12	<0.1	411	0.89	38.51	35.06	<0.1	1.23	1.87	369.73	<1.5	10.77	36.96	1.53	0.36	<0.5	0.59	<0.1	4.04
L&D 52	938.9	11-Jul-12	<0.1	131.68	1.51	32.99	26.11	<0.1	0.39	1.16	174.82	<1.5	8.8	56.3	1.04	0.21	<0.5	<0.5	<0.1	5.18
L&D 52	938.9	12-Sep-12	<0.1	230	1.34	50.97	38.23	<0.1	0.34	2.19	329.65	<1.5	13.67	54.6	2.34	0.46	<0.5	1.45	<0.1	4.68
L&D 52	938.9	15-Nov-12	<0.1	351.04	0.94	61.89	46.18	<0.1	0.37	2.53	560.51	<1.5	16.44	39.65	2.76	0.55	<0.5	0.96	<0.1	5.7
L&D 52	938.9	30-Jan-13	<0.1	4680	2.04	79.75	34.26	0.21	6.5	7.46	6407.43	17.24	10.21	285	9.78	6.31	<0.5	0.72	<0.1	42.2
L&D 52	938.9	27-Mar-13	<0.1	2980	1.79	64.73	36.5	0.21	4.36	6.03	5007.51		10.76	281	8.26	6.31	<0.5	0.58	0.13	27.4
L&D 52	938.9	21-May-13	<0.1	1220	1.56	49.92	41.72	<0.1	1.95	3.35	1750.92	8.96	12.16	98.6	3.57	1.67	<0.5	0.74	<0.1	9.35

Appendix D:

Bimonthly Sampling

Results

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
New Cumberland	Ohio	54.4	16-Jul-08	18.1	28.0		148	0.31	0.80	<5	76.0		0.56	4.5	0.02	9.5		28.0	
New Cumberland	Ohio	54.4	24-Sep-08	3.9	40.0		136	0.07	0.77	<5	146		0.43	2.9	0.03	3.2		28.5	520
New Cumberland	Ohio	54.4	12-Nov-08	9.0	52.0	<0.005	148	0.12	0.92	<5	68.0		0.51	2.5	0.05	5.8		15.0	530
New Cumberland	Ohio	54.4	09-Feb-09	66.4	50.0	<0.005	120	0.17	1.1	<5	80.0		0.53	3.6	0.12	36.0		5.0	420
New Cumberland	Ohio	54.4	16-Mar-09	62.7	22.0	<0.005	68.0	0.09	0.70	<5	34.0		0.44	2.9	0.08	24.5		7.5	210
New Cumberland	Ohio	54.4	18-May-09	27.3	26.0		104	0.07	0.53	<5	74.0		0.35	2.2	0.04	7.2		19.5	300
New Cumberland	Ohio	54.4	15-Jul-09	12.0	32.0		108	0.06	0.57	<5	92.0		0.13	2.8	0.03	7.1		27.5	370
New Cumberland	Ohio	54.4	08-Sep-09	9.8	30.0		88.0	0.06	0.79	<5	60.0		0.54	3.7	0.04	4.4		26.0	350
New Cumberland	Ohio	54.4	16-Nov-09	13.1	26.0	<0.005	88.0	<0.03	0.67	<5	51.0		0.47	3.1	0.02	2.6		14.0	300
New Cumberland	Ohio	54.4	18-Jan-10	49.7	54.0	<0.005	128	0.17	0.98	<5	70.0		0.42	1.9	0.06	4.6		3.0	400
New Cumberland	Ohio	54.4	17-Mar-10	129	26.0	<0.005	72.0	0.05	0.81	<5	42.0		0.61	3.2	0.09	26.6		7.0	240
New Cumberland	Ohio	54.4	12-May-10	36.5	32.0		100.0	0.04	0.62	<5	66.0		0.50	3.1	0.07	4.9		19.0	340
New Cumberland	Ohio	54.4	20-Jul-10	7.8	54.0		148	0.08	0.82	<5	94.6		0.49	3.1	0.09	5.7		31.0	520
New Cumberland	Ohio	54.4	23-Sep-10	13.0	62.0		156	0.07	1.1	<5	87.8		1.1	3.3	0.08	5.4		28.0	560
New Cumberland	Ohio	54.4	02-Nov-10	16.9	46.0	<0.005	136	0.07	1.1	<5	90.2		0.24	4.5	0.06	3.3		18.0	480
New Cumberland	Ohio	54.4	18-Jan-11		48.0	<0.005	92.0	0.13	0.78	<5	57.0		0.59	2.5	0.06	4.4		3.5	340
New Cumberland	Ohio	54.4	21-Mar-11		24.0	<0.005	76.0	0.05	0.68	<5	47.9		0.61	1.8	0.04	11.5		8.5	240
New Cumberland	Ohio	54.4	26-May-11		18.0		92.0	<0.03	0.49	<5	49.7		0.42	3.5	0.07	10.3		19.0	250
New Cumberland	Ohio	54.4	21-Jul-11		42.1		136	0.05	0.92	<5	126	280	0.42	2.7	0.03	3.0		33.0	530
New Cumberland	Ohio	54.4	08-Sep-11		32.0		151	0.03	0.89	<5	108	320	0.12	2.6	0.03	23.0		24.5	490
New Cumberland	Ohio	54.4	16-Nov-11		27.5	<5	113	0.08	1.0	<5	49.7	200	0.22	2.5	0.05	7.0	7.3	12.0	258
New Cumberland	Ohio	54.4	09-Jan-12		24.9		92.8	0.11	0.79	R	73.0	168	0.19	1.9	0.02	<5	7.0	6.6	286
New Cumberland	Ohio	54.4	08-Mar-12		22.4	<0.005	79.4	<0.03	0.72	R	56.5	152	0.14	2.0	0.18	15.0	7.5	8.3	225
New Cumberland	Ohio	54.4	15-May-12		20.9		81.0	<0.03	0.62	<10	56.5	134	<0.1	2.3	0.03	<5			
New Cumberland	Ohio	54.4	23-Jul-12		50.4		135	0.05	1.1	<10	110	248	0.30	2.7	0.05	<5	7.1	30.3	463
New Cumberland	Ohio	54.4	19-Sep-12		47.0		135	<0.03	1.0	<10	100	R	0.12	2.6	0.04	6.0	7.0	22.4	457
New Cumberland	Ohio	54.4	20-Nov-12		20.5		84.6	0.06	0.71	<10	59.2	131	0.12	2.5	<0.01	<5	7.0	9.5	264
New Cumberland	Ohio	54.4	09-Jan-13		44.7	<0.005	107	0.12	0.82	<10	75.6	185	<0.1	2.1	0.02	8.0	7.1	3.3	371
New Cumberland	Ohio	54.4	20-Mar-13		42.9	<0.005	96.2	<0.03	0.77	<10	55.2	176	0.44	2.3	<0.01	13.0	6.7	5.1	339
New Cumberland	Ohio	54.4	14-May-13		29.8		104	<0.03	0.63	<10	102	197	0.29	1.9	0.02	8.0	6.3	18.8	357
Pike Island	Ohio	84.2	16-Jul-08	19.3	22.0		176	0.18	0.66	<5	112		0.64	4.4	0.08	6.5		27.0	470
Pike Island	Ohio	84.2	24-Sep-08	7.2	42.0		144	0.06	1.2	<5	#		0.32	2.9	0.04	2.8			
Pike Island	Ohio	84.2	12-Nov-08	8.0	48.0	<0.005	156	0.12	1.2	<5	64.0		0.30	2.7	0.07	2.3		14.0	550
Pike Island	Ohio	84.2	09-Feb-09	63.9	52.0	<0.005	124	0.17	0.93	<5	76.0		0.53	2.2	0.10	45.1		2.0	
Pike Island	Ohio	84.2	16-Mar-09	61.9	26.0	<0.005	60.0	0.09	0.64	<5	24.0		0.45	2.9	0.09	22.5		6.0	210
Pike Island	Ohio	84.2	18-May-09	30.2	24.0		104	0.06	0.51	<5	84.0		0.38	2.2	0.04	5.4		17.5	300
Pike Island	Ohio	84.2	15-Jul-09	11.4	28.0		116	0.05	0.73	<5	84.0		0.21	3.0	0.03	5.1		26.0	380
Pike Island	Ohio	84.2	08-Sep-09	7.9	40.0		128	0.06	0.88	<5	70.0		0.51	3.5	0.04	3.8		25.0	400
Pike Island	Ohio	84.2	16-Nov-09	13.7	22.0	<0.005	88.0	0.07	0.62	<5	50.0		0.57	3.1	0.05	3.4		12.0	300
Pike Island	Ohio	84.2	18-Jan-10	41.5	54.0	<0.005	120	0.18	0.92	<5	69.0		0.52	2.3	0.10	22.6		2.0	420
Pike Island	Ohio	84.2	17-Mar-10	125	26.0	<0.005	72.0	0.06	0.76	<5	43.0		0.64	3.2	0.15	52.7		7.0	240
Pike Island	Ohio	84.2	12-May-10	34.9	36.0		116	0.03	0.67	<5	76.0		0.36	2.7	0.06	5.5		17.0	360
Pike Island	Ohio	84.2	20-Jul-10	9.1	54.0		160	0.10	0.79	<5	98.0		0.48	2.8	0.13	7.3		29.5	530
Pike Island	Ohio	84.2	23-Sep-10	7.7	62.0		160	0.06	1.1	<5	92.0		0.47	3.2	0.08	7.0		25.0	600
Pike Island	Ohio	84.2	02-Nov-10	14.3	48.0	<0.005	152	0.07	1.1	<5	105		0.43	3.7	0.05	4.5		14.0	520
Pike Island	Ohio	84.2	18-Jan-11	18.5	36.0	<0.005	92.0	0.14	0.75	<5	58.2		0.73	2.8	0.07	5.9		1.0	320
Pike Island	Ohio	84.2	21-Mar-11	99.8	22.0	<0.005	76.0	0.05	0.71	<5	47.6		0.40	1.7	0.04	20.5		8.0	240

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
Pike Island	Ohio	84.2	26-May-11	69.8	20.0		92.0	<0.03	0.49	<5	51.0		0.45	3.1	0.03	10.0		18.0	250
Pike Island	Ohio	84.2	21-Jul-11	10.2			144	<0.03	0.92	<5			0.31	2.5	0.02			30.5	520
Pike Island	Ohio	84.2	08-Sep-11	83.1	40.1		147	0.07	0.93	<5	92.7	320	0.16	2.5	0.04	31.0		24.5	480
Pike Island	Ohio	84.2	16-Nov-11	61.3	23.7	<5	113	0.06	0.91	<5	48.2	170	0.19	2.5	0.03	10.0	7.3	13.1	252
Pike Island	Ohio	84.2	09-Jan-12	42.6	23.7		93.8	0.11	0.74	R	61.8	172	0.19	1.8	<0.01	12.0	7.1	4.6	291
Pike Island	Ohio	84.2	08-Mar-12	70.4	21.2	<0.005	77.6	<0.03	0.70	R	56.0	152	0.15	2.0	0.03	14.0	7.6	8.8	224
Pike Island	Ohio	84.2	15-May-12	46.5	18.9		81.3	<0.03	0.63	<10	64.5	123	<0.1	2.3	<0.01	<5			
Pike Island	Ohio	84.2	23-Jul-12	14.0	48.7		140	0.05	0.95	<10	130	268	0.38	2.6	0.03	6.0	7.2	28.3	483
Pike Island	Ohio	84.2	19-Sep-12	12.5	48.8		144	0.05	1.2	<10	102	277	<0.1	2.6	0.04	<5	7.0	22.2	478
Pike Island	Ohio	84.2	20-Nov-12	22.1	20.0		89.7	0.05	0.75	<10	68.0	159	<0.1	2.5	<0.01	6.0	7.1	8.8	284
Pike Island	Ohio	84.2	09-Jan-13	26.6	48.7	<0.005	110	<0.03	0.78	<10	79.0	199	<0.1	2.1	0.02	<5	7.3	5.9	349
Pike Island	Ohio	84.2	20-Mar-13	68.8	31.0	<0.005	90.5	<0.03	0.71	<10	56.2	137	0.38	2.0	<0.01	<5	6.8	4.9	294
Pike Island	Ohio	84.2	14-May-13	42.3	30.7		121	<0.03	0.67	<10	117	234	0.22	1.8	0.03	9.0	6.4	16.4	401
Hannibal	Ohio	126.4	17-Jul-08	17.9	28.0		104	0.05	0.61	<5	110		0.36	4.2	<0.01	5.2		27.0	470
Hannibal	Ohio	126.4	17-Sep-08	15.1	52.0		156	0.15	1.0	<5	104		0.59	5.7	0.02	5.2		25.0	550
Hannibal	Ohio	126.4	19-Nov-08	19.5	56.0	<0.005	156	0.14	1.3	<5	134		0.37	2.5	0.04	4.9		12.0	580
Hannibal	Ohio	126.4	10-Feb-09	73.3	56.0	<0.005	132	0.18	0.92	<5	72.0		0.39	2.3	0.09	19.0		3.0	440
Hannibal	Ohio	126.4	10-Mar-09	109	34.0	<0.005	96.0	0.20	0.95	<5	74.0		0.51	2.2	0.07	24.3		6.0	320
Hannibal	Ohio	126.4	19-May-09	27.9	26.0		108	0.07	0.50	<5	86.0		0.46	2.2	0.04	10.2		17.5	330
Hannibal	Ohio	126.4	22-Jul-09	10.5	36.0		140	0.09	0.73	<5	110		0.45	2.8	0.03	4.4		26.0	420
Hannibal	Ohio	126.4	15-Sep-09	7.9	48.0		118	0.08	0.77	<5	78.0		0.55	3.6	0.04	4.5		24.0	460
Hannibal	Ohio	126.4	12-Nov-09	13.9	28.0	<0.005	92.0	0.06	0.52	<5	63.0		0.51	2.9	0.03	6.3		12.0	330
Hannibal	Ohio	126.4	20-Jan-10	71.7	52.0	<0.005	120	0.17	1.0	<5	72.0		0.28	2.2	0.07	16.0		2.0	420
Hannibal	Ohio	126.4	18-Mar-10	122	26.0	<0.005	76.0	0.05	0.79	<5	44.0		0.56	3.0	0.10	35.1		7.0	240
Hannibal	Ohio	126.4	19-May-10	67.3	24.0		60.0	0.03	0.54	<5	64.0		0.76	2.8	0.08	45.8		16.0	310
Hannibal	Ohio	126.4	21-Jul-10	12.3	62.0		164	0.07	0.81	<5	106		0.50	2.9	0.13	5.2			
Hannibal	Ohio	126.4	14-Sep-10	9.6	66.0		156	0.03	0.80	<5	116		0.44	3.1	0.02	5.2			
Hannibal	Ohio	126.4	08-Nov-10	16.3	50.0	<0.005	148	0.05	1.1	<5	104		0.57	3.3	0.04	4.7		13.0	530
Hannibal	Ohio	126.4	25-Jan-11	18.3	54.0	<0.005	104	0.14	0.95	<5	61.0		0.51	3.1	0.06	5.3		1.0	400
Hannibal	Ohio	126.4	29-Mar-11	73.0	24.0	<0.005	80.0	0.07	0.57	<5	54.5		0.44	1.9	0.04	12.8			
Hannibal	Ohio	126.4	24-May-11	74.2	18.0		100.0	0.04	0.49	<5	54.5		0.59	2.6	0.03	21.0		17.0	260
Hannibal	Ohio	126.4	19-Jul-11	8.8	45.2		143	0.06	0.67	<5	127	300	0.29	2.5	0.02	16.0		28.0	550
Hannibal	Ohio	126.4	14-Sep-11	29.4	23.3		111	0.02	1.0	<5	80.2	220	0.13	3.0	0.02	4.0		23.0	390
Hannibal	Ohio	126.4	09-Nov-11	25.7	22.2		97.0	0.04	0.85	<5	49.6	170	<0.1	2.5	0.03	6.0	7.1	14.5	238
Hannibal	Ohio	126.4	10-Jan-12	39.7	25.2		98.5	0.10	0.78	R	57.8	194	0.18	1.8	0.02	<5	7.1	6.8	284
Hannibal	Ohio	126.4	12-Mar-12	61.7	33.4	<0.005	98.0	<0.03	0.75	R	68.5	198	0.19	2.0	0.05	8.0	7.5	7.9	294
Hannibal	Ohio	126.4	16-May-12	45.6	19.7		84.5	<0.03	0.63	<10	69.2	135	<0.1	2.2	0.03	10.0	7.3	21.1	268
Hannibal	Ohio	126.4	24-Jul-12		54.2		139	0.04	0.97	<10	144	281	0.33	2.7	0.01	<5	7.4	29.6	515
Hannibal	Ohio	126.4	27-Sep-12	9.3	59.8		150	0.05	1.1	<10	120	306	<0.1	2.6	0.03	7.0	7.1	22.5	526
Hannibal	Ohio	126.4	19-Nov-12	20.6	28.3		93.3	0.05	0.90	<10	67.0	187	<0.1	3.0	<0.01	<5			
Hannibal	Ohio	126.4	14-Jan-13	99.6	48.5	<0.005	122	0.04	0.94	<10	85.9	216	0.33	2.1	0.07	19.0	6.9	5.5	394
Hannibal	Ohio	126.4	19-Mar-13	62.5	32.0	<0.005	107	<0.03	0.67	<10	70.6	207	0.41	1.9	<0.01	5.0	6.7	5.9	340
Hannibal	Ohio	126.4	21-May-13	20.6	28.7		117	<0.03	0.28	<10	103	202	0.29	1.7	<0.01	7.0	7.7	23.0	363
Willow Island	Ohio	161.8	17-Jul-08	18.4	26.0		164	0.04	0.59	<5	130		0.62	3.6	0.02	8.0			480
Willow Island	Ohio	161.8	08-Sep-08	6.4	40.0		96.0	0.10	0.73	<5	96.0		0.70	3.6	<0.01	2.8		26.5	480
Willow Island	Ohio	161.8	19-Nov-08	19.7	64.0	<0.005	156	0.08	1.3	<5	134		0.27	2.2	0.06	3.1		11.0	580
Willow Island	Ohio	161.8	10-Feb-09	75.7	56.0	<0.005	132	0.19	0.87	<5	72.0		0.42	2.3	0.08	29.0		3.0	470

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
Willow Island	Ohio	161.8	10-Mar-09	102	34.0	<0.005	100.0	0.20	0.98	<5	72.0		0.53	2.3	0.17	26.7		6.0	320
Willow Island	Ohio	161.8	19-May-09	29.4	30.0		100.0	0.06	0.50	<5	76.0		0.42	2.2	0.02	8.0		18.0	310
Willow Island	Ohio	161.8	22-Jul-09	10.6	40.0		128	0.09	0.81	<5	110		0.44	3.0	0.03	6.3		25.5	430
Willow Island	Ohio	161.8	15-Sep-09	8.0	35.0		96.0	0.06	0.63	<5	62.0		0.42	3.7	0.04	6.2		25.0	360
Willow Island	Ohio	161.8	12-Nov-09	16.9	28.0	<0.005	104	0.06	0.52	<5	69.0		0.47	2.9	0.03	5.8		12.0	360
Willow Island	Ohio	161.8	20-Jan-10	73.1	56.0	<0.005	116	0.15	0.98	<5	68.0		0.41	2.2	0.20	27.6		2.0	420
Willow Island	Ohio	161.8	18-Mar-10	126	28.0	<0.005	80.0	0.05	0.81	<5	43.0		0.57	3.0	0.10	34.0		7.0	260
Willow Island	Ohio	161.8	19-May-10	78.4	24.0		100.0	<0.03	0.55	<5	65.0		1.1	2.9	0.05	28.8		17.0	310
Willow Island	Ohio	161.8	27-Jul-10	18.2	54.0		172	<0.03	0.67	<5	106		0.53	3.3	0.03	8.0		30.0	560
Willow Island	Ohio	161.8	27-Sep-10	7.0	70.0		172	0.03	0.89	<5	115		0.41	3.2	0.02	5.2		23.5	650
Willow Island	Ohio	161.8	08-Nov-10	21.3	56.0	<0.005	144	0.04	0.94	<5	107		0.54	3.1	0.08	4.0		13.0	560
Willow Island	Ohio	161.8	25-Jan-11	19.9	40.0	<0.005	96.0	0.14	0.85	<5	63.4		0.49	3.0	0.05	3.6		1.0	350
Willow Island	Ohio	161.8	22-Mar-11	100.0	22.0	<0.005	80.0	0.05	0.67	<5	49.8		0.63	1.9	0.07	20.7		8.0	250
Willow Island	Ohio	161.8	24-May-11	75.0	18.0		88.0	0.03	0.53	<5	52.1		0.67	2.9	0.04	23.1		17.0	260
Willow Island	Ohio	161.8	19-Jul-11	27.2	43.8		142	0.05	0.76	<5	120	290	0.25	2.6	0.02	8.0		29.0	520
Willow Island	Ohio	161.8	14-Sep-11	27.2	31.9		134	0.02	1.0	<5	108	290	0.09	2.6	0.02	5.0		24.0	480
Willow Island	Ohio	161.8	09-Nov-11	26.5	24.3		97.0	0.02	0.80	<5	48.3	180	<0.1	2.5	0.04	7.0	7.3	13.1	234
Willow Island	Ohio	161.8	10-Jan-12	41.0	24.8		96.3	0.10	0.75	R	51.5	191	0.18	1.9	0.01	<5	7.1	4.9	282
Willow Island	Ohio	161.8	12-Mar-12	64.5	21.2	<0.005	89.7	<0.03	0.72	R	65.0	172	0.30	1.9	0.01	14.0	7.4	7.7	250
Willow Island	Ohio	161.8	16-May-12	46.8	21.0		82.6	<0.03	0.62	<10	73.8	143	<0.1	2.2	0.03	9.0	7.3	20.6	267
Willow Island	Ohio	161.8	24-Jul-12		52.0		134	<0.03	0.87	<10	136	269	0.20	2.5	0.01	6.0	7.0	29.3	483
Willow Island	Ohio	161.8	27-Sep-12	9.5	54.8		141	0.07	1.1	<10	116	288	<0.1	2.8	0.01	<5	6.9	22.5	500
Willow Island	Ohio	161.8	19-Nov-12	20.9	23.2		89.7	0.04	0.92	<10	59.5	176	0.12	3.6	<0.01	5.0			
Willow Island	Ohio	161.8	14-Jan-13	102	52.4	<0.005	118	<0.03	0.86	<10	84.5	198	<0.1	2.0	0.06	20.0	6.8	4.8	380
Willow Island	Ohio	161.8	19-Mar-13	71.0	35.8	<0.005	109	<0.03	0.65	<10	70.7	209	0.45	1.8	<0.01	6.0	6.7	6.2	355
Willow Island	Ohio	161.8	21-May-13	21.0	30.7		120	<0.03	0.61	<10	96.6	207	0.24	1.9	<0.01	5.0	7.8	21.8	380
Belleville	Ohio	203.9	23-Jul-08	25.2	30.0		160	0.11	0.77	<5	106		0.53	3.9	0.03	8.5		28.5	510
Belleville	Ohio	203.9	08-Sep-08	8.2	48.0		144	0.10	0.58	<5	120		0.57	3.4	<0.01	1.5		28.0	490
Belleville	Ohio	203.9	13-Nov-08	10.3	56.0	<0.005	176	0.09	1.2	<5	70.0		0.21	2.2	0.05	3.7		13.5	620
Belleville	Ohio	203.9	22-Jan-09	31.8	36.0	<0.005	116	0.11	0.84	<5	76.0		0.48	3.0	0.05	9.3		2.0	360
Belleville	Ohio	203.9	09-Mar-09	70.4	48.0	<0.005	124	0.13	0.92	<5	60.0		0.48	2.3	0.06	18.4		7.0	380
Belleville	Ohio	203.9	13-May-09	71.3	18.0		108	0.03	0.58	<5	68.0		0.33	2.9	0.07	22.0		17.0	320
Belleville	Ohio	203.9	13-Jul-09	12.2	40.0		132	0.09	0.78	<5	130		0.57	2.9	0.04	5.8		26.0	430
Belleville	Ohio	203.9	09-Sep-09	11.1	38.0		120	0.12	0.65	<5	74.0		0.56	4.0	0.06	5.2		25.0	400
Belleville	Ohio	203.9	09-Nov-09	25.5	36.0	<0.005	128	0.06	0.74	<5	88.0		0.51	3.2	0.22	5.7		12.0	400
Belleville	Ohio	203.9	19-Jan-10	107	38.0	<0.005	120	0.10	0.84	<5	68.0		0.46	3.2	0.14	62.7		2.0	370
Belleville	Ohio	203.9	24-Mar-10	142	24.0	<0.005	100.0	0.04	0.81	<5	56.0		0.68	3.9	0.58	76.7		9.0	290
Belleville	Ohio	203.9	13-May-10		30.0		148	<0.03	0.49	<5	120		0.59	2.8	0.07	15.6		19.0	420
Belleville	Ohio	203.9	22-Jul-10	17.3	40.0		148	0.06	0.56	<5	80.0		0.63	3.6	0.11	9.2		28.0	460
Belleville	Ohio	203.9	29-Sep-10	12.8	68.0		168	0.06	0.73	<5	115		0.26	3.5	0.03	5.1		23.5	630
Belleville	Ohio	203.9	17-Nov-10	14.9	58.0	<0.005	164	0.04	1.0	<5	105		0.29	3.5	0.12	3.0		12.0	550
Belleville	Ohio	203.9	02-Feb-11	47.5	52.0	<0.005	132	0.14	0.94	<5	70.4		0.62	3.3	0.06	7.6		1.0	400
Belleville	Ohio	203.9	28-Mar-11	124	26.0	<0.005	104	0.06	0.82	<5	57.3		0.55	1.9	0.09	34.0		9.0	310
Belleville	Ohio	203.9	25-May-11	96.5	20.0		112	<0.03	0.61	<5	56.8		0.66	3.6	0.08	44.9		19.0	310
Belleville	Ohio	203.9	26-Jul-11	35.4	48.0		164	0.14	0.57	<5	122	330	0.27	3.0	0.04	8.0		30.0	530
Belleville	Ohio	203.9	12-Sep-11	46.9	44.8		147	0.03	1.3	<5	77.3	270	0.18	3.2	0.03	16.0		25.0	490
Belleville	Ohio	203.9	14-Nov-11	25.6	25.5	<5	125	0.05	0.94	<5	54.4	180	0.24	2.7	0.04	3.0	7.4	13.5	360

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
Belleville	Ohio	203.9	24-Jan-12	129	26.5		109	0.99	0.82	R	61.5	189	0.23	2.1	0.04	30.0			
Belleville	Ohio	203.9	14-Mar-12	82.5	31.4	<0.005	120	<0.03	0.90	R	74.0	206	0.15	2.6	0.03	11.0	7.6	11.4	320
Belleville	Ohio	203.9	21-May-12	24.9	22.1		97.5	<0.03	0.72	<10	78.5	182	0.23	2.2	0.01	5.0	7.4	21.6	298
Belleville	Ohio	203.9	18-Jul-12	12.0	60.4		145	0.05	0.80	<10	127	300	0.32	2.5	0.04	<5	7.1	30.2	518
Belleville	Ohio	203.9	17-Sep-12	8.1	58.4		145	<0.03	0.78	<10	106	326	0.20	2.8	0.01	<5			
Belleville	Ohio	203.9	13-Nov-12	42.3	23.8		103	0.05	1.1	<10	56.8	183	<0.1	4.3	0.03	6.0	7.0	10.6	309
Belleville	Ohio	203.9	17-Jan-13	132	64.7	<0.005	118	<0.03	1.1	<10	80.9	213	0.18	2.6	0.07	43.0	6.6	4.6	356
Belleville	Ohio	203.9	27-Mar-13	74.8	38.3	<0.005	110	<0.03	0.76	<10	57.0	210	0.33	2.4	<0.01	10.0	6.6	5.4	252
Belleville	Ohio	203.9	16-May-13	40.6	32.7		125	<0.03	0.65	<10	82.1	216	0.35	2.2	<0.01	<5	6.5	19.2	391
R.C. Byrd	Ohio	279.2	23-Jul-08	29.1	20.0		116	0.10	0.72	<5	58.0		0.59	4.4	0.07	23.0		28.0	400
R.C. Byrd	Ohio	279.2	17-Sep-08	23.6	40.0		136	0.19	0.73	<5	98.0		0.47	5.8	0.17	7.8		26.5	460
R.C. Byrd	Ohio	279.2	13-Nov-08	13.1	52.0	<0.005	164	0.08	1.1	<5	76.0		0.30	2.2	0.05	14.2		14.0	540
R.C. Byrd	Ohio	279.2	22-Jan-09	45.1	30.0	<0.005	104	0.12	0.74	<5	62.0		0.33	2.7	0.04	11.7		2.0	300
R.C. Byrd	Ohio	279.2	09-Mar-09	72.9	38.0	<0.005	116	0.10	0.79	<5	60.0		0.46	2.3	0.06	8.6		7.0	330
R.C. Byrd	Ohio	279.2	13-May-09	120	8.0		64.0	<0.03	0.43	<5	32.0		0.38	2.9	0.06	24.8		17.0	160
R.C. Byrd	Ohio	279.2	13-Jul-09	19.6	44.0		124	0.07	0.87	<5	90.0		0.52	3.3	0.05	20.0		26.5	410
R.C. Byrd	Ohio	279.2	09-Sep-09	15.3	32.0		140	0.05	0.56	<5	76.0		0.46	3.0	0.04	6.6		27.0	410
R.C. Byrd	Ohio	279.2	09-Nov-09	44.1	34.0	<0.005	120	0.04	0.79	<5	90.0		0.49	2.7	0.07	16.8		13.0	390
R.C. Byrd	Ohio	279.2	19-Jan-10	183	18.0	<0.005	88.0	0.06	0.86	<5	44.0		0.43	2.5	0.09	36.2		3.0	260
R.C. Byrd	Ohio	279.2	24-Mar-10	199	14.0	<0.005	72.0	0.04	0.74	<5	39.0		0.50	2.4	0.08	37.3		10.0	200
R.C. Byrd	Ohio	279.2	13-May-10		24.0		120	0.04	0.45	<5	82.0		0.80	3.2	0.11	31.2		19.0	340
R.C. Byrd	Ohio	279.2	22-Jul-10	58.1	34.0		144	0.06	0.63	<5	82.4		0.88	3.2	0.15	30.7		29.0	440
R.C. Byrd	Ohio	279.2	29-Sep-10	16.4	50.0		152	0.04	0.66	<5	102		0.30	3.3	0.03	8.7		23.5	540
R.C. Byrd	Ohio	279.2	17-Nov-10	31.9	46.0	<0.005	152	0.03	0.79	<5	103		0.38	3.7	0.04	15.4		12.5	500
R.C. Byrd	Ohio	279.2	02-Feb-11	69.1	34.0	<0.005	100.0	0.10	0.83	<5	54.0		0.72	2.7	0.08	20.9		2.0	310
R.C. Byrd	Ohio	279.2	28-Mar-11	172	14.0	<0.005	72.0	0.05	0.61	<5	42.0		0.41	1.5	0.05	22.6		9.0	200
R.C. Byrd	Ohio	279.2	25-May-11	127	14.0		84.0	0.03	0.53	<5	44.4		0.62	3.0	0.05	24.6		18.0	230
R.C. Byrd	Ohio	279.2	26-Jul-11	40.0	36.5		151	0.08	0.71	<5	116	270	0.19	2.8	0.03	7.0		31.0	500
R.C. Byrd	Ohio	279.2	12-Sep-11	55.3	38.0		130	<0.03	1.0	<5	68.0	260	0.14	2.8	0.04	23.0		27.0	470
R.C. Byrd	Ohio	279.2	14-Nov-11	33.5	20.4	<5	109	0.05	0.83	<5	46.4	160	0.19	2.4	0.05	15.0	7.5	15.7	260
R.C. Byrd	Ohio	279.2	24-Jan-12	164	15.4		69.6	<0.03	0.67	R	42.0	120	0.28	1.6	0.06	29.0			
R.C. Byrd	Ohio	279.2	14-Mar-12	113	17.6	<0.005	89.2	<0.03	0.75	R	57.5	152	0.10	1.9	0.03	18.0	7.6	10.8	237
R.C. Byrd	Ohio	279.2	21-May-12	41.3	14.7		78.6	<0.03	0.59	<10	50.0	138	<0.1	2.0	0.02	13.0	7.4	23.8	231
R.C. Byrd	Ohio	279.2	18-Jul-12	17.2	34.9		128	<0.03	0.47	<10	#	222	0.40	2.2	0.03	<5	7.1	30.4	413
R.C. Byrd	Ohio	279.2	17-Sep-12	12.1	45.0		141	<0.03	0.51	<10	104	276	<0.1	2.6	<0.01	13.0			
R.C. Byrd	Ohio	279.2	13-Nov-12	54.9	23.3		101	0.05	0.95	<10	57.8	182	<0.1	3.5	0.03	5.0	7.0	10.4	305
R.C. Byrd	Ohio	279.2	17-Jan-13	218	15.0	<0.005	71.5	<0.03	0.62	<10	32.1	112	0.23	2.0	0.03	79.0	6.8	6.0	202
R.C. Byrd	Ohio	279.2	27-Mar-13	118	20.8	<0.005	81.6	<0.03	0.66	<10	43.1	166	0.52	2.0	0.02	28.0	6.7	5.3	357
R.C. Byrd	Ohio	279.2	16-May-13	66.5	20.0		87.7	<0.03	0.53	<10	46.1	154	0.33	2.0	0.04	13.0	6.6	19.2	277
Greenup	Ohio	341	21-Jul-08	16.2	20.0		136	0.57	0.68	<5	74.0		1.2	3.8	0.03	6.4			
Greenup	Ohio	341	25-Sep-08	13.4	48.0		156	0.05	0.62	<5	124		0.42	3.2	0.04	12.6			
Greenup	Ohio	341	05-Nov-08	16.5	52.0		152	0.04	0.98	<5	116		0.66	3.1	0.09	29.0			
Greenup	Ohio	341	22-Jan-09	52.1	26.0		100.0	0.08	0.74	<5	68.0		0.36	2.8	0.03	11.2			
Greenup	Ohio	341	09-Mar-09	69.6	32.0		104	0.08	0.88	<5	84.0		0.44	2.1	0.06	9.7			
Greenup	Ohio	341	28-May-09	82.1	22.0		104	0.07	0.55	<5	68.0		0.45	2.6	0.03	15.0			
Greenup	Ohio	341	15-Jul-09	22.8	28.0		144	0.10	0.88	<5	66.0		0.56	3.5	0.06	11.8			
Greenup	Ohio	341	28-Sep-09	40.4	26.0		132	0.08	0.71	<5	84.0		0.73	3.6	0.10	18.4			

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
Greenup	Ohio	341	09-Nov-09	50.0	34.0		120	0.07	0.74	<5	82.0		0.44	2.6	0.05	13.0			
Greenup	Ohio	341	13-Jan-10	41.2	26.0		104	0.07	0.88	<5	62.0		0.34	2.1	0.04	4.6			
Greenup	Ohio	341	24-Mar-10	191	20.0		84.0	0.04	0.83	<5	52.0		0.64	2.9	0.33	42.5			
Greenup	Ohio	341	19-May-10	204	20.0		112	<0.03	0.57	<5	78.0		0.71	3.1	0.13	125			
Greenup	Ohio	341	29-Jul-10	26.2	28.0		136	<0.03	0.55	<5	63.4		0.76	3.7	0.05	7.0			
Greenup	Ohio	341	27-Sep-10	13.7	50.0		168	<0.03	0.60	<5	91.5		0.37	2.8	0.03	10.0			
Greenup	Ohio	341	18-Nov-10	29.2	48.0		164	0.03	0.80	<5	118		0.25	3.1	0.04	5.8			
Greenup	Ohio	341	10-Jan-11	69.1	32.0		108	0.08	0.82	<5	63.3		0.67	2.9	0.06	14.2			
Greenup	Ohio	341	08-Mar-11	328	18.0		84.0	0.06	0.76	<5	48.2		1.3	3.4	0.21	133			
Greenup	Ohio	341	11-May-11	183	14.0		124	0.05	0.45	<5	54.4		1.1	5.2	0.35	325			
Greenup	Ohio	341	27-Jul-11	47.9	33.1		147	<0.03	0.68	<5	114	310	0.34	2.7	0.03	8.0			
Greenup	Ohio	341	15-Sep-11	45.1	40.7		145	<0.03	1.2	<5	86.3	270	0.10	2.9	0.04	10.0	8.4	19.1	210
Greenup	Ohio	341	08-Nov-11	57.3	21.8		122	0.03	0.70	<5	62.5	200	<0.1	2.6	0.04	18.0	8.7	13.1	170
Greenup	Ohio	341	05-Jan-12	118	16.2		102	0.10	0.75	R	57.0	172	0.23	2.0	0.02	23.0	9.3	5.3	284
Greenup	Ohio	341	07-Mar-12	210	14.2		84.8	<0.03	0.62	R	69.5	145	0.34	2.0	0.03	63.0	9.4	10.2	757
Greenup	Ohio	341	17-May-12	119	16.7		98.3	<0.03	0.93	<10	70.0	173	0.33	2.1	0.03	30.0			
Greenup	Ohio	341	09-Jul-12	16.5	34.4		127	0.07	0.50	<10	120	245	0.42	2.2	0.02	<5			
Greenup	Ohio	341	24-Sep-12	30.4	38.0		144	0.04	0.51	<10	120	275	<0.1	2.4	<0.01	5.0			
Greenup	Ohio	341	08-Nov-12	91.5	25.3		119	0.03	0.94	<10	74.2	218	0.14	3.4	0.06	33.0	7.0	11.2	177
Greenup	Ohio	341	07-Jan-13	69.1	73.6		103	<0.03	0.83	<10	78.5	266	<0.1	2.1	<0.01	6.0	5.4	5.9	102
Greenup	Ohio	341	27-Mar-13	139	17.8		97.5	<0.03	0.56	<10	57.5	185	0.15	2.2	0.03	19.0			
Greenup	Ohio	341	30-May-13	40.2	20.3		113	<0.03	0.57	<10	66.9	173	0.70	1.9	<0.01	<5			
Meldahl	Ohio	436.2	21-Jul-08	26.8	22.0		140	0.36	0.88	<5	70.0		0.90	3.8	0.02	7.0			
Meldahl	Ohio	436.2	25-Sep-08	15.7	30.0		148	0.06	0.68	<5	132		0.37	2.9	0.02	4.8			
Meldahl	Ohio	436.2	05-Nov-08	17.9	50.0		172	0.05	0.86	<5	124		0.21	2.4	0.03	2.8			
Meldahl	Ohio	436.2	22-Jan-09	58.1	28.0		112	0.10	0.75	<5	62.0		0.44	2.9	0.05	15.5			
Meldahl	Ohio	436.2	09-Mar-09	68.7	32.0		116	0.06	1.1	<5	74.0		0.32	2.1	0.06	8.3			
Meldahl	Ohio	436.2	28-May-09	58.8	20.0		112	0.09	0.60	<5	66.0		0.54	2.9	0.03	10.4			
Meldahl	Ohio	436.2	29-Jul-09	49.0	30.0		140	0.07	0.63	<5	120		0.57	3.1	0.04	10.3			
Meldahl	Ohio	436.2	28-Sep-09	52.9	28.0		130	0.08	0.57	<5	78.0		0.80	4.8	0.12	28.2			
Meldahl	Ohio	436.2	04-Nov-09	98.1	38.0		148	0.04	0.76	<5	80.0		0.58	3.5	0.13	31.8			
Meldahl	Ohio	436.2	13-Jan-10	44.2	38.0		112	0.07	1.1	<5	60.0		0.40	2.3	0.06	8.8			
Meldahl	Ohio	436.2	24-Mar-10	179	22.0		100.0	0.04	0.99	<5	45.0		0.69	3.9	0.92	53.2			
Meldahl	Ohio	436.2	19-May-10	173	22.0		116	<0.03	0.66	<5	72.0		0.72	3.9	0.12	80.5			
Meldahl	Ohio	436.2	29-Jul-10	36.4	20.0		116	<0.03	0.61	<5	53.2		0.75	5.6	0.09	32.6			
Meldahl	Ohio	436.2	27-Sep-10	14.8	52.0		188	<0.03	0.61	<5	93.0		0.19	3.1	0.03	10.6			
Meldahl	Ohio	436.2	23-Nov-10	40.5	48.0		160	<0.03	0.84	<5	111		0.27	2.3	0.05	10.7			
Meldahl	Ohio	436.2	10-Jan-11	72.7	28.0		108	0.12	0.85	<5	62.6		0.70	2.4	0.08	16.0			
Meldahl	Ohio	436.2	08-Mar-11	343	22.0		88.0	0.05	0.99	<5	44.3		0.71	3.4	0.25	146			
Meldahl	Ohio	436.2	11-May-11	202	18.0		116	<0.03	0.73	<5	53.2		0.57	3.7	0.09	42.0			
Meldahl	Ohio	436.2	27-Jul-11	55.3	30.6		146	0.12	0.63	<5	94.0	290	0.40	2.9	0.04	8.0			
Meldahl	Ohio	436.2	15-Sep-11	51.6	39.4		157	<0.03	1.0	<5	97.9	290	0.10	2.8	0.04	7.0	8.3	21.6	479
Meldahl	Ohio	436.2	08-Nov-11	63.6	23.2		123	0.03	0.96	<5	51.4	190	<0.1	3.2	0.05	18.0	8.8	12.3	125
Meldahl	Ohio	436.2	05-Jan-12	134	18.0		112	0.05	0.92	R	66.5	160	0.25	2.2	0.02	19.0	9.9	6.1	214
Meldahl	Ohio	436.2	07-Mar-12	276	21.2		95.0	<0.03	0.74	R	62.5	171	0.13	2.6	0.06	86.0	8.9	10.9	754
Meldahl	Ohio	436.2	17-May-12	144	17.4		114	<0.03	0.87	<10	82.0	199	0.28	2.4	0.03	21.0			
Meldahl	Ohio	436.2	09-Jul-12	18.9	32.6		127	0.12	0.38	<10	102	238	0.38	2.5	0.03	<5			

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
Meldahl	Ohio	436.2	24-Sep-12	33.6	50.5		170	0.04	0.53	<10	138	326	<0.1	2.8	0.03	5.0			
Meldahl	Ohio	436.2	08-Nov-12	101	33.1		129	<0.03	1.0	<10	76.0	224	<0.1	3.2	0.04	26.0	7.3	11.3	300
Meldahl	Ohio	436.2	07-Jan-13	73.3	28.1		103	<0.03	1.8	<10	66.5	186	<0.1	2.6	<0.01	10.0	5.9	7.6	109
Meldahl	Ohio	436.2	27-Mar-13	147	22.5		111	<0.03	0.80	<10	55.5	177	0.15	2.4	<0.01	32.0			
Meldahl	Ohio	436.2	30-May-13	45.6	20.4		114	<0.03	0.53	<10	64.8	186	0.65	2.1	0.02	5.0			
Anderson Ferry	Ohio	477.5	17-Jul-08	43.5	24.0		108	0.15	0.80	<5	64.0		0.59	3.9	0.06	16.5			
Anderson Ferry	Ohio	477.5	23-Sep-08	14.7	38.0		164	0.22	1.0	<5	112		0.81	5.2	0.04	6.4			
Anderson Ferry	Ohio	477.5	19-Nov-08	41.4	50.0		156	0.17	1.2	<5	8.0		0.37	3.3	0.06	<1			
Anderson Ferry	Ohio	477.5	14-Jan-09	221	22.0		100.0	0.10	0.84	<5	48.0		0.65	5.9	0.18	74.0			
Anderson Ferry	Ohio	477.5	09-Mar-09	73.4	36.0		124	0.18	0.93	<5	64.0		0.46	2.5	0.06	14.3			
Anderson Ferry	Ohio	477.5	28-May-09	67.4	24.0		108	0.17	0.64	<5	60.0		0.61	3.0	0.06	24.4			
Anderson Ferry	Ohio	477.5	29-Jul-09	56.5	30.0		144	0.14	0.78	<5	110		0.70	3.4	0.08	13.4			
Anderson Ferry	Ohio	477.5	21-Sep-09	23.3	38.0		166	0.42	0.73	<5	110		1.5	4.3	0.10	31.5			
Anderson Ferry	Ohio	477.5	03-Nov-09	101	40.0		144	0.14	0.80	<5	78.0		1.0	4.4	0.12	47.7			
Anderson Ferry	Ohio	477.5	12-Jan-10	47.0	36.0		120	0.11	1.1	<5	60.0		0.73	2.8	0.13	60.3			
Anderson Ferry	Ohio	477.5	23-Mar-10	191	28.0		104	0.07	1.0	<5	44.0		1.1	4.2	0.20	73.0			
Anderson Ferry	Ohio	477.5	20-May-10	216	22.0		120	0.04	0.66	<5	78.0		0.75	3.5	0.09	72.0			
Anderson Ferry	Ohio	477.5	13-Jul-10	23.4	30.0		152	0.12	0.96	<5	61.5		1.2	3.5	0.06	11.7			
Anderson Ferry	Ohio	477.5	20-Sep-10	18.1	48.0		172	0.03	0.78	<5	107		0.39	2.7	0.09	8.6			
Anderson Ferry	Ohio	477.5	09-Nov-10	36.2	62.0		188	0.06	0.87	<5	126		0.89	3.0	0.03	8.2			
Anderson Ferry	Ohio	477.5	18-Jan-11	43.1	36.0		124	0.15	0.94	<5	70.8		0.65	3.4	0.08	8.9			
Anderson Ferry	Ohio	477.5	08-Mar-11	369	26.0		96.0	0.07	1.2	<5	43.0		1.6	4.1	0.25	109			
Anderson Ferry	Ohio	477.5	24-May-11	242	22.0		120	<0.03	0.60	<5	50.8		0.95	3.0	0.18	76.6			
Markland	Ohio	531.5	21-Jul-08	31.5	24.0		148	0.12	0.44	<5	50.0		0.86	5.5	0.13	9.5			
Markland	Ohio	531.5	24-Sep-08	14.0	40.0		156	0.13	0.96	<5	88.0		0.59	3.6	0.04	2.4			
Markland	Ohio	531.5	19-Nov-08	43.6	62.0		188	0.18	1.1	<5	120		0.42	2.4	0.07	5.5			
Markland	Ohio	531.5	02-Feb-09	140	32.0		132	0.16	1.0	<5	68.0		0.70	4.0	0.15	75.2			
Markland	Ohio	531.5	09-Mar-09	79.0	38.0		100.0	0.12	1.0	<5	72.0		0.54	2.5	0.07	15.3			
Markland	Ohio	531.5	28-May-09	75.3	24.0		116	0.06	0.80	<5	52.0		0.42	2.9	0.03	13.2			
Markland	Ohio	531.5	16-Jul-09	28.4	26.0		148	0.10	1.0	<5	92.0		1.0	3.1	0.06	9.5			
Markland	Ohio	531.5	22-Sep-09	26.2	35.0		154	0.05	0.79	<5	#		0.57	3.9	0.06	10.3			
Markland	Ohio	531.5	18-Nov-09	49.1	30.0		144	0.09	0.82	<5	82.0		0.63	2.7	0.05	12.8			
Markland	Ohio	531.5	12-Jan-10	49.2	32.0		128	0.08	1.1	<5	56.0		0.80	3.1	0.14	58.8			
Markland	Ohio	531.5	23-Mar-10	213	26.0		116	0.05	1.3	<5	42.0		1.0	4.2	0.16	57.0			
Markland	Ohio	531.5	26-May-10	136	16.0		112	0.04	1.0	<5	52.0		0.81	4.6	0.11	40.7			
Markland	Ohio	531.5	14-Jul-10	70.7	30.0		164	0.14	0.89	<5	59.5		0.65	3.7	0.09	12.8			
Markland	Ohio	531.5	20-Sep-10	18.5	50.0		176	<0.03	0.91	<5	86.2		0.31	2.5	0.09	7.3			
Markland	Ohio	531.5	09-Nov-10	37.1	58.0		180	0.08	0.82	<5	110		0.69	3.1	0.05	7.8			
Markland	Ohio	531.5	18-Jan-11	56.8	40.0		124	0.19	1.0	<5	65.0		0.64	2.9	0.07	6.8			
Markland	Ohio	531.5	08-Mar-11	409	24.0		84.0	0.06	1.3	<5	40.4		1.5	4.6	0.32	155			
Markland	Ohio	531.5	25-May-11	250	20.0		132	<0.03	0.75	<5	49.1		1.0	3.3	0.14	70.0			
Markland	Ohio	531.5	18-Jul-11	36.6	39.7		155	0.10	0.93	<5	87.5	270	0.42	3.1	0.06	2.0	7.6	31.4	552
Markland	Ohio	531.5	15-Sep-11	64.8	40.9		170	<0.03	1.1	<5	95.2	310	0.13	3.1	0.05	6.0	7.8	23.1	531
Markland	Ohio	531.5	21-Nov-11	198	21.6		129	0.02	0.90	<5	45.7	180	0.32	3.7	0.06	41.0			
Markland	Ohio	531.5	25-Jan-12	269	26.1		118	0.70	1.0	R	49.2	214	0.44	2.6	0.13	64.0			
Markland	Ohio	531.5	07-Mar-12	336	18.3		99.7	<0.03	0.76	R	63.5	170	0.60	2.6	0.10	155	8.8	8.8	263
Markland	Ohio	531.5	17-May-12	155	17.9		116	<0.03	0.94	<10	71.5	180	0.28	3.2	0.06	27.0	8.9	19.2	317

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
Markland	Ohio	531.5	17-Jul-12	20.7	34.7		143	0.05	0.60	<10	96.0	211	0.47	3.0	0.04	6.0	7.9	30.7	426
Markland	Ohio	531.5	20-Sep-12	28.2	44.5		173	<0.03	0.68	<10	116	301	0.22	2.7	0.02	<5	8.2	24.4	518
Markland	Ohio	531.5	08-Nov-12	109	34.5		132	<0.03	1.0	<10	94.5	234	0.12	3.6	0.06	23.0	6.4	10.7	424
Markland	Ohio	531.5	10-Jan-13	71.0	35.6		119	<0.03	0.96	<10	65.5	191	<0.1	2.3	0.02	9.0	7.9	5.2	201
Markland	Ohio	531.5	26-Mar-13	154	26.6		126	<0.03	1.0	<10	52.0	240	0.71	3.1	0.08	57.0	7.8	4.9	337
Markland	Ohio	531.5	09-May-13	129	17.7		120	<0.03	0.77	<10	49.5	198	0.39	4.1	0.09	10.0	8.0	16.4	300
Louisville	Ohio	600.6	14-Jul-08	77.9	24.0		192	0.23	1.3	<5	70.0		1.1	3.8	0.34	290			
Louisville	Ohio	600.6	24-Sep-08	14.7	38.0		168	0.05	1.1	<5	104		0.48	3.0	0.08	2.4			
Louisville	Ohio	600.6	19-Nov-08	42.2	56.0		168	0.11	1.2	<5	114		0.38	2.6	0.08	9.8			
Louisville	Ohio	600.6	22-Jan-09	68.3	36.0		132	0.09	1.0	<5	50.0		1.1	4.8	0.22	117			
Louisville	Ohio	600.6	12-Mar-09	145	30.0		128	0.11	1.3	<5	82.0		0.43	2.4	0.09	27.5			
Louisville	Ohio	600.6	28-May-09	80.4	18.0		128	0.06	1.0	<5	58.0		0.55	3.2	0.08	45.6			
Louisville	Ohio	600.6	16-Jul-09	30.7	24.0		140	0.05	0.85	<5	92.0		0.58	3.4	0.08	27.4			
Louisville	Ohio	600.6	23-Sep-09	43.7	33.0		144	0.07	0.89	<5	84.0		0.68	3.9	0.09	22.3			
Louisville	Ohio	600.6	18-Nov-09	55.8	30.0		164	0.07	0.90	<5	92.0		0.66	2.9	0.07	13.0			
Louisville	Ohio	600.6	26-Jan-10	323	24.0		152	0.06	0.86	<5	49.0		1.0	6.4	0.27	161			
Louisville	Ohio	600.6	16-Mar-10	414	54.0		148	0.06	1.1	<5	64.0		0.78	4.6	0.21	73.0			
Louisville	Ohio	600.6	20-May-10	222	22.0		140	<0.03	1.0	<5	75.0		0.71	3.5	0.13	85.5			
Louisville	Ohio	600.6	22-Jul-10	137	30.0		172	<0.03	1.2	<5	73.0		0.69	3.5	0.13	19.4			
Louisville	Ohio	600.6	16-Sep-10	15.5	44.0		156	0.04	0.76	<5	89.6		0.57	3.2	0.07	13.2			
Louisville	Ohio	600.6	17-Nov-10	31.5	56.0		204	0.10	0.93	<5	114		0.50	3.7	0.03	9.6			
Louisville	Ohio	600.6	26-Jan-11	67.6	42.0		140	0.19	1.3	<5	68.5		0.50	2.8	0.08	8.7			
Louisville	Ohio	600.6	28-Mar-11	268	22.0		152	0.07	1.4	<5	55.1		0.79	2.5	0.11	47.6			
Louisville	Ohio	600.6	18-May-11	248	16.0		148	0.04	0.89	<5	54.0		0.92	2.5	0.17	172			
McAlpine	Ohio	606.8	20-May-10		22.0		92.0	<0.03	1.0	<5	75.0		0.91	3.5	0.19	136			
McAlpine	Ohio	606.8	22-Jul-10		30.0		168	<0.03	1.2	<5	68.2		0.85	3.5	0.13	37.4			
McAlpine	Ohio	606.8	16-Sep-10		44.0		160	0.04	0.74	<5	87.3		0.48	3.0	0.25	10.8			
McAlpine	Ohio	606.8	17-Nov-10		58.0		184	0.07	0.94	<5	103		0.46	3.7	0.03	4.6			
McAlpine	Ohio	606.8	26-Jan-11		44.0		136	0.23	1.3	<5	65.4		0.62	2.8	0.10	6.9			
McAlpine	Ohio	606.8	28-Mar-11		24.0		112	0.04	1.0	<5	53.4		0.77	2.2	0.14	64.9			
McAlpine	Ohio	606.8	18-May-11		18.0		152	0.04	0.85	<5	53.5		0.89	2.9	0.18	146			
McAlpine	Ohio	606.8	18-Jul-11		30.5		137	<0.03	0.94	<5	71.3	240	0.27	3.0	0.05	<5	8.0	29.9	440
McAlpine	Ohio	606.8	15-Sep-11		44.9		177	<0.03	0.99	<5	102	310	0.11	2.9	0.05	15.0	8.3	24.4	547
McAlpine	Ohio	606.8	21-Nov-11		19.5		146	0.03	0.91	<5	50.2	200	0.28	3.5	0.18	150			
McAlpine	Ohio	606.8	25-Jan-12		22.0		122	1.7	0.84	R	43.2	227	0.11	2.8	0.24	139			
McAlpine	Ohio	606.8	07-Mar-12		16.2		103	<0.03	0.74	R	56.5	166	0.87	2.8	0.13	247	8.5	10.6	256
McAlpine	Ohio	606.8	17-May-12		17.3		122	<0.03	0.93	<10	69.5	174	0.37	3.5	0.08	45.0	8.2	19.6	318
McAlpine	Ohio	606.8	17-Jul-12		33.7		144	<0.03	0.75	<10	#	209	0.33	2.9	0.03	<5	7.8	30.2	414
McAlpine	Ohio	606.8	20-Sep-12		44.9		165	<0.03	0.82	<10	110	289	0.15	2.7	0.03	5.0	8.1	23.1	492
McAlpine	Ohio	606.8	08-Nov-12		41.0		143	<0.03	1.1	<10	95.2	265	<0.1	3.4	0.05	42.0	7.3	11.4	461
McAlpine	Ohio	606.8	10-Jan-13		23.6		123	<0.03	0.94	<10	65.8	197	<0.1	2.4	<0.01	6.0	8.1	4.5	177
McAlpine	Ohio	606.8	26-Mar-13		24.6		124	<0.03	0.97	<10	52.1	209	0.91	2.8	0.09	88.0	7.4	6.4	382
McAlpine	Ohio	606.8	09-May-13		17.6		137	<0.03	0.95	<10	57.3	210	0.40	3.1	0.10	16.0	7.9	17.2	337
West Point	Ohio	625.9	14-Jul-08	77.9	26.0		180	0.41	1.4	<5	86.0		0.77	4.5	0.12	27.0			
West Point	Ohio	625.9	24-Sep-08	14.7	42.0		188	0.09	1.1	<5	134		0.40	3.3	0.05	4.2			
West Point	Ohio	625.9	19-Nov-08	42.2	66.0		200	0.31	1.4	<5	146		0.68	2.9	0.10	22.5			
West Point	Ohio	625.9	22-Jan-09	68.3	34.0		160	0.27	1.0	<5	74.0		0.99	4.1	0.16	50.0			

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
West Point	Ohio	625.9	12-Mar-09	145	34.0		140	0.18	1.3	<5	76.0		0.52	2.5	0.12	40.5			
West Point	Ohio	625.9	28-May-09	80.4	24.0		148	0.18	1.1	<5	70.0		0.81	3.3	0.18	70.0			
West Point	Ohio	625.9	16-Jul-09	30.7	38.0		204	0.19	1.1	<5	130		0.82	3.5	0.12	18.0			
West Point	Ohio	625.9	09-Sep-09	34.7	38.0		180	0.07	0.92	<5	140		0.54	3.4	0.07	15.8			
West Point	Ohio	625.9	18-Nov-09	55.8	36.0		204	0.36	1.2	<5	110		1.3	4.4	0.19	75.6			
West Point	Ohio	625.9	26-Jan-10	323	26.0		132	0.07	0.94	<5	54.0		0.92	6.0	0.21	129			
West Point	Ohio	625.9	16-Mar-10	414	60.0		172	0.08	1.1	<5	72.0		1.2	6.0	0.39	169			
West Point	Ohio	625.9	20-May-10	222	28.0		172	0.04	1.0	<5	84.0		1.1	3.7	0.35	226			
West Point	Ohio	625.9	22-Jul-10	137	34.0		176	0.07	1.3	<5	73.2		0.98	3.6	0.15	46.1			
West Point	Ohio	625.9	16-Sep-10	15.5	50.0		248	0.04	0.95	<5	135		0.43	3.5	0.06	6.8			
West Point	Ohio	625.9	17-Nov-10	31.5	62.0		220	0.27	1.0	<5	128		0.93	3.7	0.09	7.4			
West Point	Ohio	625.9	26-Jan-11	67.6	48.0		172	0.42	1.4	<5	88.2		1.0	3.2	0.14	14.7			
West Point	Ohio	625.9	28-Mar-11	268	24.0		112	0.05	1.1	<5	52.9		0.83	2.2	0.12	44.9			
West Point	Ohio	625.9	18-May-11	248	18.0		164	0.08	0.81	<5	54.8		1.3	3.8	0.31	234			
Cannelton	Ohio	720.7	23-Jul-08	35.4	28.0		136	0.04	1.1	<5	70.0		0.40	4.3	0.06	8.0			
Cannelton	Ohio	720.7	18-Sep-08	27.6	40.0		184	0.08	1.4	<5	88.0		0.45	5.8	0.04	4.8			
Cannelton	Ohio	720.7	18-Nov-08	26.9	44.0		168	0.07	1.4	<5	112		0.36	2.7	0.06	4.5			
Cannelton	Ohio	720.7	03-Feb-09	178	40.0		128	0.15	1.2	<5	64.0		0.64	4.1	0.24	106			
Cannelton	Ohio	720.7	10-Mar-09	83.5	30.0		124	0.11	1.3	<5	62.0		0.43	2.6	0.07	15.3			
Cannelton	Ohio	720.7	20-May-09	135	18.0		168	0.06	0.99	<5	58.0		0.64	4.3	0.28	42.8			
Cannelton	Ohio	720.7	22-Jul-09	24.5	40.0		148	0.08	1.1	<5	120		0.59	3.0	0.07	10.5			
Cannelton	Ohio	720.7	23-Sep-09	62.7	32.0		146	0.03	0.82	<5	78.0		0.70	3.3	0.10	15.4			
Cannelton	Ohio	720.7	18-Nov-09	63.8	28.0		160	0.08	0.96	<5	78.0		0.58	3.2	0.08	9.2			
Cannelton	Ohio	720.7	12-Jan-10	59.6	22.0		116	0.06	1.1	<5	56.0		0.45	2.8	0.08	10.2			
Cannelton	Ohio	720.7	24-Mar-10	235	24.0		112	0.03	1.1	<5	47.0		0.95	5.1	0.24	108			
Cannelton	Ohio	720.7	11-May-10	146	14.0		116	<0.03	0.67	<5	44.0		0.68	5.3	0.14	35.5			
Cannelton	Ohio	720.7	13-Jul-10	23.1	26.0		164	0.05	1.4	<5	58.0		0.71	3.7	0.06	6.9			
Cannelton	Ohio	720.7	07-Sep-10	14.8	32.0		160	<0.03	0.65	<5	83.8		0.79	3.8	0.45	8.5			
Cannelton	Ohio	720.7	02-Nov-10	32.7	52.0		200	<0.03	1.0	<5	113		0.47	3.1	0.06	7.8			
Cannelton	Ohio	720.7	26-Jan-11	51.2	50.0		132	0.16	1.3	<5	58.8		0.66	2.5	0.09	10.0			
Cannelton	Ohio	720.7	30-Mar-11	257	20.0		116	0.04	0.97	<5	52.0		0.51	2.4	0.13	61.2			
Cannelton	Ohio	720.7	24-May-11	318	20.0		140	<0.03	0.82	<5	60.6		0.83	2.3	0.16	96.6			
Cannelton	Ohio	720.7	12-Jul-11	61.5	23.8		131	0.03	1.6	<5	48.0	180	0.22	3.3	0.07	10.0	8.3	33.8	375
Cannelton	Ohio	720.7	29-Sep-11	92.3	40.4		172	<0.03	1.2	<5	81.9	320	0.27	2.9	0.04	10.0	8.4	21.1	529
Cannelton	Ohio	720.7	16-Nov-11	75.1	21.0		133	0.06	1.1	8.6	46.1	210	0.26	3.8	0.07	11.0	7.5	12.4	358
Cannelton	Ohio	720.7	09-Jan-12	134	16.4		132	0.11	0.96	R	47.0	177	0.13	2.3	0.05	26.0			
Cannelton	Ohio	720.7	14-Mar-12	244	17.4		110	<0.03	0.84	R	64.0	180	0.37	2.5	0.09	75.0	8.0	10.3	282
Cannelton	Ohio	720.7	31-May-12	57.1	20.1		130	<0.03	0.98	<10	83.5	221	<0.1	2.2	0.02	<5	8.3	24.2	349
Cannelton	Ohio	720.7	10-Jul-12	21.4	27.5		128	0.14	0.71	<10	79.5	201	0.41	2.8	0.03	<5	8.3	29.5	380
Cannelton	Ohio	720.7	12-Sep-12	33.8	43.1		157	<0.03	1.0	<10	84.0	268	<0.1	2.9	0.02	6.0	6.9	27.2	478
Cannelton	Ohio	720.7	14-Nov-12	67.9	35.8		145	<0.03	1.1	<10	102	252	0.14	3.6	<0.01	10.0			
Cannelton	Ohio	720.7	29-Jan-13		19.5		109	<0.03	1.0	<10	54.8	164	<0.1	2.7	0.06	13.0		4.2	279
Cannelton	Ohio	720.7	26-Mar-13	197	26.3		119	<0.03	0.97	<10	48.1	197	0.53	3.1	0.11	95.0	6.9	7.1	360
Cannelton	Ohio	720.7	07-May-13	172	19.3		137	<0.03	1.1	<10	58.0	186	0.38	2.9	0.07	28.0	8.3	16.3	339
Newburgh	Ohio	776	10-Jul-08	78.7	18.0		200	0.14	1.2	<5	74.0		0.58	3.5	0.05	16.5	7.8	27.0	400
Newburgh	Ohio	776	04-Sep-08	20.6	26.0		164	0.06	1.3	<5	80.0		0.71	4.3	0.03	9.3	7.8	26.0	460
Newburgh	Ohio	776	06-Nov-08	25.0	46.0		184	0.05	1.5	<5	114		0.26	3.1	0.09	4.2	7.9	18.0	500

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Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
Newburgh	Ohio	776	08-Jan-09	121	24.0		128	0.13	1.4	<5	60.0		0.51	4.4	0.13	43.7	7.8	3.0	300
Newburgh	Ohio	776	05-Mar-09	180	26.0		124	0.10	1.4	<5	68.0		0.59	4.4	0.24	94.0	7.7	8.0	320
Newburgh	Ohio	776	07-May-09	239	10.0		160	0.06	1.2	<5	66.0		0.52	3.6	0.16	57.7	7.7	18.0	390
Newburgh	Ohio	776	23-Jul-09	56.4	22.0		120	0.06	1.1	<5	#		0.56	2.9	0.08	14.0	7.9	25.0	420
Newburgh	Ohio	776	03-Sep-09	34.7	22.0		156	0.04	0.79	<5	74.0		0.57	3.7	0.07	9.2	8.1	25.0	390
Newburgh	Ohio	776	12-Nov-09	61.1	26.0		160	0.04	1.00	<5	76.0		0.59	3.9	0.09	10.0	8.0	13.0	460
Newburgh	Ohio	776	28-Jan-10		22.0		136	0.07	10.4	<5	52.0		0.40	4.5	0.41	211	8.1	2.0	360
Newburgh	Ohio	776	04-Mar-10	133	32.0		148	0.08	0.97	<5	69.0		0.60	2.4	0.11	37.1	8.2	5.0	400
Newburgh	Ohio	776	06-May-10	442	22.0		152	<0.03	0.67	<5	54.0		1.2	5.5	0.61	234	8.1	21.0	370
Newburgh	Ohio	776	08-Jul-10	29.7	24.0		160	<0.03	1.2	<5	62.0		1.4	5.3	0.10	12.7	9.1	28.0	430
Newburgh	Ohio	776	16-Sep-10	18.7	40.0		160	<0.03	0.64	<5	85.8		0.44	3.0	0.07	11.2	8.4	24.0	500
Newburgh	Ohio	776	04-Nov-10	31.9	54.0		196	0.04	1.1	<5	110		0.25	3.2	0.06	5.9	8.2	15.0	660
Newburgh	Ohio	776	06-Jan-11	192	34.0		144	0.08	1.2	<5	64.4		1.0	4.2	0.18	93.3	8.2	2.0	400
Newburgh	Ohio	776	10-Mar-11	573	28.0		116	0.05	1.4	<5	49.8		0.82	3.8	0.28	67.3	7.8	5.0	380
Newburgh	Ohio	776	12-May-11	446	16.0		132	<0.03	0.89	<5	50.4		0.52	4.5	0.16	68.4	7.8	19.0	310
Newburgh	Ohio	776	14-Jul-11	102	23.4		140	0.03	1.7	<5	61.0	220	0.25	3.4	0.08	24.0	7.9	30.0	448
Newburgh	Ohio	776	08-Sep-11	41.1	36.6		181	<0.03	0.83	<5	78.2	360	0.14	3.1	0.03	21.0	8.3	24.0	520
Newburgh	Ohio	776	03-Nov-11	168	24.4		153	0.04	1.4	<5	58.8	240	0.11	3.9	0.09	46.0	7.9	13.0	313
Newburgh	Ohio	776	05-Jan-12	264	16.0		121	0.16	1.0	R	47.2	196	0.32	2.8	0.08	76.0	7.9	9.0	312
Newburgh	Ohio	776	01-Mar-12	165	27.4		155	<0.03	1.0	R	95.0	233	0.18	2.0	0.04	26.0	8.2	12.0	315
Newburgh	Ohio	776	03-May-12	193	28.3		152	<0.03	0.73	<10	98.5	237	0.24	1.9	0.07	42.0			
Newburgh	Ohio	776	12-Jul-12	25.4	26.2		133	<0.03	0.73	<10	77.0	205	0.26	2.7	0.02	7.0	8.2	31.0	410
Newburgh	Ohio	776	05-Sep-12	21.5	40.0		149	0.11	0.82	<10	89.0	276	0.21	2.8	0.01	5.0			
Newburgh	Ohio	776	01-Nov-12	85.0	51.3		191	<0.03	1.1	<10	134	345	<0.1	2.7	0.05	30.0	8.1	15.0	580
Newburgh	Ohio	776	29-Jan-13		19.8		114	<0.03	1.1	<10	57.1	166	<0.1	2.7	0.09	19.0		5.6	288
Newburgh	Ohio	776	26-Mar-13	297	24.8		124	<0.03	0.98	<10	53.5	216	0.70	3.2	0.15	150	9.1	7.2	337
Newburgh	Ohio	776	07-May-13	200	17.1		126	<0.03	1.2	<10	64.0	205	0.51	3.5	0.11	57.0	7.7	17.1	318
J.T. Myers	Ohio	846	10-Jul-08	120	20.0		144	0.14	1.6	<5	74.0		0.51	3.8	0.04	10.4	7.7	26.0	400
J.T. Myers	Ohio	846	04-Sep-08	31.1	14.0		164	0.10	0.87	<5	82.0		0.91	4.5	0.03	9.0	7.9	26.0	450
J.T. Myers	Ohio	846	06-Nov-08	33.0	38.0		184	0.05	0.98	<5	112		0.51	3.0	0.08	6.9	7.9	16.0	490
J.T. Myers	Ohio	846	08-Jan-09	191	22.0		116	0.12	1.3	<5	56.0		0.85	5.2	0.18	79.6	7.9	3.0	290
J.T. Myers	Ohio	846	05-Mar-09	233	30.0		120	0.12	1.4	<5	56.0		0.58	4.1	0.20	84.0	7.7	6.0	340
J.T. Myers	Ohio	846	07-May-09	312	10.0		132	0.06	1.1	<5	70.0		0.60	3.5	0.12	59.7	7.6	17.0	350
J.T. Myers	Ohio	846	23-Jul-09	69.2	22.0		156	0.03	1.1	<5	98.0		0.68	3.2	0.09	22.0	7.8	25.0	430
J.T. Myers	Ohio	846	03-Sep-09	46.5	16.0		136	0.04	0.79	<5	64.0		0.63	4.1	0.07	9.8	7.9	24.0	390
J.T. Myers	Ohio	846	12-Nov-09	69.2	24.0		156	<0.03	0.93	<5	74.0		0.61	4.2	0.08	15.1	7.8	12.0	460
J.T. Myers	Ohio	846	28-Jan-10		24.0		128	0.05	0.98	<5	57.0		0.89	5.1	0.30	163	7.8	3.0	400
J.T. Myers	Ohio	846	04-Mar-10	182	32.0		140	0.07	0.98	<5	62.0		0.73	3.5	0.13	38.8	8.2	2.0	390
J.T. Myers	Ohio	846	06-May-10	460	18.0		152	<0.03	0.68	<5	55.0		1.2	5.5	0.55	267	8.0	20.0	360
J.T. Myers	Ohio	846	08-Jul-10	104	22.0		152	0.07	1.1	<5	62.0		0.79	3.7	0.05	6.8	8.5	29.0	410
J.T. Myers	Ohio	846	16-Sep-10	26.0	32.0		140	<0.03	0.69	<5	60.2		1.0	3.3	0.44	11.0	8.6	25.0	410
J.T. Myers	Ohio	846	03-Nov-10	39.0	48.0		200	<0.03	1.1	<5	117		0.41	3.2	0.06	8.2	8.2	14.0	620
J.T. Myers	Ohio	846	06-Jan-11	221	32.0		128	0.10	1.1	<5	59.4		0.87	4.8	0.13	65.2	8.0	2.0	380
J.T. Myers	Ohio	846	10-Mar-11	705	28.0		112	0.04	1.4	<5	40.4		0.97	3.2	0.28	112	7.9	5.0	330
J.T. Myers	Ohio	846	23-May-11	369	18.0		132	<0.03	0.85	<5	56.9		1.2	2.6	0.19	110			
J.T. Myers	Ohio	846	14-Jul-11	149	20.2		126	0.03	1.6	<5	50.3	200	<0.1	3.5	0.10	25.0	7.6	30.0	405
J.T. Myers	Ohio	846	08-Sep-11	37.0	36.5		194	0.04	0.73	<5	86.6	370	0.15	3.1	0.02	22.0	8.4	24.0	530

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
J.T. Myers	Ohio	846	03-Nov-11	187	23.3		149	0.03	1.4	<5	56.7	240	0.16	3.7	0.10	78.0	7.9	13.0	296
J.T. Myers	Ohio	846	05-Jan-12	370	15.4		115	0.10	1.0	R	45.0	200	0.25	2.8	0.07	66.0	7.9	7.0	296
J.T. Myers	Ohio	846	01-Mar-12	193	25.6		144	<0.03	1.0	R	85.5	219	0.21	1.9	0.06	23.0	8.0	10.0	255
J.T. Myers	Ohio	846	03-May-12	209	27.6		149	<0.03	0.78	<10	84.5	235	0.34	1.9	0.06	45.0			
J.T. Myers	Ohio	846	12-Jul-12	25.3	28.1		136	0.12	0.70	<10	83.0	213	0.32	2.9	0.03	<5	7.8	30.0	430
J.T. Myers	Ohio	846	05-Sep-12	27.4	40.2		146	<0.03	0.58	<10	89.5	258	0.17	2.7	<0.01	5.0			
J.T. Myers	Ohio	846	01-Nov-12	71.4	46.0		190	<0.03	1.1	<10	120	305	0.12	2.6	0.05	31.0	8.0	10.0	550
J.T. Myers	Ohio	846	30-Jan-13	144	20.3		113	<0.03	1.1	<10	57.1	178	<0.1	2.8	0.12	42.0		6.1	286
J.T. Myers	Ohio	846	27-Mar-13	346	26.1		121	<0.03	0.95	<10	52.7	243	0.85	3.4	0.17	156	5.9	7.6	330
J.T. Myers	Ohio	846	08-May-13	348	16.3		122	<0.03	1.2	<10	60.9	190	0.40	3.2	0.14	75.0	7.8	17.3	306
Smithland	Ohio	918.5	22-Jul-08	81.1	16.0		164	<0.03	1.6	<5	52.0		0.57	4.6	0.11	19.3	7.9	29.5	443
Smithland	Ohio	918.5	17-Sep-08	46.2	30.0		176	0.18	0.78	<5	74.0		1.1	5.7	0.04	6.8	7.7	25.1	500
Smithland	Ohio	918.5	17-Nov-08	42.2	40.0		192	0.13	1.0	<5	#		0.47	2.9	0.10	3.3			
Smithland	Ohio	918.5	02-Feb-09	243	26.0		140	0.15	1.4	<5	56.0		0.91	4.8	0.27	185			
Smithland	Ohio	918.5	10-Mar-09	141	30.0		152	0.11	2.0	<5	66.0		0.63	3.8	0.19	59.0			
Smithland	Ohio	918.5	19-May-09	408	14.0		136	0.05	1.0	<5	62.0		0.78	6.6	0.21	111			
Smithland	Ohio	918.5	21-Jul-09	59.8	22.0		172	0.08	1.1	<5	82.0		0.70	3.3	0.07	11.4	8.5	26.6	435
Smithland	Ohio	918.5	16-Sep-09	33.1	20.0		146	0.11	0.68	<5	67.0		0.68	4.0	0.07	8.5	7.6	26.0	387
Smithland	Ohio	918.5	02-Nov-09	237	24.0		156	<0.03	1.1	<5	60.0		0.98	5.7	0.33	51.2	7.4	14.4	370
Smithland	Ohio	918.5	13-Jan-10	92.0	22.0		156	0.05	1.6	<5	58.0		0.68	4.4	0.16	49.8			
Smithland	Ohio	918.5	25-Mar-10	461	26.0		148	0.04	1.9	<5	48.0		0.86	7.3	0.28	119			
Smithland	Ohio	918.5	13-May-10		18.0		140	0.04	1.2	<5	42.0		0.96	6.7	0.29	108			
Smithland	Ohio	918.5	15-Jul-10	89.6	24.0		196	0.08	1.2	<5	46.2		1.0	3.9	0.10	15.5	8.8	29.4	435
Smithland	Ohio	918.5	09-Sep-10	25.8	26.0		180	<0.03	0.58	<5	74.4		0.52	4.2	0.03	12.6			
Smithland	Ohio	918.5	03-Nov-10	42.9	48.0		196	0.04	0.80	<5	104		0.69	3.4	0.04	9.5			
Smithland	Ohio	918.5	27-Jan-11	70.4	40.0		148	0.10	1.7	<5	73.4		0.49	2.5	0.10	11.8			
Smithland	Ohio	918.5	29-Mar-11	393	20.0		136	0.04	1.5	<5	47.2		0.81	3.6	0.19	74.7			
Smithland	Ohio	918.5	23-May-11	364	18.0		144	0.03	1.1	<5	49.4		0.89	3.9	0.18	116			
Smithland	Ohio	918.5	13-Jul-11	128	15.2		119	0.06	1.7	<5	34.5	180	0.58	4.0	0.11	15.0	8.1	28.8	372
Smithland	Ohio	918.5	28-Sep-11	140	37.6		168	0.03	0.91	<5	81.2	300	0.35	3.4	0.07	36.0	8.6	21.5	509
Smithland	Ohio	918.5	17-Nov-11	114	24.1		152	0.03	1.4	13.0	51.1	240	0.29	4.0	0.09	22.0	8.3	12.1	404
Smithland	Ohio	918.5	10-Jan-12	204	21.0		175	0.11	1.7	R	49.0	209	0.31	3.0	0.07	28.0	8.6		256
Smithland	Ohio	918.5	13-Mar-12	411	19.8		137	<0.03	1.2	R	62.8	412	0.59	3.1	0.11	125	8.1	13.3	324
Smithland	Ohio	918.5	30-May-12	70.2	21.8		146	0.07	1.1	<10	65.8	232	<0.1	3.0	0.03	7.0	8.3	25.6	369
Smithland	Ohio	918.5	11-Jul-12	26.9	33.7		156	0.05	0.48	<10	78.0	245	0.11	2.8	0.09	<5	8.3	30.2	441
Smithland	Ohio	918.5	13-Sep-12	51.2	38.1		159	<0.03	0.51	<10	95.0	272	0.33	3.1	0.03	<5	7.8	25.9	485
Smithland	Ohio	918.5	15-Nov-12	89.4	48.5		175	<0.03	1.1	<10	120	316	0.56	2.8	0.03	11.0			
Smithland	Ohio	918.5	30-Jan-13	157	20.2		136	<0.03	1.7	<10	61.1	220	0.24	3.9	0.12	61.0		5.2	320
Smithland	Ohio	918.5	27-Mar-13	437	25.0		139	<0.03	1.5	<10	46.4	274	0.69	4.2	0.21	96.0	5.3	7.3	349
Smithland	Ohio	918.5	08-May-13	335	17.9		157	0.15	2.6	<10	49.4	222	1.1	4.5	0.15	46.0	7.8	16.7	363
L&D 52	Ohio	938.9	21-Jul-08	134	22.0		164	0.04	1.5	<5	60.0		0.53	4.3	0.12	28.8			
L&D 52	Ohio	938.9	16-Sep-08	76.8	28.0		180	1.1	1.0	<5	74.0		2.2	6.0	0.06	17.5			
L&D 52	Ohio	938.9	17-Nov-08	46.1	34.0		160	0.10	0.72	<5	82.0		0.55	3.2	0.09	14.7			
L&D 52	Ohio	938.9	02-Feb-09	434	22.0		164	0.15	1.4	<5	56.0		0.99	4.8	0.31	248			
L&D 52	Ohio	938.9	11-Mar-09	259	34.0		148	0.12	2.0	<5	58.0		0.71	4.7	0.30	131			
L&D 52	Ohio	938.9	19-May-09	628	16.0		116	0.05	1.0	<5	52.0		0.76	5.9	0.15	83.2			
L&D 52	Ohio	938.9	21-Jul-09	149	22.0		156	0.09	0.95	<5	70.0		0.71	3.6	0.09	9.5			

Appendix D: Bimonthly Sampling Results 2014 305b July 2008 through June 2013

Bimonthly SiteName	River	Confluence Mile Point	Date	Flow	Cl- (mg/L)	CN (ug/L)	Hardness (mg/L)	NH3-N (mg/L)	NO2-NO3-N (mg/L)	Phenols (ug/L)	SO4 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TP (mg/L)	TSS (mg/L)	pH (std_u_)	Temp Deg C	SpCond (umhos/cm)
L&D 52	Ohio	938.9	16-Sep-09	80.9	16.0		130	0.10	0.45	<5	50.0		0.63	3.8	0.07	9.7			
L&D 52	Ohio	938.9	03-Nov-09	308	24.0		220	<0.03	1.0	<5	56.0		0.90	6.1	0.22	91.1			
L&D 52	Ohio	938.9	12-Jan-10		24.0		160	0.07	1.6	<5	58.0		0.72	4.1	0.15	42.2			
L&D 52	Ohio	938.9	25-Mar-10		28.0		148	0.04	1.8	<5	56.0		0.92	6.0	1.3	92.0			
L&D 52	Ohio	938.9	12-May-10		18.0		132	<0.03	0.91	<5	46.0		0.79	6.0	0.27	74.8			
L&D 52	Ohio	938.9	14-Jul-10		22.0		180	0.06	1.00	<5	38.2		1.0	3.6	0.10	24.7			
L&D 52	Ohio	938.9	08-Sep-10		20.0		144	<0.03	0.44	<5	61.4		1.2	4.2	0.03	19.0			
L&D 52	Ohio	938.9	03-Nov-10		30.0		140	0.05	0.46	<5	54.6		0.82	3.0	0.08	11.0			
L&D 52	Ohio	938.9	27-Jan-11		38.0		152	0.10	1.6	<5	73.2		0.55	2.5	0.10	15.8			
L&D 52	Ohio	938.9	16-Mar-11		20.0		104	0.07	1.6	<5	34.9		1.1	4.9	0.19	14.4			
L&D 52	Ohio	938.9	23-May-11		14.0		144	0.09	0.85	<5	42.0		1.8	5.2	0.29	77.0			
L&D 52	Ohio	938.9	13-Jul-11		15.3		109	0.11	1.5	<5	29.9	150	0.55	3.8	0.13	30.0	8.3	30.5	362
L&D 52	Ohio	938.9	28-Sep-11		38.0		178	0.05	0.92	<5	98.5	330	0.35	3.3	0.08	52.0	8.4	20.8	537
L&D 52	Ohio	938.9	17-Nov-11		23.8		151	0.03	1.3	<5	49.6	220	0.30	4.1	0.12	68.0	8.5	10.5	398
L&D 52	Ohio	938.9	10-Jan-12		20.7		159	0.09	1.5	R	37.2	223	0.29	3.5	0.11	67.0	8.6		230
L&D 52	Ohio	938.9	13-Mar-12		20.1		131	<0.03	1.1	R	67.2	204	0.64	3.0	0.10	118	7.8	11.2	316
L&D 52	Ohio	938.9	30-May-12		19.4		128	<0.03	0.86	<10	53.0	198	0.24	2.8	0.03	7.0	8.7	26.1	329
L&D 52	Ohio	938.9	11-Jul-12		19.1		98.3	<0.03	0.23	<10	45.0	139	0.16	2.4	0.05	8.0	8.5	29.6	301
L&D 52	Ohio	938.9	12-Sep-12		38.3		154	<0.03	0.57	<10	89.5	260	<0.1	3.0	0.04	8.0	7.8	27.2	475
L&D 52	Ohio	938.9	15-Nov-12		45.7		178	<0.03	1.2	<10	110	336	<0.1	2.9	0.01	19.0			
L&D 52	Ohio	938.9	30-Jan-13		17.1		126	<0.03	1.5	<10	68.6	154	<0.1	4.7	0.46	199		5.9	291
L&D 52	Ohio	938.9	27-Mar-13		23.7		125	<0.03	1.4	<10	41.0	240	0.53	4.7	0.18	103	5.0	5.2	319
L&D 52	Ohio	938.9	08-May-13		16.9		154	<0.03	2.5	<10	47.5	224	1.1	4.3	0.14	62.0	8.2	18.4	387

Appendix E:

Dissolved Oxygen and Temperature Results

Daily Dissolved Oxygen May 2009																						
LENDAR DAY ULIAN DAY		1-May 121	4-May 124	5-May 125	6-May 126	7-May 127	8-May 128	11-May 131	12-May 132	13-May 133	14-May 134	15-May 135	18-May 138	19-May 139	20-May 140	21-May 141	22-May 142	26-May 146	27-May 147	28-May 148	29-May 149	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	10.76	10.00	9.98	9.66	10.24	10.53	11.03	10.51	10.53	10.50	10.32	10.34	10.75	10.61	10.70	10.94	10.63	9.92	9.54	9.78	0.00%
	MIN	10.52	9.82	9.89	9.49	9.73	10.29	10.58	10.32	10.38	10.43	10.19	10.21	10.22	10.26	10.20	10.28	9.42	9.11	8.87	8.79	
	AVG	10.65	9.92	9.93	9.53	9.95	10.41	10.94	10.46	10.43	10.46	10.27	10.27	10.54	10.48	10.44	10.61	9.94	9.42	9.16	9.35	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	10.37	10.94	12.68	9.84	10.46	10.94	14.79	11.66	11.94	11.66	10.17	9.93	10.02	10.94	10.44	10.91	No	9.68	9.48	10.08	0.00%
	MIN	9.54	9.23	8.93	5.28	4.43	9.83	7.08	9.90	11.49	10.16	9.93	9.63	9.62	9.93	9.62	10.34	Data	9.21	8.90	8.85	
	AVG	10.12	9.99	10.75	8.14	8.13	10.34	9.89	10.96	11.68	11.26	10.05	9.84	9.87	10.41	10.14	10.62	Available	9.43	9.17	9.28	
RACINE*** MP 237.5	MAX	64.23	9.11	8.50	8.45	7.19	7.22	6.08	8.72	8.64	8.63	8.58	8.48	8.46	8.37	8.63	8.74	9.16	8.86	7.95	7.15	0.00%
	MIN	63.29	8.41	8.26	6.80	5.57	6.61	4.86	5.58	8.47	8.51	8.50	8.33	8.29	8.01	8.05	8.47	8.90	7.95	7.13	6.48	
	AVG	63.86	8.72	8.37	7.92	6.82	6.85	5.43	8.22	8.56	8.56	8.54	8.40	8.36	8.19	8.36	8.61	9.06	8.53	7.53	6.83	
REENUP*** MP 341.0 UPSTREAM	MAX	7.92	8.35	7.61	6.31	6.02	5.83	7.58	7.73	7.70	8.11	8.45	8.21	7.61	7.56	8.26	8.28	7.13	7.68	6.79	6.65	0.00%
	MIN	7.70	7.25	5.95	5.74	5.45	5.52	5.30	7.10	7.30	7.39	7.70	7.54	7.15	7.18	7.56	7.82	6.50	6.36	6.12	5.90	
	AVG	7.78	7.75	6.90	5.98	5.77	5.67	6.70	7.35	7.51	7.74	8.19	7.86	7.31	7.33	7.77	8.15	6.77	6.85	6.60	6.35	
OWNSTREAM	MAX	7.30	7.34	7.20	6.74	5.95	*	8.42	7.70	8.11	7.90	7.94	7.92	8.50	9.31	9.24	8.76	7.03	6.77	6.38	6.48	0.00%
	MIN	6.12	6.12	6.05	5.74	5.66	*	5.38	7.46	7.37	7.03	7.37	7.10	7.13	6.96	6.79	6.65	6.07	5.71	5.35	5.02	
	AVG	6.50	6.60	6.45	5.99	5.77	*	6.81	7.57	7.61	7.47	7.66	7.35	7.41	7.23	7.13	6.96	6.28	5.96	5.70	5.40	
ANNELTON MP 720.7	MAX	No	No	No	8.89	8.55	8.63	7.73	7.97	8.16	8.33	8.26	No	No	7.37	7.37	7.44	No	7.46	7.42	7.38	0.00%
	MIN	Data	Data	Data	8.72	8.46	8.52	7.66	7.77	8.11	8.29	8.15	Data	Data	7.25	7.09	*	Data	7.18	7.23	7.12	
	AVG	Available	Available	Available	8.81	8.49	8.58	7.71	7.87	8.13	8.31	8.20	Available	Available	7.31	7.28	6.06	Available	7.32	7.30	7.30	
EWBURGH MP 776.1	MAX	No	No	No	9.00	8.94	8.34	7.54	7.34	7.58	7.92	7.81	7.74	8.34	8.54	8.52	8.37	7.98	8.08	8.16	8.00	0.00%
	MIN	Data	Data	Data	8.88	8.71	8.20	7.33	7.28	7.38	7.80	7.58	7.59	8.13	8.46	8.42	8.20	7.92	7.89	7.92	7.75	
	AVG	Available	Available	Available	8.95	8.81	8.26	7.42	7.31	7.50	7.85	7.69	7.67	8.25	8.50	8.46	8.27	7.94	7.97	8.07	7.94	
HN T. MYERS MP 846.0	MAX	No	No	No	No	8.31	8.17	7.38	6.74	6.63	6.94	7.03	6.71	7.35	7.55	7.82	7.89	7.65	7.86	7.57	7.44	0.00%
	MIN	Data	Data	Data	Data	8.17	8.08	6.97	6.52	6.56	6.71	6.90	6.58	7.08	7.25	7.64	7.70	7.38	7.34	7.35	7.20	
	AVG	Available	Available	Available	Available	8.24	8.12	7.22	6.67	6.59	6.85	6.95	6.66	7.19	7.38	7.74	7.77	7.53	7.58	7.48	7.33	
MITHLAND MP 919.0	MAX	No	No	No	No	7.07	7.18	7.04	7.02	6.72	6.99	7.06	6.80	6.42	6.19	6.14	6.34	6.07	6.03	6.07	6.13	0.00%
	MIN	Data	Data	Data	Data	6.95	7.12	6.99	6.87	6.66	6.90	6.98	6.60	6.25	6.01	6.02	6.19	5.88	5.92	5.99	5.96	
	AVG	Available	Available	Available	Available	7.02	7.14	7.01	6.94	6.69	6.94	7.02	6.71	6.34	6.09	6.07	6.26	6.00	5.96	6.02	6.06	

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Daily Dissolved Oxygen June 2009																							
LENDAR DAY JULIAN DAY		1-Jun 152	2-Jun 153	3-Jun 154	4-Jun 155	5-Jun 156	8-Jun 159	9-Jun 160	10-Jun 161	11-Jun 162	12-Jun 163	15-Jun 166	16-Jun 167	17-Jun 168	18-Jun 169	19-Jun 170	22-Jun 173	23-Jun 174	24-Jun 175	25-Jun 176	26-Jun 177	30-Jun 181	Monthly % Exceedance
DNTGOMERY MP 31.7	MAX	9.19	9.45	9.04	9.16	9.23	9.26	9.09	9.12	9.29	8.88	9.41	9.77	10.33	9.62	No	*	7.17	*	*	8.82	8.64	0.00%
	MIN	8.84	8.76	8.80	8.85	8.86	8.79	7.87	7.18	8.19	8.49	8.99	9.12	8.92	9.00	Data	*	4.00	*	*	8.34	8.27	
	AVG	8.99	9.05	8.92	9.00	9.04	9.12	8.65	8.46	8.83	8.63	9.19	9.39	9.64	9.29	Available	*	6.28	*	*	8.66	8.44	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	9.59	9.77	9.98	9.20	9.33	9.54	10.29	10.04	10.22	9.72	9.93	9.90	9.18	9.23	9.08	9.29	9.00	9.26	11.16	9.78	8.67	0.00%
	MIN	9.11	9.27	8.70	8.55	8.49	8.78	8.75	9.15	9.42	9.39	9.17	9.02	8.54	8.99	7.49	8.55	7.53	7.92	5.63	8.49	8.33	
	AVG	9.41	9.53	9.22	8.77	9.01	9.21	9.41	9.61	10.02	9.58	9.47	9.37	8.89	9.10	8.40	8.97	8.01	8.77	8.15	9.00	8.49	
RACINE*** MP 237.5	MAX	5.99	7.79	7.92	7.54	7.43	7.24	7.17	6.97	6.61	6.37	6.33	6.62	6.17	5.96	5.98	6.20	5.80	5.74	5.58	5.80	5.96	0.00%
	MIN	5.51	5.58	7.45	7.38	7.18	7.04	6.95	6.58	6.27	6.21	5.87	5.87	5.96	5.41	5.41	5.72	5.32	5.35	5.47	5.47	5.50	
	AVG	5.76	7.40	7.69	7.46	7.30	7.14	7.06	6.79	6.44	6.29	6.12	6.13	6.07	5.60	5.80	6.04	5.44	5.57	5.53	5.61	5.71	
REENUP*** MP 341.0 UPSTREAM	MAX	6.84	6.79	6.98	7.18	6.84	7.34	7.03	6.60	7.34	7.32	5.28	5.62	5.74	5.66	No	6.24	6.10	5.71	5.52	No	6.07	0.00%
	MIN	6.26	6.60	6.70	6.60	6.60	4.01	6.50	6.07	5.81	6.58	4.90	4.78	4.90	4.87	Data	5.74	5.33	5.09	5.26	Data	5.47	
	AVG	6.58	6.69	6.87	6.81	6.70	6.66	6.65	6.35	6.81	6.86	5.01	5.16	5.30	5.38	Available	6.02	5.89	5.50	5.38	Available	5.75	
OWNSTREAM	MAX	8.45	9.89	10.39	6.22	8.52	10.01	6.46	*	6.58	6.58	6.22	6.19	6.24	6.17	No	6.48	6.62	6.38	5.66	No	9.82	0.00%
	MIN	4.39	6.50	6.17	5.88	5.62	5.16	5.09	*	4.70	6.38	6.12	6.05	6.00	5.95	Data	6.12	6.34	5.62	4.73	Data	5.14	
	AVG	6.60	6.94	7.00	6.07	5.99	6.54	5.49	*	5.88	6.48	6.17	6.12	6.12	6.04	Available	6.33	6.48	5.90	5.08	Available	5.96	
ANNELTON MP 720.7	MAX	7.37	7.12	7.14	7.02	6.92	6.91	6.78	6.51	6.46	6.53	6.18	6.25	6.29	*	No	*	*	*	*	*	*	0.00%
	MIN	7.01	6.82	6.94	6.91	6.76	6.59	6.60	6.32	6.34	6.34	6.01	6.14	6.15	*	Data	*	*	*	*	*	*	
	AVG	7.15	7.01	7.04	6.95	6.86	6.78	6.72	6.43	6.41	6.45	6.10	6.20	6.21	*	Available	*	*	*	*	*	*	
EWBURGH** MP 776.1	MAX	8.20	8.27	8.14	8.21	8.02	7.97	7.91	7.60	7.47	7.35	7.12	7.14	7.21	7.14	7.12	7.06	6.70	6.90	7.21	7.22	7.32	0.00%
	MIN	8.00	8.11	8.00	8.00	7.76	7.83	7.75	7.48	7.28	7.07	6.96	6.98	7.08	7.00	6.84	6.49	6.64	6.38	7.06	6.89	7.05	
	AVG	8.09	8.18	8.06	8.09	7.92	7.89	7.86	7.55	7.36	7.21	7.04	7.04	7.15	7.07	7.02	6.77	6.67	6.57	7.12	7.11	7.18	
N T. MYERS** MP 846.0	MAX	7.63	7.09	7.04	7.03	6.93	6.96	6.98	7.79	7.72	7.52	7.15	7.13	6.85	6.90	6.93	7.01	6.91	6.90	*	*	6.83	0.00%
	MIN	7.50	6.95	6.93	6.87	6.78	6.75	6.83	7.60	7.50	7.28	7.02	6.80	6.76	6.75	6.78	6.81	6.64	6.38	*	*	6.26	
	AVG	7.56	7.04	6.99	6.97	6.89	6.87	6.90	7.70	7.61	7.40	7.09	6.95	6.81	6.83	6.85	6.92	6.83	6.57	*	*	6.52	
ITHLAND** MP 919.0	MAX	5.83	5.72	5.90	6.18	6.30	6.90	6.87	6.67	7.30	7.19	6.27	6.25	6.37	6.26	6.22	6.00	5.79	5.74	5.66	5.43	6.90	0.00%
	MIN	5.59	5.57	5.81	6.06	6.25	6.71	6.75	6.55	7.09	6.93	6.03	5.97	6.21	6.10	6.10	5.71	5.67	5.51	5.56	5.33	6.66	
	AVG	5.74	5.65	5.85	6.12	6.27	6.81	6.80	6.62	7.23	7.09	6.17	6.09	6.30	6.16	6.15	5.87	5.73	5.60	5.61	5.40	6.79	

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Daily Dissolved Oxygen July 2009																						
LENDAR DAY		1-Jul	2-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	21-Jul	22-Jul	23-Jul	24-Jul	28-Jul	29-Jul	30-Jul	31-Jul	Monthly % Exceedance
ULIAN DAY		182	183	187	188	189	190	191	194	195	196	197	198	202	203	204	205	209	210	211	212	
DNTGOMERY MP 31.7	MAX	9.20	8.68	8.90	8.82	8.98	9.02	9.67	9.33	9.47	9.83	8.79	8.42	7.05	7.34	7.46	7.78	8.27	8.57	8.33	8.36	0.00%
	MIN	8.09	8.04	8.51	8.19	8.43	8.42	8.73	8.56	8.36	8.57	8.24	7.82	6.69	6.95	7.09	7.34	7.73	8.00	7.84	6.89	
	AVG	8.58	8.47	8.70	8.60	8.66	8.74	9.20	8.89	8.90	9.02	8.59	8.01	6.86	7.14	7.36	7.62	8.05	8.30	8.15	7.99	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	8.72	13.74	8.12	7.74	8.88	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN	7.17	6.03	7.56	6.96	7.65	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	
	AVG	7.95	8.21	7.92	7.34	8.32	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
RACINE*** MP 237.5	MAX	5.84	5.53	5.62	5.59	5.56	5.56	5.93	6.04	6.13	No	5.80	5.64	5.76	5.42	5.32	5.43	5.32	5.25	5.11	6.04	5.00%
	MIN	5.53	5.34	5.28	5.36	5.34	5.34	5.61	5.65	5.65	Data	5.31	5.30	5.38	5.03	4.74	4.76	4.65	4.97	4.61	4.77	
	AVG	5.64	5.46	5.53	5.49	5.44	5.42	5.77	5.80	5.85	Available	5.61	5.42	5.58	5.17	5.03	5.11	5.08	5.08	4.92	5.89	
REENUP*** MP 341.0 UPSTREAM	MAX	6.53	6.10	6.07	6.72	6.50	6.24	6.12	No	No	No	No	No	No	No	5.14	5.02	6.53	7.18	6.67	8.74	8.00%
	MIN	5.95	5.88	5.47	6.10	5.86	5.62	5.40	Data	Data	Data	Data	Data	Data	Data	4.97	4.82	5.28	5.86	5.74	5.81	
	AVG	6.20	5.97	5.77	6.31	6.04	5.91	5.61	Available	Available	Available	Available	Available	Available	Available	5.04	4.92	5.48	6.17	6.02	6.40	
OWNSTREAM	MAX	6.19	5.95	9.82	6.53	6.24	6.55	6.34	No	No	No	No	No	No	No	5.78	5.76	6.00	5.93	5.76	5.95	0.00%
	MIN	5.78	5.76	5.38	6.19	6.00	5.93	5.86	Data	Data	Data	Data	Data	Data	Data	5.47	5.45	5.33	5.33	5.38	5.57	
	AVG	5.93	5.87	5.99	6.35	6.12	6.10	6.07	Available	Available	Available	Available	Available	Available	Available	5.63	5.65	5.64	5.67	5.61	5.73	
ANNELTON MP 720.7	MAX	5.76	6.10	6.59	6.65	6.54	6.41	7.79	6.49	*	*	7.05	7.47	7.62	7.88	7.08	6.96	6.60	11.16	8.06	8.03	0.00%
	MIN	5.57	5.70	6.33	6.37	5.99	6.05	6.09	5.92	*	*	6.67	6.58	6.87	6.80	6.83	6.61	6.35	8.39	7.75	7.52	
	AVG	5.64	5.92	6.43	6.51	6.29	6.20	6.62	6.22	*	*	6.87	7.14	7.08	7.26	6.95	6.78	6.46	9.78	7.93	7.73	
FWBURGH** MP 776.1	MAX	8.37	8.93	8.36	7.98	8.00	8.26	10.08	8.57	9.32	8.12	7.58	7.35	8.30	7.34	7.36	7.82	7.85	7.53	7.41	7.13	0.00%
	MIN	7.39	7.82	7.30	7.18	7.21	7.32	7.44	7.35	7.26	7.10	6.72	6.89	6.57	7.01	6.62	7.17	6.71	6.81	7.05	6.85	
	AVG	7.84	8.30	7.77	7.49	7.57	7.74	8.11	7.86	8.01	7.58	7.11	7.10	7.41	7.19	7.00	7.39	7.20	7.08	7.21	6.92	
N T. MYERS** MP 846.0	MAX	7.67	7.93	8.30	8.03	7.70	8.71	9.22	7.86	8.49	8.67	8.97	8.89	9.60	6.53	5.57	6.00	5.92	6.00	6.63	5.88	0.00%
	MIN	6.89	7.41	7.76	7.26	6.90	7.02	7.43	6.65	7.09	7.32	7.34	7.60	8.84	5.56	5.12	5.62	5.45	5.40	6.13	5.36	
	AVG	7.25	7.64	8.02	7.72	7.30	7.74	7.94	7.15	7.66	7.96	8.07	8.23	9.14	6.02	5.31	5.81	5.78	5.69	6.42	5.55	
MITHLAND** MP 919.0	MAX	6.57	6.74	7.36	7.38	8.14	8.37	8.88	7.78	7.42	6.47	5.86	6.73	8.59	7.58	7.03	6.75	6.32	7.51	7.23	6.41	0.00%
	MIN	6.10	6.09	6.65	6.80	6.98	7.57	7.20	6.49	5.75	5.56	5.37	5.41	7.49	7.08	6.16	5.74	5.79	6.39	6.42	5.72	
	AVG	6.31	6.43	6.95	7.09	7.35	7.82	7.78	7.10	6.69	5.91	5.59	6.07	8.00	7.25	6.59	6.43	6.17	7.01	6.87	6.02	

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Daily Dissolved Oxygen August 2009																							
LENDAR DAY ULIAN DAY		3-Aug 215	4-Aug 216	5-Aug 217	6-Aug 218	7-Aug 219	10-Aug 222	11-Aug 223	12-Aug 224	13-Aug 225	14-Aug 226	17-Aug 229	18-Aug 230	19-Aug 231	20-Aug 232	21-Aug 233	24-Aug 236	25-Aug 237	26-Aug 238	27-Aug 239	28-Aug 240	31-Aug 243	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	7.95	8.31	8.24	8.26	8.31	8.61	8.60	8.75	8.58	8.24	8.40	8.38	8.24	8.37	8.40	7.60	7.70	7.85	8.43	9.02	7.52	0.00%
	MIN	7.77	7.97	8.11	8.14	8.02	8.19	8.27	8.18	7.94	8.09	7.98	7.81	5.42	5.17	7.43	7.35	7.34	7.57	7.76	7.66	7.01	
	AVG	7.87	8.09	8.18	8.19	8.17	8.37	8.46	8.50	8.22	8.18	8.20	8.19	7.56	7.50	7.86	7.50	7.54	7.73	8.13	8.21	7.31	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	No	No	No	No	No	No	9.87	9.06	10.76	13.86	*	*	8.55	8.31	8.39	9.17	9.65	8.58	8.82	8.66	8.52	0.00%
	MIN	Data	Data	Data	Data	Data	Data	7.71	8.28	5.00	4.43	*	*	7.94	7.67	7.55	8.01	8.12	8.30	8.42	8.07	7.80	
	AVG	Available	Available	Available	Available	Available	Available	8.48	8.70	9.70	10.65	*	*	8.27	8.03	8.04	8.44	8.55	8.42	8.67	8.42	8.18	
RACINE*** MP 237.5	MAX	5.79	5.54	5.35	5.27	5.21	*	*	*	*	*	*	*	*	*	*	8.38	8.38	8.22	6.27	6.18	5.67	0.00%
	MIN	5.54	5.16	5.16	5.05	4.95	*	*	*	*	*	*	*	*	*	*	8.10	7.94	6.23	6.13	5.93	5.48	
	AVG	5.67	5.37	5.25	5.17	5.08	*	*	*	*	*	*	*	*	*	*	8.23	8.11	6.96	6.18	6.07	5.58	
REENUP*** MP 341.0 UPSTREAM	MAX	7.85	No	No	6.36	No	No	6.62	9.12	7.32	7.56	8.14	No	No	No	No	No	No	5.54	5.28	5.98	*	30.00%
	MIN	4.80	Data	Data	4.97	Data	Data	4.82	5.42	5.18	5.26	5.06	Data	Data	Data	Data	Data	Data	4.68	4.49	4.27	*	
	AVG	5.37	Available	Available	5.22	Available	Available	5.40	5.89	5.55	5.59	5.46	Available	Available	Available	Available	Available	Available	4.86	4.64	4.48	*	
	OWNSTREAM	MAX	*	No	No	*	No	No	*	5.47	5.09	*	8.74	No	No	No	No	No	6.12	5.78	6.02	*	33.00%
		MIN	*	Data	Data	*	Data	Data	*	4.03	4.44	*	6.07	Data	Data	Data	Data	Data	5.45	5.33	5.06	*	
		AVG	*	Available	Available	*	Available	Available	*	4.87	4.73	*	6.72	Available	Available	Available	Available	Available	5.80	5.52	5.53	*	
ANNELTON MP 720.7	MAX	7.19	6.92	6.83	6.72	6.92	6.82	7.03	6.81	7.97	7.72	5.59	5.75	5.82	5.94	5.48	6.18	6.48	6.32	6.56	7.73	No	0.00%
	MIN	6.76	6.72	6.41	6.44	6.66	6.68	6.82	6.62	7.71	6.34	5.44	5.53	5.53	5.43	5.35	5.94	6.23	5.92	6.02	5.97	Data	
	AVG	6.99	6.81	6.61	6.58	6.76	6.75	6.96	6.71	7.83	7.51	5.53	5.65	5.69	5.68	5.41	6.03	6.32	6.12	6.30	6.39	Available	
FWBURGH ** MP 776.1	MAX	6.24	6.50	6.73	6.39	5.82	6.80	6.85	6.54	6.46	6.55	7.21	8.02	8.04	7.64	8.21	7.48	7.14	7.54	7.79	10.00	7.18	0.00%
	MIN	5.97	6.19	6.43	5.79	5.52	6.42	6.46	6.33	6.26	6.25	6.42	6.78	7.01	6.94	7.02	6.89	6.77	6.64	6.94	7.28	6.10	
	AVG	6.07	6.30	6.56	6.14	5.70	6.56	6.65	6.42	6.35	6.38	6.77	7.24	7.42	7.14	7.57	7.22	6.94	7.08	7.33	8.30	6.51	
N T. MYERS** MP 846.0	MAX	5.46	*	6.24	6.45	6.35	6.13	6.32	6.46	6.60	6.55	6.81	7.16	7.36	7.44	6.63	7.58	8.39	8.39	7.88	7.66	6.38	0.00%
	MIN	4.96	*	6.14	6.26	5.87	5.83	6.00	6.16	6.41	6.44	6.44	6.49	6.58	6.65	6.06	6.91	7.66	7.26	6.61	6.12	5.69	
	AVG	5.21	*	6.18	6.36	6.10	5.97	6.18	6.31	6.49	6.50	6.56	6.76	6.89	6.90	6.46	7.19	7.99	7.92	7.28	6.59	6.07	
HITHLAND** MP 919.0	MAX	6.99	6.21	5.79	5.76	6.16	5.63	5.64	5.81	5.64	5.69	6.18	6.27	6.15	6.16	5.84	*	6.45	6.70	7.09	7.16	5.70	0.00%
	MIN	6.20	5.60	5.46	5.55	5.68	5.25	4.99	4.96	5.11	5.13	5.67	4.85	4.74	4.90	4.94	*	4.97	5.44	5.06	5.27	5.19	
	AVG	6.71	5.82	5.66	5.66	5.91	5.47	5.43	5.45	5.38	5.37	5.93	5.85	5.68	5.52	5.39	*	5.65	5.89	5.82	6.21	5.39	

problem with instrument
 tes ORSANCO data
 ates hydroelectric dam

Daily Dissolved Oxygen September 2009																							
LENDAR DAY ULIAN DAY		1-Sep 244	2-Sep 245	3-Sep 246	4-Sep 247	8-Sep 251	9-Sep 252	10-Sep 253	11-Sep 254	14-Sep 257	15-Sep 258	16-Sep 259	17-Sep 260	18-Sep 261	21-Sep 264	22-Sep 265	23-Sep 266	24-Sep 267	25-Sep 268	28-Sep 271	29-Sep 272	30-Sep 273	Monthly % Exceedance
DNTGOMERY MP 31.7	MAX	7.73	8.61	9.17	9.14	9.20	9.19	8.57	8.15	8.08	8.06	8.19	8.25	8.06	8.68	9.11	8.10	7.77	7.88	7.85	7.89	8.06	0.00%
	MIN	7.43	8.33	8.38	8.64	8.20	8.32	7.96	7.59	7.68	7.44	7.77	7.70	7.61	7.81	7.64	7.62	7.52	7.41	7.44	7.56	7.11	
	AVG	7.57	8.48	8.68	8.94	8.76	8.63	8.17	7.82	7.83	7.81	7.98	8.00	7.79	8.13	7.96	7.85	7.65	7.67	7.66	7.70	7.74	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	8.48	8.07	8.27	8.99	8.58	8.79	8.58	8.79	*	*	*	*	*	*	*	8.60	8.84	8.81	8.42	8.34	8.31	0.00%
	MIN	7.91	6.80	7.22	8.13	8.30	8.42	8.28	8.40	*	*	*	*	*	*	*	7.43	8.36	8.34	7.25	8.15	8.09	
	AVG	8.24	7.42	7.97	8.50	8.45	8.64	8.43	8.59	*	*	*	*	*	*	*	8.41	8.64	8.58	8.24	8.26	8.19	
RACINE*** MP 237.5	MAX	5.98	5.81	5.92	5.96	6.07	5.77	5.61	5.36	6.83	6.88	7.49	7.40	7.12	6.52	6.39	6.28	5.96	6.14	6.42	6.57	6.79	0.00%
	MIN	5.44	5.63	5.65	5.76	5.75	5.56	5.26	5.12	6.26	6.47	6.65	6.82	6.56	6.15	6.26	5.92	5.69	5.74	6.16	6.25	6.56	
	AVG	5.76	5.73	5.75	5.84	5.91	5.68	5.42	5.28	6.57	6.73	7.00	7.16	6.77	6.33	6.33	6.11	5.80	5.89	6.28	6.45	6.71	
REENUP*** MP 341.0 UPSTREAM	MAX	5.64	5.52	5.59	6.17	9.17	5.59	24.60	6.10	6.10	6.50	5.98	5.66	5.64	5.57	5.54	5.76	5.57	5.16	4.82	5.66	6.00	5.00%
	MIN	5.35	5.09	4.97	4.99	4.56	4.97	5.52	6.10	6.10	5.33	5.28	5.28	5.06	5.30	5.16	5.18	4.97	4.87	4.68	4.39	5.76	
	AVG	5.50	5.25	5.22	5.43	5.73	5.34	6.77	6.10	6.10	6.09	5.66	5.44	5.38	5.43	5.40	5.53	5.35	5.06	4.74	5.22	5.86	
OWNSTREAM	MAX	10.49	7.68	7.37	7.75	7.66	5.86	6.70	6.10	6.10	*	*	*	*	*	*	*	6.36	6.24	5.71	6.34	6.94	0.00%
	MIN	6.29	6.55	6.94	7.06	5.40	5.26	5.23	6.10	6.10	*	*	*	*	*	*	*	6.00	5.88	5.45	5.54	5.62	
	AVG	7.02	6.92	7.10	7.31	5.96	5.36	5.89	6.10	6.10	*	*	*	*	*	*	*	6.16	6.07	5.59	5.91	6.65	
ANNELTON MP 720.7	MAX	No	7.19	7.49	7.11	6.86	6.80	6.83	6.51	6.16	6.66	7.06	7.46	7.88	7.46	6.94	6.55	6.28	6.29	6.12	6.72	6.91	0.00%
	MIN	Data	7.01	7.09	6.79	6.58	6.44	6.24	6.13	5.91	6.41	6.82	7.13	7.39	6.95	6.64	6.23	6.13	6.10	5.77	6.36	6.54	
	AVG	Available	7.13	7.19	6.92	6.68	6.52	6.42	6.33	6.06	6.52	6.97	7.26	7.56	7.22	6.80	6.41	6.20	6.20	5.91	6.56	6.73	
EWBURGH ** MP 776.1	MAX	9.12	11.53	8.78	8.47	7.96	8.14	8.10	8.72	8.96	8.67	8.87	8.57	8.54	7.84	7.93	7.83	7.37	7.38	7.30	7.37	9.39	0.00%
	MIN	8.04	8.03	7.83	7.59	7.19	7.27	7.22	7.12	7.39	7.52	7.82	7.64	7.57	7.33	7.41	6.92	6.95	6.65	6.56	7.09	7.31	
	AVG	8.51	9.33	8.32	7.94	7.53	7.64	7.55	7.63	7.95	8.02	8.14	7.95	7.89	7.56	7.63	7.41	7.17	6.93	6.92	7.24	8.03	
N T. MYERS** MP 846.0	MAX	7.91	9.24	8.50	7.93	7.71	8.57	7.59	7.65	7.69	7.58	7.64	7.64	7.65	7.43	7.38	7.07	7.03	6.88	7.15	7.26	8.69	0.00%
	MIN	7.33	7.54	7.39	7.12	6.96	7.47	6.82	6.41	6.61	6.57	6.76	6.88	6.81	6.95	7.02	6.83	6.76	6.49	6.67	7.06	7.10	
	AVG	7.67	8.13	7.97	7.54	7.35	7.90	7.21	6.86	7.08	7.09	7.12	7.16	7.21	7.23	7.26	6.99	6.89	6.73	6.87	7.16	7.19	
HITHLAND** MP 919.0	MAX	5.12	5.45	5.92	6.02	4.89	4.77	5.03	5.52	5.02	7.96	7.84	7.77	7.81	7.22	7.21	7.27	7.20	7.05	6.70	6.12	5.76	29.00%
	MIN	4.65	4.90	4.86	5.17	4.39	3.91	3.75	3.82	3.42	7.84	7.68	7.53	7.42	7.14	7.12	7.07	7.02	6.88	6.14	5.77	5.34	
	AVG	4.92	5.19	5.46	5.46	4.69	4.40	4.47	4.66	4.30	7.92	7.78	7.62	7.59	7.17	7.17	7.13	7.09	6.96	6.40	5.89	5.53	

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen October 2009																							
LENDAR DAY ULIAN DAY		1-Oct 274	2-Oct 275	5-Oct 278	6-Oct 279	7-Oct 280	8-Oct 281	9-Oct 282	12-Oct 285	13-Oct 286	14-Oct 287	15-Oct 288	16-Oct 289	19-Oct 292	20-Oct 293	22-Oct 295	23-Oct 296	26-Oct 299	27-Oct 300	28-Oct 301	29-Oct 302	30-Oct 303	Monthly % Exceedance
DNTGOMERY MP 31.7	MAX	8.44	8.86	9.38	9.50	9.46	9.54	9.52	10.34	10.21	10.25	10.33	10.42	11.00	11.28	11.55	11.68	11.69	11.12	11.19	11.12	11.17	0.00%
	MIN	8.18	8.16	9.10	8.04	7.27	8.84	8.91	9.97	9.55	10.04	9.98	9.73	10.80	11.18	11.41	11.50	11.45	10.84	11.08	11.04	10.89	
	AVG	8.30	8.66	9.29	9.20	8.61	9.35	9.35	10.20	9.94	10.17	10.22	10.26	10.91	11.23	11.50	11.60	11.58	10.93	11.12	11.08	11.00	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	8.28	8.45	8.94	9.06	9.17	9.33	9.47	9.84	10.19	10.29	10.01	9.98	10.25	10.50	10.83	10.88	10.88	10.97	11.57	11.13	11.06	0.00%
	MIN	8.13	7.91	8.70	8.73	8.87	9.02	9.29	9.54	9.80	9.60	9.72	9.69	10.04	10.16	10.40	10.43	10.59	10.53	10.71	10.70	10.68	
	AVG	8.22	8.28	8.83	8.88	9.03	9.20	9.38	9.68	10.02	9.93	9.88	9.84	10.14	10.36	10.53	10.55	10.73	10.65	11.21	10.89	10.88	
RACINE*** MP 237.5	MAX	6.72	7.03	7.45	7.66	7.75	7.95	7.87	8.09	8.25	8.16	8.22	8.08	7.98	7.96	8.16	8.32	8.68	8.94	9.90	9.07	9.03	0.00%
	MIN	6.51	6.42	7.18	7.33	7.58	7.71	7.71	7.82	7.96	7.93	7.99	7.91	7.76	7.78	7.93	8.13	8.30	8.63	8.81	8.85	8.89	
	AVG	6.64	6.54	7.35	7.55	7.67	7.84	7.79	7.93	8.10	8.03	8.11	8.03	7.88	7.88	8.09	8.19	8.52	8.80	8.95	8.97	8.95	
REENUP*** MP 341.0 UPSTREAM	MAX	6.07	6.36	6.19	6.48	6.02	6.74	7.15	7.42	7.15	7.20	6.77	6.84	7.75	11.57	8.04	7.90	8.02	7.99	8.06	8.04	8.35	0.00%
	MIN	5.57	5.76	6.00	5.83	5.90	5.95	6.70	7.06	6.74	6.77	6.50	6.58	7.20	7.80	7.70	7.51	7.73	7.61	7.66	7.82	7.99	
	AVG	5.82	6.10	6.06	6.10	5.97	6.62	6.91	7.22	6.89	6.94	6.70	6.74	7.52	8.01	7.90	7.70	7.93	7.76	7.89	7.93	8.21	
OWNSTREAM	MAX	7.08	7.32	7.44	7.10	6.86	7.80	7.94	8.16	8.06	8.09	7.82	7.78	*	*	8.76	8.21	8.88	8.66	8.57	8.76	9.29	0.00%
	MIN	6.43	7.06	7.01	6.65	6.34	6.41	7.63	7.90	7.73	7.75	7.70	7.13	*	*	7.78	7.70	8.64	8.45	8.45	8.57	8.78	
	AVG	6.80	7.19	7.20	6.95	6.63	7.63	7.83	8.03	7.89	7.85	7.78	7.36	*	*	8.18	8.00	8.79	8.55	8.50	8.68	8.98	
ANNELTON MP 720.7	MAX	6.97	7.02	7.50	7.53	7.40	7.41	7.40	7.69	7.51	7.76	7.84	7.97	8.78	8.75	8.75	8.77	9.16	8.90	8.79	9.31	9.57	0.00%
	MIN	6.64	6.76	7.34	7.39	7.23	7.19	7.22	7.49	7.41	7.60	7.67	7.86	8.65	8.60	8.58	8.52	9.03	8.65	8.65	9.16	9.32	
	AVG	6.86	6.94	7.44	7.46	7.31	7.28	7.32	7.62	7.45	7.67	7.77	7.93	8.72	8.67	8.68	8.61	9.08	8.79	8.72	9.23	9.44	
EWBURGH ** MP 776.1	MAX	7.59	8.02	8.13	7.90	8.38	8.43	8.41	7.97	7.97	8.01	8.24	8.20	8.73	9.02	9.10	9.22	9.11	9.26	9.24	9.29	9.68	0.00%
	MIN	7.06	7.58	7.69	7.68	7.85	8.03	7.86	7.32	7.72	7.71	7.86	8.10	8.55	8.68	8.94	9.07	8.68	9.09	9.01	8.91	0.06	
	AVG	7.32	7.80	7.89	7.79	8.08	8.19	8.16	7.73	7.84	7.86	8.07	8.15	8.63	8.85	9.00	9.14	8.93	9.19	9.13	9.06	9.36	
N T. MYERS** MP 846.0	MAX	7.34	7.74	8.21	8.12	8.32	8.21	8.35	7.52	7.34	7.81	7.87	8.16	8.65	8.91	8.93	9.23	9.30	9.21	8.99	9.27	9.16	0.00%
	MIN	7.05	7.30	7.91	7.92	7.96	7.96	7.96	7.10	7.09	7.37	7.76	7.83	8.38	8.58	8.82	8.86	9.16	8.94	8.86	9.01	8.98	
	AVG	7.16	7.49	8.02	8.02	8.10	8.09	8.18	7.22	7.19	7.66	7.83	7.97	8.49	8.76	8.88	9.08	9.24	9.06	8.91	9.17	9.07	
MITHLAND** MP 919.0	MAX	6.57	6.64	7.40	7.37	7.82	7.50	7.73	6.71	6.45	6.43	6.91	7.30	7.95	8.23	8.38	8.50	8.56	8.48	8.28	7.88	8.19	0.00%
	MIN	0.00	6.41	6.95	7.13	7.16	7.22	7.41	6.28	6.16	6.17	6.40	6.91	7.66	7.93	8.22	8.38	8.36	8.30	7.82	7.61	7.86	
	AVG	5.73	6.52	7.18	7.27	7.41	7.36	7.57	6.44	6.26	6.29	6.64	7.13	7.76	8.09	8.29	8.44	8.45	8.37	8.09	7.72	8.05	

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen May 2010																					
LENDAR DAY ULIAN DAY		3-May 123	4-May 124	5-May 125	6-May 126	10-May 130	11-May 131	12-May 132	13-May 133	14-May 134	18-May 138	19-May 139	20-May 140	21-May 141	24-May 144	25-May 145	26-May 146	27-May 147	28-May 148	Monthly % Exceedance	
ONTGOMERY MP 31.7	MAX MIN AVG	10.51 10.15 10.37	10.56 10.25 10.38	10.05 9.54 9.70	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	
ANNIBAL*** MP 126.4 UPSTREAM	MAX MIN AVG	10.71 10.23 10.45	10.16 9.44 9.76	9.54 9.17 9.32	9.36 9.18 9.28	9.12 8.88 9.01	9.36 8.96 9.11	9.20 8.94 9.08	9.60 8.99 9.49	9.48 9.32 9.40	9.33 8.37 8.65	9.66 9.24 9.44	9.42 8.82 9.03	11.13 8.87 10.13	9.83 8.88 9.07	9.87 9.26 9.47	9.77 8.61 8.86	8.96 8.61 8.79	8.99 8.55 8.82	0.00%	
RACINE*** MP 237.5	MAX MIN AVG	7.29 6.54 7.04	6.99 5.65 6.37	7.47 5.65 6.62	7.59 7.36 7.46	8.87 8.22 8.50	9.21 8.65 8.94	9.67 8.88 9.30	No Data Available	8.83 8.38 8.61	8.14 7.90 8.03	8.08 7.66 7.82	7.77 5.59 7.56	* * *	8.07 7.93 8.02	8.02 7.67 7.85	7.76 7.61 7.67	7.60 7.42 7.52	7.54 7.40 7.46	0.00%	
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	8.02 6.58 7.39	6.55 5.23 5.81	* * *	* * *	6.38 6.00 6.23	6.55 6.43 6.48	6.48 6.26 6.40	7.75 6.07 6.88	7.54 6.72 7.10	6.10 4.18 5.81	5.90 5.11 5.63	6.79 5.02 6.20	* * *	7.22 6.43 6.82	7.18 6.74 6.98	6.84 5.78 6.55	6.74 6.34 6.56	6.38 6.10 6.22	0.00%	
DOWNSTREAM	MAX MIN AVG	9.77 8.83 9.05	10.13 8.76 9.07	10.32 8.69 8.94	8.83 7.56 8.12	7.34 6.84 6.95	7.13 6.70 6.87	6.74 6.36 6.55	* * *	7.51 5.64 5.86	* * *	* * *	* * *	* * *	7.80 7.34 7.50	7.92 7.51 7.65	7.68 7.34 7.53	8.02 7.39 7.59	7.63 7.39 7.48	0.00%	
CALPINE*** 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	
ANNELTON MP 720.7	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	7.61 7.40 7.51	7.57 7.44 7.49	7.56 7.33 7.46	7.94 7.64 7.80	7.42 7.23 7.33	7.38 7.31 7.36	7.24 7.21 7.22	7.10 6.92 6.97	7.04 6.79 6.90	0.00%	
NEWBURGH MP 776.1	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	8.13 7.99 8.05	8.22 8.04 8.14	8.32 7.98 8.08	7.71 7.57 7.61	7.76 7.54 7.62	7.71 7.56 7.63	7.87 7.67 7.75	7.90 7.74 7.82	0.00%	
HN T. MYERS MP 846.0	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	7.33 7.11 7.19	7.23 6.99 7.12	7.25 6.98 7.13	7.67 7.45 7.52	7.57 7.27 7.42	7.37 7.19 7.27	7.31 7.10 7.18	7.27 7.04 7.12	7.26 7.12 7.19	0.00%	
MITHLAND MP 919.0	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	6.55 6.42 6.49	6.57 6.41 6.49	6.68 6.56 6.64	6.95 6.87 6.93	7.10 6.92 6.99	6.74 6.44 6.58	6.49 6.34 6.43	6.48 6.26 6.35	0.00%	

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen June 2010																							
LENDAR DAY ULIAN DAY		1-Jun 152	2-Jun 153	3-Jun 154	4-Jun 155	7-Jun 158	8-Jun 159	9-Jun 160	11-Jun 162	14-Jun 165	15-Jun 166	16-Jun 167	17-Jun 168	18-Jun 169	21-Jun 172	22-Jun 173	23-Jun 174	24-Jun 175	25-Jun 176	28-Jun 179	29-Jun 180	30-Jun 181	Monthly % Exceedance
ONTGOMERY MP 31.7	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
ANNIBAL*** MP 126.4 UPSTREAM	MAX MIN AVG	7.43 6.29 7.05	9.53 6.30 8.38	9.17 8.40 8.69	8.87 7.88 8.34	9.24 6.80 8.80	9.14 7.70 8.83	10.65 7.38 7.77	9.81 5.75 8.62	8.78 8.45 8.61	8.76 8.33 8.58	8.75 8.28 8.45	8.51 8.07 8.36	8.75 8.37 8.58	9.54 8.22 9.08	8.85 7.88 8.31	7.85 7.34 7.58	8.16 7.32 7.96	8.40 7.82 8.02	6.83 6.60 6.75	8.00 6.57 7.69	7.86 7.11 7.41	0.00%
RACINE*** MP 237.5	MAX MIN AVG	7.48 7.13 7.32	7.14 6.13 6.73	No Data Available	* * *	* * *	* * *	5.94 5.15 5.63	6.14 5.76 5.92	6.16 5.91 6.02	6.26 5.84 6.06	5.95 5.55 5.77	6.12 5.85 5.97	6.22 6.03 6.13	6.14 5.89 6.02	6.03 5.85 5.93	5.98 5.76 5.87	6.12 5.60 5.94	81.17 80.77 80.95	5.44 5.06 5.23	6.45 4.78 5.73	6.24 5.87 6.06	0.00%
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	6.79 6.36 6.61	7.34 6.19 6.70	7.10 6.67 6.85	7.22 6.34 6.71	6.07 5.69 5.90	5.71 5.35 5.54	5.50 4.70 5.07	5.26 4.80 5.05	5.69 5.35 5.50	6.05 5.78 5.91	5.88 5.54 5.68	5.93 5.66 5.83	6.02 3.31 5.53	5.93 5.47 5.65	6.19 5.66 5.99	6.10 5.52 5.82	5.45 4.46 4.86	5.64 4.63 5.12	No Data Available	No Data Available	No Data Available	5.50%
DOWNSTREAM	MAX MIN AVG	8.50 7.75 7.98	8.35 7.94 8.10	8.71 8.18 8.33	9.19 8.18 8.62	* * *	* * *	* * *	* * *	5.62 5.42 5.50	5.66 5.40 5.51	5.45 5.33 5.39	5.47 4.73 5.01	5.66 4.25 5.55	5.18 4.80 5.00	5.78 5.02 5.57	5.71 5.23 5.44	5.42 4.97 5.22	5.52 4.97 5.16	No Data Available	No Data Available	No Data Available	0.00%
CALPINE*** 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
ANNELTON MP 720.7	MAX MIN AVG	6.63 6.29 6.47	6.73 6.41 6.55	* * *	* * *	* * *	7.07 6.65 6.91	7.04 6.76 6.91	7.09 6.76 6.94	6.44 6.18 6.33	6.69 6.36 6.56	6.17 6.03 6.09	5.80 5.67 5.72	5.91 5.83 5.87	6.06 5.88 6.01	5.58 4.94 5.34	5.34 5.03 5.21	5.26 5.06 5.18	5.26 4.98 5.14	5.70 5.42 5.55	5.94 5.58 5.80	6.18 5.72 6.02	0.00%
NEWBURGH MP 776.1	MAX MIN AVG	7.43 7.12 7.33	7.38 7.02 7.16	7.20 6.98 7.09	7.51 7.24 7.33	7.53 7.31 7.43	7.72 7.39 7.55	7.73 7.51 7.61	7.57 7.37 7.48	7.29 7.13 7.23	7.25 6.83 7.03	7.43 7.05 7.24	7.25 7.07 7.19	6.86 6.72 6.80	7.31 7.12 7.22	7.35 7.14 7.24	7.28 7.11 7.18	7.57 6.82 7.17	7.28 6.89 7.07	8.59 7.63 7.97	8.43 7.50 7.85	6.99 6.50 6.76	0.00%
HN T. MYERS MP 846.0	MAX MIN AVG	6.90 6.37 6.64	6.99 6.79 6.92	7.00 6.76 6.89	6.97 6.56 6.78	7.23 6.91 7.00	7.00 6.60 6.85	7.40 6.56 7.04	7.27 6.96 7.10	7.19 6.89 7.08	4.77 4.54 ~~4.71~~	4.72 4.45 ~~4.60~~	4.46 4.31 ~~4.40~~	4.59 4.36 ~~4.44~~	4.33 4.20 ~~4.25~~	4.40 4.12 ~~4.26~~	4.42 4.27 ~~4.32~~	4.52 4.27 ~~4.44~~	4.56 4.45 ~~4.50~~	5.26 4.64 ~~4.92~~	7.95 7.47 7.68	8.54 7.54 8.04	42.80%
MITHLAND MP 919.0	MAX MIN AVG	6.25 5.76 6.07	6.49 5.60 6.12	6.16 5.59 5.88	6.38 5.85 6.10	6.47 6.08 6.23	6.66 6.13 6.39	6.47 5.99 6.21	6.56 6.15 6.35	6.50 6.15 6.35	6.67 6.13 6.45	6.67 6.20 6.49	6.62 6.32 6.47	6.21 5.84 6.07	5.52 5.19 5.36	5.48 5.10 5.37	5.39 4.91 5.24	5.39 4.90 5.20	5.54 5.04 5.29	5.73 5.01 5.44	6.12 5.69 5.93	5.98 5.62 5.79	0.00%

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen July 2010																							
LENDAR DAY ULIAN DAY		1-Jul 182	2-Jul 183	6-Jul 187	7-Jul 188	8-Jul 189	9-Jul 190	12-Jul 193	13-Jul 194	14-Jul 195	15-Jul 196	16-Jul 197	19-Jul 200	20-Jul 201	21-Jul 202	22-Jul 203	23-Jul 204	26-Jul 207	27-Jul 208	28-Jul 209	29-Jul 210	30-Jul 211	Monthly % Exceedance
ONTGOMERY MP 31.7	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
ANNIBAL*** MP 126.4 UPSTREAM	MAX MIN AVG	8.45 7.35 7.59	8.45 8.07 8.27	8.16 7.44 7.83	8.57 8.04 8.31	8.16 7.58 7.94	7.68 6.99 7.34	6.63 5.63 6.22	7.76 5.45 6.41	7.83 7.01 7.53	8.15 7.32 7.82	7.52 7.13 7.31	8.22 7.53 7.88	8.09 7.50 7.76	7.85 7.08 7.62	8.39 7.47 8.06	8.72 8.19 8.53	9.42 7.59 8.65	9.95 8.75 9.25	11.33 7.50 8.68	7.86 6.78 7.23	8.16 7.17 7.69	0.00%
RACINE*** MP 237.5	MAX MIN AVG	5.71 5.38 5.55	5.48 5.19 5.35	5.16 4.87 5.03	5.04 4.78 4.89	5.16 4.58 4.90	No Data Available	No Data Available	No Data Available	7.96 4.55 5.91	7.90 6.02 7.05	6.66 5.54 5.89	8.97 3.10 8.01	9.78 7.86 8.69	11.03 8.48 9.12	10.28 8.16 9.01	9.63 8.87 9.17	No Data Available	10.29 8.47 9.11	10.32 8.11 9.14	10.99 8.90 9.80	9.07 7.03 8.35	11.70%
REENUP*** MP 341.0 UPSTREAM	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	7.90 0.82 5.46	6.58 5.14 5.85	No Data Available	5.50%
DOWNSTREAM	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	6.84 5.06 6.24	6.58 5.59 6.00	No Data Available	0.00%
CALPINE*** 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
ANNELTON MP 720.7	MAX MIN AVG	6.35 5.88 6.13	6.53 6.02 6.28	8.86 6.37 7.57	10.87 6.86 8.73	8.95 7.67 8.52	9.74 7.42 8.33	10.19 6.20 7.80	7.67 6.30 6.79	6.95 5.92 6.58	6.97 5.81 6.49	6.83 5.69 6.23	5.04 4.34 4.70	4.92 4.30 4.66	5.73 5.19 5.42	5.67 4.86 5.22	5.15 4.71 5.01	5.40 4.89 5.15	5.72 4.91 5.27	5.50 5.15 5.35	5.40 4.79 5.12	5.46 5.12 5.32	9.50%
NEWBURGH MP 776.1	MAX MIN AVG	7.65 6.99 7.24	9.02 7.60 8.00	11.01 8.25 9.15	10.24 8.35 9.27	10.96 7.32 9.40	8.81 6.70 7.76	7.80 6.57 7.09	7.45 5.34 6.86	10.85 7.26 8.78	9.46 7.13 8.06	7.57 7.03 7.24	7.09 6.08 6.43	6.85 6.37 6.54	7.43 5.47 6.42	5.86 5.41 5.61	6.10 5.87 5.99	6.71 6.13 6.41	9.27 7.80 8.12	8.88 8.41 8.74	8.95 7.99 8.49	9.15 8.23 8.61	0.00%
HN T. MYERS MP 846.0	MAX MIN AVG	9.50 7.71 8.61	9.26 8.12 8.74	13.48 9.25 10.97	13.24 9.45 10.99	13.12 8.55 9.97	9.63 8.14 8.89	8.57 7.56 8.03	7.81 6.71 7.24	8.43 6.14 7.22	7.42 6.41 6.95	8.11 7.23 7.62	7.53 6.53 6.92	7.28 6.73 7.08	6.91 6.33 6.60	7.10 0.50 6.31	7.17 0.50 6.05	7.77 0.52 6.50	7.71 6.47 6.95	7.35 6.98 7.09	7.09 6.69 6.93	No Data Available	0.00%
MITHLAND MP 919.0	MAX MIN AVG	7.23 6.28 6.68	7.17 6.64 6.89	6.96 6.59 6.75	6.76 6.07 6.38	6.26 5.91 6.06	6.39 5.67 5.94	6.94 6.37 6.69	7.08 6.17 6.64	6.84 6.07 6.32	6.63 5.91 6.29	7.05 6.30 6.53	6.79 5.95 6.37	6.62 6.27 6.45	6.30 5.63 5.89	6.26 5.77 6.02	6.60 6.02 6.27	6.58 5.23 5.62	6.48 5.70 5.91	6.09 5.74 5.89	No Data Available	No Data Available	0.00%

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen August 2010																							
LENDAR DAY ULIAN DAY		2-Aug 214	3-Aug 215	4-Aug 216	5-Aug 217	6-Aug 218	9-Aug 221	10-Aug 222	11-Aug 223	12-Aug 224	13-Aug 225	16-Aug 228	17-Aug 229	19-Aug 231	20-Aug 232	23-Aug 235	24-Aug 236	25-Aug 237	26-Aug 238	27-Aug 239	30-Aug 242	31-Aug 243	Monthly % Exceedance
ONTGOMERY MP 31.7	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
ANNIBAL*** MP 126.4 UPSTREAM	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 6.50 7.05	8.39 7.38 7.79	9.24 7.38 8.25	8.48 8.03 8.18	8.81 7.80 8.39	8.61 7.83 8.37	7.91 7.28 7.67	8.04 7.25 7.60	7.82 7.20 7.51	7.92 7.28 7.58	7.58 6.95 7.21	7.08 6.71 6.96	7.92 6.68 7.39	8.12 7.52 7.74	8.97 7.47 7.94	8.18 6.86 7.57	8.76 7.35 7.99	0.00%
RACINE*** MP 237.5	MAX MIN AVG	7.06 6.41 6.85	6.41 4.66 5.72	* * *	* * *	No Data Available	8.13 7.20 7.61	9.21 7.20 8.32	9.44 5.88 8.41	11.01 9.43 9.68	10.59 8.26 9.95	10.00 8.26 8.99	9.18 7.82 8.20	7.68 4.36 5.95	* * *	* * *	No Data Available	9.53 9.11 9.33	9.63 9.15 9.37	10.02 9.41 9.73	8.98 8.19 8.59	8.96 8.16 8.44	0.00%
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	No Data Available	No Data Available	No Data Available	4.90 4.37 4.59	6.50 6.41 6.46	No Data Available	5.42 4.82 5.01	No Data Available	5.47 5.14 5.32	No Data Available	No Data Available	5.88 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 4.49	5.26 4.30 4.74	4.66 3.79 4.16	No Data Available	66.60%
DOWNSTREAM	MAX MIN AVG	No Data Available	No Data Available	No Data Available	6.17 5.40 5.67	6.79 6.43 6.55	No Data Available	5.52 4.13 4.68	No Data Available	4.75 3.98 4.25	No Data Available	No Data Available	6.86 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%
CALPINE*** 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
ANNELTON MP 720.7	MAX MIN AVG	14.79 13.21 13.51	14.49 13.21 13.62	14.28 13.07 13.59	14.04 4.45 13.20	13.57 12.93 13.18	14.92 12.94 13.44	14.46 13.06 13.43	13.96 13.17 13.49	14.84 13.35 13.68	13.58 13.37 13.43	5.55 4.92 5.26	4.88 4.65 4.75	5.72 4.59 5.07	6.78 5.35 5.67	6.20 5.34 5.60	5.88 5.30 5.53	5.43 5.20 5.30	5.89 5.32 5.49	5.57 5.44 5.50	5.49 4.99 5.22	5.42 5.16 5.27	4.70%
EWBURGH ** MP 776.1	MAX MIN AVG	10.04 7.57 8.29	13.26 8.76 10.28	10.26 8.94 9.45	11.03 8.74 9.30	10.60 8.78 9.42	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	7.38 6.40 6.84	6.70 6.23 6.42	7.32 6.21 6.76	8.28 6.32 7.13	7.20 6.40 6.72	7.82 6.87 7.29	7.67 6.96 7.27	8.37 7.06 7.66	9.77 7.41 8.18	8.48 6.74 7.54	8.64 6.28 7.27	0.00%
N T. MYERS** MP 846.0	MAX MIN AVG	11.65 8.26 9.31	10.83 8.84 9.44	9.42 8.31 8.78	9.25 8.28 8.67	9.82 7.80 8.66	10.32 7.40 8.56	9.64 7.86 8.44	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%
WITHLAND** MP 919.0	MAX MIN AVG	9.95 6.64 7.72	9.53 6.09 7.20	9.40 6.92 7.79	8.54 7.50 7.95	8.80 6.62 7.94	8.17 5.89 7.09	7.36 6.24 6.67	7.93 5.85 6.64	6.91 5.72 6.23	6.75 5.63 6.03	5.92 4.85 5.25	5.48 4.92 5.15	6.76 5.30 5.80	7.44 5.18 5.87	5.45 4.59 4.96	5.86 4.45 5.10	6.65 5.87 6.19	6.72 5.99 6.26	7.40 6.26 6.62	6.06 5.55 5.90	5.90 5.53 5.75	0.00%

problem with instrument
uses ORSANCO data
uses hydroelectric dam

Daily Dissolved Oxygen September 2010																							
LENDAR DAY ULIAN DAY		1-Sep 244	2-Sep 245	3-Sep 246	7-Sep 250	8-Sep 251	9-Sep 252	10-Sep 253	13-Sep 256	14-Sep 257	15-Sep 258	16-Sep 259	17-Sep 260	20-Sep 263	21-Sep 264	22-Sep 265	23-Sep 266	24-Sep 267	27-Sep 270	28-Sep 271	29-Sep 272	30-Sep 273	Monthly % Exceedance
ONTGOMERY MP 31.7	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
ANNIBAL*** MP 126.4 UPSTREAM	MAX MIN AVG	7.95 7.19 7.58	8.57 7.46 8.07	8.00 7.38 7.70	9.42 7.77 8.82	9.33 8.67 8.98	9.06 8.49 8.90	10.80 6.81 8.18	7.83 7.19 7.44	8.06 7.17 7.68	8.07 7.50 7.77	8.13 7.44 7.87	8.09 7.68 7.93	7.95 7.59 7.77	8.06 7.67 7.88	8.25 7.76 8.03	8.16 7.92 8.03	8.37 8.01 8.17	8.34 7.91 8.18	8.12 7.94 8.02	8.10 7.53 7.89	7.74 7.53 7.67	0.00%
RACINE*** MP 237.5	MAX MIN AVG	8.76 7.90 8.24	8.73 7.80 8.18	8.41 7.43 7.70	7.50 6.84 7.14	7.04 6.56 6.81	10.23 6.69 8.80	9.73 8.61 9.23	8.16 6.91 7.54	7.89 6.24 7.15	7.11 5.84 6.58	7.11 5.97 6.61	7.21 5.97 6.74	No Data Available	11.27 5.97 9.37	11.20 10.59 10.97	11.14 10.36 10.65	10.96 10.28 10.60	9.38 8.41 8.95	11.87 8.29 10.40	11.57 11.50 11.53	No Data Available	0.00%
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	No Data Available	No Data Available	No Data Available	6.38 4.78 5.46	No Data Available	8.18 5.64 6.42	No Data Available	No Data Available	6.26 5.54 5.80	No Data Available	7.27 6.24 6.75	6.38 5.42 5.97	No Data Available	6.14 5.81 5.95	No Data Available	No Data Available	6.70 5.76 6.19	No Data Available	No Data Available	No Data Available	No Data Available	0.00%
DOWNSTREAM	MAX MIN AVG	No Data Available	No Data Available	No Data Available	6.24 5.54 5.83	No Data Available	7.06 5.95 6.29	No Data Available	No Data Available	7.25 6.86 6.99	No Data Available	7.99 6.74 7.05	7.78 6.65 6.90	No Data Available	7.87 6.17 6.46	No Data Available	No Data Available	7.58 5.93 6.16	No Data Available	No Data Available	No Data Available	No Data Available	0.00%
CALPINE*** 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
ANNELTON MP 720.7	MAX MIN AVG	5.19 4.87 5.06	5.87 5.35 5.56	6.16 5.98 6.07	6.13 5.69 5.94	5.93 5.45 5.69	3.94 3.77 3.87	3.83 3.65 3.73	3.62 3.49 3.55	3.86 3.53 3.70	3.59 3.41 3.50	3.78 3.47 3.63	3.54 3.38 3.45	5.35 4.83 5.03	5.14 4.80 4.97	4.61 4.43 4.53	4.98 4.62 4.82	5.13 4.88 5.02	5.41 5.28 5.36	5.79 5.52 5.68	5.65 5.55 5.59	6.00 5.78 5.88	47.60%
EWBURGH ** MP 776.1	MAX MIN AVG	8.28 6.61 7.35	8.51 7.16 7.70	7.79 7.28 7.53	9.01 7.71 8.33	9.09 7.64 8.53	10.41 8.51 9.26	10.03 8.18 8.97	9.42 7.88 8.63	10.16 8.45 9.44	9.98 7.81 8.82	9.60 7.82 8.41	7.94 7.40 7.67	8.79 7.79 8.18	8.52 7.43 7.90	9.25 7.35 8.14	7.80 7.07 7.38	7.43 6.83 7.17	6.52 6.04 6.32	6.85 6.22 6.49	6.68 5.97 6.26	7.36 6.88 7.11	0.00%
N T. MYERS** MP 846.0	MAX MIN AVG	4.57 3.87 4.20	4.29 3.86 4.03	4.00 3.77 3.90	4.21 3.63 3.84	7.45 7.00 7.23	8.01 6.99 7.31	7.43 7.04 7.19	6.85 6.44 6.59	7.05 6.77 6.90	7.39 6.48 6.81	7.64 7.20 7.38	8.24 7.59 7.91	7.12 6.36 6.70	6.77 6.53 6.65	7.06 6.45 6.77	6.55 6.22 6.35	6.45 6.02 6.25	5.81 5.62 5.70	6.19 5.97 6.11	6.91 6.13 6.42	7.03 6.10 6.45	19.00%
WITTHLAND** MP 919.0	MAX MIN AVG	5.91 5.14 5.60	5.46 4.88 5.14	5.35 4.66 5.03	5.41 5.03 5.29	4.83 4.57 4.70	5.42 4.79 5.07	5.14 4.90 5.03	5.59 4.98 5.25	5.50 4.41 4.92	6.81 4.62 5.71	5.33 4.45 4.86	5.27 4.41 4.89	5.48 4.50 4.93	6.14 5.38 5.73	7.98 6.15 7.17	8.17 6.56 7.62	6.52 5.61 5.99	6.61 5.97 6.35	6.57 5.94 6.17	6.50 5.75 6.03	6.77 5.86 6.18	23.80%

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen October 2010																							
LENDAR DAY ULIAN DAY		1-Oct 274	4-Oct 277	5-Oct 278	6-Oct 279	7-Oct 280	8-Oct 281	11-Oct 284	12-Oct 285	13-Oct 286	14-Oct 287	15-Oct 288	18-Oct 291	19-Oct 292	20-Oct 293	21-Oct 294	22-Oct 295	25-Oct 298	26-Oct 299	27-Oct 300	28-Oct 301	29-Oct 302	Monthly % Exceedance
ONTGOMERY MP 31.7	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
ANNIBAL*** MP 126.4 UPSTREAM	MAX MIN AVG	7.74 7.55 7.64	7.97 7.56 7.81	No Data Available	No Data Available	No Data Available	8.13 8.03 8.10	54.00 8.64 10.72	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%
RACINE*** MP 237.5	MAX MIN AVG	11.67 11.26 11.47	11.07 10.84 10.98	11.69 10.84 11.12	11.47 11.10 11.27	11.47 11.06 11.26	11.33 10.99 11.19	11.81 11.34 11.54	11.50 11.23 11.35	12.29 11.27 11.62	11.76 10.95 11.26	11.45 10.77 10.98	10.83 10.23 10.55	11.08 10.36 10.70	11.55 10.25 10.91	11.53 10.24 10.71	10.48 9.75 10.05	10.19 9.70 9.97	12.29 9.77 11.12	12.16 11.84 11.98	12.26 12.00 12.11	12.17 11.98 12.08	0.00%
REENUP*** MP 341.0 UPSTREAM	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	6.00 5.76 5.85	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	6.67 6.46 6.53	0.00%
DOWNSTREAM	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	8.47 5.16 5.58	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	9.17 5.23 5.70	0.00%
CALPINE*** 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
ANNELTON MP 720.7	MAX MIN AVG	5.78 5.53 5.69	6.35 6.23 6.29	6.47 6.21 6.33	6.46 6.20 6.36	6.42 6.12 6.27	6.57 6.16 6.35	6.93 6.50 6.70	6.73 6.38 6.59	6.74 6.35 6.51	6.59 6.19 6.43	6.83 6.42 6.59	7.02 6.59 6.81	7.28 6.58 6.89	6.98 6.60 6.80	6.88 6.64 6.75	6.91 6.59 6.77	6.74 6.55 6.66	6.89 6.57 6.75	6.87 6.54 6.69	7.17 6.75 6.97	7.27 6.80 7.01	0.00%
EWBURGH ** MP 776.1	MAX MIN AVG	7.32 6.97 7.12	8.37 8.04 8.11	8.48 8.00 8.14	8.75 8.11 8.29	8.78 8.20 8.44	8.62 7.91 8.32	9.98 8.93 9.28	9.07 8.07 8.50	9.01 8.08 8.39	8.36 7.87 8.05	8.51 7.98 8.24	9.04 8.30 8.66	9.28 8.37 8.82	9.04 8.54 8.69	9.20 8.68 8.91	9.22 8.80 9.01	8.51 8.13 8.33	8.51 8.29 8.39	8.25 8.00 8.10	8.57 8.30 8.39	8.55 8.34 8.46	0.00%
N T. MYERS** MP 846.0	MAX MIN AVG	6.45 6.19 6.27	6.40 6.16 6.30	6.66 6.42 6.57	6.70 6.21 6.47	6.61 6.24 6.42	6.97 6.41 6.72	6.97 6.55 6.73	6.82 6.34 6.50	6.96 5.90 6.41	6.44 6.08 6.26	6.41 6.00 6.21	6.54 6.17 6.40	6.57 6.09 6.36	6.49 6.01 6.28	7.12 6.38 6.63	6.73 6.25 6.51	6.97 6.55 6.79	7.05 6.87 6.98	6.89 6.52 6.72	6.99 6.68 6.86	No Data Available	0.00%
WITHLAND** MP 919.0	MAX MIN AVG	6.37 5.74 5.99	7.72 7.13 7.35	8.29 7.53 7.81	9.20 7.39 8.09	8.03 6.92 7.48	8.71 7.09 7.67	7.32 6.23 6.77	7.84 6.88 7.27	7.92 7.18 7.61	8.67 7.77 8.13	8.49 8.06 8.28	9.43 8.19 8.68	9.55 7.98 8.58	8.70 8.00 8.29	8.12 7.61 7.83	8.55 8.05 8.27	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	0.00%

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen May 2011																							
LENDAR 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	23-May	24-May	25-May	26-May	27-May	31-May	Monthly	
JULIAN DAY		122	123	124	125	126	129	130	132	133	136	137	138	139	140	143	144	145	146	147	151	% Exceedance	
ONTGOMERY MP 31.7	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	
ANNIBAL*** MP 126.4 UPSTREAM	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	
RACINE*** MP 237.5	MAX MIN AVG	No Data Available	No Data Available	59.75 Data 59.64	8.95 Data 8.92	9.11 Data 9.04	9.13 Data 9.05	9.11 Data 7.74	9.03 Data 8.97	9.00 Data 8.90	65.10 Data 64.68	8.05 Data 7.74	7.56 Data 7.39	7.26 Data 7.16	7.83 Data 7.50	7.85 Data 7.75	7.88 Data 7.83	7.84 Data 7.78	7.82 Data 7.76	7.74 Data 7.69	7.66 Data 7.54	0.00%	
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	8.23 8.02 8.15	8.26 8.09 8.23	8.35 8.09 8.26	8.59 8.35 8.53	8.59 8.38 8.52	8.59 8.09 8.39	8.11 7.94 8.04	7.66 7.42 7.46	7.39 6.74 7.04	7.39 6.58 6.95	6.58 6.00 6.35	6.58 5.62 6.13	5.64 5.30 5.47	5.30 4.92 5.09	5.30 4.78 5.02	5.16 4.87 5.04	5.35 5.11 5.24	5.54 5.04 5.36	5.76 5.52 5.58	7.42 7.15 7.30	0.00%	
DOWNSTREAM	MAX MIN AVG	12.05 8.26 10.87	9.17 6.84 8.25	9.70 6.24 8.12	14.38 9.14 13.00	13.03 12.29 12.60	13.03 10.75 12.45	12.72 12.10 12.33	11.40 11.04 11.25	11.40 9.10 10.49	11.40 7.63 9.62	7.85 7.42 7.63	7.85 7.42 7.63	7.82 7.32 7.63	7.68 7.51 7.61	7.68 7.34 7.58	7.66 7.49 7.55	7.49 7.32 7.41	7.34 7.06 7.20	7.18 7.06 7.11	7.54 6.46 6.85	0.00%	
ARKLAND*** MP 531.5	US-Lock DS-Lock US-Hydro DS-Hydro	* 8.72 8.70 8.38	* 8.83 8.73 8.40	* 9.13 9.00 8.68	9.12 9.20 9.03 8.80	9.28 9.24 9.04 8.86	9.45 9.40 9.18 8.88	9.51 9.49 9.16 8.83	9.51 9.50 9.14 8.80	9.44 9.39 9.03 8.73	8.68 8.69 8.20 8.06	8.96 8.95 8.45 8.46	9.16 9.12 8.61 8.64	9.17 9.11 8.63 8.64	9.17 9.13 8.65 8.67	8.71 8.63 8.15 8.21	8.69 8.63 8.15 8.15	8.69 8.64 8.15 8.16	8.48 8.42 7.95 7.98	8.17 8.12 7.61 7.62	8.36 8.39 7.80 7.83	0.00% 0.00% 0.00% 0.00%	
CALPINE*** 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	

problem with instrument
ates ORSANCO data
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Daily Dissolved Oxygen June 2011																								
LENDAR DAY ULIAN DAY		1-Jun 152	2-Jun 153	3-Jun 154	6-Jun 157	7-Jun 158	8-Jun 159	9-Jun 160	10-Jun 161	13-Jun 164	14-Jun 165	15-Jun 166	16-Jun 167	17-Jun 168	20-Jun 171	21-Jun 172	22-Jun 173	23-Jun 174	24-Jun 175	27-Jun 178	28-Jun 179	29-Jun 180	30-Jun 181	Monthly % Exceedance
ONTGOMERY MP 31.7	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
ANNIBAL*** MP 126.4 UPSTREAM	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
RACINE*** MP 237.5	MAX MIN AVG	7.53 7.20 7.41	7.37 7.11 7.22	7.51 7.11 7.30	7.36 7.23 7.28	7.63 7.23 7.41	7.55 6.99 7.21	7.61 7.13 7.40	7.52 6.78 7.02	6.26 5.95 6.09	6.15 5.60 5.89	5.69 5.46 5.59	5.56 5.35 5.46	5.46 5.34 5.41	5.97 5.73 5.86	5.95 5.73 5.84	5.84 5.23 5.64	5.52 5.17 5.26	5.25 5.08 5.17	5.36 4.82 5.12	5.46 5.12 5.21	5.22 4.84 5.06	5.24 4.84 5.11	0.00%
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	7.42 7.10 7.27	7.87 7.15 7.57	9.12 7.94 8.49	9.12 6.24 7.78	6.79 5.45 5.93	6.79 5.11 5.72	5.74 5.11 5.32	5.42 5.16 5.31	5.83 5.16 5.40	7.08 5.83 6.69	7.25 5.83 6.70	6.62 6.41 6.56	7.61 6.38 6.71	No Data Available	No Data Available	No Data Available	No Data Available	No Data Available	5.86 5.52 5.64	5.66 5.47 5.57	5.90 5.47 5.63	6.62 5.66 6.22	0.00%
DOWNSTREAM	MAX MIN AVG	7.54 6.41 6.75	6.79 6.17 6.46	6.79 6.22 6.37	7.82 6.22 6.71	7.20 7.03 7.11	7.20 6.89 7.07	6.89 6.41 6.62	6.67 6.50 6.58	6.67 5.54 6.30	7.82 5.47 6.22	7.82 5.47 6.35	6.58 6.48 6.53	6.65 5.76 6.20	6.65 5.76 6.19	6.24 5.98 6.05	No Data Available	5.93 5.66 5.85	5.93 5.50 5.74	5.47 5.04 5.27	5.09 4.34 4.75	5.09 4.34 4.78	4.94 4.08 4.60	14.20%
ARKLAND*** MP 531.5 D.O. #1	US-Lock DS-Lock US-Hydro DS-Hydro	8.27 8.32 7.73 7.74	8.24 8.28 7.72 7.72	8.25 8.32 7.74 7.72	8.97 8.92 8.67 8.36	9.19 9.11 9.01 8.63	9.57 9.33 9.31 9.03	9.72 9.39 9.50 9.07	9.72 9.55 9.22 9.15	6.99 6.98 6.57 6.50	7.02 6.85 7.00 6.53	7.40 7.26 7.00 7.11	7.23 * 7.14 7.07	7.06 * 7.31 7.07	7.31 * 7.31 7.12	7.52 7.35 7.47 7.23	7.09 6.92 6.98 6.76	6.91 6.79 6.87 6.62	6.77 6.82 6.76 6.49	7.19 7.15 7.16 6.83	7.17 7.27 7.39 7.05	6.90 7.06 7.04 6.79	6.79 6.74 6.69 6.43	0.00% 0.00% 0.00% 0.00%
ALPINE*** 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	8.82 8.24 8.50	7.47 7.01 7.22	7.09 6.57 6.86	6.50 5.96 6.28	5.86 5.50 5.64	5.75 5.12 5.48	6.66 6.26 6.47	6.57 5.68 6.26	6.63 6.31 6.43	6.66 6.45 6.55	6.56 6.29 6.47	6.29 6.06 6.18	6.08 5.53 5.80	No Data Available	No Data Available	0.00%
N T. MYERS** MP 846.0	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	6.59 6.40 6.49	6.61 6.21 6.41	0.00%
ITHLAND** MP 919.0	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	5.88 5.81 5.84	5.84 5.70 5.76	0.00%

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen July 2011																					
LENDAR DAY ULIAN DAY		1-Jul 182	5-Jul 186	6-Jul 187	7-Jul 188	8-Jul 189	11-Jul 192	12-Jul 193	13-Jul 194	14-Jul 195	15-Jul 196	19-Jul 200	20-Jul 201	21-Jul 202	22-Jul 203	25-Jul 206	26-Jul 207	27-Jul 208	28-Jul 209	29-Jul 210	Monthly % Exceedance
ONTGOMERY MP 31.7	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	8.60 6.30 7.30	No Data Available	9.10 6.60 7.30	8.90 6.60 7.50	7.60 6.60 7.10	7.30 6.60 7.00	7.70 6.50 7.10	7.70 6.50 7.10	0.00%
ANNIBAL*** MP 126.4 UPSTREAM	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
RACINE*** MP 237.5	MAX MIN AVG	5.25 4.92 5.13	3.86 3.61 3.72	5.15 3.61 4.45	5.14 4.94 5.01	5.61 5.03 5.26	3.12 2.84 3.02	No Data Available	No Data Available	5.56 3.20 4.75	5.56 5.01 5.24	5.26 4.70 5.03	4.92 4.55 4.67	11.25 4.53 5.31	5.37 4.67 5.02	4.58 4.43 4.50	4.99 4.53 4.66	7.25 4.53 5.81	8.54 4.53 6.77	8.54 5.61 6.77	41.10%
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	8.90 5.86 6.33	6.84 6.17 6.57	6.89 6.17 6.58	8.06 6.36 6.94	7.73 6.48 7.09	5.83 4.63 5.24	5.83 4.63 5.18	5.83 4.63 5.18	5.95 4.68 5.29	5.78 5.04 5.45	6.48 4.82 5.49	6.48 4.82 5.43	6.46 5.18 5.80	7.80 5.59 6.90	6.24 4.78 5.52	5.28 4.73 5.05	5.59 4.68 5.09	6.55 5.11 5.88	6.55 5.11 5.88	0.00%
DOWNSTREAM	MAX MIN AVG	7.03 4.49 6.16	6.50 5.57 6.07	6.50 5.57 6.05	7.01 5.76 6.49	7.30 5.57 6.27	5.38 * 5.38	5.38 4.44 4.70	5.38 4.44 4.70	5.23 4.32 4.63	5.18 4.30 4.72	7.39 5.64 6.59	7.39 5.64 6.66	8.21 6.96 7.27	10.51 7.34 8.26	6.86 5.52 6.09	5.98 5.02 5.62	5.81 4.94 5.39	7.22 5.40 5.91	7.22 5.40 5.91	21.05%
ARKLAND*** MP 531.5 D.O. #1	US-Lock DS-Lock US-Hydro DS-Hydro	7.11 6.93 6.98 6.73	7.81 7.53 7.74 7.35	7.28 7.47 7.31 7.00	7.35 6.86 6.95 6.89	7.15 7.11 7.37 6.91	6.90 6.82 6.94 6.65	* 6.35 6.54 6.33	* 6.92 6.70 6.56	6.37 6.28 6.41 6.27	* 6.78 6.54 6.48	* 6.63 6.18 6.48	* 6.81 6.41 6.62	* 6.49 5.91 6.35	* 6.09 5.52 5.93	* 6.99 5.95 6.57	* 6.59 5.49 6.35	* * 5.41 6.19	* * 6.00 6.78	* * 5.23 6.11	0.00% 0.00% 0.00% 0.00%
ALPINE*** MP 606.8	MAX MIN AVG	8.66 6.69 7.37	6.11 5.72 6.00	6.11 6.11 6.11	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	8.12 6.11 6.78	7.90 6.53 7.13	8.11 6.45 7.04	8.00 6.01 6.75	6.83 5.57 6.15	7.53 6.35 6.87	No Data Available	0.00%
IN T. MYER** MP 846.0	MAX MIN AVG	7.00 6.31 6.72	7.91 6.56 7.04	8.92 6.87 7.47	7.95 6.78 7.34	7.60 6.29 6.89	7.28 6.29 6.83	7.05 5.65 6.28	7.34 5.78 6.48	6.48 5.82 6.11	7.01 5.65 6.24	7.87 6.21 6.73	6.94 6.21 6.54	7.72 6.20 6.81	7.76 6.16 6.99	7.87 6.60 7.20	8.20 6.06 7.19	7.95 6.36 7.23	9.21 7.04 7.85	8.67 7.85 8.29	0.00%
ITHLAND** MP 919.0	MAX MIN AVG	5.90 5.69 5.79	6.18 5.78 5.94	6.06 5.49 5.74	6.41 5.51 5.86	6.88 6.04 6.39	6.52 5.88 6.15	6.39 5.73 6.01	7.85 5.60 6.00	6.78 6.04 6.37	6.71 5.66 6.12	6.93 6.09 6.48	7.58 6.59 7.00	7.17 6.62 6.89	7.03 6.31 6.65	7.94 6.53 7.11	8.58 6.98 7.51	8.89 7.46 7.95	8.09 6.72 7.24	7.23 6.14 6.83	0.00%

problem with instrument
ates ORSANCO data
ates hydroelectric dam

Daily Dissolved Oxygen August 2011																								
LENDAR DAY		1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	30-Aug	31-Aug	Monthly
ULIAN DAY		213	214	215	216	217	220	221	222	223	224	227	228	229	230	231	234	235	236	237	238	241	242	% Exceedance
DNTGOMERY MP 31.7	MAX	7.70	8.50	9.90	9.60	8.70	8.60	8.00	7.60	7.90	8.20	8.50	8.30	7.90	8.50	8.60	7.80	7.80	7.80	7.40	7.50	7.60	7.90	0.00%
	MIN	6.20	6.80	7.00	7.50	7.10	6.80	6.90	7.00	6.70	6.90	7.50	7.10	7.60	6.80	7.10	6.40	6.30	6.20	6.20	5.90	6.20	6.40	
	AVG	6.90	7.40	7.90	8.20	7.10	7.60	7.20	7.30	7.30	7.40	7.90	7.70	7.70	7.40	7.70	7.10	7.00	6.90	6.80	6.80	6.90	7.20	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	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
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available
RACINE*** MP 237.5	MAX	5.40	6.59	6.65	6.57	6.00	6.65	6.65	5.89	6.62	7.57	6.59	6.91	6.77	7.03	7.03	6.61	6.45	6.79	6.54	6.51	5.98	5.52	0.00%
	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	6.49	6.09	6.07	6.08	6.18	6.11	5.45	5.18	
	AVG	5.03	6.01	6.33	6.18	5.81	6.38	6.04	5.32	5.88	6.71	6.30	6.50	6.57	6.60	6.75	6.26	6.23	6.50	6.33	6.29	5.61	5.38	
REENUP*** MP 341.0 UPSTREAM DOWNSTREAM	MAX	7.15	8.16	8.16	5.83	6.26	6.24	No	5.50	6.91	6.86	No	6.02	6.05	6.60	6.46	5.33	5.57	5.57	5.09	5.26	No	6.46	15.70%
	MIN	5.57	5.66	5.66	5.02	4.85	4.01	Data	4.66	5.02	5.62	Data	4.85	4.85	5.42	5.11	4.61	4.58	4.58	4.68	4.61	Data	5.64	
	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	5.00	4.91	4.88	Available	6.00	
	MAX	8.69	8.11	8.11	6.34	6.00	6.50	No	5.81	6.70	7.63	No	7.13	7.13	7.01	6.72	6.41	5.95	5.95	5.52	6.14	No	6.96	0.00%
	MIN	*	6.14	6.14	5.35	5.40	5.45	Data	5.21	5.54	5.57	Data	6.05	6.05	6.17	5.90	5.64	5.50	5.45	4.92	5.26	Data	6.65	
	AVG	7.23	6.62	6.63	5.99	5.64	5.96	Available	5.42	5.98	6.30	Available	6.66	6.68	6.48	6.32	5.91	5.67	5.63	5.28	5.71	Available	6.85	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	*	6.07	5.39	5.21	5.22	5.38	5.19	4.86	5.22	4.53	5.23	5.14	5.69	6.01	5.87	4.93	4.61	4.74	5.21	5.90	4.33	5.24	29.00%
	DS-Lock	*	5.88	5.79	5.58	5.37	5.28	5.92	5.03	5.05	4.38	*	*	7.24	7.08	6.84	5.54	5.53	5.38	5.68	6.04	*	5.63	6.00%
	US-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	7.70	7.53	6.39	5.96	6.17	7.07	8.03	6.04	5.71	0.00%
	DS-Hydro	6.77	6.45	6.25	6.16	5.82	6.32	5.92	5.64	6.37	6.28	6.33	6.56	6.98	7.20	6.95	6.00	5.83	5.65	6.25	6.64	*	*	0.00%
cALPINE*** MP 606.8	MAX	No	No	No	No	6.89	6.11	7.06	7.64	7.65	7.83	6.59	6.63	6.59	6.67	6.23	6.87	7.05	6.01	6.22	No	No	No	0.00%
	MIN	Data	Data	Data	Data	6.13	5.38	5.20	6.49	6.06	6.10	5.78	5.81	5.77	5.68	5.73	5.44	5.69	5.08	5.77	Data	Data	Data	
	AVG	Available	Available	Available	Available	6.43	5.66	6.12	6.91	6.77	6.85	6.08	6.15	6.10	6.17	5.93	5.91	6.22	5.59	5.90	Available	Available	Available	
N T. MYERS** MP 846.0	MAX	7.85	9.88	7.74	8.15	8.28	7.07	7.02	6.49	7.57	7.53	7.37	7.94	No	No	No	No	No	8.70	7.28	7.31	9.54	9.08	0.00%
	MIN	6.64	6.84	6.45	6.79	6.87	6.31	6.18	6.15	6.20	6.00	6.45	6.50	Data	Data	Data	Data	Data	6.74	6.23	6.47	7.74	7.19	
	AVG	7.20	7.82	7.11	7.39	7.40	6.69	6.48	6.32	6.66	6.51	6.78	7.05	Available	Available	Available	Available	Available	7.32	6.68	6.80	8.37	7.87	
HITHLAND** MP 919.0	MAX	7.69	8.19	8.48	7.16	6.27	4.86	5.26	4.65	5.80	6.23	5.02	5.33	5.62	5.04	4.87	7.14	5.05	4.96	6.80	5.40	7.22	5.64	59.09%
	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	3.85	4.04	4.00	4.44	4.06	4.08	4.30	4.44	4.88	4.48	
	AVG	6.86	6.71	6.88	6.48	5.45	4.46	4.54	4.37	4.84	4.73	4.46	4.47	4.44	4.55	4.42	5.09	4.54	4.51	5.23	4.90	5.72	5.01	

problem with instrument
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Daily Dissolved Oxygen September 2011																							
LENDAR DAY		1-Sep	2-Sep	6-Sep	7-Sep	8-Sep	9-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	26-Sep	28-Sep	29-Sep	30-Sep	Monthly	
ULIAN DAY		244	245	249	250	251	252	255	256	257	258	259	262	263	264	265	266	269	271	272	273	% Exceedance	
ONTGOMERY MP 31.7	MAX	8.20	8.10	7.30	7.70	7.80	7.40	7.80	8.70	8.70	8.90	9.00	9.40	9.30	9.60	9.70	9.70	9.20	9.20	9.10	9.30	0.00%	
	MIN	6.30	7.20	6.80	7.00	6.80	6.90	5.70	5.00	8.60	8.60	8.70	8.60	8.80	9.10	9.10	8.90	6.00	7.60	8.90	9.00		
	AVG	7.30	7.60	7.00	7.30	7.30	7.10	6.90	7.40	8.60	8.70	8.80	9.10	9.10	9.40	9.40	9.40	8.10	8.80	9.00	9.10		
ANNIBAL*** MP 126.4 UPSTREAM	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	8.46	8.57	14.27	8.93	8.54	No	8.69	0.00%	
	MIN	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	8.27	8.22	7.02	8.66	8.15	Data	8.21		
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	8.40	8.43	8.47	8.84	8.29	Available	8.57		
RACINE*** MP 237.5	MAX	5.33	5.33	3.77	6.64	6.55	6.17	6.37	6.58	6.82	7.74	7.68	8.31	8.49	8.25	8.13	7.92	6.92	7.89	7.48	7.38	10.00%	
	MIN	4.96	4.74	3.17	3.35	5.94	5.69	5.92	6.18	6.41	6.58	7.57	7.94	8.02	7.97	7.81	7.67	6.07	7.32	7.24	7.16		
	AVG	5.06	4.99	3.45	5.42	6.20	5.94	6.10	6.36	6.61	7.34	7.63	8.08	8.20	8.11	7.96	7.80	6.44	7.62	7.33	7.25		
REENUP*** MP 341.0 UPSTREAM DOWNSTREAM	MAX	6.60	6.53	6.46	6.46	5.64	5.38	5.95	6.10	6.12	6.34	6.48	6.38	6.29	6.29	6.29	6.29	6.29	6.98	6.07	5.45	0.00%	
	MIN	5.69	5.54	5.66	5.38	5.04	4.97	5.14	5.74	5.66	5.66	5.76	6.02	6.00	5.81	5.81	5.81	5.81	6.10	5.47	5.18		
	AVG	6.05	6.00	6.13	5.94	5.36	5.28	5.73	6.00	5.96	5.96	5.95	6.18	6.13	6.06	6.06	6.06	6.06	6.67	5.78	5.31		
	MAX	7.18	7.18	7.15	7.15	6.26	*	6.55	6.53	6.84	6.79	6.70	5.64	5.28	5.28	5.28	5.28	5.28	6.74	6.26	8.33	21.00%	
	MIN	5.76	6.48	6.53	5.88	5.35	*	4.70	6.34	6.31	6.53	5.93	5.28	4.97	3.96	3.96	3.96	3.96	6.12	5.93	5.88		
	AVG	6.90	6.81	6.96	6.76	5.92	*	6.02	6.42	6.49	6.68	6.54	5.44	5.12	4.98	4.98	4.98	4.98	6.51	6.06	6.12		
ARKLAND*** MP 531.5 D.O. #1	US-Lock	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.12	7.18	7.01	6.76	7.18	0.00%
	DS-Lock	5.23	5.10	5.82	5.44	5.55	5.19	*	7.23	7.19	7.17	6.98	7.36	7.42	7.36	7.12	7.33	7.62	7.61	6.91	7.04	0.00%	
	US-Hydro	*	5.52	5.50	5.29	5.70	5.56	6.41	6.67	6.42	6.43	6.52	5.81	*	*	*	7.28	7.18	7.04	6.59	7.54	0.00%	
	DS-Hydro	*	*	*	5.88	6.30	6.27	6.75	7.07	6.94	6.70	6.93	7.21	7.20	7.31	7.43	7.39	7.41	7.27	6.95	7.53	0.00%	
cALPINE*** MP 606.8	MAX	No	No	No	No	5.69	5.23	6.13	6.65	7.05	7.55	7.84	9.05	8.78	7.90	7.61	7.37	7.20	6.98	7.02	7.27	0.00%	
	MIN	Data	Data	Data	Data	5.23	4.88	5.78	6.09	6.55	7.01	7.47	8.52	7.87	7.51	6.93	6.83	6.80	6.87	6.82	6.72		
	AVG	Available	Available	Available	Available	5.44	5.11	5.98	6.35	6.80	7.27	7.66	8.83	8.35	7.66	7.23	7.06	7.05	6.92	6.90	7.02		
N T. MYERS** MP 846.0	MAX	9.35	10.72	7.56	8.49	9.42	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	0.00%	
	MIN	6.62	7.22	7.02	7.18	8.14	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data		
	AVG	7.66	8.41	7.25	7.56	8.87	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available		
MITHLAND** MP 919.0	MAX	5.61	11.60	6.47	6.44	7.17	7.81	8.56	8.49	7.85	8.55	8.72	8.18	No	No	No	No	No	No	No	No	8.30%	
	MIN	4.33	4.57	5.82	6.18	5.53	7.19	7.61	7.27	7.22	7.76	7.82	7.82	Data	Data	Data	Data	Data	Data	Data	Data		
	AVG	4.84	6.35	6.04	6.33	6.24	7.48	8.14	7.66	7.53	8.12	8.27	8.04	Available	Available	Available	Available	Available	Available	Available	Available		

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Daily Dissolved Oxygen October 2011																							
LENDAR DAY ULIAN DAY		3-Oct 276	4-Oct 277	5-Oct 278	6-Oct 279	7-Oct 280	10-Oct 283	11-Oct 284	12-Oct 285	13-Oct 286	14-Oct 287	17-Oct 290	18-Oct 291	19-Oct 292	20-Oct 293	21-Oct 294	24-Oct 297	25-Oct 298	26-Oct 299	27-Oct 300	28-Oct 301	31-Oct 304	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	9.40	9.80	9.90	10.10	9.80	10.30	10.32	10.40	10.50	10.60	10.20	10.10	10.10	10.00	9.80	10.40	10.70	10.80	10.90	11.00	11.10	0.00%
	MIN	9.10	9.40	9.60	8.40	7.60	10.10	10.20	10.20	10.30	10.30	9.50	9.50	9.20	8.20	8.20	6.80	7.80	7.30	10.70	10.80	10.80	
	AVG	9.30	9.70	9.70	9.70	9.10	10.20	10.20	10.30	10.40	10.40	9.90	9.90	9.80	9.50	9.30	8.80	8.90	9.70	10.80	10.90	11.00	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	9.32	9.44	10.10	10.04	9.50	9.48	9.41	9.36	9.59	9.20	9.59	10.10	9.72	11.30	10.10	10.53	10.56	10.53	10.49	10.67	11.19	0.00%
	MIN	9.03	9.08	9.32	9.41	9.36	9.17	9.17	9.06	8.75	8.19	9.30	9.36	9.44	9.54	9.63	10.23	10.14	10.29	10.25	10.05	10.41	
	AVG	9.14	9.25	9.67	9.69	9.43	9.31	9.29	9.21	9.19	8.91	9.44	9.58	9.66	10.06	9.87	10.31	10.33	10.40	10.35	10.36	11.01	
RACINE*** MP 237.5	MAX	7.55	7.54	7.92	8.07	8.15	8.84	No	No	9.89	9.78	8.87	8.90	8.90	9.11	9.11	8.69	8.61	8.67	8.60	8.87	8.54	0.00%
	MIN	7.23	7.33	7.38	7.80	7.95	8.68	Data	Data	9.62	9.39	8.59	8.65	8.59	8.76	8.22	8.33	8.44	8.45	8.45	8.49	8.13	
	AVG	7.41	7.41	7.64	7.93	8.02	8.74	Available	Available	9.74	9.62	8.73	8.77	8.74	8.90	8.68	8.47	8.50	8.56	8.52	8.69	8.32	
REENUP*** MP 341.0 UPSTREAM	MAX	6.86	6.79	6.79	6.50	6.26	7.34	7.37	7.37	7.27	7.44	7.44	6.53	6.53	6.07	5.88	7.97	7.78	7.78	No	8.35	8.90	0.00%
	MIN	6.79	6.67	6.50	6.29	6.14	6.14	7.32	7.27	7.20	7.18	6.50	6.24	5.93	5.88	5.76	7.58	7.46	7.46	Data	8.23	8.45	
	AVG	6.84	6.75	6.69	6.39	6.20	6.40	7.34	7.32	7.24	7.26	7.03	6.39	6.27	5.96	5.82	7.84	7.66	7.67	Available	8.31	8.58	
OWNSTREAM	MAX	8.30	16.51	16.51	7.90	14.98	8.14	12.55	14.21	11.93	10.51	10.51	9.36	9.36	7.82	7.56	7.75	7.56	7.75	No	8.18	8.04	0.00%
	MIN	7.44	7.30	7.15	7.15	7.13	7.13	7.54	7.49	7.34	7.37	7.37	7.32	7.08	6.77	6.67	7.44	7.34	7.34	Data	7.92	7.80	
	AVG	7.57	8.17	7.85	7.25	7.56	7.32	7.84	7.99	7.87	7.73	7.82	7.67	7.55	7.09	6.94	7.61	7.46	7.48	Available	8.05	7.92	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	7.03	7.14	7.51	7.82	7.71	6.81	6.88	6.11	6.43	6.41	7.87	8.29	8.28	8.43	8.26	8.13	7.84	8.12	8.45	8.53	8.65	0.00%
	DS-Lock	6.26	6.86	7.09	6.36	*	*	8.35	7.80	7.51	8.02	8.51	8.39	8.46	8.56	8.32	8.06	7.71	7.87	8.34	8.23	*	0.00%
	US-Hydro	7.44	7.88	8.02	8.23	8.52	8.64	8.59	8.45	8.24	8.06	8.18	8.07	8.18	8.25	8.04	8.06	8.11	8.24	8.55	8.72	8.92	0.00%
	DS-Hydro	7.53	7.84	8.21	8.42	8.45	8.30	8.22	8.13	7.99	8.03	8.64	8.64	8.66	8.80	8.61	8.56	8.59	8.66	8.82	8.92	9.02	0.00%
cALPINE*** MP 606.8	MAX	7.45	7.68	7.62	7.79	8.13	8.32	8.20	8.16	8.00	8.01	8.07	8.16	8.45	8.56	8.63	8.61	8.38	8.62	8.76	No	No	0.00%
	MIN	7.09	7.41	7.49	7.48	7.77	8.12	8.05	8.01	7.85	7.79	7.88	7.84	8.21	8.45	8.45	8.23	8.17	8.51	8.54	Data	Data	
	AVG	7.27	7.56	7.55	7.61	7.95	8.22	8.11	8.07	7.91	7.88	7.95	7.95	8.38	8.52	8.54	8.47	8.25	8.55	8.67	Available	Available	

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Daily Dissolved Oxygen May 2012																							
LENDAR DAY ULIAN DAY		2-May 122	3-May 123	4-May 124	5-May 125	6-May 126	9-May 129	10-May 130	12-May 132	13-May 133	16-May 136	17-May 137	18-May 138	19-May 139	20-May 140	23-May 143	24-May 144	25-May 145	26-May 146	27-May 147	31-May 151	Monthly % Exceedance	
ONTGOMERY MP 31.7	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	
ANNIBAL*** MP 126.4 UPSTREAM	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	
RACINE*** MP 237.5	MAX MIN AVG	No Data Available	No Data Available	8.88 7.59 8.33	8.95 8.87 8.92	9.11 8.91 9.04	9.13 8.95 9.05	9.11 4.81 7.74	9.03 8.90 8.97	9.00 8.85 8.90	65.10 64.37 64.68	8.05 7.52 7.74	7.56 7.17 7.39	7.26 7.01 7.16	7.83 7.00 7.50	7.85 7.63 7.75	7.88 7.76 7.83	7.84 7.68 7.78	7.82 7.63 7.76	7.74 7.65 7.69	7.66 7.45 7.54	0.00%	
REENUP*** MP 341.0 UPSTREAM	MAX MIN AVG	8.23 8.02 8.15	8.26 8.09 8.23	8.35 8.09 8.26	8.59 8.35 8.53	8.59 8.38 8.52	8.59 8.09 8.39	8.11 7.94 8.04	7.66 7.42 7.46	7.39 6.74 7.04	7.39 6.58 6.95	6.58 6.00 6.35	6.58 5.62 6.13	5.64 5.30 5.47	5.30 4.92 5.09	5.30 4.78 5.02	5.16 4.87 5.04	5.35 5.11 5.24	5.54 5.04 5.36	5.76 5.52 5.58	7.42 7.15 7.30	0.00%	
DOWNSTREAM	MAX MIN AVG	12.05 8.26 10.87	9.17 6.84 8.25	9.70 6.24 8.12	14.38 9.14 13.00	13.03 12.29 12.60	13.03 10.75 12.45	12.72 12.10 12.33	11.40 11.04 11.25	11.40 9.10 10.49	11.40 7.63 9.62	7.85 7.42 7.63	7.85 7.42 7.63	7.82 7.32 7.63	7.68 7.51 7.61	7.68 7.34 7.58	7.66 7.49 7.55	7.49 7.32 7.41	7.34 7.06 7.20	7.18 7.06 7.11	7.54 6.46 6.85	0.00%	
ARKLAND*** MP 531.5	US-Lock DS-Lock US-Hydro DS-Hydro	7.84 8.02 7.49 8.20	7.09 7.37 6.35 7.32	7.76 8.03 7.32 8.07	7.95 * 7.65 8.42	7.53 * 6.85 7.84	6.56 6.88 5.31 6.60	6.80 7.27 5.51 6.86	6.82 6.83 5.92 6.94	6.85 6.76 6.24 7.05	6.62 7.65 6.42 7.09	6.77 7.85 6.77 7.24	6.66 7.98 6.90 7.45	5.83 8.02 7.34 7.68	* 8.14 7.93 7.78	5.82 7.85 7.52 7.74	6.46 8.02 7.66 8.00	7.00 8.07 7.70 8.29	7.00 7.90 8.13 8.56	7.24 7.85 8.39 8.93	6.60 6.72 7.04 7.78	0.00% 0.00% 0.00% 0.00%	
CALPINE*** 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	

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Daily Dissolved Oxygen June 2012																							
LENDAR DAY ULIAN DAY		1-Jun 153	4-Jun 156	5-Jun 157	6-Jun 158	7-Jun 159	8-Jun 160	11-Jun 163	12-Jun 164	13-Jun 165	14-Jun 166	15-Jun 167	18-Jun 170	19-Jun 171	20-Jun 172	21-Jun 173	22-Jun 174	25-Jun 177	26-Jun 178	27-Jun 179	28-Jun 180	29-Jun 181	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	9.60	8.80	9.20	9.20	9.60	9.80	10.20	10.70	9.70	9.80	9.70	10.20	9.90	9.20	9.70	9.60	10.10	11.60	11.00	8.60	8.30	0.00%
	MIN	8.40	8.20	8.70	8.70	8.80	8.90	8.80	8.70	8.30	8.50	7.80	8.70	8.70	7.90	7.60	8.00	7.40	8.00	7.20	7.10	7.10	
	AVG	8.80	8.60	8.90	8.90	9.20	9.30	9.40	9.50	9.10	9.00	8.70	9.30	9.10	8.50	8.40	8.80	8.60	9.70	8.80	7.80	7.60	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	8.24	8.52	8.72	8.90	8.88	8.82	9.14	8.87	8.70	9.30	9.12	8.99	8.87	8.39	7.91	8.43	8.36	8.10	8.15	8.60	8.87	0.00%
	MIN	7.32	7.88	8.01	8.55	8.21	7.91	8.27	7.94	8.03	8.36	7.67	8.46	8.15	7.55	7.08	7.95	7.61	7.70	7.44	7.74	7.76	
	AVG	7.68	8.17	8.35	8.74	8.68	8.35	8.58	8.39	8.40	8.90	8.57	8.68	8.54	7.95	7.49	8.18	7.98	7.91	7.73	8.10	8.23	
RACINE*** MP 237.5	MAX	7.33	6.65	6.98	6.85	6.66	6.61	6.84	6.84	6.96	7.01	6.89	6.00	*	*	6.44	6.51	6.81	6.61	7.87	7.71	8.42	0.00%
	MIN	7.02	6.40	6.51	6.45	6.46	6.42	6.24	6.21	6.17	6.52	6.38	4.97	*	*	5.88	6.03	5.98	5.54	6.46	6.92	6.85	
	AVG	7.21	6.53	6.74	6.60	6.55	6.50	6.46	6.52	6.52	6.78	6.60	5.61	*	*	6.13	6.30	6.21	6.09	7.29	7.27	7.52	
REENUP*** MP 341.0 UPSTREAM DOWNSTREAM	MAX	8.18	6.86	5.76	5.71	7.63	6.46	7.27	10.06	8.16	8.47	9.43	9.43	6.62	6.46	6.98	6.89	6.91	5.81	6.74	6.94	5.98	0.00%
	MIN	5.90	5.30	5.26	5.33	5.26	5.06	4.75	5.14	5.50	5.38	5.76	5.52	5.64	5.23	5.30	6.00	5.06	5.18	5.54	5.47	5.26	
	AVG	6.30	5.97	5.46	5.48	5.58	5.29	5.26	6.00	5.99	6.29	6.38	6.22	5.90	5.57	6.11	6.34	5.67	5.51	5.88	6.21	5.61	
	MAX	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8.59	7.73	8.33	8.90	7.68	0.00%
	MIN	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	6.58	6.79	7.25	7.25	7.20	
	AVG	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	7.53	7.18	7.57	7.71	7.41	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	6.94	5.88	5.43	5.96	5.81	5.83	6.43	6.99	7.26	7.16	6.54	6.13	6.34	5.93	6.17	6.78	6.80	5.78	5.38	6.39	6.15	0.00%
	DS-Lock	6.82	6.07	5.57	5.61	5.69	5.28	5.74	5.87	6.27	6.27	5.52	*	*	6.25	6.09	6.16	6.69	5.90	*	*	*	0.00%
	US-Hydro	7.22	6.54	6.17	6.54	6.17	6.13	6.93	6.69	6.64	6.98	6.07	<u>4.06</u>	5.96	5.46	<u>3.93</u>	5.18	*	*	*	*	*	12.50%
	DS-Hydro	8.08	7.19	6.67	7.10	7.19	7.11	7.38	7.12	7.16	6.83	6.53	6.48	6.09	6.09	5.98	6.34	6.71	6.43	6.05	5.78	5.81	0.00%
cALPINE*** MP 606.8	MAX	6.49	6.12	6.38	6.48	6.31	6.95	6.64	7.58	8.50	8.26	8.64	7.44	6.43	9.43	10.04	8.06	6.57	5.95	6.77	*	6.81	0.00%
	MIN	6.25	5.74	6.03	6.31	6.02	5.82	5.75	6.30	6.39	5.62	6.89	5.97	6.02	5.52	5.72	7.05	5.55	4.65	4.06	*	5.35	
	AVG	6.37	6.00	6.21	6.38	6.20	6.30	6.30	6.78	7.43	7.20	7.51	6.62	6.25	6.93	7.04	7.58	6.15	5.32	5.35	*	6.08	
N T. MYERS** MP 846.0	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	10.02	9.15	9.51	0.00%
	MIN	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	7.17	6.83	6.71	
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	8.27	7.95	7.74	
MITHLAND** MP 919.0	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	6.52	9.63	0.00%
	MIN	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	5.53	5.93	
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	6.02	7.55	

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Daily Dissolved Oxygen July 2012																						
LENDAR DAY ULIAN DAY		3-Jul 185	5-Jul 187	6-Jul 188	9-Jul 191	10-Jul 192	11-Jul 193	12-Jul 194	13-Jul 195	16-Jul 198	17-Jul 199	19-Jul 201	20-Jul 202	23-Jul 205	24-Jul 206	25-Jul 207	26-Jul 208	27-Jul 209	30-Jul 212	31-Jul 213	Monthly % Exceedance	
ONTGOMERY MP 31.7	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	0.00%	
	MIN	7.70	6.20	5.80	7.50	5.90	5.20	5.30	5.10	5.50	5.50	6.50	5.70	6.00	6.80	7.00	7.40	7.30	7.00	7.00		
	AVG	8.90	7.60	7.30	9.00	8.00	7.10	6.80	6.40	6.30	6.50	7.10	6.70	6.90	7.50	8.00	8.30	8.20	7.50	7.50		
ANNIBAL*** MP 126.4 UPSTREAM	MAX	7.89	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	0.00%	
	MIN	7.10	7.46	5.45	7.50	7.01	7.22	7.40	6.87	7.22	6.92	7.17	6.93	7.25	7.50	7.50	8.01	7.43	7.35	8.27		
	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		
RACINE*** MP 237.5	MAX	No	6.35	6.35	5.12	6.40	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	5.50%	
	MIN	Data	5.90	5.52	<u>3.93</u>	<u>3.84</u>	5.99	5.94	5.74	5.29	5.20	5.04	5.59	5.08	5.18	5.69	5.37	5.39	4.84	4.78		
	AVG	Available	6.14	5.95	<u>4.44</u>	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		
REENUP*** MP 341.0 UPSTREAM	MAX	5.40	5.11	No	6.34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	33.00%	
	MIN	4.92	4.34	Data	4.68	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	AVG	5.14	<u>4.7Z</u>	Available	5.10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
DOWNSTREAM	MAX	7.18	6.77	No	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	0.00%	
	MIN	6.22	5.45	Data	5.57	6.02	5.40	5.50	5.50	5.09	5.14	6.38	6.65	4.56	4.94	4.97	5.11	5.42	5.40	5.76		
	AVG	6.62	6.20	Available	6.46	6.58	5.72	5.72	5.84	5.38	6.09	6.74	6.88	5.33	5.31	5.42	5.65	5.92	6.12	5.97		
ARKLAND*** MP 531.5 D.O. #1	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	<u>4.90</u>	5.08	5.66	6.08	5.82	5.20%	
	DS-Lock	*	*	*	*	*	*	6.49	5.36	5.13	<u>4.99</u>	6.03	5.17	5.73	5.66	5.22	5.32	5.85	6.39	6.17	7.70%	
	US-Hydro	*	6.95	7.01	<u>4.88</u>	6.70	7.63	7.04	5.46	5.13	5.00	6.14	5.10	5.78	5.65	<u>4.99</u>	5.27	5.98	6.30	6.02	11.10%	
	DS-Hydro	6.07	6.29	6.33	*	*	6.59	6.47	5.94	5.25	<u>4.86</u>	5.57	<u>4.44</u>	5.41	5.40	<u>4.98</u>	5.35	6.09	6.43	6.18	17.60%	
cALPINE*** MP 606.8	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	7.95	6.88	6.70	7.16	6.18	7.71	15.70%	
	MIN	<u>4.52</u>	5.22	5.09	4.50	4.39	4.20	5.31	4.93	4.24	4.93	5.77	5.38	5.42	5.51	6.08	5.63	5.00	5.12	5.32		
	AVG	5.29	5.95	5.54	<u>4.80</u>	<u>4.99</u>	5.57	5.87	5.62	<u>4.99</u>	5.76	6.16	5.76	6.17	6.56	6.50	6.05	5.88	5.75	6.41		
N T. MYERS** MP 846.0	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	0.00%	
	MIN	5.16	4.70	5.28	4.75	4.50	5.05	4.76	4.94	4.48	4.68	5.98	5.43	7.14	6.38	6.62	5.51	4.92	5.93	5.97		
	AVG	5.97	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		
MITHLAND** MP 919.0	MAX	8.30	6.15	7.48	7.31	6.17	6.42	5.38	5.23	5.22	7.65	6.26	6.69	6.89	7.26	8.30	7.50	7.52	7.42	8.33	26.30%	
	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	<u>4.60</u>	<u>4.66</u>	<u>4.70</u>	<u>4.28</u>	<u>4.39</u>	5.17	5.00	5.75	5.59	5.73	6.39	6.67	6.49	6.82	6.76		

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Daily Dissolved Oxygen August 2012																					
LENDAR DAY ULIAN DAY		2-Aug 215	3-Aug 216	6-Aug 219	7-Aug 220	8-Aug 221	9-Aug 222	10-Aug 223	14-Aug 227	15-Aug 228	16-Aug 229	17-Aug 230	20-Aug 233	21-Aug 234	22-Aug 235	23-Aug 236	24-Aug 237	27-Aug 240	28-Aug 241	29-Aug 242	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	9.30	9.60	9.40	9.70	8.80	9.60	9.20	No	No	8.80	8.20	9.00	9.80	8.90	9.00	10.60	8.60	7.50	7.10	0.00%
	MIN	7.50	7.70	7.90	7.40	6.90	6.70	7.20	Data	Data	7.00	6.90	7.20	7.00	7.30	6.90	7.20	6.90	6.20	5.30	
	AVG	8.00	8.40	8.70	8.30	7.60	7.80	7.80	Available	Available	7.70	7.50	8.00	8.00	8.10	8.00	8.60	7.80	6.80	6.40	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	8.54	9.08	8.79	9.23	8.60	7.43	9.15	8.54	8.13	9.02	7.68	8.28	8.18	8.45	8.69	8.30	8.31	8.07	7.41	0.00%
	MIN	6.84	7.10	6.26	6.68	6.47	6.30	7.29	7.82	7.62	6.87	6.83	6.93	7.35	7.35	7.23	7.11	7.91	7.11	6.92	
	AVG	7.71	7.93	7.34	7.80	7.47	6.91	8.16	8.15	7.86	7.73	7.19	7.77	7.86	8.03	7.91	7.62	8.15	7.48	7.19	
RACINE*** MP 237.5	MAX	7.70	7.52	No	5.15	7.03	7.10	7.40	5.49	6.27	6.07	5.54	4.98	6.84	6.51	6.60	6.74	6.79	6.60	6.31	11.10%
	MIN	6.42	6.61	Data	4.54	4.53	6.51	6.29	4.84	4.97	5.25	4.93	<u>3.54</u>	<u>3.54</u>	6.26	6.21	6.21	6.00	6.20	5.36	
	AVG	6.99	7.01	Available	<u>4.84</u>	6.21	6.78	6.62	5.16	5.84	5.65	5.19	<u>4.40</u>	5.84	6.37	6.35	6.46	6.41	6.40	5.75	
REENUP*** MP 341.0 UPSTREAM	MAX	5.30	5.81	5.74	7.94	6.22	6.10	5.09	6.10	5.76	5.64	6.38	6.26	6.00	5.76	7.85	No	6.94	6.17	6.22	22.20%
	MIN	4.13	4.08	4.42	4.61	<u>3.70</u>	<u>3.94</u>	<u>3.79</u>	5.21	5.23	4.90	5.54	4.92	4.70	4.73	5.40	Data	4.87	5.30	5.16	
	AVG	<u>4.66</u>	<u>4.88</u>	5.06	5.68	<u>4.76</u>	5.00	<u>4.16</u>	5.50	5.45	5.30	5.92	5.51	5.38	5.24	6.26	Available	5.97	5.60	5.64	
DOWNSTREAM	MAX	7.51	7.18	6.58	6.89	6.72	7.39	6.55	7.13	7.97	7.92	6.72	7.90	6.24	<u>4.78</u>	<u>4.92</u>	No	7.66	8.45	8.93	11.10%
	MIN	6.07	6.53	5.40	6.19	5.86	6.12	5.78	6.38	7.18	6.62	6.24	6.43	<u>4.68</u>	<u>4.54</u>	<u>4.68</u>	Data	5.16	7.73	8.42	
	AVG	6.69	6.88	6.18	6.51	6.22	6.70	6.15	6.68	7.69	7.25	6.49	7.05	5.29	<u>4.62</u>	<u>4.84</u>	Available	6.58	8.22	8.72	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	6.52	6.22	5.81	6.02	6.30	6.38	6.01	5.69	5.45	5.47	5.66	6.63	6.35	6.12	6.17	6.66	6.43	6.07	6.24	0.00%
	DS-Lock	6.01	6.33	6.17	6.20	6.64	6.67	5.88	5.47	5.16	5.32	5.45	5.80	6.16	5.46	5.85	6.25	5.59	5.96	6.73	0.00%
	US-Hydro	6.33	6.55	6.59	6.30	6.64	6.68	5.67	5.64	5.18	5.42	5.31	5.20	5.55	<u>2.94</u>	5.65	6.79	<u>3.51</u>	7.10	7.72	10.50%
	DS-Hydro	6.50	6.66	6.31	6.27	6.64	6.63	5.83	*	*	*	*	*	6.39	6.13	6.26	6.58	6.31	6.76	7.16	0.00%
cALPINE*** MP 606.8	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No Data Available
	MIN	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	
N T. MYERS** MP 846.0	MAX	7.24	7.49	7.84	8.04	7.97	6.68	6.68	7.25	8.09	8.50	8.35	9.69	9.11	8.80	No	No	No	9.31	10.74	0.00%
	MIN	5.15	5.58	5.05	5.85	6.02	6.42	6.55	6.09	7.07	7.33	7.37	7.79	7.93	8.71	Data	Data	Data	7.23	7.13	
	AVG	6.13	6.30	5.99	6.47	7.01	6.61	6.63	6.45	7.43	8.16	8.01	8.32	8.63	8.76	Available	Available	Available	8.45	8.47	
HITHLAND** MP 919.0	MAX	8.11	7.29	8.86	10.81	9.30	8.67	7.85	6.45	8.06	6.50	7.75	9.53	9.07	8.58	7.36	7.76	8.84	8.89	8.98	0.00%
	MIN	5.26	5.70	5.54	6.58	6.34	5.77	6.45	5.39	5.10	5.18	5.52	5.62	5.22	5.02	4.96	5.46	2.76	6.99	6.41	
	AVG	5.89	6.34	6.99	7.90	7.33	7.24	7.04	6.00	6.13	5.69	6.44	6.92	6.70	6.14	6.17	6.64	6.50	7.90	7.44	

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Daily Dissolved Oxygen September 2012																					
LENDAR DAY ULIAN DAY		4-Sep 248	5-Sep 249	6-Sep 250	7-Sep 251	10-Sep 254	11-Sep 255	12-Sep 256	13-Sep 257	14-Sep 258	17-Sep 261	18-Sep 262	19-Sep 263	20-Sep 264	21-Sep 265	24-Sep 268	25-Sep 269	26-Sep 270	27-Sep 271	28-Sep 272	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	6.50	6.40	7.30	6.70	7.00	7.00	7.00	7.40	9.40	9.00	8.50	8.30	7.90	8.00	8.70	8.70	9.00	8.40	8.50	0.00%
	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	8.00	7.90	7.80	7.80	7.80	
	AVG	6.10	6.00	7.20	6.10	6.60	6.70	6.80	6.90	7.60	7.60	7.70	7.80	7.60	7.60	8.30	8.20	8.40	8.20	8.20	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	7.71	8.01	8.36	8.51	8.45	8.43	8.63	8.58	8.31	8.64	8.87	8.73	8.57	8.45	8.64	8.78	8.81	8.93	8.87	0.00%
	MIN	7.31	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	8.31	8.43	8.45	8.45	8.63	
	AVG	7.60	7.69	7.93	8.05	8.26	7.95	8.25	8.37	8.10	8.34	8.49	8.43	8.26	8.23	8.48	8.57	8.68	8.64	8.72	
RACINE*** MP 237.5	MAX	*	*	5.76	5.76	5.37	5.95	6.09	6.09	5.97	6.76	6.74	6.34	6.17	6.05	5.82	6.26	6.26	7.00	7.00	0.00%
	MIN	*	*	5.40	5.31	5.07	4.60	5.15	5.66	5.67	6.19	6.08	5.30	5.26	5.70	5.45	5.65	6.10	6.17	6.49	
	AVG	*	*	5.55	5.50	5.21	5.34	5.68	5.87	5.82	6.54	6.38	5.67	5.66	5.90	5.70	6.01	6.19	6.48	6.71	
REENUP*** MP 341.0 UPSTREAM DOWNSTREAM	MAX	5.59	5.59	5.93	6.05	6.29	5.62	7.30	7.54	6.89	7.27	5.64	5.86	6.07	6.41	6.70	7.03	*	6.36	6.12	5.80%
	MIN	4.58	4.63	4.63	4.37	4.27	4.56	4.56	4.87	5.18	<u>3.24</u>	4.61	4.39	5.16	5.04	6.10	6.05	*	5.98	5.74	
	AVG	5.29	5.02	5.16	5.11	5.31	<u>4.87</u>	5.62	5.87	5.79	5.99	5.24	5.31	5.67	5.76	6.38	6.47	*	6.22	5.88	
	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	10.90	0.00%
	MIN	5.04	5.11	4.99	4.99	6.62	6.96	7.37	8.06	6.84	5.78	6.94	6.98	7.03	7.08	*	7.25	7.08	7.13	7.01	
	AVG	5.20	5.25	5.18	5.45	7.02	7.15	8.19	8.48	7.91	6.95	7.04	7.20	7.45	7.34	*	7.60	7.32	7.27	7.59	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	5.21	5.27	5.42	5.14	5.05	~~4.58~~	5.12	5.44	5.74	5.36	5.21	5.92	6.22	6.24	6.94	6.78	6.83	6.72	6.67	5.20%
	DS-Lock	5.54	5.52	5.76	5.66	5.79	5.14	5.34	5.88	5.51	5.34	5.24	6.25	6.23	6.42	7.25	7.35	7.40	7.19	7.06	0.00%
	US-Hydro	5.33	<u>4.77</u>	5.78	5.66	5.66	<u>4.99</u>	5.21	<u>4.78</u>	<u>4.54</u>	<u>3.24</u>	<u>4.04</u>	5.83	6.03	6.16	6.69	6.56	6.82	6.69	6.65	31.50%
	DS-Hydro	5.68	5.65	5.80	5.74	5.86	5.39	5.86	6.04	5.86	6.02	5.51	6.10	6.63	6.64	7.70	7.57	7.36	7.02	6.85	0.00%
cALPINE*** MP 606.8	MAX	5.51	5.82	6.15	5.74	5.77	5.84	5.81	5.70	6.34	6.07	6.08	6.36	6.15	6.36	6.53	6.38	6.65	7.01	6.91	0.00%
	MIN	<u>4.96</u>	5.04	4.91	5.16	5.36	5.04	4.80	5.48	5.47	5.54	5.54	6.01	5.61	5.62	6.08	6.08	6.23	6.48	6.78	
	AVG	5.23	5.32	5.32	5.43	5.57	5.36	5.37	5.59	5.82	5.74	5.75	6.17	5.90	5.98	6.30	6.28	6.41	6.75	6.85	
N T. MYERS** MP 846.0	MAX	7.18	6.81	8.46	8.19	8.02	8.80	8.11	6.72	6.16	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN	5.61	5.09	4.50	5.14	5.52	6.06	5.65	5.61	5.01	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	
	AVG	6.23	5.76	5.59	6.46	6.71	7.07	6.71	6.14	5.65	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
MITHLAND** MP 919.0	MAX	6.95	7.82	6.09	6.95	8.03	6.39	5.52	5.53	6.20	5.65	No	No	No	No	No	No	No	No	No	40.00%
	MIN	5.22	4.87	4.67	4.10	3.92	3.87	4.11	4.39	4.84	4.16	Data	Data	Data	Data	Data	Data	Data	Data	Data	
	AVG	5.86	5.92	5.28	5.19	5.19	<u>4.95</u>	<u>4.89</u>	<u>4.99</u>	5.55	<u>4.95</u>	Available	Available	Available	Available	Available	Available	Available	Available	Available	

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Daily Dissolved Oxygen October 2012																									
LENDAR DAY ULIAN DAY		1-Oct 275	2-Oct 276	3-Oct 277	4-Oct 278	5-Oct 279	8-Oct 282	9-Oct 283	10-Oct 284	11-Oct 285	12-Oct 286	15-Oct 289	16-Oct 290	17-Oct 291	18-Oct 292	19-Oct 293	22-Oct 296	23-Oct 297	24-Oct 298	25-Oct 299	26-Oct 300	29-Oct 303	30-Oct 304	31-Oct 305	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	9.20	9.20	9.30	9.50	9.40	9.10	9.10	9.00	9.30	9.30	9.70	9.70	9.70	9.80	9.80	9.60	9.90	10.00	10.00	10.00	9.80	9.70	11.10	0.00%
	MIN	8.60	8.70	8.80	8.80	8.70	8.50	8.60	8.50	8.40	8.80	9.10	9.10	9.30	9.30	9.30	9.40	9.40	9.60	9.70	9.70	9.60	9.40	10.80	
	AVG	8.90	9.00	9.10	9.20	9.10	8.90	8.80	8.80	8.80	8.90	9.00	9.40	9.30	9.40	9.50	9.50	9.70	9.90	9.80	9.90	9.70	9.50	11.00	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	8.99	8.99	9.30	9.06	9.02	9.23	9.09	9.24	9.26	9.54	9.50	9.56	9.47	9.38	9.32	9.62	9.65	9.71	9.60	9.48	9.75	9.72	11.19	0.00%
	MIN	8.48	8.72	8.82	8.93	8.82	9.00	8.75	8.93	9.03	7.59	9.39	9.30	9.30	9.24	9.08	8.99	9.53	9.56	9.39	9.33	9.63	9.59	10.41	
	AVG	8.81	8.88	9.06	9.00	8.93	9.07	8.94	9.04	9.13	9.11	9.44	9.43	9.42	9.32	9.21	9.09	9.59	9.63	9.51	9.41	9.70	9.65	11.01	
RACINE*** MP 237.5	MAX	6.19	6.27	6.49	6.64	6.39	6.61	6.67	6.79	6.85	6.94	7.02	6.98	7.41	7.36	6.97	6.83	6.77	6.65	8.13	7.69	6.94	7.61	8.54	
	MIN	5.94	5.99	6.18	6.22	6.11	6.36	6.43	6.54	6.61	6.69	6.83	6.86	6.69	6.78	6.58	6.48	6.42	6.46	7.05	7.04	6.73	6.73	8.13	
	AVG	6.07	6.16	6.30	6.34	6.26	6.48	6.55	6.65	6.72	6.80	6.92	6.91	7.04	7.00	6.78	6.66	6.58	6.55	7.43	7.41	6.82	7.11	8.32	
REENUP*** MP 341.0 UPSTREAM	MAX	5.28	5.57	6.38	6.00	6.12	7.92	6.65	6.94	6.82	6.94	7.44	7.58	7.22	6.82	7.37	7.49	7.78	7.66	7.78	7.25	7.90	7.80	8.90	0.00%
	MIN	5.18	5.16	5.42	4.97	5.81	5.76	6.26	6.02	6.10	6.55	7.10	6.65	6.48	6.50	6.96	6.62	7.25	7.37	7.32	7.01	7.80	7.54	8.45	
	AVG	5.78	5.33	5.75	5.46	6.01	6.26	6.47	6.22	6.50	6.68	7.30	7.02	6.78	6.64	7.24	7.21	7.60	7.48	7.57	7.13	7.85	7.69	8.58	
OWNSTREAM	MAX	6.86	8.30	10.80	11.04	7.46	12.19	10.75	9.19	10.10	12.84	8.86	14.42	11.16	10.61	12.38	15.67	9.60	12.58	9.24	12.10	8.78	11.83	8.04	0.00%
	MIN	6.82	6.48	6.53	6.55	6.38	6.60	6.91	6.96	6.98	7.08	7.06	7.34	7.46	7.92	8.21	7.99	8.14	7.92	8.06	7.92	7.34	7.01	7.80	
	AVG	7.41	6.90	7.16	7.08	6.66	7.37	7.59	7.28	7.39	7.75	7.50	8.22	8.19	8.40	8.75	8.63	8.41	8.47	8.24	8.45	7.67	7.54	7.92	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	6.47	6.85	7.11	7.13	7.29	7.56	7.74	8.07	7.94	8.00	8.36	8.14	8.16	8.20	8.14	8.22	8.32	8.89	8.37	7.74	8.13	8.38	8.72	0.00%
	DS-Lock	6.61	6.96	7.23	7.16	7.51	7.48	7.35	7.50	7.01	6.66	7.54	7.22	7.17	7.49	7.55	7.35	7.32	7.66	7.87	7.57	8.14	8.63	9.16	0.00%
	US-Hydro	6.21	6.53	6.63	6.52	6.77	6.85	6.94	6.70	6.54	6.95	7.57	7.40	7.41	7.38	7.19	7.51	7.59	8.04	7.94	7.63	7.75	8.10	8.18	0.00%
	DS-Hydro	6.55	7.01	7.28	7.32	7.56	7.76	7.96	8.18	8.24	8.43	8.24	8.04	7.99	7.90	8.02	7.97	8.18	8.60	8.49	8.34	8.44	8.56	8.90	0.00%
cALPINE*** MP 606.8	MAX	6.99	6.86	7.06	7.22	7.44	7.90	8.54	8.65	8.52	8.92	8.49	8.54	8.39	8.47	8.56	8.40	8.47	8.51	8.39	8.47	9.03	9.01	9.03	0.00%
	MIN	6.83	6.76	6.87	7.04	7.14	7.44	7.75	8.13	8.18	8.22	8.23	8.35	8.21	8.15	8.46	8.30	8.27	8.37	8.27	8.25	8.77	8.89	7.34	
	AVG	6.90	6.81	6.96	7.12	7.28	7.65	8.12	8.35	8.35	8.49	8.34	8.44	8.27	8.33	8.51	8.35	8.38	8.42	8.35	8.37	8.89	8.95	8.19	

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Daily Dissolved Oxygen May 2013																								
LENDAR DAY		1-May 121	2-May 122	3-May 123	6-May 126	7-May 127	8-May 128	9-May 129	10-May 130	13-May 133	14-May 134	15-May 135	16-May 136	17-May 137	20-May 140	21-May 141	22-May 142	23-May 143	24-May 144	28-May 148	29-May 149	30-May 150	31-May 151	Monthly % Exceedance
MONTGOMERY MP 31.7	MAX	11.70	11.70	11.80	11.80	11.20	11.20	10.80	10.90	10.20	10.80	10.40	10.80	10.50	10.70	10.10	10.40	9.80	9.80	9.90	10.20	10.50	9.90	0.00%
	MIN	11.30	11.30	11.40	11.10	10.80	10.20	10.40	10.70	10.00	10.30	10.10	10.30	10.20	9.30	9.50	9.30	9.10	9.00	9.40	9.70	9.60	9.30	
	AVG	11.50	11.50	11.60	11.45	11.00	10.70	10.60	10.80	10.10	10.55	10.25	10.55	10.35	10.00	9.80	9.85	9.45	9.40	9.65	9.95	10.05	9.60	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	No	10.29	10.22	No	10.61	No	9.71	9.71	9.57	9.66	12.39	10.29	8.99	9.09	9.77	9.62	9.21	9.17	9.36	9.45	8.96	9.74	0.00%
	MIN	Data	10.10	10.04	Data	9.03	Data	9.47	8.94	8.94	9.26	9.12	8.82	8.54	8.49	9.14	9.14	8.88	8.57	8.69	8.33	7.10	8.66	
	AVG	Available	10.17	10.14	Available	9.38	Available	9.54	9.45	9.19	9.50	9.75	9.59	8.69	8.60	9.28	9.42	9.05	8.81	9.05	9.06	8.70	9.05	
RACINE*** MP 237.5	MAX	9.38	9.17	8.97	8.70	8.86	8.78	8.65	8.82	8.44	8.46	8.29	8.05	7.87	7.91	8.95	8.53	8.62	8.06	7.39	6.76	6.99	7.55	0.00%
	MIN	9.03	8.80	8.78	8.51	8.57	8.50	8.11	8.11	8.07	8.00	7.99	7.83	7.57	7.66	7.78	8.27	7.75	7.71	6.70	6.51	6.43	6.80	
	AVG	9.15	8.99	8.86	8.60	8.71	8.65	8.48	8.64	8.31	8.22	8.09	7.96	7.75	7.79	8.32	8.43	8.15	7.88	7.06	6.69	6.78	7.06	
GREENUP*** MP 341.0 UPSTREAM	MAX	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
	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	MAX	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
	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	
ARKLAND*** MP 531.5	US-Lock	8.29	8.37	8.16	7.90	7.34	6.64	6.91	7.78	8.28	8.25	8.24	8.23	8.19	7.55	7.17	7.23	7.41	7.45	7.27	7.54	8.03	7.94	0.00%
	DS-Lock	9.93	9.93	9.82	9.65	9.33	8.75	9.08	9.01	8.73	8.67	8.68	8.83	8.74	8.27	7.95	7.93	8.01	8.18	8.32	8.39	8.30	8.23	0.00%
	US-Hydro	9.73	9.65	9.67	8.96	8.64	8.57	8.34	8.22	8.21	8.11	8.00	8.72	8.77	8.21	8.01	8.19	8.23	8.16	8.23	8.32	8.34	8.24	0.00%
	DS-Hydro	9.94	9.83	9.75	9.45	9.08	8.57	8.67	8.89	8.90	8.99	9.01	9.16	9.13	8.68	8.47	8.75	8.93	8.92	9.38	9.63	9.82	9.77	0.00%
McALPINE*** MP 606.8	MAX	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
MIN	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	

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Daily Dissolved Oxygen June 2013																							
LENDAR DAY		3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	Monthly	
ULIAN DAY		154	155	156	157	158	161	162	163	164	165	168	169	170	171	172	175	176	177	178	179	% Exceedance	
ONTGOMERY MP 31.7	MAX	No	No	No	6.70	9.20	9.00	8.90	8.90	9.20	9.10	8.80	8.90	9.70	9.00	9.00	9.50	9.20	9.60	9.00	8.40		
	MIN	Data	Data	Data	8.60	8.60	8.60	8.70	8.50	8.50	8.80	8.40	8.60	8.70	8.60	8.60	8.20	8.10	8.40	8.10	7.20		
	AVG	Available	Available	Available	9.10	8.90	8.80	8.80	8.70	8.70	8.90	8.60	8.70	8.90	8.80	8.80	8.80	8.60	9.00	8.50	7.20	0.00%	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	9.92	9.35	10.11	9.09	10.35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	MIN	7.41	8.97	8.12	8.19	7.61	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	AVG	9.25	9.10	9.01	8.65	8.39	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0.00%	
RACINE*** MP 237.5	MAX	6.68	6.48	6.45	6.45	6.79	6.52	6.43	6.59	6.83	6.83	6.53	7.62	7.20	6.91	6.77	6.47	6.97	6.70	6.42	6.30		
	MIN	6.38	6.13	5.91	6.19	6.26	6.08	6.08	6.26	6.20	6.26	6.23	6.31	6.60	6.50	6.46	6.10	6.08	6.37	6.08	6.08		
	AVG	6.48	6.30	6.21	6.33	6.51	6.25	6.23	6.44	6.51	6.48	6.38	6.98	6.89	6.65	6.58	6.24	6.44	6.53	6.21	6.19	0.00%	
REENUP*** MP 341.0 UPSTREAM	MAX	No	No	No	No	6.70	5.52	6.34	6.34	5.88	5.83	No	No	No	No	No	No	No	No	No	No		
	MIN	Data	Data	Data	Data	6.07	5.33	5.42	5.59	5.52	5.50	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data		
	AVG	Available	Available	Available	Available	6.24	5.42	6.13	5.91	5.64	5.59	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%	
DOWNSTREAM	MAX	No	No	No	No	7.06	6.77	6.98	6.98	6.70	6.77	No	No	No	No	No	No	No	No	No	No		
	MIN	Data	Data	Data	Data	6.67	6.26	6.58	6.55	6.36	6.46	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data		
	AVG	Available	Available	Available	Available	6.87	6.47	6.93	6.83	6.55	6.66	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	0.00%	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	6.92	6.72	6.61	6.24	6.40	5.73	5.97	5.83	5.71	5.79	5.38	5.20	5.08	5.16	5.34	5.28	5.24	5.26	5.52	5.44	0.00%	
	DS-Lock	7.89	7.74	7.59	7.27	7.24	6.66	6.80	6.85	6.29	6.52	5.88	5.87	5.92	6.11	6.29	6.31	6.19	6.21	6.29	5.99	0.00%	
	US-Hydro	7.55	7.32	7.17	6.95	6.96	5.94	6.18	6.14	5.81	<u>4.88</u>	5.45	5.30	5.46	5.71	5.92	6.31	6.42	6.56	6.42	6.51	5.00%	
	DS-Hydro	8.65	8.38	8.44	8.15	8.04	6.75	7.08	7.04	6.67	6.63	5.99	5.95	5.92	6.02	6.20	6.59	6.58	6.75	6.60	6.44	0.00%	
cALPINE*** MP 606.8	MAX	8.50	8.25	8.21	7.97	8.70	6.96	6.94	6.81	6.80	6.65	6.01	5.80	5.75	5.73	5.92	6.05	6.05	6.24	6.28	6.21		
	MIN	8.03	7.68	7.66	7.38	7.42	6.65	6.56	6.43	6.30	5.93	5.02	5.67	5.50	5.46	5.67	5.93	5.93	6.00	5.89	6.03		
	AVG	8.25	7.98	7.85	7.65	8.03	6.82	6.78	6.62	6.53	6.45	5.56	5.75	5.65	5.62	5.79	6.00	5.99	6.14	6.11	6.11	0.00%	
N T. MYERS** MP 846.0	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	7.11	7.32	7.29	6.87	7.48		
	MIN	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	6.94	6.72	6.43	6.37	6.32		
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	7.01	7.02	6.85	6.57	6.84	0.00%	
WITHLAND** MP 919.0	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	6.34	6.44	6.44	6.25	6.09		
	MIN	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	6.11	6.15	6.20	6.02	5.87		
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	6.24	6.29	6.28	6.15	5.97	0.00%	

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Daily Dissolved Oxygen July 2013																							
LENDAR DAY ULIAN DAY		1-Jul 182	2-Jul 183	3-Jul 184	5-Jul 186	8-Jul 189	9-Jul 190	10-Jul 191	11-Jul 192	12-Jul 193	15-Jul 196	16-Jul 197	17-Jul 198	18-Jul 199	19-Jul 200	22-Jul 203	23-Jul 204	24-Jul 205	25-Jul 206	26-Jul 207	30-Jul 211	31-Jul 212	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX MIN AVG	No Data Available	8.70 8.40 8.60	8.80 8.70 8.80	8.90 8.60 8.80	8.80 8.30 8.50	No Data Available	8.50 8.30 8.40	8.50 7.70 8.20	7.90 7.20 7.50	8.40 8.20 8.30	8.30 8.00 8.20	8.30 8.00 8.10	7.60 7.50 7.55	8.30 7.60 8.00	8.20 7.50 7.70	7.90 7.30 7.70	7.90 7.00 7.50	7.90 7.20 7.60	7.90 7.30 7.70	8.20 7.80 8.00	8.20 7.60 7.80	0.00%
ANNIBAL*** MP 126.4 UPSTREAM	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	0.00%
RACINE*** MP 237.5	MAX MIN AVG	6.22 5.91 6.05	6.34 5.89 6.02	6.34 5.97 6.09	6.41 6.05 6.20	8.23 6.25 7.01	8.95 8.65 8.84	8.95 8.24 8.63	8.51 8.10 8.30	8.47 7.89 8.10	8.06 7.80 7.93	7.95 7.56 7.79	7.82 7.47 7.63	7.68 7.37 7.49	7.47 6.77 7.09	6.81 6.46 6.63	6.65 6.30 6.49	6.51 6.30 6.39	6.86 6.58 6.74	6.84 6.20 6.62	6.25 5.99 6.11	6.42 6.16 6.25	0.00%
REENUP*** MP 341.0 UPSTREAM	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	0.00%
DOWNSTREAM	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	0.00%
ARKLAND*** MP 531.5 D.O. #1	US-Lock DS-Lock US-Hydro DS-Hydro	6.03 6.71 6.59 6.93	5.71 6.46 6.27 6.52	5.24 6.04 5.96 5.99	5.26 6.07 5.76 5.90	5.06 5.56 5.48 5.66	5.20 5.91 5.67 5.87	5.14 6.09 5.90 5.94	5.17 6.35 5.48 5.87	5.10 6.35 5.45 5.96	5.40 5.99 5.11 5.55	5.70 6.08 5.11 5.48	5.91 6.20 5.16 5.60	6.23 6.39 5.26 5.73	6.70 6.40 5.67 5.97	* 6.63 6.20 6.46	* 6.70 6.34 6.54	* 6.79 6.33 6.61	* 6.97 6.32 6.71	* 6.81 6.20 6.51	7.63 6.43 6.13 6.40	7.54 6.64 6.34 6.56	0.00% 0.00% 0.00% 0.00%
ALPINE*** MP 606.8	MAX MIN AVG	6.38 6.01 6.22	6.46 6.28 6.37	6.36 5.91 6.14	5.93 4.44 5.31	No Data Available	5.54 5.10 5.30	6.01 5.17 5.58	6.15 5.71 5.98	6.32 5.98 6.07	6.35 5.10 5.89	5.85 5.24 5.62	5.82 5.74 5.78	5.79 5.68 5.73	5.90 5.64 5.83	6.14 5.80 6.02	6.63 5.80 6.21	6.70 5.80 6.37	6.31 5.96 6.13	6.49 5.87 6.22	6.68 6.42 6.57	6.41 6.28 6.36	0.00%
N T. MYERS** MP 846.0	MAX MIN AVG	6.96 6.42 6.71	6.38 6.09 6.19	6.51 6.09 6.31	6.60 5.85 6.52	6.96 6.43 6.71	6.50 5.90 6.23	5.98 5.87 5.92	5.92 5.72 5.81	5.94 5.79 5.86	6.68 6.39 6.57	6.68 6.47 6.58	6.50 6.35 6.42	6.43 6.30 6.37	6.42 6.28 6.34	7.07 6.65 6.83	6.96 6.75 6.86	6.80 6.66 6.73	6.86 6.65 6.74	6.79 6.68 6.74	6.97 6.80 6.88	7.03 6.86 6.95	0.00%
WITHLAND** MP 919.0	MAX MIN AVG	5.86 5.37 5.55	5.56 5.42 5.48	5.57 5.39 5.48	5.59 5.41 5.51	5.96 5.82 5.90	5.93 5.62 5.80	5.65 5.30 5.51	5.32 5.24 5.28	5.28 5.19 5.23	5.76 5.57 5.65	5.81 5.72 5.76	5.80 5.67 5.74	5.76 5.53 5.61	5.65 5.54 5.59	6.38 5.95 6.09	6.68 6.12 6.33	6.47 6.24 6.39	6.24 5.90 6.09	6.49 5.88 6.16	6.78 5.94 6.68	6.93 6.60 6.73	0.00%

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Daily Dissolved Oxygen August 2013																							
LENDAR DAY ULIAN DAY		1-Aug 213	5-Aug 217	6-Aug 218	7-Aug 219	8-Aug 220	9-Aug 221	12-Aug 224	13-Aug 225	14-Aug 226	15-Aug 227	16-Aug 228	19-Aug 231	20-Aug 232	21-Aug 233	22-Aug 234	23-Aug 235	26-Aug 238	27-Aug 239	28-Aug 240	29-Aug 241	30-Aug 242	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	8.50	7.80	9.00	10.30	9.50	9.00	8.10	8.00	8.40	8.70	8.50	8.50	9.40	9.40	9.90	9.40	8.70	8.70	8.60	8.50	8.70	0.00%
	MIN	7.70	7.60	7.70	8.10	8.10	8.00	7.60	7.40	7.60	8.10	8.10	8.00	8.10	8.20	8.30	8.40	8.00	7.90	7.90	8.00	7.90	
	AVG	8.00	7.70	8.20	8.80	8.60	8.40	7.80	7.70	8.00	8.30	8.30	8.20	8.40	8.60	8.70	8.90	8.30	8.20	8.30	8.30	8.10	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No Data Available
	MIN	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	
RACINE*** MP 237.5	MAX	*	*	*	*	*	*	*	*	*	5.80	5.58	5.74	5.72	5.54	5.93	5.74	5.58	5.43	5.39	5.32	6.40	0.00%
	MIN	*	*	*	*	*	*	*	*	*	5.36	5.30	5.51	5.06	5.06	5.59	5.35	5.31	5.20	5.20	5.12	5.04	
	AVG	*	*	*	*	*	*	*	*	*	5.60	5.43	5.59	5.49	5.34	5.75	5.52	5.43	5.32	5.28	5.18	5.79	
REENUP*** MP 341.0 UPSTREAM DOWNSTREAM	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No Data Available
	MIN	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	
	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No Data Available
	MIN	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	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	7.46	7.24	7.21	7.27	7.34	7.31	7.29	7.29	7.16	6.92	6.73	6.52	6.41	6.48	6.48	6.59	6.73	6.83	6.88	6.91	6.78	0.00%
	DS-Lock	6.78	6.77	6.88	7.07	6.99	7.34	7.23	7.34	7.39	7.44	7.51	6.60	6.87	6.75	6.68	6.56	6.91	6.66	6.53	6.54	6.58	0.00%
	US-Hydro	6.54	6.74	6.78	5.12	7.19	7.28	6.62	6.91	6.85	6.78	6.88	*	*	*	7.21	7.40	7.61	7.58	7.61	7.81	7.77	0.00%
	DS-Hydro	6.81	6.99	7.03	7.05	7.39	7.51	6.73	7.04	7.18	7.23	7.22	7.02	7.04	6.98	6.81	6.69	6.97	6.79	6.68	6.49	6.18	0.00%
cALPINE*** MP 606.8	MAX	6.48	8.08	7.37	6.97	6.88	7.05	6.51	6.41	6.47	6.84	6.95	7.49	7.08	6.89	6.81	6.64	6.40	6.44	6.62	6.67	6.53	0.00%
	MIN	6.19	6.74	6.99	6.63	6.48	6.64	5.40	6.11	6.12	6.46	6.77	6.93	6.78	6.72	6.22	6.31	6.24	6.13	6.07	6.22	6.31	
	AVG	6.34	7.37	7.14	6.75	6.71	6.82	6.25	6.29	6.28	6.65	6.86	7.11	6.96	6.78	6.60	6.43	6.33	6.23	6.31	6.42	6.41	
N T. MYERS** MP 846.0	MAX	7.41	8.63	8.33	8.33	8.58	8.10	7.27	7.14	7.29	7.37	7.31	7.50	9.15	No	No	No	No	No	No	No	No	0.00%
	MIN	6.98	7.53	7.54	7.64	7.40	6.54	6.97	6.86	6.89	7.08	7.03	6.99	6.98	Data	Data	Data	Data	Data	Data	Data	Data	
	AVG	7.17	8.10	8.00	7.96	7.98	7.47	7.12	7.04	7.10	7.19	7.17	7.23	7.67	Available	Available	Available	Available	Available	Available	Available	Available	
MITHLAND** MP 919.0	MAX	7.52	7.83	7.88	7.64	7.68	7.79	8.33	7.93	7.31	7.45	7.39	7.20	8.08	8.27	10.01	9.50	9.31	8.57	9.01	9.08	8.65	0.00%
	MIN	6.82	7.21	7.19	7.03	7.05	7.03	7.47	7.03	6.71	6.78	6.96	6.83	6.62	6.82	7.18	7.51	8.28	8.04	7.30	7.07	7.07	
	AVG	7.10	7.47	7.38	7.29	7.25	7.23	7.93	7.35	6.99	7.11	7.19	7.01	7.15	7.47	8.05	8.27	8.85	8.31	7.82	7.86	7.52	

problem with instrument
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Daily Dissolved Oxygen September 2013																						
LENDAR DAY ULIAN DAY		3-Sep 246	4-Sep 247	5-Sep 248	6-Sep 249	9-Sep 252	10-Sep 253	11-Sep 254	12-Sep 255	13-Sep 256	16-Sep 259	17-Sep 260	18-Sep 261	19-Sep 262	20-Sep 263	23-Sep 266	24-Sep 267	25-Sep 268	26-Sep 269	27-Sep 270	30-Sep 273	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	8.60	8.50	8.60	8.70	8.80	8.60	8.60	8.80	8.70	8.20	9.00	8.40	8.60	9.00	8.60	8.80	9.20	9.40	9.80	9.50	0.00%
	MIN	8.20	8.20	8.20	8.20	8.30	8.00	8.10	8.10	8.10	7.80	7.70	7.90	7.80	8.00	8.20	8.20	8.60	8.60	8.70	8.70	
	AVG	8.40	8.40	8.40	8.40	8.50	8.30	8.40	8.30	8.40	8.00	8.20	8.10	8.20	8.40	8.40	8.50	8.80	9.00	9.00	9.00	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No Data Available
	MIN	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	
RACINE*** 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	5.39	5.34	5.33	0.00%
	MIN	5.19	5.16	5.17	5.14	5.12	5.09	5.07	5.14	5.14	5.29	5.11	5.13	5.34	5.14	4.90	4.89	5.12	5.10	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	5.16	
REENUP*** MP 341.0 UPSTREAM DOWNSTREAM	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No Data Available
	MIN	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	
	MAX	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No Data Available
	MIN	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	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	6.67	6.56	6.48	6.41	6.34	6.36	6.49	6.47	6.26	5.53	5.26	5.16	5.11	<u>4.89</u>	5.88	6.19	5.75	6.02	6.31	6.08	5.00%
	DS-Lock	6.26	6.01	6.09	6.31	5.78	5.59	5.21	5.13	6.02	5.77	5.64	5.21	5.16	5.12	6.47	6.41	5.98	6.24	6.51	5.86	0.00%
	US-Hydro	7.36	7.17	7.03	6.86	6.48	6.35	6.27	6.15	5.95	5.09	5.24	5.02	5.01	5.01	6.06	6.09	5.73	5.99	6.33	6.01	0.00%
	DS-Hydro	5.93	6.04	6.15	6.06	5.63	5.59	5.44	5.43	5.40	5.34	5.48	5.35	5.35	5.31	6.18	6.11	5.70	6.11	6.47	6.29	0.00%
cALPINE*** MP 606.8	MAX	6.73	6.48	7.17	7.20	6.96	6.40	6.01	6.37	6.50	6.43	6.79	6.64	6.96	6.65	6.26	5.99	5.93	6.52	7.05	6.82	0.00%
	MIN	5.92	5.58	6.29	6.62	6.23	5.76	5.22	5.62	5.93	6.13	6.31	6.38	6.40	6.39	4.87	5.17	4.89	5.47	6.31	6.70	
	AVG	6.21	6.13	6.63	6.86	6.46	6.19	5.77	6.02	6.28	6.29	6.48	6.52	6.57	6.53	6.03	5.77	5.74	6.12	6.62	6.76	
N T. MYERS** MP 846.0	MAX	No	No	No	No	No	No	No	No	No	No	No	No	9.22	8.52	8.04	7.77	8.06	7.63	8.28	7.61	0.00%
	MIN	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	8.23	7.53	7.07	7.16	7.50	6.98	6.71	6.92	
	AVG	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	8.83	8.01	7.40	7.49	7.66	7.37	7.29	7.19	
MITHLAND** MP 919.0	MAX	7.18	7.12	7.40	6.54	6.35	7.49	5.95	9.52	7.09	6.05	6.18	6.22	6.45	6.36	7.38	7.33	7.01	7.35	7.75	6.85	0.00%
	MIN	5.92	6.23	5.69	5.33	5.21	5.18	4.89	4.81	5.73	5.10	4.86	5.00	5.10	5.92	6.30	6.60	6.27	6.44	6.65	6.41	
	AVG	6.53	6.67	6.19	5.81	5.73	5.96	5.59	6.92	6.34	5.65	5.49	5.50	5.72	6.15	6.77	7.01	6.64	6.80	7.09	6.67	

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Daily Dissolved Oxygen October 2013																								
LENDAR DAY ULIAN DAY		1-Oct 274	2-Oct 275	3-Oct 276	4-Oct 277	7-Oct 280	8-Oct 281	9-Oct 282	11-Oct 284	14-Oct 287	15-Oct 288	16-Oct 289	17-Oct 290	18-Oct 291	21-Oct 294	22-Oct 295	23-Oct 296	24-Oct 297	25-Oct 298	28-Oct 301	29-Oct 302	30-Oct 303	31-Oct 304	Monthly % Exceedance
ONTGOMERY MP 31.7	MAX	8.80	9.50	9.20	9.20	8.20	8.30	8.30	8.70	8.90	9.00	9.20	9.00	9.10	9.80	10.10	10.30	10.50	10.60	11.10	11.50	11.80	12.00	0.00%
	MIN	8.60	8.50	8.40	8.20	7.70	7.80	7.80	7.90	8.50	8.60	8.60	8.50	8.50	9.60	9.70	10.00	10.20	10.30	10.90	11.00	11.40	11.60	
	AVG	8.90	8.80	8.80	8.60	8.00	8.10	8.10	8.30	8.70	8.80	8.90	8.70	8.80	9.70	9.90	10.10	10.30	10.50	11.00	11.30	11.60	11.80	
ANNIBAL*** MP 126.4 UPSTREAM	MAX	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
	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	
RACINE*** MP 237.5	MAX	5.33	5.30	5.24	5.23	5.22	5.22	5.27	5.25	5.22	5.25	5.11	5.12	5.19	5.32	5.99	5.78	5.66	5.59	5.81	5.77	5.77	5.70	13.60%
	MIN	5.05	5.00	4.94	4.94	4.90	4.90	4.98	4.96	4.93	4.94	4.88	4.83	4.86	4.97	5.01	5.31	5.25	5.25	5.48	5.40	5.41	5.31	
	AVG	5.16	5.14	5.06	5.03	<u>4.99</u>	5.04	5.10	5.08	<u>5.00</u>	5.07	<u>4.99</u>	<u>4.96</u>	5.01	5.13	5.39	5.53	5.43	5.40	5.64	5.57	5.56	5.47	
REENUP*** MP 341.0 UPSTREAM DOWNSTREAM	MAX	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
	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	
	MAX	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
	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	
ARKLAND*** MP 531.5 D.O. #1	US-Lock	5.97	6.00	5.89	5.84	6.59	6.16	5.71	5.63	6.15	6.24	6.09	6.55	6.41	6.86	7.34	7.27	7.59	7.79	8.04	8.10	8.29	8.71	0.00%
	DS-Lock	5.79	5.76	5.57	6.20	6.95	6.47	6.24	5.75	5.64	6.38	6.60	6.01	5.92	7.32	7.59	7.44	7.39	7.37	8.16	8.49	8.30	8.46	0.00%
	US-Hydro	5.84	5.79	5.63	5.96	6.68	6.35	5.95	5.72	6.28	6.66	6.85	6.82	6.70	7.35	7.67	7.74	7.87	7.96	8.22	8.37	8.59	8.51	0.00%
	DS-Hydro	6.18	6.12	6.16	6.21	6.57	6.15	5.77	5.53	6.13	6.26	6.38	6.34	6.31	7.00	7.27	7.35	7.46	7.52	7.92	8.06	8.25	8.31	0.00%
cALPINE*** MP 606.8	MAX	6.79	6.68	7.13	7.22	6.86	6.79	6.57	6.77	6.92	6.33	6.26	6.37	7.13	7.57	7.81	7.98	9.68	8.13	8.72	8.84	8.79	No	0.00%
	MIN	6.49	6.33	6.33	6.51	6.40	6.51	6.43	6.55	6.36	6.19	6.17	6.12	6.33	7.07	7.62	7.69	7.91	7.98	8.58	8.70	8.62	Data	
	AVG	6.60	6.50	6.59	6.75	6.68	6.58	6.52	6.68	6.56	6.26	6.21	6.26	6.43	7.30	7.73	7.85	8.05	8.07	8.65	8.77	8.72	Available	
N T. MYERS** MP 846.0	MAX	7.86	8.15	8.40	8.57	7.60	7.15	6.86	6.68	7.03	7.22	7.47	7.95	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN	7.02	7.09	7.13	7.31	7.17	6.64	6.52	6.12	6.53	6.77	6.84	7.05	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	
	AVG	7.35	7.47	7.66	7.78	7.43	6.78	6.78	6.32	6.83	7.01	7.19	7.42	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	
MITHLAND** MP 919.0	MAX	6.81	6.82	6.84	6.76	7.19	6.98	6.25	5.25	5.80	6.02	6.24	6.53	No	No	No	No	No	No	No	No	No	No	0.00%
	MIN	6.32	6.25	5.97	5.87	6.67	6.20	5.86	5.03	5.46	5.50	5.74	5.95	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	
	AVG	6.59	6.41	6.42	6.32	6.96	6.60	6.12	5.16	5.62	5.87	6.02	6.18	Available	Available	Available	Available	Available	Available	Available	Available	Available	Available	

problem with instrument
ates ORSANCO data
ates hydroelectric dam
/isional except for Markland

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		
2009	May	Montgomery	31.7	USACE	60.71			61.93	61.45	58.39	56.71	57.38		10.99	58.59	59.27	59.49	59.68	60.46			63.03	62.96	63.27	64.40	66.09				70.27	69.49	69.78	70.90				
2009	Jun	Montgomery	31.7	USACE	70.74	70.00	70.93	70.00	69.46			69.33	69.80	70.99	70.57	70.59		71.11	72.09	72.36	71.96					72.25	73.33	74.43	73.67	74.44				75.20			
2009	Jul	Montgomery	31.7	USACE	75.34	75.47				75.42	75.76	75.92	76.44	76.84			76.91	77.09	76.84	77.09	77.63				76.41	76.24	76.06	74.80				76.42		76.66	76.26	75.52	
2009	Aug	Montgomery	31.7	USACE			76.06	76.08	75.20	75.92	76.24			76.48	76.75	77.22	77.23	77.04		78.48	77.90	77.41	77.56	78.39				77.85	78.08	77.56	77.81	78.10					
2009	Sep	Montgomery	31.7	USACE	75.06	74.79	75.18	75.02				74.01	73.98	74.28	73.96			73.96	73.45	74.52	73.49	73.09			72.97	73.36	73.13	73.26	73.22			71.91	70.63	68.68			
2009	Oct	Montgomery	31.7	USACE	67.71	66.74			64.20	63.99	63.63	62.69	62.26			60.55	59.34	59.47	58.32	57.18			54.46	53.82		54.01	54.12				53.28	55.62	54.63	54.09	54.55		
2010	May	Montgomery	31.7	USACE			60.75	61.52	64.13																												
2011	Jul	Montgomery	31.7	USACE																					83.12		84.74			86.00	85.82	86.18	86.00				
2011	Aug	Montgomery	31.7	USACE	84.74	84.92	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			78.98	78.98	78.98	78.44	78.80				79.16	78.26		
2011	Sep	Montgomery	31.7	USACE	78.26	78.08				78.80	78.08	77.00	73.58			72.68	72.68	72.68	72.86	72.14				68.36	67.82	67.46	67.82	68.54			69.62		69.44	68.90	68.54		
2011	Oct	Montgomery	31.7	USACE			65.84	63.50	62.42	61.16	61.34			61.34	61.34	61.52	61.70			60.80	59.90	59.90	59.90				55.94	55.58	55.22	55.04	55.04				53.60		
2012	Jun	Montgomery	31.7	USACE	77.18			73.76	73.76	72.86	72.68	73.04			74.48	74.66	75.38	76.10	76.10			77.00	77.00	77.36	78.80	79.34			80.96	81.32	80.42	80.06	79.34				
2012	Jul	Montgomery	31.7	USACE			83.84		82.40	83.48			86.18	86.36	85.46	84.20	84.20			82.94	84.56			83.12	82.94			82.04	81.86	82.40	82.58			81.50	81.14		
2012	Aug	Montgomery	31.7	USACE		82.76	81.68				80.60	83.30	82.58	82.94						80.78	80.24				79.52	79.52	78.44			78.80		79.34	78.62	79.88			
2012	Sep	Montgomery	31.7	USACE				79.52	79.34	80.60	80.06				79.52	78.44	77.72	76.64	77.36			76.10	75.20	74.66	73.58	73.22			71.06	70.70	69.80	69.26	68.90				
2012	Oct	Montgomery	31.7	USACE	67.28	67.10	66.74	66.92	67.28			66.38	65.48	64.58	63.86	62.78			60.98	60.80	60.44	60.98	60.26			59.00	59.54	59.18	60.08	60.44			60.44	59.72	53.60		
2013	May	Montgomery	31.7	USACE	59.36	60.40	61.16			62.60	62.60	64.40	64.94			66.20			63.32	60.98	60.80	61.52	62.78			66.56	68.36	69.26	69.44			66.20	67.46	69.26	69.98		
2013	Jun	Montgomery	31.7	USACE						73.40	71.78				70.88	70.52	70.70	70.88	70.34			71.60	71.60	71.96	71.96	72.86			75.20	75.92	77.00	77.18	77.54				
2013	Jul	Montgomery	31.7	USACE		71.96	71.78		72.50			76.28			75.74	76.46	76.28			75.56	77.36	78.80	78.62	80.42			80.96	80.42	80.06	79.34	78.44			77.18	77.00		
2013	Aug	Montgomery	31.7	USACE	76.28				76.46	76.10	76.64	76.10	76.28			77.54	76.82	77.90	76.28	75.38							74.30	74.84	74.84	76.10	75.74		76.64	76.82	76.64	76.10	77.18
2013	Sep	Montgomery	31.7	USACE			73.58	73.76	73.94	74.84			74.12	74.12	74.66	75.20	74.84			73.58	73.04	72.14	71.60	71.24			70.88	69.98	68.90	68.90	69.26			68.18			
2013	Oct	Montgomery	31.7	USACE	68.54	68.36	68.54	68.72			70.34	69.98	69.44		68.36			67.28	65.30	67.10	66.74	66.38				63.32	62.06	61.34	60.62	59.36			55.58	54.68	54.14	53.78	
2012	Sep	New Cumberland	54.4	ORSANCO																											69.26	69.19	68.81	69.03	68.16		
2012	Oct	New Cumberland	54.4	ORSANCO	67.84	67.73	67.08	67.26	68.16	67.35	66.61	65.77	64.74	64.15	63.23	62.44	62.11	62.26	62.26	61.93	61.38	60.98	60.66	60.31	60.33	59.47	59.79	59.79	59.90	60.53	60.17	59.18	58.35	57.65	54.28		
2012	Nov	New Cumberland	54.4	ORSANCO	51.30	50.81	49.06	48.40	48.13	47.34	46.98	46.51	46.04	46.00	46.17	46.44	46.45	46.22	46.31	46.09	45.81	46.54	48.40	48.07	50.79	50.22	51.04	51.60	50.67	51.04	50.23	50.40	49.41	48.90			
2012	Dec	New Cumberland	54.4	ORSANCO	51.96	50.97	52.11	52.21	48.49	47.91	49.14	48.54	47.05	48.78	48.49	47.25	46.26	45.32	45.45	45.90	47.17	45.54	46.04	46.02	45.88	43.99	43.36	42.82	42.24	42.12	41.14	41.11	40.86	40.82	40.60		
2013	Jan	New Cumberland	54.4	ORSANCO	40.23	40.05	39.63	38.93	38.39	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	39.97	37.47	37.69	38.21	38.43	37.71	38.03		
2013	Feb	New Cumberland	54.4	ORSANCO	37.44	36.18	35.04	36.64	37.17	37.89	37.78	38.34	38.86	39.36	40.05	40.15	40.75	40.51	40.51	40.06	41.02	41.07	43.54	41.38	40.10	39.97	39.92	39.79	39.99	43.47	40.28	40.95					
2013	Mar	New Cumberland	54.4	ORSANCO	40.73	40.71	40.14	40.66	41.72	41.40	41.16	42.33	43.34	44.20	46.74	45.39	44.92	44.35	43.68	44.11	43.56	43.11	42.89	42.42	42.40	42.15	42.64	43.05	42.42	42.67	44.28	45.36	47.01	48.20	49.05		
2013	Apr	New Cumberland	54.4	ORSANCO	49.14	46.98	46.90	46.98	50.36	47.05	51.17	51.96	53.04	56.75	55.18	56.66	55.53	54.52	54.90	54.86	55.24	56.91	58.28	58.98	58.69	58.23	61.27	63.36	62.58	64.31	64.00	65.01	64.58	65.68			
2013	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	72.12	70.34	70.34	70.56	71.87	72.48	74.91	76.59	76.51	75.40	75.67	76.19	75.97	76.55	77.09	78.91	77.34		
2013	Jun	New Cumberland	54.4	ORSANCO	78.62	81.21	81.34	80.19	81.50	78.26	79.97	77.81	78.62	78.73	79.77	77.95	77.09	74.88	74.32	76.55	81.01	79.92	80.69	80.76	81.19	81.66	82.80	83.37	84.47	84.76	85.41	82.67	79.38	79.52			
2013	Jul	New Cumberland	54.4	ORSANCO	77.79	75.18	75.81	76.15	77.16	78.48	81.05	81.27	81.70	82.78	77.70	76.30	78.03	80.94	82.94	85.41	85.87	86.58	89.11	88.68	89.26	88.95	88.63	86.07	87.30	86.88	83.34	83.55	83.91	84.16	84.34		
2013	Aug	New Cumberland	54.4	ORSANCO	84.99	82.45	81.48	80.98	84.47	85.33	86.45	85.78	83.62	80.56	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	86.02	85.33	86.16	81.23	81.23	80.28		
2013	Sep	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																						
2012	Sep	Pike Island	84.2	ORSANCO																											70.66	70.72	70.63	69.51	68.59		
2012	Oct	Pike Island	84.2	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	62.62	62.37	63.23	63.50	61.70	60.66	59.72	58.42	56.62		
2012	Nov	Pike Island	84.2	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	46.13	47.05	46.51	46.60	46.38			
2012	Dec	Pike Island	84.2	ORSANCO	45.46	46.09	46.49	47.95	47.14	45.43	44.65	44.45	44.94	44.73	45.72	45.45	44.46	43.54	42.93	43.14	43.36	43.29	42.75	43.38	43.21	42.33	41.54	40.59	39.96	39.49	38.70	37.83	37.38	37.13	36.97		
2013	Jan	Pike Island	84.2	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	38.73	39.25	39.34	38.98	39.18	39.31	38.97	37.83	36.46	35.42	34.79	34.39	33.76	33.78	34.70	35.64	36.39		
2013	Feb	Pike Island	84.2	ORSANCO	36.64	35.65																															

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		
2012	Sep	Hannibal	126.4	ORSANCO				82.20	82.31	82.78	82.78				81.50	80.56	80.56	80.10	79.86			77.86	77.16	79.39	76.59	75.76				73.89	73.42	72.61	72.01	71.67	70.52	69.78	
2012	Sep	Hannibal	126.4	Hydro																																	
2012	Oct	Hannibal	126.4	ORSANCO	69.55	70.57	69.39	69.01	68.95	68.61	68.27	67.64	66.83	66.47	65.71	64.72	64.47	63.55	63.50	63.25	62.89	62.49	62.20	61.92	61.79	61.61	61.48	62.49	63.18	62.83	62.74	62.20	61.16	60.03	55.99		
2012	Oct	Hannibal	126.4	Hydro	68.86	68.74	68.97	68.50	68.27			67.10	66.06	65.82	65.23	64.18				62.55	62.19	61.84	61.61	61.02		60.44	60.21	60.21	61.25	61.48		60.44	59.50	51.08			
2012	Nov	Hannibal	126.4	ORSANCO	53.98	51.67	50.85	49.98	48.83	48.61	48.24	47.73	47.12	47.07	47.70	47.93	47.93	47.55	46.83	46.44	46.60	46.69	46.65	46.92	47.05	46.98	46.60	46.24	45.95	45.61	45.55	45.48	45.18	45.70			
2012	Dec	Hannibal	126.4	ORSANCO	45.61	46.13	46.72	46.35	47.25	46.76	47.32	46.22	45.63	46.15	46.02	45.77	45.48	44.56	43.74	43.83	44.15	44.38	44.20	43.30	43.54	43.00	42.28	41.50	40.82	40.37	39.87	39.15	38.59	37.92	37.54		
2013	Jan	Hannibal	126.4	ORSANCO	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	38.93	37.51	36.45	35.85	35.31	35.10	35.31	35.42	36.37	37.92		
2013	Feb	Hannibal	126.4	ORSANCO	36.66	36.46	35.47	34.21	34.72	35.22	35.26	35.37	35.60	35.78	36.64	37.40	37.72	37.33	37.92	38.16	37.99	37.49	37.58	37.47	37.26	37.44	37.58	37.38	37.49	37.42	37.85	37.96					
2013	Mar	Hannibal	126.4	ORSANCO	37.89	37.71	37.85	38.23	38.01	38.03	38.30	38.77	39.33	39.88	40.69	41.16	41.38	41.47	42.10	42.31	41.99	42.04	42.04	41.52	40.41	40.19	40.60	40.48	40.41	40.71	40.64	40.68	41.47	42.55	42.71		
2013	Apr	Hannibal	126.4	ORSANCO	43.52	44.42	44.74	44.78	45.09	45.72	46.53	47.86	48.99	50.68	51.76	51.84	54.21	53.87	53.91	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			
2013	May	Hannibal	126.4	ORSANCO	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	64.85	65.93	66.33	67.15	67.44	68.27	68.32	68.79	70.29	69.76	69.53	69.55	70.77	69.21	69.13	70.57	72.28	72.16		
2013	May	Hannibal	126.4	Hydro		58.44	59.27				61.72	51.75	63.25	64.18			65.35	63.59	63.59	64.29	64.65			65.70	66.63	67.46	68.27	68.74				67.93	68.27	69.33	70.14		
2013	Jun	Hannibal	126.4	ORSANCO	73.35	74.14	74.17	74.07	74.34	73.06	73.63	73.92	74.70	74.46	74.41	74.98	74.89	73.78	73.27	72.54	72.19	72.90	75.18	77.05	77.74	76.17	76.87	77.58	78.75	78.96	78.96	78.80	77.85	77.99			
2013	Jun	Hannibal	126.4	Hydro			73.42	73.18	72.61	72.25	72.25				74.01	73.89	73.78	74.01	73.42				71.44	71.31	72.37	73.65	74.01			75.88	76.82						
2013	Jul	Hannibal	126.4	ORSANCO	77.90	77.54	76.35	74.75	75.38	75.96	76.01	76.69	76.33	76.12	76.50	76.28	75.83	76.24	78.58	80.11	79.48	80.28	80.76	79.75	80.44	79.77	80.82	81.39	82.15	81.19	80.44	79.99	79.39	81.25	79.32		
2013	Aug	Hannibal	126.4	ORSANCO	80.53	79.34	78.89	79.54	80.76	80.37	79.41	79.68	80.29	80.22	80.82	80.64	79.47	78.87	78.71	79.74	78.94	78.10	78.03	79.63	79.93	78.78	79.11	79.45	79.74	79.70	79.56	79.61	80.22	80.35	79.18		
2013	Sep	Hannibal	126.4	ORSANCO	79.41	79.39	78.64	78.40	77.45																												
2009	May	Racine	237.5	Hydro				65.61	64.84	70.60	71.93	69.91			71.32	70.14	64.05	64.33	64.72				66.31	67.14	67.32	67.81	67.89					72.09	72.82	73.21	73.90		
2009	Jun	Racine	237.5	Hydro	74.41	74.11	75.02	74.43	73.68			72.82	72.84	73.90	73.88	74.60			76.31	76.82	77.16	77.16	77.71			78.18	78.10	78.49	79.81	79.38				80.36			
2009	Jul	Racine	237.5	Hydro	80.48	80.07				78.69	78.89	78.69	78.89	79.28			79.97	79.99							80.67	80.69	80.69	80.52				80.48	80.58	80.38	80.79		
2009	Aug	Racine	237.5	Hydro			79.99	79.67	79.81	79.28	80.05			80.87	81.30	81.97	81.38	81.77					84.17	83.29	83.27	84.11			80.97	81.79	82.66	82.68	82.89			82.48	
2009	Sep	Racine	237.5	Hydro	81.68	81.28	80.97	80.89				80.05	79.77	79.50	79.48			77.98	78.10	78.18	77.88	77.57				77.49	77.10	76.98	76.98	77.10			75.90	75.31	73.88		
2009	Oct	Racine	237.5	Hydro	72.42	72.01			70.01	69.42	69.12	68.63	68.20			67.89	67.12	66.84	66.22	65.33				62.62	61.93		61.44	61.03			60.85	60.73	60.22	59.97	59.75		
2010	May	Racine	237.5	Hydro			65.41	65.21	64.62	65.59				66.71	67.04	66.61		68.00					68.32	67.53	68.93	71.32			65.39	66.80	67.79	69.32	70.50				
2010	Jun	Racine	237.5	Hydro	74.86	75.68		76.98			78.38	77.30	75.63		73.88			75.21	75.90	76.59	76.98				79.67	79.59	79.87	80.87				82.87	83.19	83.21			
2010	Jul	Racine	237.5	Hydro	82.99	82.40			82.46	82.93	83.50					84.49	84.49	84.21	84.29	84.29				84.35	83.82	84.21	83.52	83.80				85.17	85.00	85.29	85.59		
2010	Aug	Racine	237.5	Hydro		85.21	85.72	86.00	85.88				81.85	84.78	85.21	85.72	85.66			86.19	86.37			86.19	85.70			85.00		84.41	84.19	83.80			83.19	83.29	
2010	Sep	Racine	237.5	Hydro	83.35	83.50	83.50			81.28	81.20	80.97	80.38			78.89	78.40	78.34	77.88	77.59				76.37	76.29	76.49	77.08				76.49	75.57	75.00				
2010	Oct	Racine	237.5	Hydro	73.88			72.38	71.19	70.71	69.61	69.63			69.30	69.42	69.71	69.69	69.50				68.32	67.89	67.63	67.20	66.57			66.51	66.31	66.71	66.41	66.10			
2011	May	Racine	237.5	Hydro				9.05	59.61				58.69	68.49								65.00	64.53	64.49	64.41			63.50	64.62	65.12	66.33	67.53				71.30	
2011	Jun	Racine	237.5	Hydro	72.40	73.11	73.52			75.17	76.20	76.18	76.90	77.10			78.18	78.10	77.79	77.37	77.26				77.59	77.49	77.88	78.28	78.30		77.18	76.67	77.10	77.47			
2011	Jul	Racine	237.5	Hydro	77.79				78.28	79.30	79.59	80.56			81.68	81.79		83.19	83.15					83.21	83.58	83.80	84.56			85.59	86.02	87.06	87.39	87.39			
2011	Aug	Racine	237.5	Hydro	87.39	87.29	86.96	86.90	86.49			86.37	86.61	86.27	85.80	85.49		84.88	84.27	83.70	83.35	83.58			83.50	83.07	82.64	82.46			82.38			82.07	81.17		
2011	Sep	Racine	237.5	Hydro	80.07	80.28			80.81	79.59	78.69	78.28				76.82	76.88	77.10	77.39	77.28				74.11	73.80	73.11	72.52	72.64			72.99		72.40	72.19	71.62		
2011	Oct	Racine	237.5	Hydro			68.32	67.63	66.20	65.51	65.29			65.61			65.72	65.61					62.90	63.52	63.21	63.11	62.29			61.01	61.03	60.83	60.73	60.83		59.63	
2012	May	Racine	237.5	Hydro				9.05	59.61				58.69	68.49			61.52	63.01					65.00	64.53	64.49	64.41			63.50	64.62					71.30		
2012	Jun	Racine	237.5	Hydro	76.49			75.96	75.98	75.61	74.98	74.72				76.59	76.88	77.26	77.69	77.77				78.30	78.67	79.48	79.95	79.97			81.36	81.40	81.50	81.17	82.03		
2012	Jul	Racine	237.5	Hydro					83.60	83.88			84.70	84.72	84.88	84.98	84.78					84.19	84.19			84.37	84.58			83.80	83.99	83.88	84.17	84.68		84.19	84.27
2012	Aug	Racine	237.5	Hydro		84.45	84.70				84.78	84.86	84.82	85.21			83.48	83.29	82.89	82.89						81.26	81.07	80.65	80.67			81.68	82.07	82.07			
2012	Sep	Racine	237.5	Hydro				82.15	82.30	82.38	82.60				81.15	80.60	79.97	79.63	79.87				78.69	78.57	78.30	76.98	75.72			74.49	74.09	73.41	73.60	73.39			
2012	Oct	Racine	237.5	Hydro																																	

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	
2012	May	Greenup	341	Hydro		60.40	61.00	61.00	59.80	59.50			59.50	59.60		60.70	62.60			64.30	64.40	64.40	63.40	63.60			63.70	64.40							69.80	
2012	Jun	Greenup	341	Hydro	75.50			75.50	74.50	73.90	74.00	74.30			75.70	76.90	77.80	77.60	77.80			78.20	79.30	80.30	81.40	81.20			82.60	81.20	82.60	82.40				
2012	Jul	Greenup	341	Hydro			83.50		83.80				85.30	85.10						84.60	85.10						84.00		82.60	81.20	84.50			82.90	84.20	
2012	Aug	Greenup	341	Hydro		84.00	84.80			84.00	84.60	84.40	84.20	84.10			82.90	82.30	82.40	82.30				82.00	81.50	80.80	81.50				82.40	81.70	81.50			
2012	Sep	Greenup	341	Hydro				82.20	82.70	82.70	83.20			81.80	81.50	81.60	81.80	81.10				79.30	78.50	78.50	77.50	76.90		75.00	74.00	74.00	73.40	73.60				
2012	Oct	Greenup	341	Hydro	72.10	72.40	73.40	73.30	72.70			72.50	70.00	69.40	68.90	68.80				67.60	67.70	68.30	67.90	67.30			66.60	66.70	66.40	66.70	67.10		65.30	64.80	57.20	
2013	May	Greenup	341	Hydro																										64.80	66.80	65.60				
2013	Jun	Greenup	341	Hydro							71.20			71.40	75.60		76.30																			
2011	May	Greenup D/S	341.1	Hydro				63.60	61.20	59.60			59.90	60.00		61.30	63.50			64.10	63.80	63.80	63.40	62.90			62.90	64.00	64.40	65.80	66.20				70.30	
2011	Jun	Greenup D/S	341.1	Hydro	71.60	72.60	73.10			74.80	75.70	75.80	77.00	77.90			78.20	79.90	79.90	78.80	79.20			79.20	78.40		79.00	79.00			78.20	78.20	78.20	79.30		
2011	Jul	Greenup D/S	341.1	Hydro		79.70			80.40	80.90	81.70	82.80			82.80	83.80	83.80	83.20	83.90				83.30	83.30	85.10				85.70	86.60	86.30	86.30	88.10			
2011	Aug	Greenup D/S	341.1	Hydro	86.80	86.80	86.80	85.80	86.00			87.20		87.10	86.90	86.90				84.60	84.60	84.40	84.40			84.60	84.20	84.20	83.60	83.80					82.20	
2011	Sep	Greenup D/S	341.1	Hydro	82.20	82.60					82.10	82.10	79.20	76.90		76.80	76.90	76.90	77.20	76.70			74.60	74.30	77.80	77.80	77.80			77.80		73.40	72.70	72.80		
2011	Oct	Greenup D/S	341.1	Hydro			69.00	68.20	68.20	67.40	67.00			67.00	66.00	66.00	65.30	65.30				65.30	63.20	63.20	62.90	61.30			58.20	58.10		57.70			56.40	
2012	May	Greenup D/S	341.1	Hydro				63.60	61.20	59.60			59.90	60.00		61.30	63.50			64.10	63.80	63.80	63.40	62.90			62.90	64.00							70.30	
2012	Jun	Greenup D/S	341.1	Hydro	77.00			77.00	75.00	74.40	74.30	75.40			76.90	77.50	78.20	78.20				78.40	79.60	80.90	81.00	82.60				83.20	82.30	82.20	82.80			
2012	Jul	Greenup D/S	341.1	Hydro			84.60		84.80				85.60	85.40	86.00	85.70	85.60			84.60	85.20			85.30	84.50		85.10	84.20	83.50	84.60	84.80			83.80	85.10	
2012	Aug	Greenup D/S	341.1	Hydro		85.70	85.70			85.00	85.00	85.30	85.20	84.80				83.40	82.90	82.70	82.30				82.10	81.60	80.80	80.60				82.00	81.80	82.30		
2012	Sep	Greenup D/S	341.1	Hydro				82.60	83.30	83.30	83.60			82.20	81.50	81.00	80.30				79.10	78.70	78.20	78.10	76.60				74.60	74.50	73.40	73.20				
2012	Oct	Greenup D/S	341.1	Hydro	71.50	71.60	72.10	72.40	72.40				69.10	68.40	67.60	67.30			65.80	65.50	65.90	65.00	64.80				64.00	64.20	64.30	64.40	64.40		63.50	62.60	56.40	
2013	May	Greenup D/S	341.1	Hydro																										64.40	65.80	66.20				
2013	Jun	Greenup D/S	341.1	Hydro							74.40			74.60	75.00	75.50	75.60	76.00																		
2011	Sep	Meldahl	436.2	USACE												55.58																				
2011	Oct	Meldahl	436.2	USACE				55.58																												
2012	May	Meldahl	436.2	USACE		55.58		58.82	55.58	55.76			57.92	55.58																						
2012	Jul	Renslar	462.6	ORSANCO			87.89	87.66	87.82	89.49	88.57	89.49	88.70	89.06	87.51	87.15	86.77	85.95	86.70	87.51	88.56	87.73	86.25	85.68	85.10	86.88	87.44	86.22	86.25	87.51	86.95	86.04	86.23	86.04	86.45	
2012	Aug	Renslar	462.6	ORSANCO	88.14	87.58	85.78	85.66	85.96	86.95	85.73	87.60	87.31	85.53	84.11	85.06	84.02	84.18	86.25	85.66	86.29	86.11	84.43	83.97	84.60	86.41	85.39	85.21	86.11	85.39	85.50	87.53	86.94	85.51	85.03	
2012	Sep	Renslar	462.6	ORSANCO	85.23	84.79	83.93	84.92	84.49	85.35	84.96	84.15	82.72	82.45	82.58	83.01	83.21	83.07	82.42	80.96	79.18	78.37	78.30	78.01	77.18	77.65	75.60	75.15	73.58	73.47						
2011	May	Markland US-Hydro	531.4	Hydro				57.20	56.12	56.84			58.64	58.82		60.44	61.52			62.96	62.24	61.88	61.52	62.06			64.04	64.40	64.58	65.48	65.84				69.08	
2011	Jun	Markland US-Hydro	531.4	Hydro	70.52	71.60	71.96			74.12	74.84	75.38			77.18	77.36	77.72			77.00	77.00				76.82	76.64	76.28	76.10	75.38			75.20	75.92	76.46	75.56	
2011	Jul	Markland US-Hydro	531.4	Hydro	77.18				79.52	80.24	80.60	81.86			83.12	84.38	84.02	84.02	83.84				84.56	84.92	85.28	84.56				85.28	85.64	85.46	86.72	86.54		
2011	Aug	Markland US-Hydro	531.4	Hydro	87.26	87.62	87.80	87.44	87.44			87.08	87.08	86.72	86.18	85.82			84.38	84.20	84.02	84.20	83.84			83.66	83.66	83.48	83.66	83.84			83.30	82.94		
2011	Sep	Markland US-Hydro	531.4	Hydro	82.76	82.94				81.68	79.70	78.62	77.72			76.46	76.64	76.28	75.74	74.84				73.94	73.58	73.22	73.04	73.22				72.50	70.52	69.98	69.80	
2011	Oct	Markland US-Hydro	531.4	Hydro			68.18	67.28	66.56	67.64	67.82			67.64	67.64	68.00	67.82	67.64			64.76	64.76	63.86	62.60	61.52			59.00	58.64	58.46	58.28	58.10			55.94	
2012	May	Markland US-Hydro	531.4	Hydro				57.20	56.12	56.84			58.64	58.82		60.44	61.52			62.96	62.24	61.88	61.52	62.06			64.04	64.40						69.08		
2012	Jun	Markland US-Hydro	531.4	Hydro	75.38			74.48	73.94	73.94	74.12	74.84			76.46	76.64	76.46	77.00				78.62	79.16	80.06	80.60	80.78				82.04	81.68	81.50	82.04			
2012	Jul	Markland US-Hydro	531.4	Hydro			83.30		84.20	84.74			86.18	86.00	86.54	86.18	85.82			85.82	86.18			86.18	86.00			85.28	85.46	85.46	85.10	85.10			85.10	84.38
2012	Aug	Markland US-Hydro	531.4	Hydro		84.20	84.56			84.38	84.56	84.74	84.74	84.20		82.94	82.40	82.58	82.40				81.50	80.96	80.60	80.78	80.78				81.32	81.32	81.68			
2012	Sep	Markland US-Hydro	531.4	Hydro				81.50	81.68	81.68	81.68			80.96	80.42	79.88	79.70	79.70			78.62	78.26	76.82	76.64	75.38			72.86	72.32	71.78	72.14	71.78				
2012	Oct	Markland US-Hydro	531.4	Hydro	72.32	69.80	69.80	69.98	69.98			69.26	68.54	68.00	67.10	66.20			65.12	64.76	64.76	64.76	64.22			63.50	63.86	63.68	63.68	64.22			61.88	60.62	55.94	
2013	May	Markland US-Hydro	531.4	Hydro	59.94	60.80	61.88			62.42	62.42	60.60	60.62	62.78			63.14	63.86	63.94	63.48	64.04			67.00	67.98	68.74	69.44	69.26	64.58	65.48	65.84	69.80	69.78	71.42	72.50	
2013	Jun	Markland US-Hydro	531.4	Hydro			73.76	73.76	73.94	74.30	74.48			75.20	75.02	76.10	76.28	75.74			76.28	75.92	75.56	75.74	75.92			76.46	77.00	78.08	77.90	78.44				
2013	Jul	Markland US-Hydro	531.4	Hydro	78.44	78.44	77.90		78.44			75.20	77.00	78.44	78.62	78.08			77.54	77.90	78.08	78.62	79.88			81.68	81.50	82.04	81.32	80.60			78.62	78.62		
2013	Aug	Markland US-Hydro	531.4	Hydro	78.44				78.44	78.62	79.16	79.34	79.52			79.88	80.06	80.24			79.52	78.80			79.16	79.70				80.24	80.42	80.60	80.96			
2013	Sep	Markland US-Hydro	531.4	Hydro			80.42	80.24	80.06	79.88			79.																							

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	Jul	Markland US-Lock	531.5	Hydro	78.44				80.78	80.78	82.58	82.94			84.38	85.64	85.64	85.64	84.92				84.56	84.56		85.46			85.28	85.64	85.46	86.72	86.72						
2011	Aug	Markland DS-Hydro	531.5	Hydro	87.26	87.62	87.80	87.44	87.44			87.08	87.08	86.72	86.18	85.64			84.38	84.20	84.02	84.20	83.84			83.66	83.66	83.30	83.66	83.84				83.30	82.94				
2011	Aug	Markland DS-Lock	531.5	Hydro	87.26	87.44	87.62	87.44	87.44				87.08	87.08	86.72	86.18	85.64			84.38	84.02	84.56	84.20	84.02			83.66	83.66	83.30	83.48	83.84				83.30	82.94			
2011	Aug	Markland US-Lock	531.5	Hydro	87.26	87.62	87.80	87.44	87.44				87.08	87.08	86.72	86.18	85.82			84.38	84.02	84.02	84.20	84.02			83.66	83.66	83.48	83.48	83.84				83.30	83.12			
2011	Sep	Markland DS-Hydro	531.5	Hydro	82.76	82.94				81.68	79.88	78.80	77.72			76.28	76.64	76.28	75.74	74.66				73.94	73.58	73.22	73.04	73.22			72.68		70.70	69.44	69.80				
2011	Sep	Markland DS-Lock	531.5	Hydro	82.76	82.76				81.68	79.88	78.80	77.72			76.46	76.64	76.28	75.74	74.66				73.94	73.58	73.40	73.04	73.22			72.68		70.70	69.26	69.80				
2011	Sep	Markland US-Lock	531.5	Hydro	0.00	0.00				0.00	0.00	78.80	77.72			76.46	76.64	76.28	75.74	74.84				73.94	73.58	73.22	73.04	73.22			72.50		70.52	69.44	69.98				
2011	Oct	Markland DS-Hydro	531.5	Hydro			68.18	67.64	66.56	67.64	67.82				67.64	67.64	68.00	67.82	67.64			64.76	64.94	64.04	62.78	61.52			32.00	58.64	58.46	58.28	58.10			55.94			
2011	Oct	Markland DS-Lock	531.5	Hydro			68.18	67.46	66.38	67.64	67.82				67.64	67.64	68.00	67.82	67.64			64.76	64.76	63.86	62.60	61.52			59.00	58.64	58.46	58.28	58.10			55.94			
2011	Oct	Markland US-Lock	531.5	Hydro			68.18	67.28	66.56	67.64	67.82				67.64	67.64	68.00	67.82	67.64			64.76	64.76	64.04	62.60	61.52			59.00	58.64	58.46	58.28	57.92			55.94			
2012	May	Markland DS-Hydro	531.5	Hydro		0.00	0.00	57.20	56.12	56.84					58.64	58.82			60.44	61.52			62.96	62.24	61.70	61.52	62.06		64.22	64.58						69.08			
2012	May	Markland DS-Lock	531.5	Hydro				57.20	56.12	56.84					58.64	58.82			60.44	61.52			62.96	62.24	61.88	61.70	62.24		64.04	64.40						69.08			
2012	May	Markland US-Lock	531.5	Hydro				61.16	58.82	58.64					59.90	60.08			61.88	62.78			64.94	63.32	62.96	62.78	63.32		65.12	65.48						70.16			
2012	Jun	Markland DS-Hydro	531.5	Hydro	75.38			74.48	73.76	73.76	74.12	74.66				76.46	76.46	76.64	77.18				78.62	78.98	79.88	80.60	80.60			82.04	81.86	82.40	81.68	82.04					
2012	Jun	Markland DS-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				78.80	78.98	80.24	80.06	80.24			81.68	81.68	82.40	81.32	81.86				
2012	Jun	Markland US-Lock	531.5	Hydro	75.38			74.48	73.94	73.94	74.12	74.66				76.28	76.46	76.46	76.82	77.18				78.44	78.98	79.88	80.24	80.60			81.86	81.86	82.04	81.50	82.04				
2012	Jul	Markland DS-Hydro	531.5	Hydro				83.30		84.56	84.74				86.54	86.00	86.00	86.00	84.56				85.82	86.18					85.28	85.28	85.28	85.10				85.28	84.20		
2012	Jul	Markland DS-Lock	531.5	Hydro				82.94		83.84	84.20				86.00	85.82	86.18	86.00	85.64				85.64	86.00					85.28	85.28	85.28	84.92	84.92			85.10	84.20		
2012	Jul	Markland US-Lock	531.5	Hydro				83.12		83.84	84.56				86.00	86.00	86.00	86.00	85.82				85.82	86.00					86.18	86.00						85.28	84.38		
2012	Aug	Markland DS-Hydro	531.5	Hydro		84.20	84.56			84.38	84.38	84.56	84.74	84.20					82.94	82.40				82.58	82.40			82.04	80.96	80.60	80.78	80.78				81.50	81.32	81.68	
2012	Aug	Markland DS-Lock	531.5	Hydro		84.02	84.38			84.20	84.38	84.74	84.74	84.20					82.94	82.40				82.40	82.40			81.32	80.78	80.60	80.60	80.78				81.32	81.14	81.50	
2012	Aug	Markland US-Lock	531.5	Hydro		84.20	84.38			84.38	84.56	84.56	84.74	84.38					82.94	82.40				82.58	82.40			32.00	80.96	80.60	80.78	80.78				81.32	81.14	81.50	
2012	Sep	Markland DS-Hydro	531.5	Hydro				81.50	81.86	81.86	81.68					80.96	80.42	79.88	79.70	79.52				78.62	78.26	76.82	76.64	76.64			73.94	73.40	73.04	73.22	73.04				
2012	Sep	Markland DS-Lock	531.5	Hydro				81.50	81.68	81.86	81.68					80.96	80.42	79.88	79.70	79.52				78.44	78.08	76.82	76.64	76.64			73.94	73.40	73.04	73.22	73.04				
2012	Sep	Markland US-Lock	531.5	Hydro				81.50	81.68	81.86	81.68					81.14	80.42	79.88	79.70	79.70				78.62	78.26	77.00	76.64	76.82			73.94	73.58	73.04	73.40	73.04				
2012	Oct	Markland DS-Hydro	531.5	Hydro	71.60	71.06	71.06	71.24	71.24						69.26	68.36	68.00	67.10	66.20				65.12	64.58	64.76	64.58	64.22			63.50	63.86	63.68	63.50	64.04			61.88	60.44	55.94
2012	Oct	Markland DS-Lock	531.5	Hydro	71.78	71.06	71.06	71.24	71.24						69.26	68.54	68.00	66.92	66.20				65.12	64.58	64.76	64.58	64.22			63.50	63.86	63.68	63.32	64.04			61.88	60.44	55.94
2012	Oct	Markland US-Lock	531.5	Hydro	71.78	71.06	71.24	71.24	71.24						69.26	68.54	68.00	67.10	66.20				65.12	64.76	64.76	64.58	64.22			63.68	63.86	63.68	63.68	64.22			62.06	60.62	55.94
2013	May	Markland DS-Hydro	531.5	Hydro	59.94	60.80	61.95				62.42	62.42	60.60	60.62	62.66				63.04	63.86	63.94	63.68	64.04			67.00	68.18	68.54	69.44	69.26	64.76	65.48	65.84	65.84	69.80	69.89	71.42	72.32	
2013	May	Markland DS-Lock	531.5	Hydro	59.64	60.90	61.92				62.42	62.42	60.80	60.62	62.78				63.14	63.96	64.04	63.68	64.58			67.28	67.82	68.34	69.44	69.26	64.58	65.48	65.84	65.84	69.80	69.98	71.42	72.14	
2013	May	Markland US-Lock	531.5	Hydro	59.94	60.80	61.88				62.60	62.60	61.52	62.06	63.14				63.32	63.86	64.04	63.68	64.58			67.28	68.18	68.54	69.44	69.98	65.66	66.56	66.92	69.80	69.98	71.78	72.32		
2013	Jun	Markland DS-Hydro	531.5	Hydro				73.76	73.76	73.94	74.48	74.48			75.20	75.20	76.10	76.28	76.28				76.46	75.92	75.56	75.92	76.10			76.64	77.00	77.90	77.90	78.62					
2013	Jun	Markland DS-Lock	531.5	Hydro				73.76	73.58	73.94	74.30	74.30			75.20	75.02	76.10	76.28	76.10				76.28	75.92	75.56	75.74	75.92			76.64	76.82	77.72	77.90	78.62					
2013	Jun	Markland US-Lock	531.5	Hydro				73.94	73.76	73.94	74.30	74.48			75.20	75.02	76.10	79.88	76.10				76.46	75.92	75.56	75.74	75.92			76.46	76.82	77.90	77.90	78.44					
2013	Jul	Markland DS-Hydro	531.5	Hydro	78.62	78.62	78.08		78.44				75.20	77.18	78.44	78.80	78.08				77.54	78.08	78.08	78.80	79.88			81.68	81.50	82.04	81.32	80.60				78.98	78.80		
2013	Jul	Markland DS-Lock	531.5	Hydro	78.44	78.62	78.08		78.44				75.20	77.18	78.44	78.80	78.08				77.54	77.90	78.08	78.62	79.88			81.68	81.50	82.04	81.14	80.60				78.98	78.80		
2013	Jul	Markland US-Lock	531.5	Hydro	78.62	78.44	78.08		78.44				75.02	77.00	78.26	78.62	78.08				77.54	77.90	78.08	78.62	79.88			81.68	81.50	82.04	81.14	80.60				78.80	78.62		
2013	Aug	Markland DS-Hydro	531.5	Hydro	78.62				78.44	78.62	78.98	79.34	79.52			80.60	80.24	80.24	79.52	78.80				78.98	78.98	79.34	79.16			80.24	80.42	80.78	80.96	80.78					
2013	Aug	Markland DS-Lock	531.5	Hydro	78.62				78.44	78.98	78.98	79.34	79.70			80.42	80.24	80.24	79.52	78.80				78.98	78.98	79.34	79.16			80.24	80.42	80.60	80.96	80.78					
2013	Aug	Markland US-Lock	531.5	Hydro	78.62				78.44	78.62	78.98	79.34	79.52			80.60	80.06	80.24	79.52	78.62				78.98	78.98	79.34	79.16			80.42	80.42	80.60	80.96	80.78					
2013	Sep	Markland DS-Hydro	531.5	Hydro				80.42	80.24	80.24	80.06				80.06	80.06																							

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	
2009	Oct	Cannelton	720	USACE	71.47	70.65			69.10	69.03	68.56	68.11	67.42			63.57	63.61	62.58	61.93	61.77			60.39	60.01		58.77	59.05			59.23	59.68	59.59	59.22	58.89		
2010	May	Cannelton	720	USACE																		66.25	66.11	66.11	65.95		67.42	68.50	69.13	69.53	69.67					
2010	Jun	Cannelton	720	USACE	72.16	73.36	73.42	74.35				76.84	77.52	77.72		78.24			79.59	79.92	79.77	79.16	78.89			79.38	80.58	80.89	81.50	81.54		83.30	83.19	83.14		
2010	Jul	Cannelton	720	ORSANCO													86.13	85.77	86.85	87.71	87.60	86.92	86.49	86.05	85.89	86.34	86.97	86.54	87.31	87.82	87.01	87.21	87.93	88.09	89.62	
2010	Jul	Cannelton	720	USACE	83.34	82.99					83.57	84.43	83.70	84.52			85.39	83.77	84.27	85.12	86.41		86.05	86.20	85.80	85.86	86.27			86.88	86.86	86.97	87.13	87.30		
2010	Aug	Cannelton	720	ORSANCO	88.48	89.78	89.28	88.92	88.50		87.66	89.11	89.64	90.01	89.20	88.34	89.87	87.67			88.45	87.98	87.93	88.97	89.17	88.03	87.98	86.92	86.67	85.87						
2010	Aug	Cannelton	720	USACE		89.78	89.28	88.92	88.50		87.66			90.01	89.20	88.34	89.87	87.67			88.05	87.30			87.21	87.76		87.03	86.40	85.98	85.69	85.14			85.26	84.69
2010	Sep	Cannelton	720	USACE	84.47	84.36	84.00					82.35	81.70	81.55	80.87			79.77	79.77	79.65	80.24	79.45		79.25	80.46	78.89	79.34	78.85			77.36	76.73	76.41	76.19		
2010	Oct	Cannelton	720	USACE	76.05			73.63	72.81	71.92	71.60	71.78				70.43	70.41	69.82	69.58	69.17			68.02	68.34	67.82	67.39	67.26			66.79	66.63					
2012	Sep	Cannelton	720	ORSANCO																		79.36	78.66	78.13	77.07	76.60	76.10	75.65	74.89	74.61	74.34	74.39	73.81	73.36		
2012	Oct	Cannelton	720	ORSANCO	72.93	71.37	70.68	71.15	71.06	70.68	70.21	69.78	69.10	68.76	68.52	69.39	67.80	67.69	67.41	67.68	66.94	66.65	66.13	65.41	66.04	65.50	65.19	65.39	65.68	65.12	64.63	64.13	63.32	62.33	61.21	
2012	Nov	Cannelton	720	ORSANCO	60.35	58.41	58.15	57.76	56.79	55.80	55.29	54.63	54.23	54.25	54.16	54.01	53.49	53.04	52.47	52.16	51.91	51.49	51.10	51.03	51.35	51.17	51.19	50.81	50.20	50.16	49.65	49.50	49.41	49.15		
2012	Dec	Cannelton	720	ORSANCO	49.28	49.33	49.75	50.00	50.05	49.95	49.93	50.45	50.95	50.88	49.87	49.55	48.58	48.00	47.53	47.70	47.86	47.42	47.70	47.64	46.89	45.77	44.94	44.74	44.37	43.81	42.64	42.28	42.04	41.58	40.84	
2013	Jan	Cannelton	720	ORSANCO	40.78	40.53	40.35	40.08	39.72	39.58	39.34	39.38	39.56	39.79	40.64	41.40	43.14	43.30	43.84	42.93	42.94	42.69	41.72	41.13	40.91	40.87	40.78	40.57	39.87	39.42	39.00	39.15	39.81	40.75	41.14	
2013	Feb	Cannelton	720	ORSANCO	41.22	40.42	39.83	39.24	39.29	39.94	40.03	39.88	39.22	39.51	39.79	40.10	40.24	40.53	40.69	40.35	40.32	40.42	40.71	40.39	40.17	40.19	40.35	40.71	40.93	41.00	41.09	41.02				
2013	Mar	Cannelton	720	ORSANCO	40.91	40.78	41.07	40.93	40.93	40.50	40.17	40.26	40.19	41.09	41.74	42.64	43.18	43.09	43.92	44.80	44.58	44.19	44.51	44.33	43.97	43.74	44.51	44.51	44.35	44.19	44.26	44.58	44.55	45.01	45.59	
2013	Apr	Cannelton	720	ORSANCO	45.93	46.18	46.53	46.51	47.19	47.97	48.72	49.53	50.74	52.16	52.99	53.33	53.85	54.41	54.59	55.80	56.34	57.81	57.81	58.17	58.69	59.68	59.81	59.68	59.16	58.86	58.68	58.42	59.14	59.79		
2013	May	Cannelton	720	ORSANCO	60.24	60.80	61.47	61.83	61.99	61.75	61.70	63.03	63.16	64.04	64.13	63.18	63.23	64.11	64.80	65.12	65.41	66.34	67.24	68.07	68.36	68.68	69.17	69.66	69.94	70.38	70.95	71.47	73.08	72.68	72.70	
2013	Jun	Cannelton	720	ORSANCO	73.18	73.85	74.17	75.07	75.27	75.22	75.67	76.35	76.50	76.53	77.54	78.57	78.57	78.80	79.30	79.25	79.23	78.94	79.03	79.70	80.37	80.87	80.78	80.65	82.29	82.00	81.23	80.71	78.96	79.56		
2013	Jul	Cannelton	720	ORSANCO	79.47	79.52	79.68	79.63	79.32	79.21	78.87	78.39	77.05	76.17	77.61	78.57	79.45	80.22	80.19	80.64	81.32	81.73	82.15	82.63	83.32	83.01	83.39	83.39	82.87	83.25	82.67	82.44	82.38	82.13	81.37	
2013	Aug	Cannelton	720	ORSANCO	80.96	81.54	81.27	81.59	83.71	81.77	81.55	82.72	82.56	82.42	82.67	83.10	82.51	81.99	81.37	80.67	80.29	80.89	83.34	81.90	81.55	82.63	82.35	82.78	83.19	83.26	83.37	83.77	84.31	84.22	84.61	
2013	Sep	Cannelton	720	ORSANCO	84.69	84.69	84.42	84.34	84.31		84.74	83.46	83.19	84.65	84.76	83.41	83.57	82.94	82.49	81.99	81.39	81.01	80.80	81.27	80.51	79.84	78.64	78.24								
2009	May	Newburgh	776	USACE							64.13	63.70	64.71			64.60	63.39	63.19	63.00	63.50			63.75	64.17	65.14	65.88	66.67			69.71	70.54	71.13	71.96			
2009	Jun	Newburgh	776	ORSANCO												76.41	76.59	75.85	75.88	75.96	75.67	75.47	76.05	77.40	77.54	77.68	78.10	78.57	78.64	80.22	80.96	84.36	82.00	82.47	82.81	
2009	Jun	Newburgh	776	USACE	73.13	73.69	74.82	74.89	73.47					74.70	74.55	76.41	76.59	75.85		75.67	75.47	76.05	77.40	77.54		78.57	78.64	79.30	79.95	80.83				81.63		
2009	Jul	Newburgh	776	ORSANCO	81.86	82.36	83.84	81.72	80.69	83.35	84.24	84.97	86.41	86.52	83.98	84.99	84.79	84.25	83.84	84.74	83.39	81.23	81.75	84.94	82.29	80.73	81.82	84.38	82.15	83.34	85.26	82.45	82.26	80.24	80.15	
2009	Jul	Newburgh	776	USACE																							79.65	81.95				82.90	82.20	80.73	79.65	
2009	Aug	Newburgh	776	ORSANCO	79.72	78.89	78.19	79.11	78.93	78.91	78.15	77.09		80.55	82.44	83.07	80.65	81.54	81.68	82.51	82.67	84.83	85.86	85.21	83.91					85.78	87.73	85.08	83.37	82.40	81.73	
2009	Aug	Newburgh	776	USACE																								80.51	79.93	82.00	84.33	86.02			81.95	
2009	Sep	Newburgh	776	ORSANCO	81.64	84.36	80.91	83.14	81.01	81.34	80.89	81.12	82.29	81.88	84.18	81.70	81.45	81.81	80.94	80.47	79.79	79.39	79.05	79.07	78.80	79.25	79.97	78.73	78.75	79.07	77.32	74.88	72.86	72.77		
2009	Oct	Newburgh	776	ORSANCO	72.28	72.09	70.68	71.06	71.38	69.48	70.41	69.22	68.90	66.36	64.87	63.81	63.68	63.19	62.71	61.29	60.44	61.09	61.39	61.03	61.45	61.41	61.38	61.03	59.94	60.40	60.06	59.70	59.74	60.03	60.01	
2009	Nov	Newburgh	776	ORSANCO	58.93	58.60																														
2010	May	Newburgh	776	USACE																				66.40	66.18	65.89			67.96	68.67	69.93	70.81	70.68			
2010	Jun	Newburgh	776	USACE	74.25	75.76	75.09	78.94				77.11	77.56	78.26		79.27			80.67	80.44	80.92	80.69	79.84			81.09	82.56	82.74	84.15	84.76				84.18		
2010	Jul	Newburgh	776	USACE	83.86	83.88					87.55	88.95	88.93	91.09			88.09	87.89	90.72	87.98	86.63			88.65	88.29	88.77	86.11	86.76			88.74	89.85	87.76	87.94	88.90	
2010	Aug	Newburgh	776	USACE			89.38	93.72	92.16	91.53	89.80			92.55	93.36	91.99	90.55	90.19			91.15	89.60		88.70	89.65		87.42	88.03	86.94	86.45	86.56			86.34	86.88	
2010	Sep	Newburgh	776	USACE	86.99	85.55	84.83					83.23	80.67	81.91	80.40				80.06	80.22	81.10	80.67	79.81			79.81	83.34	82.56	82.56	81.05			78.39	77.79	75.60	77.45
2010	Oct	Newburgh	776	USACE	74.79			71.42	71.24	70.83	71.01	70.43				74.43	73.54	72.73	71.87	71.24			69.96	70.99	69.55	68.83	67.48			67.55	68.67	68.29	67.01	65.07		
2012	Sep	Newburgh	776	ORSANCO																			78.78	78.58	77.00	77.16	76.64	75.90	76.75	75.99	75.87	75.65	75.47	75.34	75.34	
2012	Oct	Newburgh	776	ORSANCO	74.46	73.06	72.97	73.56	72.82	70.59	69.71	69.37	70.20	68.70	67.95	71.89	69.21	68.72	68.20	68.45	68.22	67.95	67.26	65.70	66.69	67.21	67.17	67.64	67.93	66.81	65.52	64.15	63.19	61.30	59.23	
2012	Nov	Newburgh	776	ORSANCO	59.72	60.13	58.95	58.17	57.83	56.89	56.53	56.01	55.54	55.5																						

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								86.92	85.59	85.32	85.19	84.94	84.97	85.59	85.06	
2011	Aug	JT Myers	846	USACE	91.22	92.34	90.43	90.30	90.77			88.72	88.68	87.87	87.96	88.75			85.44	86.63								86.92	85.59	85.32				85.59	85.06	
2011	Sep	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	75.51	74.61	74.75	73.87	73.17	72.07	71.40	70.54	70.97	70.97	
2011	Sep	JT Myers	846	USACE	86.27	89.11					81.81	79.66	75.72																							
2011	Oct	JT Myers	846	ORSANCO	70.12	69.40	68.63	68.86	69.04	69.60	70.70	70.90	70.75	72.52																						
2012	Jun	JT Myers	846	ORSANCO																												85.01	86.77	86.38	90.55	
2012	Jul	JT Myers	846	ORSANCO	87.39	85.59	87.03	85.96	88.72	90.05	90.25	91.09	89.15	88.36	88.30	88.25	87.98	87.98	88.36	89.22	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	Aug	JT Myers	846	ORSANCO	88.09	88.12	87.78	87.13	86.99	88.11	92.66	95.47	76.14	74.21	74.14	74.34	74.44	83.14	92.03	81.66	74.41	73.63	73.53	84.90	85.96	79.74	75.24					83.68	83.34	84.42	82.72	
2012	Sep	JT Myers	846	ORSANCO	82.33	81.91	81.45	82.83	82.42	84.20	83.35	82.18	81.23	82.81	81.39	81.07	81.32	79.79	79.11	79.07	78.12															
2013	Jun	JT Myers	846	ORSANCO																																
2013	Jun	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	81.84	81.21	81.25	80.92	80.02	
2013	Aug	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														
2013	Sep	JT Myers	846	ORSANCO																																
2013	Oct	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	71.51	71.46	71.06	70.29	70.20	69.75	69.40	68.56	67.66												
2009	May	Smithland	918	USACE								64.74	65.19			66.02	65.95	65.89	65.43	65.64		66.40	66.25	66.20	66.69	67.68										
2009	Jun	Smithland	918	ORSANCO												76.01	76.10	76.12	76.66	76.46	75.97	76.10	76.60	77.25	78.19	79.12	79.79	80.49	81.19	81.61	82.71	83.55	84.00	83.70	83.08	
2009	Jun	Smithland	918	USACE	72.97	73.40	74.01	74.68	74.01				74.10	74.08	74.53	76.01	76.10			76.46	75.97	77.33	76.60	77.25			79.12	79.79	80.49	81.19	80.85			83.19		
2009	Jul	Smithland	918	ORSANCO	82.69	82.29	82.62	81.52	80.40	80.17	80.10	79.79	82.33	81.39	81.01	81.05	81.82	81.16	81.70	81.72	81.72	81.73	81.61	81.09	80.83	79.23	78.35	78.64	78.58	79.68	79.92	80.06	80.20	80.17	80.47	
2009	Jul	Smithland	918	USACE																																
2009	Aug	Smithland	918	ORSANCO	80.28	79.93	79.84	79.81	79.11	78.89	79.45	79.34	79.81	79.93	79.97	80.33	80.11	80.15	81.01	81.59	82.04	83.39	82.17	82.11	81.86	81.84	81.21	81.36	80.65	82.60	81.25	81.55	81.64	80.92	80.46	
2009	Aug	Smithland	918	USACE																															80.87	
2009	Sep	Smithland	918	ORSANCO	79.81	80.31	81.64	81.16	79.75	78.67	80.31	79.88	80.08	81.00	81.05	79.92	79.02	79.54	79.25	78.96	78.78	78.87	78.22	77.59	77.38	77.36	77.52	77.32	76.93	76.87	76.59	76.01	74.43	73.40		
2009	Oct	Smithland	918	ORSANCO	72.14	71.06	70.45	69.30	68.07	67.78	69.06	67.28	66.97	65.16	64.22	63.82	63.14	61.56	60.66	59.56	58.26	57.29	57.00	56.59	56.73	57.31	57.92	58.19	58.39	58.62	58.55	58.57	58.21	58.69	58.80	
2009	Nov	Smithland	918	ORSANCO	58.53	58.17																														
2010	May	Smithland	918	USACE																																
2010	Jun	Smithland	918	ORSANCO																																
2010	Jun	Smithland	918	USACE	75.45	76.55	76.68	77.41			78.71	78.51	77.99		78.22				80.76	81.27	81.63	81.43	81.21												83.48	
2010	Jul	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	85.08	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	86.86	87.60	87.73	87.24	
2010	Jul	Smithland	918	USACE	83.16	82.53				82.69	83.01	83.41	83.95																							
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	89.19	87.85	87.94	88.43	88.00	87.10								
2010	Aug	Smithland	918	USACE		89.28	88.66	88.39	87.93	87.80			88.02	88.12	89.76	89.28	89.01		89.64	88.88			88.48	89.08		88.07	87.87	86.72	86.54	86.16				84.49	83.80	
2010	Sep	Smithland	918	USACE	83.48	83.28	83.12				80.49	80.76	81.28	79.95			79.61	79.29	79.36	79.12	78.17															
2010	Oct	Smithland	918	USACE	75.65			72.12	70.65	70.56	69.73	71.60				69.57	69.04	69.10	69.24	68.92																
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	85.78	86.47	86.05	86.83	87.21	87.75	88.43	88.25	89.42	89.33	89.71	89.62	89.31	89.80	90.84	
2011	Jul	Smithland	918	USACE	78.24				80.44	80.67	81.43	81.77				83.25	84.04	84.13	85.06	85.60			86.05	86.83	87.21	87.75										
2011	Aug	Smithland	918	ORSANCO	91.13	90.84	91.17	90.72	90.10	89.37	89.51	89.20	90.00	87.98	88.11	88.32	86.79	86.11	85.53	86.50		85.62	85.10	84.81	84.99	86.22	86.00	84.88	84.83	86.11	85.68	86.00	84.92	84.85	84.79	83.62
2011	Aug	Smithland	918	USACE	91.13	90.84	91.17	90.72	90.10			89.20	90.00	87.98	88.11	88.32			85.53	86.50		85.62	85.10	84.81			86.00	84.88	84.83	86.11	85.68			84.79	83.62	
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	68.83	68.86		
2011	Sep	Smithland	918	USACE	84.18	89.49				81.19	79.61	79.72	77.20			76.35	77.97	77.38	76.82	76.06																
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																					
2012	Jun	Smithland	918	ORSANCO																																
2012	Jul	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	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	82.87	85.35	84.04	83.34	82.45</									

Appendix F:

Longitudinal Bacteria Sampling Results

Survey F: Longitudinal Bacteria Survey 2003 - 2006

Longitudinal Bacteria Survey Logistics and Details								
Round	Survey	Reach	Year	Week 1	Week 2	Week 3	Week 4	Week 5
1	A	Upper	2003	Jul 28-31	Aug 4-7	Aug 11-14	Aug 18-21	Aug 25-28
1	B	Mid	2003	Sept 29 - Oct 2	Oct 6-9	Oct 13-16	Oct 20-23	Oct 27-30
1	C	Lower	2004	May 3-6	May 10-13	May 17-20	May 24-27	June 7-10
2	D	Upper	2004	July 26-29	Aug 2-5	Aug 9-12	Aug 16-19	Aug 23-26
2	F	Mid	2005	May 9-12	May 16-19	May 23-26	May 30 - Jun 2	Jun 6-9
2	E	Lower	2004	Sept 13-16	Sept 20-23	Sept 27-30	Oct 4-7	Oct 11-14
3	I	Upper	2006	Sep 11-14	Sep 18-21	Sep 25-28	Oct 2-5	Oct 9-12
3	G	Mid	2006	May 22-25	May 30 - Jun 2	Jun 5-8	Jun 12-15	Jun 19-22
3	H	Lower	2006	Jul 24-27	Jul 31 - Aug 3	Aug 7-10	Aug 14-17	Aug 21-24
4	L	Upper	2007	Sep 24-27	Oct 1-4	Oct 8-11		
4	L	Mid	2007					
4	L	Lower	2007					

Appendix F: E. coli Concentration Data in colonies per 100 mL

Mile Point		Round 1			Round 2			Round 3			Geometric Mean Exceedences
		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences		
1.5	A	196	46.7	D	532	53.3	I	54	0		exceeds
3.3	A	213	53.3	D	418	46.7	I	88	20.0		exceeds
6.4	A	308	53.3	D	289	40.0	I	59	0		exceeds
9.5	A	198	60.0	D	381	60.0	I	48	0		exceeds
11.4	A	172	53.3	D	297	53.3	I	50	6.7		exceeds
12.5	A	180	60.0	D	238	53.3	I	60	6.7		exceeds
14.4	A	200	53.3	D	313	46.7	I	56	6.7		exceeds
17.7	A	155	60.0	D	312	46.7	I	64	13.3		exceeds
20.5	A	203	60.0	D	353	66.7	I	51	0		exceeds
20.8	A	181	53.3	D	261	46.7	I	50	0		exceeds
21.8	A	161	60.0	D	226	46.7	I	40	0		exceeds
22.9	A	214	60.0	D	357	66.7	I	120	33.3		exceeds
25.5	A	131	40.0	D	208	46.7	I	48	0		exceeds
25.8	A	177	46.7	D	203	46.7	I	55	13.3		exceeds
26.4	A	160	46.7	D	191	46.7	I	59	6.7		exceeds
28.3	A	144	46.7	D	150	46.7	I	73	20.0		exceeds
32.9	A	151	60.0	D	132	40.0	I	55	20.0		exceeds
37.6	A	164	64.3	D	95	40.0	I	55	20.0		exceeds
41.2	A	125	60.0	D	94	40.0	I	51	20.0		
44.8	A	145	60.0	D	106	40.0	I	52	20.0		exceeds
48.7	A	135	46.7	D	78	40.0	I	54	20.0		exceeds
52.5	A	103	53.3	D	54	7.7	I	36	20.0		
56.4	A	139	60.0	D	58	7.1	I	37	20.0		exceeds
60.3	A	128	60.0	D	69	13.3	I	74	40.0		
66.4	A	237	66.7	D	94	13.3	I	88	20.0		exceeds
66.9	A	194	60.0	D	104	14.3	-	-	-		exceeds
68.2	-	-	-	-	-	-	I	99	20.0		exceeds
70.7	A	170	53.3	D	104	13.3	I	73	20.0		exceeds
71.8	A	176	60.0	D	132	26.7	I	74	20.0		exceeds
74.9	A	110	40.0	D	71	6.7	I	48	6.7		
80.2	A	99	46.7	D	65	13.3	I	36	0		
85.6	A	84	33.3	D	46	0	I	31	0		
91.2	A	151	40.0	D	81	26.7	I	48	0		exceeds
94.2	A	228	53.3	D	78	13.3	I	36	0		exceeds
97.8	A	202	33.3	D	124	20.0	I	40	0		exceeds
102.6	A	154	33.3	D	76	6.7	I	32	0		exceeds
107.7	A	121	20.0	D	43	0	I	26	0		
113.0	A	67	20.0	D	50	0	I	22	0		
118.3	A	49	20.0	D	35	0	I	15	0		
123.7	A	55	20.0	D	28	0	I	13	0		
124.9	A	44	20.0	D	27	0	I	12	0		
129.1	A	65	20.0	D	48	6.7	I	15	0		
133.4	A	68	20.0	D	47	0	I	21	0		
138.7	A	63	13.3	D	51	6.7	I	13	0		
144.2	A	44	20.0	D	29	0	I	14	0		
149.6	A	34	13.3	D	21	0	I	12	0		
155.0	A	36	13.3	D	15	0	I	9	0		
160.4	A	53	0	D	23	0	I	14	0		
165.8	A	70	13.3	D	16	0	I	16	6.7		
171.2	A	66	13.3	D	15	0	I	12	0		
175.1	A	80	13.3	D	18	0	I	19	0		
179.4	A	113	33.3	D	16	0	I	17	0		
183.5	A	114	20.0	D	18	0	I	16	0		
185.9	A	85	0	D	22	0	I	27	0		
190.8	A	70	0	D	18	0	I	30	6.7		

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in colonies per 100 mL

Mile Point		Round 1			Round 2			Round 3		
		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences	Geometric Mean Exceedences
195.7	A	46	0	D	15	0	I	22	0	
200.7	A	43	0	D	16	0	I	17	0	
205.7	A	50	0	D	17	0	I	157	53.3	exceeds
210.7	A	43	0	D	11	0	I	162	53.3	exceeds
215.7	A	42	0	D	10	0	I	179	46.7	exceeds
220.4	A	42	0	D	11	0	I	176	53.3	exceeds
225.4	A	35	0	D	12	0	I	156	40.0	exceeds
230.4	A	30	0	D	11	0	I	113	40.0	
235.6	A	28	0	D	14	0	I	132	40.0	exceeds
240.4	A	39	0	D	16	0	I	129	40.0	
245.4	A	45	0	D	14	0	I	150	46.7	exceeds
250.4	A	62	6.7	D	30	6.7	I	213	60.0	exceeds
255.5	A	54	0	D	31	6.7	I	288	60.0	exceeds
260.6	A	44	0	D	22	0	I	256	60.0	exceeds
265.7	A	47	0	D	28	0	I	294	60.0	exceeds
269.8	A	74	6.7	D	47	13.3	I	227	46.7	exceeds
275.2	A	53	0	D	26	0	I	148	20.0	exceeds
280.8	B	40	0	F	28	0	G	14	0	exceeds
280.8	-	-	-	-	-	-	I	164	33.3	exceeds
285.9	B	40	0	F	24	0	G	9	0	exceeds
285.9	-	-	-	-	-	-	I	195	46.7	exceeds
291.4	B	38	0	F	20	0	G	8	0	exceeds
291.4	-	-	-	-	-	-	I	175	46.7	exceeds
296.6	B	34	0	F	18	0	G	8	0	exceeds
296.6	-	-	-	-	-	-	I	145	40.0	exceeds
302.0	B	40	6.7	F	16	0	G	5	0	
307.7	B	57	20.0	F	39	6.7	G	24	0	
313.3	B	68	20.0	F	58	6.7	G	48	20.0	
317.2	B	77	13.3	F	53	6.7	G	51	20.0	
321.5	B	68	13.3	F	36	0	G	58	6.7	
327.4	B	51	13.3	F	24	0	G	35	7.1	
327.7	B	67	20.0	F	30	0	G	37	20.0	
328.0	B	79	13.3	F	28	0	G	44	13.3	
332.5	B	55	6.7	F	19	0	G	31	0	
338.1	B	49	13.3	F	21	0	G	20	0	
343.5	B	45	6.7	F	19	0	G	25	0	
349.2	B	65	13.3	F	22	0	G	23	0	
352.0	B	67	20.0	F	18	0	G	23	0	
353.8	B	55	6.7	F	18	0	G	26	0	
359.3	B	84	26.7	F	19	0	G	41	6.7	
364.6	B	54	13.3	F	17	0	G	29	0	
369.8	B	60	20.0	F	14	0	G	19	0	
375.0	B	58	13.3	F	16	0	G	18	0	
380.4	B	66	13.3	F	12	0	G	20	0	
385.4	B	58	26.7	F	11	0	G	12	0	
390.6	B	50	13.3	F	9	0	G	14	0	
395.0	B	57	20.0	F	9	0	G	11	0	
400.4	B	37	6.7	F	11	0	G	8	0	
405.8	B	46	13.3	F	13	0	G	16	0	
411.4	B	34	0	F	11	0	G	13	0	
416.4	B	24	0	F	9	0	G	9	0	
421.6	B	21	0	F	8	0	G	7	0	
426.4	B	27	0	F	8	0	G	7	0	
431.4	B	21	0	F	7	0	G	6	0	
436.8	B	24	0	F	7	0	G	13	0	

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in colonies per 100 mL

Mile Point		Round 1			Round 2			Round 3		Geometric Mean Exceedences
		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences	
441.5	B	24	0	F	7	0	G	6	0	
446.5	B	23	0	F	8	0	G	7	0	
451.6	B	29	0	F	6	0	G	6	0	
455.3	B	32	0	F	6	0	G	22	13.3	
460.0	B	25	0	F	5	0	G	14	13.3	
465.0	B	42	13.3	F	8	0	G	10	0	
468.7	B	65	20.0	F	8	0	G	13	0	
472.7	B	84	26.7	F	36	6.7	G	40	0	
477.6	B	103	20.0	F	42	6.7	G	34	0	
482.2	B	130	26.7	F	36	6.7	G	66	20.0	
486.2	B	169	20.0	F	30	0	G	61	20.0	exceeds
489.7	B	96	20.0	F	27	0	G	27	0	
493.2	B	147	25	F	28	0	G	34	0	exceeds
498.0	B	134	20.0	F	23	0	G	30	0	exceeds
503.1	B	59	0	F	12	0	G	21	0	
508.3	B	52	0	F	10	0	G	13	0	
513.4	B	50	0	F	7	0	G	11	0	
518.5	B	39	6.7	F	8	0	G	10	0	
523.4	B	37	20.0	F	5	0	G	9	0	
528.4	B	34	20.0	F	5	0	G	8	0	
533.2	B	39	20.0	F	6	0	G	8	0	
538.5	B	47	20.0	F	7	0	G	8	0	
543.5	B	34	0	F	8	0	G	7	0	
548.3	B	41	0	F	8	0	G	8	0	
553.6	B	41	0	F	7	0	G	6	0	
558.8	B	42	13.3	F	8	0	G	6	0	
562.7	B	39	13.3	F	6	0	G	10	0	
567.6	B	35	0	F	7	0	G	6	0	
572.5	B	31	0	F	4	0	G	7	0	
577.4	B	31	0	F	5	0	G	5	0	
582.9	B	28	0	F	5	0	G	5	0	
587.8	B	19	0	F	4	0	G	5	0	
592.2	B	21	0	F	5	0	G	7	0	
597.1	B	19	0	F	4	0	G	8	0	
602.2	B	17	0	F	5	0	G	18	6.7	
604.3	B	17	0	F	6	0	G	47	20.0	
607.5	B	40	6.7	F	11	0	G	51	20.0	exceeds
607.5	-	-	-	-	-	-	H	23	0	exceeds
609.7	B	39	6.7	F	13	0	G	123	40.0	exceeds
609.7	-	-	-	-	-	-	H	23	0	exceeds
612.2	B	26	0	F	16	0	G	157	20.0	exceeds
612.2	-	-	-	-	-	-	H	26	6.7	exceeds
617.6	B	51	13.3	F	32	6.7	G	280	60.0	exceeds
617.6	-	-	-	-	-	-	H	63	20.0	exceeds
623.1	B	57	13.3	F	20	6.7	G	146	40.0	exceeds
623.1	-	-	-	-	-	-	H	49	20.0	exceeds
628.1	B	49	13.3	F	30	6.7	G	209	46.7	exceeds
628.1	-	-	-	-	-	-	H	49	13.3	exceeds
630.0	C	155	40.0	E	104	40.0	-	-	-	exceeds
631.6	C	156	40.0	E	111	40.0	G	819	66.7	exceeds
631.6	-	-	-	-	-	-	H	54	20.0	exceeds
637.6	C	180	46.7	E	107	46.7	G	2301	91.7	exceeds
637.6	-	-	-	-	-	-	H	45	20.0	exceeds
643.1	C	218	60.0	E	101	40.0	G	472	58.3	exceeds
643.1	-	-	-	-	-	-	H	30	0	exceeds

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in colonies per 100 mL

Mile Point		Round 1			Round 2			Round 3		Geometric Mean Exceedences
		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences	
648.9	C	228	60.0	E	95	33.3	G	91	11.1	exceeds
648.9	-	-	-	-	-	-	H	21	0	exceeds
654.0	C	229	53.3	E	85	26.7	H	15	0	exceeds
659.2	C	227	53.3	E	65	13.3	H	15	0	exceeds
664.2	C	254	60.0	E	75	20.0	H	10	0	exceeds
669.1	C	216	60.0	E	77	26.7	H	16	6.7	exceeds
674.5	C	174	46.7	E	66	26.7	H	9	13.3	exceeds
680.4	C	181	53.3	E	61	13.3	H	9	0	exceeds
685.6	C	166	46.7	E	60	0	H	7	0	exceeds
690.7	C	185	60.0	E	52	0	H	6	0	exceeds
695.6	C	148	40.0	E	49	0	H	3	0	exceeds
700.9	C	162	46.7	E	44	0	H	8	0	exceeds
706.2	C	143	46.7	E	35	0	H	5	0	exceeds
711.5	C	90	40.0	E	33	0	H	6	0	
717.4	C	104	40.0	E	34	0	H	4	0	
721.5	C	200	46.7	E	66	13.3	H	3	0	exceeds
727.0	C	182	60.0	E	59	13.3	H	5	0	exceeds
732.5	C	182	60.0	E	66	13.3	H	14	6.7	exceeds
738.8	C	180	40.0	E	43	0	H	10	0	exceeds
742.4	C	182	53.3	E	44	0	H	8	0	exceeds
746.4	C	167	46.7	E	42	0	H	5	0	exceeds
750.6	C	162	46.7	E	39	0	H	9	0	exceeds
754.8	C	166	40.0	E	44	0	H	9	0	exceeds
758.0	C	158	40.0	E	64	6.7	H	26	20.0	exceeds
763.2	C	144	40.0	E	35	0	H	56	20.0	exceeds
769.1	C	156	40.0	E	33	0	H	16	0	exceeds
773.6	C	156	40.0	E	30	6.7	H	11	0	exceeds
778.2	C	141	33.3	E	35	0	H	15	0	exceeds
782.8	C	136	40.0	E	39	0	H	18	0	exceeds
787.0	C	124	33.3	E	35	0	H	10	0	
792.7	C	135	26.7	E	36	0	H	14	6.7	exceeds
794.2	C	153	33.3	E	53	6.7	H	25	6.7	exceeds
799.5	-	-	-	-	-	-	H	31	20.0	exceeds
800.0	C	152	40.0	E	92	20.0	-	-	-	exceeds
805.8	C	144	33.3	E	43	0	H	34	20.0	exceeds
811.3	C	177	40.0	E	59	0	H	45	6.7	exceeds
817.0	C	222	53.3	E	70	6.7	H	19	0	exceeds
823.2	C	257	73.3	E	69	0	H	17	0	exceeds
829.5	C	204	53.3	E	60	0	H	12	0	exceeds
832.2	C	162	26.7	E	45	0	H	29	0	exceeds
837.2	C	137	40.0	E	41	0	H	20	0	exceeds
842.3	C	140	26.7	E	40	0	H	12	0	exceeds
846.5	C	120	26.7	E	49	6.7	H	14	0	
851.3	C	115	13.3	E	46	0	H	13	0	
855.5	C	120	20.0	E	40	0	H	10	0	
859.7	C	118	20.0	E	42	0	H	7	0	
864.4	C	106	26.7	E	42	0	H	5	0	
869.8	C	113	26.7	E	43	0	H	4	0	
875.7	C	78	20.0	E	36	0	H	5	0	
880.7	C	65	20.0	E	25	0	H	4	0	
885.0	C	66	6.7	E	26	0	H	3	0	
889.2	C	51	6.7	E	32	0	H	3	0	
891.7	C	48	6.7	E	27	0	H	2	0	
897.5	C	82	33.3	E	17	0	H	3	0	
903.2	C	80	40.0	E	16	0	H	2	0	

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in colonies per 100 mL

Mile Point		Round 1			Round 2			Round 3		Geometric Mean Exceedences
		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences		Monthly Geometric Mean	Percent Individual Exceedences	
908.0	C	72	26.7	E	19	0	H	2	0	
912.6	C	46	6.7	E	14	0	H	2	0	
917.6	C	58	20.0	E	14	0	H	2	0	
923.4	C	53	20.0	E	15	0	H	2	0	
928.2	C	43	6.7	E	13	0	H	4	0	
932.2	C	36	0	E	12	0	H	2	0	
936.2	C	31	0	E	16	0	H	5	0	
937.7	C	31	0	E	15	0	H	4	0	
940.9	C	32	0	E	16	0	H	6	0	
944.2	C	28	0	E	15	0	H	4	0	
947.5	C	32	6.7	E	17	0	H	4	0	
952.2	C	33	6.7	E	21	0	H	4	0	
957.7	C	39	6.7	E	16	0	H	4	0	
963.0	C	33	6.7	E	18	0	H	3	0	
969.2	C	34	7.1	E	21	0	H	5	0	
974.1	C	32	6.7	E	18	0	H	6	0	
979.2	C	34	6.7	E	19	0	H	11	0	

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey A															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
1.5	400	320	710	178	238	267	750	820	790	191	119	152	24	25	24	196	7
3.3	430	370	400	285	235	445	960	750	1330	185	144	162	22	19	26	213	8
6.4	270	340	370	222	432	421	1110	960	1040	108	185	139	172	148	194	308	8
9.5	690	173	720	335	450	490	800	960	1010	242	172	146	3	21	16	198	9
11.4	370	218	670	386	345	380	540	820	880	228	125	99	12	10	9	172	8
12.5	490	264	810	378	309	386	620	930	990	194	173	147	5	12	8	180	9
14.4	890	200	440	435	357	740	645	720	500	192	143	238	14	15	11	200	8
17.7	610	410	630	502	450	930	459	760	480	99	93	89	3	5	12	155	9
20.5	990	680	660	770	700	1040	535	635	770	98	111	114	3	6	26	203	9
20.8	1220	1300	109	1110	750	750	465	504	580	93	98	199	6	7	6	181	8
21.8	1190	640	1190	1260	960	990	380	496	500	46	105	115	2	5	2	161	9
22.9	1220	1210	880	1350	1080	606	1350	565	469	108	80	228	6	5	4	214	9
25.5	240	200	173	1150	770	647	599	410	479	50	73	82	14	7	4	131	6
25.8	170	1190	1660	193	379	1300	561	385	520	67	78	87	10	14	24	177	7
26.4	200	200	1470	365	276	521	526	518	540	96	93	131	11	14	14	160	7
28.3	264	350	1560	223	324	600	214	383	504	70	89	86	14	11	12	144	7
32.9	255	560	1920	450	512	395	419	580	511	74	80	75	5	8	8	151	9
37.6	420	700	1300	486	547	620	455	299	328	51	53	47	6	5	-	164	9
41.2	440	580	910	518	500	526	260	337	288	64	50	47	10	5	5	125	9
44.8	1020	1050	1470	529	540	580	248	253	244	28	73	68	7	11	6	145	9
48.7	1790	1080	680	448	605	562	214	325	192	33	34	53	5	9	13	135	7
52.5	530	720	650	534	493	368	285	248	240	34	28	22	9	7	3	103	8
56.4	930	1330	1020	630	640	572	533	253	294	33	29	38	9	6	6	139	9
60.3	1240	810	880	660	534	399	341	408	386	28	29	19	7	8	7	128	9
66.4	1173	860	1970	660	505	534	385	296	247	70	34	32	50	34	320	237	10
66.9	1370	1350	1550	670	430	559	566	278	295	74	25	26	33	28	21	194	9
70.7	1350	1682	1670	437	495	445	260	422	234	42	35	29	24	23	13	170	8
71.8	1660	1500	1700	417	328	381	425	406	405	46	26	45	8	24	30	176	9
74.9	1150	3080	2280	326	266	264	201	158	238	41	17	12	6	5	12	110	6
80.2	1110	2190	1790	192	492	345	276	210	243	21	15	24	4	5	3	99	7
85.6	630	340	560	167	249	262	152	167	126	24	28	26	12	10	9	84	5
91.2	575	480	655	274	236	150	118	330	162	21	27	52	221	6	1080	151	6
94.2	630	558	750	249	208	291	162	153	166	21	30	70	498	402	1609	228	8
97.8	585	385	583	166	178	155	139	128	147	29	34	118	910	148	1550	202	5
102.6	466	461	580	172	147	276	135	132	172	21	38	35	515	173	102	154	5
107.7	1020	655	641	147	112	150	114	162	115	34	32	22	155	55	40	121	3
113.0	545	910	648	126	114	152	91	140	67	20	13	34	12	5	7	67	3
118.3	327	519	568	93	68	114	142	93	104	20	10	16	6	3	4	49	3

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey A															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
123.7	408	590	830	68	99	112	73	93	86	20	19	26	8	9	2	55	3
124.9	295	367	582	84	91	102	86	99	93	28	13	5	5	5	2	44	3
129.1	555	610	447	105	90	89	99	131	102	17	19	21	15	8	10	65	3
133.4	365	487	435	26	69	131	127	96	86	51	26	24	42	7	18	68	3
138.7	326	235	285	111	77	47	91	58	36	147	25	22	25	17	17	63	2
144.2	447	345	309	86	82	56	93	63	43	19	10	8	12	8	6	44	3
149.6	344	244	218	73	108	120	46	51	88	10	7	8	1	3	13	34	2
155.0	342	233	269	93	105	86	53	52	50	16	19	12	7	2	2	36	2
160.4	205	169	238	91	114	102	66	135	58	25	31	17	7	15	13	53	0
165.8	337	365	205	179	119	115	108	101	79	25	26	24	95	5	13	70	2
171.2	291	178	308	148	148	144	111	96	127	17	14	31	20	20	<10	76	2
175.1	144	250	194	167	178	306	122	105	172	17	16	58	<10	30	55	93	2
179.4	179	140	249	113	261	522	75	98	281	18	18	42	36	300	200	113	5
183.5	167	172	170	260	172	619	210	69	79	13	21	34	500	100	<100	115	3
185.9	236	178	127	142	125	135	40	96	96	45	34	52	68	38	93	85	0
190.8	184	156	156	105	142	127	99	84	89	38	29	26	44	30	21	70	0
195.7	-	60	179	113	102	184	80	69	33	33	28	13	18	18	12	46	0
200.7	69	88	91	115	107	122	70	114	79	23	23	19	8	12	7	43	0
205.7	231	140	121	117	163	147	118	91	138	19	25	16	7	6	6	50	0
210.7	121	144	104	148	140	153	76	166	56	17	12	16	5	8	6	43	0
215.7	115	135	98	141	128	167	75	117	99	6	20	15	10	6	6	42	0
220.4	138	108	96	161	161	127	108	99	86	23	21	9	3	7	6	42	0
225.4	114	86	84	124	126	116	101	70	86	14	14	8	7	4	4	35	0
230.4	90	53	59	126	114	114	73	58	47	11	8	8	6	5	7	30	0
235.6	82	62	56	75	71	166	47	58	38	13	13	8	6	3	6	28	0
240.4	118	105	156	225	172	185	53	33	70	13	16	<10	6	3	11	43	0
245.4	72	114	105	138	220	128	79	108	93	12	17	15	7	10	10	45	0
250.4	93	102	1420	150	199	140	86	91	146	11	22	16	12	19	13	62	1
255.5	78	107	154	132	173	238	79	102	116	10	22	23	14	8	26	54	0
260.6	15	88	109	133	138	179	73	93	127	24	15	21	8	13	15	44	0
265.7	140	91	68	155	238	172	56	39	39	17	19	9	46	12	15	47	0
269.8	249	79	231	115	118	124	46	78	111	15	50	73	93	15	46	74	1
275.2	77	83	178	155	206	135	42	78	50	16	21	17	49	16	21	53	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey B															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
280.8	101	89	70	25	18	17	6	14	14	60	79	61	74	83	115	40	0
285.9	93	99	64	28	18	25	11	14	14	66	66	56	61	34	156	40	0
291.4	162	111	98	15	16	19	8	19	7	68	68	44	114	24	118	38	0
296.6	153	118	120	26	24	32	6	5	10	75	50	70	24	12	91	34	0
302.0	162	153	91	19	26	31	4	6	6	35	79	65	1020	15	83	40	1
307.7	336	162	96	244	23	24	24	7	5	118	82	78	560	11	84	57	3
313.3	452	85	111	52	30	21	27	5	30	84	93	82	1310	29	256	68	3
317.2	503	105	114	57	30	37	20	11	24	137	122	75	1470	79	72	77	2
321.5	378	184	108	33	27	51	8	17	19	47	83	69	1250	196	56	68	2
327.4	168	96	105	41	25	17	7	5	13	49	105	51	375	285	99	51	2
327.7	305	120	80	67	32	17	7	12	10	70	64	58	2220	397	109	67	3
328.0	304	132	74	69	35	54	9	8	68	73	53	56	1470	227	214	79	2
332.5	196	210	88	24	35	23	16	13	5	42	59	43	547	126	220	55	1
338.1	276	135	89	39	18	19	14	15	5	36	51	44	446	108	119	49	2
343.5	102	111	126	24	22	29	8	15	1	81	67	41	424	213	128	45	1
349.2	131	125	138	30	28	45	12	11	29	52	55	35	325	210	642	65	2
352.0	186	102	152	28	32	52	55	6	10	54	75	62	252	264	315	67	3
353.8	118	91	96	36	29	38	12	6	12	60	68	66	236	163	402	55	1
359.3	130	242	530	26	55	57	9	29	32	47	56	77	190	469	358	84	4
364.6	84	98	429	32	40	53	1	17	24	43	60	76	131	140	294	54	2
369.8	179	337	473	24	37	37	4	12	21	37	50	57	130	130	265	60	3
375.0	133	363	640	26	40	43	5	10	11	50	74	39	101	129	201	58	2
380.4	205	406	575	34	27	21	15	17	11	60	73	58	64	201	236	66	2
385.4	345	638	420	20	35	19	7	7	4	36	53	60	111	223	356	58	4
390.6	172	429	485	47	29	26	8	6	12	27	25	40	89	112	156	50	2
395.0	449	387	269	30	28	28	8	5	10	47	34	51	196	132	201	57	3
400.4	131	199	249	28	15	26	1	9	8	23	49	36	112	139	112	37	1
405.8	190	244	365	24	26	23	7	10	16	25	31	26	135	114	96	46	2
411.4	75	133	186	29	27	33	23	7	8	36	20	16	50	69	38	34	0
416.4	166	96	93	27	28	20	6	12	5	19	17	26	13	30	15	24	0
421.6	145	115	91	17	12	11	10	5	4	34	25	23	19	23	15	21	0
426.4	125	126	192	11	7	93	11	8	5	30	25	15	33	23	30	27	0
431.4	140	102	105	11	24	12	5	5	5	31	16	28	43	14	17	21	0
436.8	127	141	49	15	15	13	9	13	18	24	32	17	35	12	21	24	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey B															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
441.5	105	138	72	18	15	15	7	7	8	34	25	25	26	26	22	24	0
446.5	147	96	89	26	15	19	7	3	7	22	25	17	37	25	18	23	0
451.6	156	135	102	14	14	20	30	26	13	22	16	15	34	29	23	29	0
455.3	105	54	84	15	26	10	78	17	46	27	28	22	28	35	25	32	0
460.0	102	88	79	16	23	14	24	5	24	32	19	26	16	36	14	25	0
465.0	105	93	101	17	16	15	60	245	277	28	13	26	28	14	39	42	2
468.7	73	91	147	9	19	30	830	800	910	24	24	29	29	16	58	65	3
472.7	61	73	81	24	26	12	1150	577	620	21	20	25	118	630	82	84	4
477.6	96	76	80	20	16	17	2910	2490	1660	19	30	59	200	40	145	103	3
482.2	75	60	101	22	15	33	8660	2490	7700	20	38	38	127	64	260	130	4
486.2	68	89	132	11	20	51	4880	15530	15530	20	29	76	209	120	227	169	3
489.7	105	99	190	16	36	58	475	760	810	24	45	84	36	127	70	96	3
493.2	108	144	199	21	30	76	880	780	1040	-	-	-	50	86	225	147	3
498.0	125	232	226	14	25	93	1080	960	610	42	40	93	105	179	214	134	3
503.1	93	91	132	12	37	37	34	68	26	59	26	41	162	214	169	59	0
508.3	79	119	96	11	10	33	40	47	69	23	28	50	181	190	112	52	0
513.4	79	50	59	28	26	40	41	26	29	32	36	35	156	199	126	50	0
518.5	50	75	68	17	25	17	9	22	12	28	30	32	148	150	260	39	1
523.4	57	46	68	11	13	26	5	7	15	26	28	29	356	318	435	37	3
528.4	53	44	116	12	7	8	8	13	13	16	15	26	451	354	334	34	3
533.2	55	101	90	14	20	24	10	4	8	13	28	19	561	418	436	39	3
538.5	88	96	93	20	27	22	10	11	12	24	24	19	510	333	477	47	3
543.5	84	99	74	15	17	15	13	9	20	12	24	11	214	142	166	34	0
548.3	96	66	101	41	20	33	68	6	24	15	15	8	194	110	213	41	0
553.6	101	84	122	14	18	21	42	8	46	15	6	24	197	210	228	41	0
558.8	99	72	64	14	17	15	19	7	194	14	10	36	276	261	171	42	2
562.7	80	84	88	16	23	20	19	7	63	10	8	15	249	220	265	39	2
567.6	108	86	60	17	17	12	12	26	40	10	8	15	150	222	166	35	0
572.5	86	81	64	9	23	12	16	23	33	11	12	5	105	201	167	31	0
577.4	102	91	71	11	11	12	12	23	37	11	12	10	86	148	155	31	0
582.9	75	88	91	11	18	13	24	12	22	8	17	14	31	140	66	28	0
587.8	68	79	48	3	8	6	26	15	29	12	11	7	18	58	46	19	0
592.2	81	86	63	5	11	6	14	19	40	13	13	14	23	55	20	21	0
597.1	79	86	62	11	8	13	68	61	15	11	9	5	8	17	6	19	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey B																Geometric	
Mile Point	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
602.2	75	70	54	12	50	9	12	11	12	9	7	11	7	16	20	17	0
604.3	86	72	108	58	5	12	11	7	14	9	5	13	14	12	15	17	0
607.5	165	138	125	203	14	24	422	39	14	18	14	15	25	19	17	40	1
609.7	119	133	98	119	31	15	250	162	15	26	12	14	20	12	15	39	1
612.2	140	100	60	101	19	15	76	11	15	11	8	17	12	18	16	26	0
617.6	136	136	110	161	31	24	1420	20	24	20	14	15	350	12	16	51	2
623.1	200	100	110	185	33	11	1860	35	30	19	17	12	624	15	20	57	2
628.1	192	93	108	447	43	7	1010	22	34	24	15	7	89	28	15	49	2

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey C															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
630.0	1110	790	561	63	22	36	2280	24	15	138	105	111	516	272	162	155	6
631.6	3650	630	628	54	27	31	1920	22	10	68	104	184	511	167	260	156	6
637.6	1440	1140	525	40	58	20	75	57	570	79	178	86	423	425	317	180	7
643.1	1020	1010	780	38	42	24	412	406	640	73	108	74	345	450	387	218	9
648.9	1200	1140	780	47	22	28	539	690	603	91	104	125	282	355	291	228	9
654.0	1220	930	790	39	35	33	790	510	900	127	96	81	161	317	329	229	8
659.2	1190	990	990	22	34	26	720	921	1310	114	73	93	323	322	142	227	8
664.2	1120	820	2010	60	27	37	459	601	530	228	84	78	548	332	273	254	9
669.1	1090	780	1370	38	25	26	346	495	428	100	75	70	392	442	533	216	9
674.5	1120	960	930	23	21	25	247	341	198	86	133	91	285	304	231	174	7
680.4	1220	1440	790	36	22	16	305	216	276	114	82	72	252	375	365	181	8
685.6	866	1120	910	23	19	15	252	233	194	98	82	101	341	388	288	166	7
690.7	990	1130	990	26	26	19	248	337	261	74	133	117	311	325	291	185	9
695.6	720	580	561	18	20	13	185	166	238	80	117	64	472	384	424	148	6
700.9	780	780	652	23	28	16	260	127	179	100	88	58	505	414	554	162	7
706.2	690	630	652	20	10	25	192	248	93	70	50	48	413	700	727	143	7
711.5	537	548	490	27	15	11	61	60	41	24	40	25	440	575	370	90	6
717.4	500	620	577	20	22	16	42	59	38	34	58	43	410	710	572	104	6
721.5	682	840	910	19	18	18	120	108	84	1020	1170	710	274	201	199	200	7
727.0	760	622	830	20	17	15	71	91	86	524	730	590	420	268	275	182	9
732.5	800	580	658	18	12	113	48	50	166	303	481	249	396	328	590	182	9
738.8	780	615	710	27	28	117	105	50	95	205	196	236	346	306	440	180	6
742.4	680	750	480	18	24	91	70	38	313	337	152	202	573	341	498	182	8
746.4	670	573	614	16	14	46	81	72	144	445	185	144	525	506	336	167	7
750.6	680	690	730	11	22	50	101	45	147	314	125	131	353	605	485	162	7
754.8	560	730	710	22	27	49	116	91	99	104	162	204	370	514	361	166	6
758.0	860	480	910	17	23	22	104	70	167	108	119	233	630	370	349	158	6
763.2	770	840	677	10	15	19	81	67	172	170	93	185	433	434	365	144	6
769.1	661	1070	680	15	19	38	117	101	93	115	91	101	620	414	507	156	6
773.6	820	830	1140	20	20	12	104	96	201	151	77	135	482	388	372	156	6
778.2	600	840	1080	16	19	33	120	105	93	130	77	98	327	353	225	141	5
782.8	700	545	650	19	17	28	108	105	91	144	111	83	283	331	326	136	6
787.0	780	680	612	30	15	27	48	76	96	132	91	99	185	305	260	124	5
792.7	590	437	700	36	20	32	156	192	123	118	64	52	214	391	172	135	4

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey C															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
794.2	605	539	540	52	16	116	147	201	141	158	82	42	198	245	328	153	5
800.0	580	580	660	22	22	46	192	140	155	71	133	82	310	460	250	152	6
805.8	501	491	475	24	30	49	102	162	126	79	70	86	234	481	528	144	5
811.3	431	547	575	99	35	41	375	228	135	199	65	88	275	327	225	177	6
817.0	461	623	352	133	41	28	220	101	61	299	597	1350	231	269	517	222	8
823.2	385	529	553	378	102	24	295	240	31	427	441	980	318	398	272	257	11
829.5	340	330	365	127	120	35	228	214	58	585	308	294	295	299	154	204	8
832.2	346	399	494	56	41	28	185	162	76	575	206	132	201	228	201	162	4
837.2	372	540	287	39	31	18	79	98	52	383	248	228	339	222	133	137	6
842.3	580	503	423	61	15	21	43	66	67	2360	240	150	88	217	229	140	4
846.5	600	567	321	30	17	36	82	82	53	91	172	228	196	265	113	120	4
851.3	585	423	225	52	34	49	60	56	32	132	172	186	120	219	135	115	2
855.5	476	350	219	42	37	30	68	79	52	345	126	178	173	167	152	120	3
859.7	495	540	345	51	40	19	55	96	42	229	108	172	179	161	121	118	3
864.4	352	383	200	36	29	38	46	57	36	285	131	244	170	91	161	106	4
869.8	530	358	283	28	26	20	73	49	24	1940	152	119	133	185	102	113	4
875.7	360	295	275	28	16	15	47	47	28	147	101	127	135	101	82	78	3
880.7	263	359	201	20	10	10	52	28	13	533	39	111	124	98	72	65	3
885.0	220	308	172	10	17	22	38	38	25	122	57	145	131	124	80	66	1
889.2	357	238	233	11	12	15	35	29	17	20	53	60	120	86	91	51	1
891.7	255	144	190	7	12	20	26	25	16	57	34	52	140	121	74	48	1
897.5	172	249	166	17	6	9	26	43	10	596	572	281	270	170	140	82	5
903.2	172	241	126	13	9	10	17	17	13	670	631	441	303	249	114	80	6
908.0	222	196	387	12	6	9	17	13	12	600	401	249	185	210	93	72	4
912.6	131	158	116	13	5	6	5	18	8	203	274	228	98	114	91	46	1
917.6	238	214	167	12	8	7	14	16	5	256	381	333	133	122	75	58	3
923.4	137	167	291	11	12	10	5	10	17	129	403	261	135	75	91	53	3
928.2	70	261	111	6	10	9	7	15	15	107	238	86	102	113	74	43	1
932.2	102	160	96	9	12	7	10	10	9	93	75	99	74	79	52	36	0
936.2	47	150	88	20	3	11	-	5	23	64	73	48	104	15	53	31	0
937.7	96	130	142	10	4	12	7	4	14	118	74	38	41	65	70	31	0
940.9	68	108	84	12	6	6	11	11	28	93	54	75	33	53	55	32	0
944.2	45	91	111	20	5	11	7	6	13	96	34	121	26	53	36	28	0
947.5	83	118	99	8	5	16	13	9	6	328	59	53	33	70	43	32	1

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey C																Geometric	
Mile Point	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
952.2	66	58	82	25	10	6	3	9	15	377	70	44	96	44	57	33	1
957.7	41	77	81	38	9	19	8	9	19	524	40	132	56	48	35	39	1
963.0	68	77	75	8	13	12	7	6	32	60	44	305	40	50	56	33	1
969.2	30	55	74	5	8	25	3	7	-	273	112	191	47	71	41	34	1
974.1	39	64	62	6	4	20	14	6	24	166	64	299	40	40	50	32	1
979.2	66	65	72	17	4	309	8	12	11	47	31	112	51	36	44	34	1

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey D															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
1.5	8160	12030	4880	387	188	326	206	145	158	137	147	158	1190	539	698	532	8
3.3	6490	7700	2380	186	138	242	140	172	158	172	180	59	720	580	960	418	7
6.4	470	680	1140	214	197	156	78	178	114	89	190	110	1090	710	1480	289	6
9.5	6300	2360	3450	247	148	425	132	72	35	281	60	60	1080	1080	1660	381	9
11.4	2600	273	497	197	186	215	421	135	66	365	161	53	640	880	670	297	8
12.5	1280	534	2060	344	119	294	96	93	87	69	69	20	820	780	560	238	8
14.4	2760	1310	1720	230	250	233	152	124	77	141	65	39	600	1020	1010	313	7
17.7	2250	2600	2720	221	201	493	114	96	93	55	82	36	750	670	880	312	7
20.5	1370	608	2380	325	259	572	89	98	180	34	64	500	830	1310	930	353	10
20.8	1560	523	1780	238	172	339	30	78	198	46	46	93	810	910	1330	261	7
21.8	1973	477	2720	195	214	410	50	75	84	27	38	34	690	540	1180	226	7
22.9	1850	960	1780	520	346	561	48	118	169	269	46	18	1290	1660	1350	357	10
25.5	1010	1530	1530	178	173	455	101	82	99	26	23	13	466	602	1040	208	7
25.8	1120	1290	1410	122	201	332	115	67	122	28	17	20	539	640	800	203	7
26.4	930	1370	3040	132	204	261	88	88	99	15	19	20	425	480	700	191	7
28.3	470	930	1790	130	248	227	73	82	56	17	15	12	450	445	388	150	7
32.9	620	770	930	143	167	210	62	50	49	13	12	11	485	458	505	132	6
37.6	444	614	930	107	219	107	15	32	35	8	8	8	422	423	465	95	6
41.2	481	515	630	118	119	107	33	26	28	10	8	10	502	386	425	94	6
44.8	480	639	514	150	147	201	41	31	38	6	11	30	400	295	313	106	6
48.7	260	345	255	186	156	127	37	48	20	5	13	3	290	320	450	78	6
52.5	150	167	320	108	-	-	32	38	19	4	10	6	179	173	222	54	1
56.4	133	144	137	-	201	105	31	24	24	23	5	5	225	275	152	58	1
60.3	357	161	279	99	162	192	28	22	49	5	10	7	205	190	190	69	2
66.4	318	228	166	205	125	143	38	35	48	34	20	21	298	209	150	94	2
66.9	437	167	130	228	135	117	63	-	70	26	17	25	237	304	145	104	2
70.7	246	173	231	730	124	179	142	51	53	14	20	26	150	115	238	104	2
71.8	429	158	192	305	206	198	552	422	47	18	28	26	147	172	113	132	4
74.9	222	144	608	153	93	175	120	25	25	13	8	12	80	120	153	71	1
80.2	432	247	178	185	219	162	32	55	24	6	5	7	98	86	133	65	2
85.6	178	219	166	140	153	147	19	25	12	7	7	4	108	54	64	46	0
91.2	256	206	153	86	84	96	254	11	860	10	10	24	68	78	260	81	4
94.2	184	180	304	99	101	67	82	210	272	5	7	20	101	61	143	78	2
97.8	222	125	138	121	105	127	590	331	602	93	21	19	127	83	84	124	3

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey D															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
102.6	354	96	152	96	119	118	150	75	96	16	9	21	98	84	78	76	1
107.7	129	202	219	137	116	82	10	12	19	7	6	10	72	96	64	43	0
113.0	236	236	236	144	108	116	47	13	13	8	10	5	122	63	57	50	0
118.3	137	236	225	72	121	99	12	9	4	5	7	6	47	93	56	35	0
123.7	133	137	166	75	111	96	12	9	4	2	4	3	46	64	74	28	0
124.9	128	135	121	80	105	80	10	7	4	5	3	3	65	62	55	27	0
129.1	123	112	117	99	104	88	277	26	41	8	5	6	64	48	52	48	1
133.4	119	74	117	65	65	72	147	75	101	6	6	6	131	51	24	47	0
138.7	123	91	80	84	75	86	124	11	8	614	3	14	231	50	30	51	1
144.2	96	101	114	73	50	54	22	20	3	12	7	6	58	26	32	29	0
149.6	91	88	62	38	52	57	6	4	7	14	6	2	28	23	79	21	0
155.0	47	89	51	40	48	46	3	3	1	3	3	5	120	21	29	15	0
160.4	25	35	23	41	72	53	26	20	19	5	3	11	35	32	63	23	0
165.8	29	17	15	44	63	49	25	7	6	2	3	2	56	59	31	16	0
171.2	10	15	15	21	50	30	14	17	9	<1	3	3	53	71	60	18	0
175.1	17	20	21	24	60	65	11	6	12	4	5	1	93	119	59	18	0
179.4	15	18	26	16	34	56	8	5	15	1	6	5	62	64	93	16	0
183.5	26	36	11	24	26	44	11	5	16	3	5	5	77	69	91	18	0
185.9	32	30	14	21	27	37	38	21	19	7	6	5	40	61	60	22	0
190.8	18	15	17	20	40	26	20	19	19	5	5	3	61	50	56	18	0
195.7	17	11	7	14	22	28	30	20	15	1	10	2	70	74	55	15	0
200.7	17	16	10	20	27	31	35	38	34	<1	2	4	48	50	34	20	0
205.7	24	24	11	20	21	21	17	23	17	10	2	4	56	42	38	17	0
210.7	15	10	14	17	19	20	8	15	13	<1	1	4	45	35	40	13	0
215.7	12	15	38	26	11	29	5	6	5	<1	1	2	44	49	38	12	0
220.4	18	12	24	29	20	16	6	2	13	<1	<1	4	48	52	39	15	0
225.4	19	20	14	20	13	13	11	4	5	10	<1	2	51	44	47	14	0
230.4	16	11	15	36	26	13	5	5	5	2	2	1	56	54	45	11	0
235.6	34	11	33	31	24	20	3	2	5	10	4	5	57	52	62	14	0
240.4	24	24	32	37	60	54	4	5	2	5	2	5	64	63	99	16	0
245.4	31	26	26	31	33	23	6	1	2	3	2	7	84	74	160	14	0
250.4	26	25	99	36	30	23	5	5	36	8	3	2360	51	54	80	30	1
255.5	22	31	56	32	35	60	5	2	56	15	28	21	40	96	543	31	1
260.6	24	22	26	21	23	36	11	13	8	3	9	8	64	219	158	22	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey D																Geometric	
Mile Point	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
265.7	34	28	36	46	23	38	13	6	23	17	14	31	89	53	52	28	0
269.8	133	25	28	308	39	30	26	23	56	4	6	50	360	101	202	47	2
275.2	60	38	28	79	91	60	18	22	34	1	<1	9	71	96	68	33	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey E															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
630.0	194	242	108	324	249	234	261	329	276	38	44	26	76	22	11	104	6
631.6	284	219	91	302	595	272	342	221	248	44	44	31	58	23	12	111	6
637.6	198	228	264	337	387	409	248	266	401	62	30	28	18	11	16	107	7
643.1	377	340	221	365	335	378	214	180	272	59	36	35	15	7	11	101	6
648.9	261	141	250	335	196	260	206	185	263	39	53	54	15	13	14	95	5
654.0	200	228	461	282	505	192	192	178	260	25	38	33	7	13	5	85	4
659.2	148	162	126	302	254	180	194	141	204	21	32	17	11	12	5	65	2
664.2	125	242	141	305	302	238	236	219	196	14	32	31	9	12	9	75	3
669.1	238	249	185	245	337	227	237	153	276	31	24	24	9	11	5	77	4
674.5	152	248	84	319	363	152	170	354	143	18	26	18	7	7	9	66	4
680.4	124	120	84	354	238	101	185	313	135	15	18	35	10	6	13	61	2
685.6	88	108	77	185	194	199	199	215	148	20	19	24	13	7	18	60	0
690.7	88	105	82	135	133	105	154	117	228	26	17	29	7	14	7	52	0
695.6	43	91	61	122	142	107	179	221	142	13	17	15	15	16	13	49	0
700.9	53	47	33	62	112	93	190	156	204	19	19	12	16	15	14	44	0
706.2	32	44	30	82	86	58	126	147	172	24	16	19	7	6	7	35	0
711.5	21	31	34	79	131	84	153	115	114	15	17	12	9	6	9	33	0
717.4	36	28	24	96	77	79	142	127	194	12	23	15	7	8	9	34	0
721.5	147	102	162	293	234	330	119	123	114	31	25	20	14	8	14	66	2
727.0	119	96	178	214	308	249	130	79	161	25	19	15	10	13	8	59	2
732.5	166	178	118	291	313	162	145	110	108	22	27	27	11	7	16	66	2
738.8	71	50	63	162	236	192	82	131	93	20	23	16	5	11	5	43	0
742.4	93	111	68	130	152	162	149	137	86	26	12	12	4	6	11	44	0
746.4	76	82	44	84	135	162	111	105	147	25	20	24	5	6	6	42	0
750.6	67	65	50	93	140	156	101	114	143	28	15	15	6	4	7	39	0
754.8	29	53	68	49	113	133	184	238	196	22	23	24	7	8	11	44	0
758.0	55	70	43	120	99	110	128	120	166	24	28	15	2480	10	8	64	1
763.2	39	29	40	84	54	109	214	83	179	23	23	18	15	3	5	35	0
769.1	34	34	33	121	73	84	228	112	153	21	23	18	2	4	7	33	0
773.6	15	27	22	82	78	82	148	148	259	11	15	15	10	3	6	30	1
778.2	31	26	29	93	127	93	89	117	123	26	33	23	7	6	5	35	0
782.8	22	20	31	63	107	105	178	133	197	25	22	25	7	7	25	39	0
787.0	22	22	34	38	64	122	140	153	172	23	12	20	16	9	9	35	0
792.7	17	17	11	89	84	60	161	225	140	25	39	25	10	6	24	36	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey E															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
794.2	43	23	20	137	86	114	33	206	120	20	19	50	12	14	1120	53	1
800.0	110	30	22	99	99	91	236	186	331	14	25	19	62	560	1350	92	3
805.8	24	27	31	76	115	76	148	192	185	24	18	24	15	12	26	43	0
811.3	81	34	24	82	120	45	185	124	96	140	34	23	229	19	11	59	0
817.0	82	41	32	84	114	118	84	77	81	260	108	10	74	48	68	70	1
823.2	79	59	49	133	122	96	86	78	55	130	117	15	86	54	24	69	0
829.5	81	55	25	76	133	74	133	129	72	43	44	24	60	39	41	60	0
832.2	62	37	28	102	109	69	71	105	75	19	17	18	46	34	21	45	0
837.2	46	41	25	109	101	78	140	108	69	20	12	4	31	41	31	41	0
842.3	45	37	37	62	99	61	47	67	64	19	25	14	43	32	28	40	0
846.5	28	36	28	91	121	32	201	261	128	19	25	25	36	23	35	49	1
851.3	46	38	22	118	147	118	131	124	84	41	19	15	17	26	17	46	0
855.5	44	26	29	96	49	88	118	70	96	34	25	13	30	19	17	40	0
859.7	54	34	15	120	96	47	186	126	86	17	26	13	25	25	18	42	0
864.4	24	42	31	111	118	64	86	178	84	26	26	16	22	15	19	42	0
869.8	40	36	31	104	82	118	124	101	91	17	25	15	38	15	16	43	0
875.7	24	49	24	52	59	86	120	119	60	17	17	12	18	36	16	36	0
880.7	32	30	19	99	33	66	46	50	50	28	14	8	10	7	12	25	0
885.0	37	26	19	47	64	57	82	155	45	13	8	9	8	11	11	26	0
889.2	34	24	24	126	55	68	96	99	57	26	17	15	13	8	10	32	0
891.7	26	20	23	54	39	105	60	39	86	17	13	14	11	12	12	27	0
897.5	34	28	17	51	45	96	17	13	24	15	8	11	5	3	7	17	0
903.2	23	30	16	53	82	59	12	16	12	14	10	5	3	7	7	16	0
908.0	34	15	21	53	52	36	27	15	24	16	10	15	5	5	30	19	0
912.6	23	25	19	50	55	43	9	9	10	11	10	8	5	2	11	14	0
917.6	15	25	11	61	44	38	13	12	7	8	11	11	14	4	5	14	0
923.4	8	28	18	58	99	82	11	23	28	2	15	20	1	6	6	15	0
928.2	22	13	26	32	69	145	9	14	36	2	3	12	2	5	8	13	0
932.2	15	18	20	28	35	19	13	22	26	5	7	7	5	5	4	12	0
936.2	52	17	25	42	36	46	24	5	67	2	4	9	48	5	5	16	0
937.7	9	23	22	30	57	46	15	12	23	2	5	14	21	19	8	15	0
940.9	21	11	21	21	33	35	20	18	50	4	5	13	15	15	6	16	0
944.2	21	25	14	31	33	34	13	8	19	4	5	13	29	21	6	15	0
947.5	29	12	13	67	33	29	18	15	31	6	3	7	32	15	15	17	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey E																Geometric	
Mile Point	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
952.2	24	12	25	39	26	70	26	34	31	6	10	46	26	13	7	21	0
957.7	13	8	27	31	33	40	37	20	36	5	4	12	14	10	14	16	0
963.0	29	9	32	24	29	48	54	36	45	2	3	9	26	15	14	18	0
969.2	5	16	30	29	39	46	58	60	34	10	6	15	22	13	18	21	0
974.1	12	10	33	57	62	37	11	44	37	5	20	7	10	7	11	18	0
979.2	8	8	17	30	21	33	27	21	34	4	2	13	114	26	93	19	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey F															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
280.8	11	12	20	210	102	101	206	166	141	12	12	5	7	7	5	28	0
285.9	17	10	14	79	91	53	185	132	90	17	16	9	4	4	7	24	0
291.4	11	22	15	93	88	77	156	131	85	6	5	11	3	3	3	20	0
296.6	19	14	9	82	70	47	101	129	78	11	12	11	3	2	1	18	0
302.0	6	9	7	120	96	70	122	91	77	6	6	6	3	4	2	16	0
307.7	82	11	14	111	86	89	276	57	84	31	14	7	50	28	10	39	1
313.3	185	43	86	187	66	70	424	93	113	72	10	12	34	15	24	58	1
317.2	105	27	18	308	192	47	131	119	51	34	14	39	24	46	34	53	1
321.5	96	53	24	138	76	46	139	56	84	39	21	9	14	26	2	36	0
327.4	47	36	19	81	46	38	120	126	72	13	14	13	3	3	4	24	0
327.7	57	31	42	70	38	41	142	132	81	28	13	14	10	5	4	30	0
328.0	34	20	36	74	56	37	108	104	63	21	11	18	9	4	10	28	0
332.5	18	23	12	50	46	39	82	91	69	18	8	12	5	2	5	19	0
338.1	61	20	8	38	59	36	105	99	53	22	10	17	17	<1	2	26	0
343.5	60	25	18	45	40	44	63	36	52	12	5	9	4	5	5	19	0
349.2	54	29	48	55	46	38	54	55	41	11	7	12	4	11	5	22	0
352.0	39	35	28	35	45	44	55	46	44	13	10	13	1	4	4	18	0
353.8	40	27	33	42	53	46	47	61	75	7	6	9	4	4	2	18	0
359.3	26	34	28	44	45	45	66	52	66	5	7	15	3	2	11	19	0
364.6	38	19	46	32	28	63	46	53	82	6	5	15	4	1	4	17	0
369.8	15	13	38	24	35	33	36	20	93	10	10	15	10	1	1	14	0
375.0	19	23	42	24	37	30	70	75	82	2	12	12	3	1	5	16	0
380.4	24	22	25	26	34	20	46	67	66	9	4	6	<1	<1	2	18	0
385.4	17	32	21	21	23	22	68	37	42	5	5	3	2	3	<1	13	0
390.6	26	13	15	10	24	29	35	23	39	6	4	8	1	1	<1	11	0
395.0	21	13	12	22	37	19	81	56	28	4	4	4	<1	<1	<1	16	0
400.4	14	22	21	13	14	10	50	35	47	6	10	11	<1	1	4	12	0
405.8	21	15	15	16	10	13	17	36	192	4	8	22	5	2	6	13	0
411.4	26	26	8	7	5	21	36	34	45	7	6	10	2	3	10	11	0
416.4	46	27	14	7	7	6	30	28	35	2	5	6	<1	1	10	10	0
421.6	30	19	12	5	6	5	32	38	45	5	5	9	3	1	<1	10	0
426.4	12	28	15	6	4	7	25	19	20	5	7	5	6	<1	3	9	0
431.4	17	13	<10	7	7	3	21	17	19	8	3	5	4	<1	10	9	0
436.8	23	14	21	7	3	<1	23	18	31	7	10	1	7	5	3	9	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey F															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
441.5	21	16	15	3	3	5	35	22	29	7	6	4	<1	3	1	8	0
446.5	24	16	9	3	7	3	26	32	24	2	5	5	5	6	5	8	0
451.6	11	5	<10	6	6	13	19	15	21	4	1	4	5	<1	6	7	0
455.3	10	14	5	9	5	5	16	19	16	7	8	3	2	1	3	6	0
460.0	11	15	10	1	2	7	22	15	32	5	6	4	2	<1	1	6	0
465.4	17	11	13	13	4	15	11	29	31	<1	4	13	3	1	15	9	0
468.7	11	9	12	5	3	25	19	33	24	2	4	10	14	1	2	8	0
472.7	70	66	14	34	12	19	66	44	45	59	14	6	29	8	2910	36	1
477.6	33	24	44	14	13	35	46	49	36	30	18	86	42	175	434	42	1
482.2	46	39	41	11	30	24	54	34	48	13	10	15	58	261	181	36	1
486.2	50	36	34	18	16	35	34	47	53	11	11	35	7	148	64	30	0
489.7	41	46	49	11	15	13	31	70	44	12	18	18	15	45	68	27	0
493.2	33	41	50	14	17	25	42	54	39	15	20	27	11	46	41	28	0
498.0	28	22	47	18	6	43	22	19	33	19	25	44	2	30	91	23	0
503.1	24	21	20	14	18	15	21	21	13	24	40	28	<1	2	3	15	0
508.3	9	13	24	6	5	16	21	14	20	13	11	12	1	20	5	10	0
513.4	20	17	18	10	6	12	9	11	13	3	5	6	1	2	3	7	0
518.5	13	24	6	5	3	16	17	9	14	6	15	7	5	<1	10	9	0
523.4	12	12	9	11	5	11	9	13	7	3	2	2	<1	<1	4	6	0
528.4	4	12	11	10	5	15	13	7	11	7	4	3	<1	1	2	6	0
533.2	19	24	11	7	10	7	10	5	12	4	5	4	<1	5	2	7	0
538.5	19	9	17	11	12	11	8	8	10	3	5	6	3	<1	10	8	0
543.5	15	7	15	10	6	10	7	11	18	5	5	12	2	2	11	8	0
548.3	36	9	10	13	5	6	119	12	11	12	5	<1	5	<1	7	11	0
553.6	28	12	6	9	6	6	75	10	8	16	4	7	3	2	1	7	0
558.8	10	5	13	8	7	11	52	11	13	6	5	5	6	3	2	8	0
562.7	15	7	9	4	7	3	30	10	7	13	6	5	4	3	2	6	0
567.6	7	5	5	11	5	5	26	6	5	10	5	6	6	5	4	7	0
572.5	15	6	6	5	4	7	30	10	6	6	1	2	2	<1	2	5	0
577.4	6	24	6	5	4	9	36	7	10	7	2	5	<1	3	1	6	0
582.9	5	6	1	15	4	6	31	13	14	6	2	4	3	<1	<1	6	0
587.8	6	2	5	7	2	6	28	13	21	7	2	3	<1	1	<1	5	0
592.2	4	5	6	7	5	2	28	8	14	3	3	1	3	1	10	5	0
597.1	7	3	8	3	7	8	36	11	8	4	1	2	1	<1	1	4	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey F															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
602.2	13	4	7	5	5	5	21	9	15	7	3	5	2	3	<1	6	0
604.3	17	2	7	34	10	3	20	22	17	17	2	5	1	3	1	6	0
607.5	20	6	9	15	6	7	30	12	21	41	10	30	3	2	10	11	0
609.7	52	7	3	11	13	7	21	12	16	24	25	28	6	10	14	13	0
612.2	20	4	11	84	8	8	24	15	14	58	29	56	12	4	8	16	0
617.6	36	7	10	21	7	8	42	20	16	13000	162	16	81	67	5	32	1
623.1	18	13	7	17	10	5	44	15	26	326	35	19	46	17	10	20	1
628.1	23	11	12	60	10	11	57	19	15	2760	17	16	184	19	20	30	1

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey G															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
280.8	36	24	31	11	15	12	55	44	43	8	13	5	7	1	5	14	0
285.9	11	24	15	11	15	8	36	33	32	5	8	10	1	1	3	9	0
291.4	26	30	19	4	4	5	18	24	25	2	6	4	10	3	3	8	0
296.6	19	13	21	5	5	12	19	28	26	6	7	6	2	1	3	8	0
302.0	11	11	14	5	10	7	14	24	16	1	3	<1	<1	1	<1	7	0
307.7	21	19	12	126	24	5	37	22	25	162	2	6	139	135	7	24	0
313.3	12	10	6	286	22	28	114	22	59	245	247	96	28	55	98	48	3
317.2	56	11	7	234	12	7	147	55	29	502	367	291	84	27	17	51	3
321.5	59	15	16	93	89	34	199	144	53	241	201	230	25	23	7	58	1
327.4	7	12	26	56	-	27	118	64	43	179	361	204	5	7	7	35	1
327.7	16	11	15	79	46	24	138	50	36	423	260	273	7	5	5	37	3
328.0	22	13	14	63	53	54	96	105	51	282	248	167	11	6	17	44	2
332.5	26	13	75	15	44	59	111	99	69	138	108	86	3	5	2	31	0
338.1	12	24	11	46	34	25	66	67	76	104	121	77	1	1	<1	25	0
343.5	21	29	29	26	39	29	58	52	38	68	84	60	8	2	3	25	0
349.2	17	16	36	40	28	28	80	47	50	50	67	47	2	1	17	23	0
352.0	18	18	28	24	32	24	46	43	68	69	68	45	5	2	6	23	0
353.8	18	16	35	22	25	30	63	53	77	58	54	83	6	2	11	26	0
359.3	23	10	32	24	29	26	52	130	340	53	52	84	9	38	61	41	1
364.6	21	23	24	24	30	35	62	58	155	42	50	39	4	18	8	29	0
369.8	15	12	28	11	25	29	93	86	130	65	44	23	3	1	3	19	0
375.0	11	14	40	19	13	13	58	88	114	20	12	14	10	6	4	18	0
380.4	12	23	28	8	12	15	58	84	115	8	15	25	6	13	15	20	0
385.4	23	16	12	8	8	2	88	118	56	16	20	7	1	3	6	12	0
390.6	13	17	17	6	6	10	93	56	82	3	14	14	8	7	5	14	0
395.0	14	24	17	9	4	5	55	96	60	21	21	16	<1	4	1	14	0
400.4	12	11	12	3	3	5	42	31	46	16	37	17	<1	<1	2	12	0
405.8	14	15	9	2	5	14	110	34	84	14	19	25	7	10	22	16	0
411.4	13	9	7	5	12	2	40	34	58	32	18	16	13	8	8	13	0
416.4	7	10	10	5	3	5	50	31	46	12	12	18	4	3	2	9	0
421.6	11	8	3	11	3	4	54	71	40	13	14	8	<1	<1	1	10	0
426.4	15	14	5	1	1	3	50	44	29	20	11	11	4	<1	4	8	0
431.4	2	4	4	3	5	2	34	47	15	14	10	6	2	1	10	6	0
436.8	11	9	9	5	5	4	76	72	24	-	-	-	-	-	-	13	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey G															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
441.5	6	8	4	3	3	2	76	44	44	-	-	-	2	3	2	6	0
446.5	9	10	12	3	4	3	62	91	43	6	14	5	1	2	1	7	0
451.6	4	3	6	2	2	3	58	68	34	6	14	32	1	1	3	6	0
455.3	4	5	6	1610	131	1350	42	55	40	10	13	7	4	4	4	22	2
460.0	4	6	6	3	1260	390	26	52	26	11	13	3	3	2	10	14	2
465.4	5	5	46	5	4	34	44	53	37	14	13	12	1	1	8	10	0
468.7	6	3	28	16	1	10	51	37	56	14	10	11	18	18	13	13	0
472.7	13	5	92	19	13	64	66	52	54	24	56	34	96	60	199	40	0
477.6	19	15	98	9	10	28	42	39	49	29	20	61	67	68	96	34	0
482.2	41	66	199	13	15	14	50	34	28	34	108	75	510	544	364	66	3
486.2	34	53	76	14	8	33	34	55	55	25	53	30	595	580	880	61	3
489.7	27	70	36	8	6	17	41	66	32	19	40	24	38	40	26	27	0
493.2	32	47	46	13	68	88	46	52	64	18	17	24	18	29	26	34	0
498.0	12	15	86	13	33	46	49	46	36	24	33	27	38	36	23	30	0
503.1	24	28	28	10	7	9	58	42	46	33	28	14	11	17	18	21	0
508.3	10	9	38	3	3	5	40	42	43	20	17	18	3	6	36	13	0
513.4	16	21	25	6	10	4	28	24	29	24	32	19	2	1	3	11	0
518.5	10	18	37	2	6	12	32	43	18	12	24	11	2	1	11	10	0
523.4	15	16	28	5	4	6	23	20	23	7	19	23	3	1	2	9	0
528.4	10	13	15	12	3	2	32	27	25	18	13	11	5	2	<1	10	0
533.2	6	14	15	4	5	2	26	28	46	15	17	22	4	2	1	8	0
538.5	13	15	14	1	5	3	26	29	35	6	13	15	<1	5	3	9	0
543.5	10	12	12	5	4	3	38	36	45	6	10	3	<1	<1	2	9	0
548.3	12	10	11	5	20	2	16	29	13	44	12	2	5	1	3	8	0
553.6	2	6	10	1	3	4	13	17	23	22	16	6	46	1	2	6	0
558.8	5	15	9	1	1	1	16	28	20	12	14	3	4	10	<10	6	0
562.7	10	21	214	7	7	2	17	24	19	10	11	10	3	2	5	10	0
567.6	9	56	19	1	6	3	16	20	10	11	8	5	1	1	1	6	0
572.5	5	13	8	2	2	6	11	17	17	11	10	4	28	20	1	7	0
577.4	8	5	5	3	1	1	16	25	20	17	5	11	2	4	2	5	0
582.9	17	8	4	1	<1	2	18	10	14	11	12	5	29	1	<1	7	0
587.8	5	5	4	2	<1	1	7	11	10	11	3	12	14	8	12	6	0
592.2	4	5	7	1	<1	27	24	19	18	10	3	5	32	6	3	8	0
597.1	5	10	11	44	1	2	16	15	18	1	3	9	22	10	15	8	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey G															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
602.2	12	5	19	3650	4	4	29	28	14	5	10	9	22	28	29	18	1
604.3	293	6	15	2280	3	214	620	21	26	69	5	9	200	43	37	47	3
607.5	840	64	17	1010	93	150	411	42	31	15	6	3	49	41	13	51	3
609.7	460	356	52	528	467	1080	249	93	150	11	17	14	162	86	82	123	6
612.2	17330	156	53	890	119	4350	231	30	192	43	8	11	185	56	240	157	3
617.6	3080	498	161	>24192	1280	276	1240	99	74	12	18	6	680	710	411	204	8
623.1	4350	148	180	790	276	162	860	80	115	23	6	2	1260	415	68	146	6
628.1	13000	161	214	9210	104	1200	1860	93	291	15	7	2	541	465	44	209	7
631.6	15530	1670	133	9800	1790	132	3970	279	178	-	-	-	545	568	186	819	8
637.6	9800	7700	800	8160	7700	4610	4610	1260	98	-	-	-	1120	1520	1300	2301	11
643.1	93	553	98	1050	2760	780	3450	2810	2380	-	-	-	46	155	65	472	7
648.9	-	-	-	178	232	375	59	49	31	-	-	-	66	131	35	91	1

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey H															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
607.5	40	39	34	24	8	7	7	10	10	15	14	20	162	122	51	23	0
609.7	50	37	30	16	16	15	4	4	8	19	14	19	219	114	75	23	0
612.2	41	30	46	20	7	29	6	6	6	17	15	34	307	144	86	26	1
617.6	144	24	16	32	9	15	10	15	16	72	81	93	1780	1520	1310	63	3
623.1	66	22	12	48	13	20	8	7	7	150	36	30	4160	1150	346	49	3
628.1	79	14	11	55	19	11	9	6	8	210	35	44	3650	1990	179	49	2
631.6	130	11	8	75	13	16	12	13	5	98	82	37	1350	1470	1410	54	3
637.6	140	30	64	26	16	15	4	2	3	60	73	46	880	930	990	45	3
643.1	52	79	108	23	25	18	1	2	2	33	52	114	148	210	140	30	0
648.9	59	127	50	14	15	15	18	1	4	60	45	36	26	26	15	21	0
654.0	154	57	53	6	9	11	4	3	3	26	27	40	10	17	15	15	0
659.2	78	54	194	12	9	15	1	2	7	23	25	26	8	12	12	15	0
664.2	158	135	192	13	8	13	<1	1	3	36	25	24	1	1	4	12	0
669.1	387	204	220	22	19	12	<1	2	3	31	34	21	4	7	3	19	1
674.5	153	319	325	10	12	14	<1	2	<1	6	6	12	5	2	2	13	2
680.4	70	225	142	15	19	12	1	3	1	11	4	9	3	2	2	9	0
685.6	126	141	73	18	30	15	1	2	<1	5	3	5	3	1	1	8	0
690.7	107	74	76	10	25	8	<1	1	4	3	<1	4	3	1	2	8	0
695.6	-	24	20	7	5	4	2	<1	<1	3	1	1	<1	3	3	4	0
700.9	96	167	84	12	15	16	3	2	3	4	6	6	4	1	2	8	0
706.2	64	63	77	4	5	6	<1	<1	2	9	6	5	3	1	1	7	0
711.5	41	32	37	7	5	3	4	10	20	4	2	5	3	2	2	6	0
717.4	15	22	22	5	3	20	3	1	1	2	1	5	3	<1	1	4	0
721.5	-	-	-	6	11	5	2	2	3	8	12	5	2	<1	<1	4	0
727.0	34	30	20	3	3	3	6	2	2	10	5	16	<1	3	2	6	0
732.5	26	25	23	7	5	3	6	5	6	15	424	194	8	9	7	14	1
738.8	15	17	28	7	5	10	3	2	3	28	66	61	5	9	5	10	0
742.4	28	25	30	6	4	10	<1	10	1	10	25	28	4	9	3	9	0
746.4	19	19	28	7	5	9	1	1	3	2	5	6	2	4	9	5	0
750.6	51	34	102	7	5	5	4	3	4	3	3	12	13	11	14	9	0
754.8	73	30	96	6	3	7	<1	1	3	91	7	6	10	8	10	11	0
758.0	44	28	45	11	2	3	91	2	6	1100	550	890	9	10	8	26	3
763.2	58	26	59	99	19	13	910	890	960	124	93	80	4	5	5	56	3
769.1	219	57	61	172	22	12	5	3	12	44	30	6	4	6	1	16	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey H															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
773.6	110	70	34	44	96	21	3	<1	1	7	10	15	15	1	3	13	0
778.2	67	76	45	15	26	15	5	2	3	30	33	28	4	10	7	15	0
782.8	70	50	48	5	13	12	5	3	11	93	166	238	2	5	7	18	0
787.0	63	40	45	8	9	17	3	<1	2	23	17	30	<1	4	14	14	0
792.7	135	99	54	6	9	7	3	2	2	116	102	249	4	1	5	14	1
794.2	73	81	84	10	6	13	4	1	25	31	42	840	44	13	44	25	1
799.5	61	77	72	13	13	9	3	1	5	600	3450	1250	12	12	9	31	3
805.8	84	80	46	7	5	12	10	3	5	1250	860	1550	13	12	17	34	3
811.3	51	45	66	154	5	3	126	12	3	188	84	34	234	365	93	45	1
817.0	20	28	29	33	13	5	17	9	4	46	43	27	32	24	27	19	0
823.2	156	46	50	19	15	7	8	7	10	27	11	22	6	18	8	17	0
829.5	101	78	46	7	5	8	8	1	10	11	8	16	9	19	13	12	0
832.2	49	46	59	16	18	22	12	21	29	25	28	86	29	26	33	29	0
837.2	79	55	34	8	8	12	18	15	29	36	72	73	4	5	12	20	0
842.3	49	53	24	10	3	15	15	11	8	14	24	25	5	3	3	12	0
846.5	33	51	30	9	10	8	7	13	8	46	50	35	5	2	12	14	0
851.3	33	51	30	3	6	4	6	<1	5	133	162	178	4	5	5	15	0
855.5	29	29	15	5	2	3	4	4	4	93	50	72	5	3	5	10	0
859.7	34	26	14	2	4	7	3	1	5	21	14	17	4	2	8	7	0
864.4	30	52	13	9	2	1	<1	<1	2	13	15	19	5	1	1	6	0
869.8	39	24	17	5	3	1	1	<1	1	4	6	8	3	3	1	4	0
875.7	30	26	11	<1	3	2	1	1	2	8	4	5	7	5	5	5	0
880.7	24	15	12	2	<1	2	<1	2	<1	4	3	4	7	5	4	5	0
885.0	24	8	5	3	3	3	2	<1	<1	3	5	<1	10	4	2	4	0
889.2	22	7	9	<1	1	4	1	<1	<1	2	10	3	2	<1	<1	4	0
891.7	31	13	6	<1	3	1	<1	<1	1	2	2	3	1	1	1	3	0
897.5	14	8	11	3	1	1	12	4	2	2	2	<1	11	3	2	4	0
903.2	17	4	4	2	1	1	<1	<1	<1	1	3	1	1	<1	1	2	0
908.0	11	5	3	1	<1	<1	1	4	1	<1	<1	10	<1	1	1	2	0
912.6	16	5	4	2	<1	<1	1	2	2	<1	1	3	1	<1	<1	2	0
917.6	6	7	3	1	1	2	2	<1	<1	<1	2	2	1	<1	<1	2	0
923.4	7	10	5	6	2	1	5	1	3	3	<1	<1	1	2	<1	3	0
928.2	4	7	5	13	4	1	3	3	1	3	<10	10	4	2	2	3	0
932.2	5	5	2	10	8	1	1	<1	1	2	<1	1	5	2	1	2	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey H															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
936.2	40	4	15	10	1	5	18	<1	5	3	2	2	22	25	1	6	0
937.7	8	11	6	2	3	5	10	2	5	2	2	1	18	7	4	4	0
940.9	20	11	11	3	4	4	6	6	6	15	2	5	7	7	4	6	0
944.2	40	3	5	2	3	4	6	6	3	4	3	4	2	2	6	4	0
947.5	15	4	5	7	1	1	13	5	3	2	3	3	7	5	7	4	0
952.2	14	11	8	3	3	1	7	4	10	3	3	<1	7	5	3	5	0
957.7	5	5	11	7	3	7	4	8	3	2	<1	<1	5	4	3	5	0
963.0	-	-	-	4	2	2	10	5	3	4	1	2	4	6	4	3	0
969.2	-	-	-	3	5	4	4	5	4	3	5	5	17	7	8	5	0
974.1	-	-	-	7	4	1	5	12	5	5	11	3	12	22	5	6	0
979.2	-	-	-	9	1	24	151	3	41	14	1	37	15	12	11	11	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey I															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
1.5	31	46	34	104	79	108	39	33	30	63	51	162	46	54	43	54	0
3.3	34	21	500	108	86	620	34	30	141	88	67	276	46	33	211	88	3
6.4	28	32	53	128	144	154	25	26	39	64	98	56	62	91	49	59	0
9.5	20	24	40	66	96	104	25	33	67	116	68	75	20	37	51	48	0
11.4	25	18	38	52	75	313	34	39	29	82	55	77	44	44	57	50	1
12.5	24	32	81	125	147	480	18	45	46	84	59	79	33	28	70	60	1
14.4	31	20	31	99	75	397	27	37	71	79	68	84	32	40	67	56	1
17.7	24	31	47	187	304	277	31	25	39	93	86	120	26	40	73	64	2
20.5	27	25	50	105	112	192	28	16	39	78	84	108	35	38	31	51	0
20.8	18	30	44	112	126	199	29	24	28	88	73	75	26	54	33	50	0
21.8	19	30	30	83	96	153	15	23	24	64	64	124	15	31	25	40	0
22.9	219	404	263	107	78	291	28	21	363	570	98	156	50	36	82	120	5
25.5	15	24	70	69	62	209	22	28	50	137	70	107	30	20	37	48	0
25.8	14	24	51	108	55	443	24	22	47	81	58	740	25	29	45	55	2
26.4	19	26	56	120	76	309	36	44	60	82	162	186	25	30	28	59	1
28.3	28	34	53	114	118	283	31	46	47	429	119	342	34	28	40	73	3
32.9	12	21	24	61	70	84	47	46	35	360	370	522	18	26	23	55	3
37.6	17	21	29	50	59	34	45	50	34	435	437	607	27	31	16	55	3
41.2	19	18	30	55	44	147	28	47	34	370	383	611	16	10	16	51	3
44.8	22	15	26	57	39	83	20	34	22	566	527	1130	18	15	29	52	3
48.7	19	44	26	68	51	78	16	23	15	910	740	960	30	13	13	54	3
52.5	19	15	24	46	33	39	10	8	11	1170	1140	1140	5	7	12	36	3
56.4	18	27	15	39	23	20	19	16	11	1090	1200	720	14	5	11	37	3
60.3	20	15	572	20	36	261	10	13	312	860	1140	730	13	5	166	74	6
66.4	37	27	147	47	62	199	51	30	39	535	466	547	186	23	48	88	3
68.2	86	28	114	86	45	124	56	32	67	478	506	535	76	28	187	99	3
70.7	70	37	34	62	60	42	43	55	49	453	400	536	40	33	43	73	3
71.8	58	34	93	64	81	66	37	24	52	397	348	408	25	43	61	74	3
74.9	30	21	26	60	91	86	29	18	30	258	178	178	30	21	24	48	1
80.2	20	22	29	51	31	50	25	17	18	141	156	133	22	18	25	36	0
85.6	19	11	11	44	25	49	18	26	18	84	147	114	28	25	18	31	0
91.2	118	46	45	28	28	93	27	17	15	86	133	108	33	17	179	48	0
94.2	11	21	53	34	27	138	13	11	33	126	78	107	25	28	51	36	0
97.8	13	21	44	99	66	78	15	24	14	125	107	96	32	22	37	40	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Mile Point	Survey I															Geometric	
	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
102.6	10	17	16	107	71	42	18	11	16	96	101	60	28	26	26	32	0
107.7	36	32	29	27	41	22	8	10	14	63	61	57	24	25	14	26	0
113.0	19	8	15	67	44	46	7	5	10	55	49	35	24	33	22	22	0
118.3	14	5	8	31	34	26	16	6	11	17	26	17	15	15	12	15	0
123.7	13	9	6	16	15	15	13	14	5	16	30	15	10	10	16	13	0
124.9	13	12	10	22	26	19	4	7	11	8	14	14	13	10	11	12	0
129.1	10	12	26	18	19	18	10	6	20	13	17	15	16	14	17	15	0
133.4	23	22	25	28	15	24	22	22	14	26	15	12	52	20	14	21	0
138.7	25	25	12	19	18	12	11	11	6	26	11	5	12	12	17	13	0
144.2	32	7	12	13	16	14	8	19	11	26	25	10	16	9	12	14	0
149.6	12	11	24	17	15	8	5	2	10	38	15	8	20	18	9	12	0
155.0	28	13	13	5	6	8	9	4	4	20	14	12	15	5	10	9	0
160.4	191	24	24	9	12	8	10	11	10	10	7	10	13	9	11	14	0
165.8	5736	48	19	22	15	9	5	9	9	8	9	3	10	11	5	16	1
171.2	115	26	46	8	12	13	6	5	15	7	8	12	5	5	10	12	0
175.1	41	35	78	16	11	13	16	14	10	16	29	16	13	15	15	19	0
179.4	57	43	47	12	13	18	15	23	12	7	16	14	11	7	17	17	0
183.5	41	21	22	11	10	9	22	22	15	13	20	16	9	15	13	16	0
185.9	186	31	128	17	5	15	18	17	22	17	23	29	31	23	41	27	0
190.8	140	110	310	13	12	23	25	24	31	20	15	15	20	18	22	30	1
195.7	47	48	30	24	23	27	15	18	23	15	14	10	25	15	23	22	0
200.7	14	18	24	12	14	15	24	19	25	12	12	8	13	27	34	17	0
205.7	680	490	419	15	17	21	27	20	19	1370	1380	520	960	509	228	157	8
210.7	910	647	500	15	17	12	16	29	27	2360	1210	373	910	210	590	162	8
215.7	960	500	1370	16	12	16	34	23	20	2280	3080	2100	215	104	600	179	7
220.4	1550	990	1300	8	15	13	26	18	19	1660	1470	1670	649	236	276	176	8
225.4	1250	1080	1480	16	8	8	31	15	34	2190	3080	3450	108	72	126	156	6
230.4	830	1020	930	14	15	16	41	31	34	770	332	550	86	59	80	113	6
235.6	2190	1200	2380	9	12	8	25	28	34	2100	1300	1290	91	75	21	132	6
240.4	1080	1550	2100	15	18	15	25	25	28	900	810	1200	83	55	45	129	6
245.4	1660	1400	1610	13	16	19	34	19	31	820	820	840	306	84	104	150	7
250.4	1400	1260	1500	17	20	13	27	44	28	2140	660	527	1620	395	471	213	9
255.5	1660	1491	1520	13	13	15	38	30	38	2060	2010	2490	960	1420	1350	288	9
260.6	1720	1610	1860	15	12	24	39	41	38	1550	2380	1780	610	526	461	256	9

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey I																Geometric	
Mile Point	Week 1			Week 2			Week 3			Week 4			Week 5			Mean	# > SS Max
	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB	LDB	MID	RDB		
265.7	1940	1680	1990	15	14	21	63	67	43	2480	990	910	1160	880	910	294	9
269.8	3080	1400	1300	36	46	24	59	64	82	96	175	700	487	1120	494	227	7
275.2	3260	1480	1560	21	25	16	48	73	58	153	166	152	228	144	212	148	3
280.8	1990	2480	1080	25	25	30	77	67	63	115	115	433	173	141	382	164	5
285.9	1550	1520	1300	22	32	29	73	88	65	515	72	601	278	200	700	195	7
291.4	1520	1550	910	21	18	22	46	74	57	599	199	295	369	186	510	175	7
296.6	1500	1520	1120	35	20	19	56	47	52	365	41	210	487	275	130	145	6

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 mL

E. coli individual sample not to exceed 240 colonies/ 100 mL

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey L				
Mile Point	LDB	MID	RDB	#> SS Max
1.5	6	6	3	0
3.3	20	15	12	0
12.5	16	8	2	0
22.9	172	6	21	0
25.5	14	6	2	0
25.8	16	15	21	0
26.4	14	16	16	0
28.3	12	13	11	0
32.9	5	9	3	0
37.6	2	4	5	0
41.2	3	<1	<1	0
48.7	2	5	10	0
52.5	2	1	3	0
66.4	37	38	28	0
68.2	24	43	133	0
74.9	9	15	5	0
80.2	3	5	3	0
85.6	13	11	8	0
91.2	5	3	6	0
94.2	5	1	3	0
97.8	4	2	3	0
102.6	7	7	10	0
107.7	1	2	<1	0
113	2	3	2	0
118.3	1	2	1	0
123.7	<1	2	3	0
129.1	30	6	1	0
138.7	2	1	1	0
149.6	2	2	1	0
155	<1	1	2	0
165.8	5	5	5	0
171.2	1	2	5	0
175.1	3	7	5	0
183.5	2	<1	1	0
185.9	1	4	7	0
190.8	1	3	10	0
195.7	3	1	<1	0
200.7	<1	1	2	0
205.7	8	1	3	0
210.7	1	<1	2	0
215.7	3	3	4	0
220.4	1	1	<1	0
225.4	<1	6	2	0
230.4	4	<1	1	0
235.6	<1	3	<1	0
245.4	3	4	2	0
250.4	3	5	223	0
255.5	7	5	8	0
260.6	7	2	3	0
265.7	5	4	10	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 ml

E. coli individual sample not to exceed 240 colonies/ 100 ml

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey L				
Mile Point	LDB	MID	RDB	#> SS Max
269.8	2	9	50	0
275.2	5	1	4	0
280.8	15	6	14	0
285.9	2	3	3	0
291.4	<1	1	2	0
302	1	2	12	0
302	2	2	3	0
307.7	26	31	18	0
313.3	223	269	12	1
317.2	37	29	34	0
321.5	30	35	31	0
328	24	15	13	0
332.5	3	7	5	0
338.1	4	2	5	0
343.5	1	1	2	0
349.2	3	2	2	0
352	2	3	2	0
353.8	24	3	18	0
359.3	7	10	8	0
364.6	3	8	5	0
369.8	2	2	4	0
375	1	1	2	0
380.4	3	1	1	0
385.4	3	2	1	0
390.6	2	10	1	0
400.4	1	2	1	0
405.8	2	4	6	0
411.4	6	1	3	0
416.4	6	8	4	0
421.6	4	3	1	0
426.4	<1	3	10	0
431.4	2	1	2	0
436.8	2	1	3	0
446.5	1	<1	4	0
451.6	<1	<1	2	0
460	1	<1	4	0
465.4	5	5	8	0
468.7	5	7	4	0
472.7	13	21	10	0
477.6	19	17	19	0
482.2	35	38	25	0
486.2	35	25	15	0
489.7	36	25	16	0
493.2	15	24	17	0
498	50	35	24	0
503.1	21	17	21	0
508.3	8	12	10	0
513.4	21	23	15	0
518.5	1	<10	1	0
528.4	108	<10	-	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 ml

E. coli individual sample not to exceed 240 colonies/ 100 ml

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey L				
Mile Point	LDB	MID	RDB	#> SS Max
533.2	10	3	2	0
538.5	2	<1	1	0
543.5	5	5	2	0
548.3	1	4	1	0
553.6	<1	1	<1	0
567.6	2	<1	3	0
572.5	<1	<1	<1	0
587.8	1	<1	<1	0
592.2	<1	<1	2	0
597.1	<1	<1	<1	0
602.2	1	1	6	0
604.3	3	<1	6	0
607.5	4	4	3	0
609.7	2	11	6	0
612.2	3	2	1	0
617.6	5	8	3	0
623.1	8	6	4	0
628.1	13	13	15	0
631.6	16	6	5	0
637.6	1	3	1	0
643.1	<1	5	2	0
648.9	3	<1	2	0
654	1	<1	<1	0
659.2	2	<1	2	0
664.2	<1	<1	<1	0
669.1	1	<1	<1	0
674.5	2	1	<1	0
680.4	<1	<1	<1	0
690.7	<1	3	1	0
695.6	<1	<1	<1	0
700.9	<1	10	2	0
706.2	1	2	<1	0
711.5	<1	<1	2	0
727	1	10	3	0
732.5	2	10	5	0
742.4	4	1	<1	0
746.4	1	<1	15	0
750.6	10	15	8	0
754.8	<1	1	10	0
758	500	28	2	1
769.1	10	8	8	0
773.6	1	1	1	0
778.2	2	1	<1	0
782.8	<1	<1	4	0
787	<1	1	<1	0
792.7	<1	2	2	0
794.2	6	1	69	0
805.8	9	6	3	0
811.3	11	10	4	0
817	5	4	7	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 ml

E. coli individual sample not to exceed 240 colonies/ 100 ml

Appendix F: E. coli Concentration Data in Colonies per 100 mL

Survey L				
Mile Point	LDB	MID	RDB	#> SS Max
823.2	2	<1	2	0
829.5	2	1	<1	0
837.2	8	3	<1	0
842.3	3	<1	2	0
846.5	4	10	4	0
851.3	3	2	1	0
864.4	2	2	2	0
869.8	3	1	2	0
875.7	2	1	<1	0
880.7	<1	<1	<1	0
885	1	1	<1	0
889.2	2	<1	<1	0
891.7	2	2	1	0
897.5	3	<1	<1	0
903.2	<1	1	<1	0
908	2	<1	1	0
912.6	1	<1	2	0
917.6	<1	<1	2	0
923.4	25	9	2	0
932.2	1	3	<1	0
936.2	1	7	3	0
937.7	4	6	4	0
940.9	2	4	4	0
944.2	2	2	15	0
947.5	4	4	2	0
952.2	2	1	4	0
957.7	2	5	5	0
963	2	4	1	0
969.2	2	5	5	0
974.1	7	7	1	0
979.2	10	15	15	0

Exceeds Criteria

E. coli monthly geometric mean not to exceed 130 colonies/ 100 ml

E. coli individual sample not to exceed 240 colonies/ 100 ml

Appendix G:

Contact Recreation

Sampling Results

2009 OHIO RIVER BACTERIA SAMPLING

FINAL REPORT

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
1.4R	Pittsburgh	12-May-09	1100	500	EXCEEDS
1.4R	Pittsburgh	19-May-09	257	89	
1.4R	Pittsburgh	21-May-09	80	45	
1.4R	Pittsburgh	26-May-09	600	300	EXCEEDS
1.4R	Pittsburgh	28-May-09	520	220	EXCEEDS
Geometric Mean			371	168	EXCEEDS
1.4M	Pittsburgh	12-May-09	1,600	500	EXCEEDS
1.4M	Pittsburgh	19-May-09	380	194	
1.4M	Pittsburgh	21-May-09	189	120	
1.4M	Pittsburgh	26-May-09	700	450	EXCEEDS
1.4M	Pittsburgh	28-May-09	550	140	EXCEEDS
Geometric Mean			536	236	EXCEEDS
1.4L	Pittsburgh	12-May-09	1,500	700	EXCEEDS
1.4L	Pittsburgh	19-May-09	390	230	
1.4L	Pittsburgh	21-May-09	189	120	
1.4L	Pittsburgh	26-May-09	430	264	EXCEEDS
1.4L	Pittsburgh	28-May-09	340	209	
Geometric Mean			438	254	EXCEEDS
4.3	Pittsburgh	12-May-09	2,400	1,100	EXCEEDS
4.3	Pittsburgh	19-May-09	390	140	
4.3	Pittsburgh	21-May-09	132	86	
4.3	Pittsburgh	26-May-09	470	200	EXCEEDS
4.3	Pittsburgh	28-May-09	520	200	EXCEEDS
Geometric Mean			497	221	EXCEEDS
1.4R	Pittsburgh	02-Jun-09	718	220	EXCEEDS
1.4R	Pittsburgh	09-Jun-09	290	80	
1.4R	Pittsburgh	16-Jun-09	250	90	
1.4R	Pittsburgh	23-Jun-09	673	410	EXCEEDS
1.4R	Pittsburgh	30-Jun-09	400	100	
Geometric Mean			426	145	EXCEEDS
1.4M	Pittsburgh	02-Jun-09	170	110	
1.4M	Pittsburgh	09-Jun-09	380	180	
1.4M	Pittsburgh	16-Jun-09	200	50	
1.4M	Pittsburgh	23-Jun-09	1,500	800	EXCEEDS
1.4M	Pittsburgh	30-Jun-09	430	90	EXCEEDS
Geometric Mean			384	148	EXCEEDS
1.4L	Pittsburgh	02-Jun-09	430	145	EXCEEDS
1.4L	Pittsburgh	09-Jun-09	280	120	
1.4L	Pittsburgh	16-Jun-09	220	60	
1.4L	Pittsburgh	23-Jun-09	2,100	400	EXCEEDS
1.4L	Pittsburgh	30-Jun-09	200	140	
Geometric Mean			407	142	EXCEEDS
4.3	Pittsburgh	02-Jun-09	240	200	
4.3	Pittsburgh	09-Jun-09	240	130	
4.3	Pittsburgh	16-Jun-09	230	36	
4.3	Pittsburgh	23-Jun-09	1,400	700	EXCEEDS
4.3	Pittsburgh	30-Jun-09	260	110	
Geometric Mean			344	148	EXCEEDS
1.4R	Pittsburgh	07-Jul-09	390	110	
1.4R	Pittsburgh	14-Jul-09	850	100	EXCEEDS
1.4R	Pittsburgh	21-Jul-09	4000	1,600	EXCEEDS
1.4R	Pittsburgh	23-Jul-09	6100	1,900	EXCEEDS
1.4R	Pittsburgh	28-Jul-09	450	130	EXCEEDS
Geometric Mean			1295	337	EXCEEDS
1.4M	Pittsburgh	07-Jul-09	310	90	
1.4M	Pittsburgh	14-Jul-09	530	80	EXCEEDS
1.4M	Pittsburgh	21-Jul-09	5,000	3,400	EXCEEDS
1.4M	Pittsburgh	23-Jul-09	5,600	3,200	EXCEEDS
1.4M	Pittsburgh	28-Jul-09	470	190	EXCEEDS
Geometric Mean			1167	431	EXCEEDS
1.4L	Pittsburgh	07-Jul-09	250	50	
1.4L	Pittsburgh	14-Jul-09	350	60	
1.4L	Pittsburgh	21-Jul-09	5,900	2,900	EXCEEDS
1.4L	Pittsburgh	23-Jul-09	5,800	2,700	EXCEEDS
1.4L	Pittsburgh	28-Jul-09	570	300	EXCEEDS
Geometric Mean			1113	371	EXCEEDS
4.3	Pittsburgh	07-Jul-09	350	140	
4.3	Pittsburgh	14-Jul-09	390	120	
4.3	Pittsburgh	21-Jul-09	5,500	2,400	EXCEEDS
4.3	Pittsburgh	23-Jul-09	6,400	1,400	EXCEEDS
4.3	Pittsburgh	28-Jul-09	150	430	EXCEEDS
Geometric Mean			937	475	EXCEEDS
1.4R	Pittsburgh	04-Aug-09	390	180	
1.4R	Pittsburgh	11-Aug-09	7200	3,200	EXCEEDS
1.4R	Pittsburgh	18-Aug-09	220	90	
1.4R	Pittsburgh	20-Aug-09	8100	4,700	EXCEEDS
1.4R	Pittsburgh	25-Aug-09	250	150	
Geometric Mean			1046	516	EXCEEDS
1.4M	Pittsburgh	04-Aug-09	360	210	
1.4M	Pittsburgh	11-Aug-09	8,500	2,800	EXCEEDS
1.4M	Pittsburgh	18-Aug-09	180	100	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
1.4M	Pittsburgh	20-Aug-09	6,300	3,300	EXCEEDS
1.4M	Pittsburgh	25-Aug-09	280	120	
			Geometric Mean	994	EXCEEDS
1.4L	Pittsburgh	11-Aug-09	8,000	3,500	EXCEEDS
1.4L	Pittsburgh	18-Aug-09	260	90	
1.4L	Pittsburgh	18-Aug-09	230	90	
1.4L	Pittsburgh	20-Aug-09	9,400	3,700	EXCEEDS
1.4L	Pittsburgh	25-Aug-09	230	110	
			Geometric Mean	1007	EXCEEDS
4.3	Pittsburgh	04-Aug-09	300	140	
4.3	Pittsburgh	11-Aug-09	8,800	3,600	EXCEEDS
4.3	Pittsburgh	18-Aug-09	160	50	
4.3	Pittsburgh	20-Aug-09	9,800	6,500	EXCEEDS
4.3	Pittsburgh	25-Aug-09	400	130	
			Geometric Mean	1106	EXCEEDS
1.4R	Pittsburgh	01-Sep-09	940	500	EXCEEDS
1.4R	Pittsburgh	08-Sep-09	5500	2,500	EXCEEDS
1.4R	Pittsburgh	15-Sep-09	170	100	
1.4R	Pittsburgh	29-Sep-09	7800	4,800	EXCEEDS
1.4R	Pittsburgh	30-Sep-09	1100	470	EXCEEDS
			Geometric Mean	1498	EXCEEDS
1.4M	Pittsburgh	01-Sep-09	710	250	EXCEEDS
1.4M	Pittsburgh	08-Sep-09	4,400	2,000	EXCEEDS
1.4M	Pittsburgh	15-Sep-09	160	100	
1.4M	Pittsburgh	29-Sep-09	8,000	5,200	EXCEEDS
1.4M	Pittsburgh	30-Sep-09	1,500	350	EXCEEDS
			Geometric Mean	1431	EXCEEDS
1.4L	Pittsburgh	01-Sep-09	730	100	EXCEEDS
1.4L	Pittsburgh	08-Sep-09	3,800	2,100	EXCEEDS
1.4L	Pittsburgh	15-Sep-09	160	90	
1.4L	Pittsburgh	29-Sep-09	7,200	3,200	EXCEEDS
1.4L	Pittsburgh	30-Sep-09	1,200	370	EXCEEDS
			Geometric Mean	1308	EXCEEDS
4.3	Pittsburgh	01-Sep-09	670	180	EXCEEDS
4.3	Pittsburgh	08-Sep-09	500	210	EXCEEDS
4.3	Pittsburgh	15-Sep-09	150	50	
4.3	Pittsburgh	29-Sep-09	6,300	3,500	EXCEEDS
4.3	Pittsburgh	30-Sep-09	1,000	310	EXCEEDS
			Geometric Mean	795	EXCEEDS
1.4R	Pittsburgh	06-Oct-09	370	170	
1.4R	Pittsburgh	13-Oct-09	530	180	EXCEEDS
1.4R	Pittsburgh	20-Oct-09	360	170	
1.4M	Pittsburgh	06-Oct-09	480	60	EXCEEDS
1.4M	Pittsburgh	13-Oct-09	570	280	EXCEEDS
1.4M	Pittsburgh	20-Oct-09	270	180	
1.4L	Pittsburgh	06-Oct-09	420	120	EXCEEDS
1.4L	Pittsburgh	13-Oct-09	660	340	EXCEEDS
1.4L	Pittsburgh	20-Oct-09	370	140	
4.3	Pittsburgh	06-Oct-09	530	140	EXCEEDS
4.3	Pittsburgh	13-Oct-09	620	280	EXCEEDS
4.3	Pittsburgh	20-Oct-09	390	120	
84.2	Wheeling	05-May-09	520	274	EXCEEDS
84.2	Wheeling	12-May-09	144	64	
84.2	Wheeling	19-May-09	66	48	
84.2	Wheeling	21-May-09	148	32	
84.2	Wheeling	26-May-09	76	56	
			Geometric Mean	141	69
86.8	Wheeling	05-May-09	700	280	EXCEEDS
86.8	Wheeling	12-May-09	168	68	
86.8	Wheeling	19-May-09	36	32	
86.8	Wheeling	21-May-09	88	72	
86.8	Wheeling	26-May-09	20	100	
			Geometric Mean	94	85
91.4	Wheeling	05-May-09	240	240	
91.4	Wheeling	12-May-09	250	160	
91.4	Wheeling	19-May-09	77	132	
91.4	Wheeling	21-May-09	150	72	
91.4	Wheeling	26-May-09	88	16	
			Geometric Mean	144	90
92.8	Wheeling	05-May-09	870	1,020	EXCEEDS
92.8	Wheeling	12-May-09	360	88	
92.8	Wheeling	19-May-09	220	430	EXCEEDS
92.8	Wheeling	21-May-09	400	690	EXCEEDS
92.8	Wheeling	26-May-09	220	72	
			Geometric Mean	360	286
84.2	Wheeling	02-Jun-09	450	520	EXCEEDS
84.2	Wheeling	09-Jun-09	200	156	
84.2	Wheeling	16-Jun-09	200	64	
84.2	Wheeling	23-Jun-09	350	176	
84.2	Wheeling	30-Jun-09	32	56	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	182	139
86.8	Wheeling	02-Jun-09	36	108	
86.8	Wheeling	09-Jun-09	44	20	
86.8	Wheeling	16-Jun-09	1,300	28	EXCEEDS
86.8	Wheeling	23-Jun-09	228	246	EXCEEDS
86.8	Wheeling	30-Jun-09	40	40	
			Geometric Mean	113	57
91.4	Wheeling	02-Jun-09	152	171	
91.4	Wheeling	09-Jun-09	92	36	
91.4	Wheeling	16-Jun-09	172	56	
91.4	Wheeling	23-Jun-09	470	108	EXCEEDS
91.4	Wheeling	30-Jun-09	350	214	
			Geometric Mean	209	96
92.8	Wheeling	02-Jun-09	2,100	1,100	EXCEEDS
92.8	Wheeling	09-Jun-09	128	68	
92.8	Wheeling	16-Jun-09	3,000	1,900	EXCEEDS
92.8	Wheeling	23-Jun-09	550	132	EXCEEDS
92.8	Wheeling	30-Jun-09	430	148	EXCEEDS
			Geometric Mean	718	308
84.2	Wheeling	07-Jul-09	108	32	
84.2	Wheeling	21-Jul-09	16	8	
84.2	Wheeling	23-Jul-09	72	64	
84.2	Wheeling	28-Jul-09	188	24	
84.2	Wheeling	30-Jul-09	1,000	1,400	EXCEEDS
			Geometric Mean	119	56
86.8	Wheeling	07-Jul-09	68	8	
86.8	Wheeling	21-Jul-09	8	4	
86.8	Wheeling	23-Jul-09	212	52	
86.8	Wheeling	28-Jul-09	88	44	
86.8	Wheeling	30-Jul-09	20	28	
			Geometric Mean	46	18
91.4	Wheeling	07-Jul-09	194	24	
91.4	Wheeling	21-Jul-09	8	12	
91.4	Wheeling	23-Jul-09	340	171	
91.4	Wheeling	28-Jul-09	192	52	
91.4	Wheeling	30-Jul-09	116	28	
			Geometric Mean	103	37
92.8	Wheeling	07-Jul-09	190	52	
92.8	Wheeling	21-Jul-09	52	48	
92.8	Wheeling	23-Jul-09	6,700	2,700	EXCEEDS
92.8	Wheeling	28-Jul-09	490	380	EXCEEDS
92.8	Wheeling	30-Jul-09	280	28	
			Geometric Mean	391	148
84.2	Wheeling	04-Aug-09	920	64	EXCEEDS
84.2	Wheeling	11-Aug-09	20	4	
84.2	Wheeling	18-Aug-09	86	28	
84.2	Wheeling	20-Aug-09	180	24	
84.2	Wheeling	25-Aug-09	104	20	
			Geometric Mean	124	20
86.8	Wheeling	04-Aug-09	210	36	
86.8	Wheeling	11-Aug-09	4	4	
86.8	Wheeling	18-Aug-09	48	16	
86.8	Wheeling	20-Aug-09	16	24	
86.8	Wheeling	25-Aug-09	4	4	
			Geometric Mean	19	12
91.4	Wheeling	04-Aug-09	188	24	
91.4	Wheeling	11-Aug-09	4	4	
91.4	Wheeling	18-Aug-09	44	16	
91.4	Wheeling	20-Aug-09	196	52	
91.4	Wheeling	25-Aug-09	12	8	
			Geometric Mean	38	14
92.8	Wheeling	04-Aug-09	530	84	EXCEEDS
92.8	Wheeling	11-Aug-09	350	36	
92.8	Wheeling	18-Aug-09	92	36	
92.8	Wheeling	20-Aug-09	254	230	
92.8	Wheeling	25-Aug-09	120	20	
			Geometric Mean	220	55
84.2	Wheeling	01-Sep-09	40	8	
84.2	Wheeling	08-Sep-09	12	4	
84.2	Wheeling	15-Sep-09	4	4	
84.2	Wheeling	22-Sep-09	4	4	
84.2	Wheeling	29-Sep-09	14	36	
			Geometric Mean	10	7
86.8	Wheeling	01-Sep-09	20	12	
86.8	Wheeling	08-Sep-09	4	4	
86.8	Wheeling	15-Sep-09	12	4	
86.8	Wheeling	22-Sep-09	24	12	
86.8	Wheeling	29-Sep-09	104	44	
			Geometric Mean	19	10
91.4	Wheeling	01-Sep-09	32	40	
91.4	Wheeling	08-Sep-09	174	120	
91.4	Wheeling	15-Sep-09	100	88	
91.4	Wheeling	22-Sep-09	12	12	
91.4	Wheeling	29-Sep-09	36	12	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
92.8	Wheeling	01-Sep-09	Geometric Mean	47	36
				290	16
				168	60
				176	72
				68	52
				216	92
			Geometric Mean	166	51
				12	12
				360	12
				16	16
84.2	Wheeling	06-Oct-09		28	28
84.2	Wheeling	13-Oct-09		560	16
84.2	Wheeling	20-Oct-09			EXCEEDS
84.2	Wheeling	22-Oct-09			
84.2	Wheeling	27-Oct-09	Geometric Mean	64	16
86.8	Wheeling	06-Oct-09		32	16
86.8	Wheeling	13-Oct-09		4	4
86.8	Wheeling	20-Oct-09		4	12
86.8	Wheeling	22-Oct-09		8	4
86.8	Wheeling	27-Oct-09		36	12
91.4	Wheeling	06-Oct-09	Geometric Mean	11	8
				28	32
				80	100
				8	12
				12	4
				32	16
			Geometric Mean	23	19
				20	32
				670	290
				257	185
92.8	Wheeling	06-Oct-09		40	52
92.8	Wheeling	13-Oct-09		100	60
92.8	Wheeling	20-Oct-09			EXCEEDS
92.8	Wheeling	22-Oct-09			
92.8	Wheeling	27-Oct-09	Geometric Mean	107	88
305.1	Huntington	05-May-09		800	310
305.1	Huntington	12-May-09		217	157
305.1	Huntington	19-May-09		80	69
305.1	Huntington	21-May-09		24	20
305.1	Huntington	26-May-09		4	4
308.1	Huntington	05-May-09	Geometric Mean	67	49
				3,700	1,290
				400	226
				180	146
				84	60
				134	57
			Geometric Mean	313	171
				1,500	450
				440	234
				169	96
314.8	Huntington	05-May-09		160	144
314.8	Huntington	12-May-09		440	240
314.8	Huntington	19-May-09			EXCEEDS
314.8	Huntington	21-May-09			EXCEEDS
314.8	Huntington	26-May-09	Geometric Mean	379	204
305.1	Huntington	02-Jun-09		74	54
305.1	Huntington	09-Jun-09		32	4
305.1	Huntington	16-Jun-09		16	12
305.1	Huntington	23-Jun-09		84	63
305.1	Huntington	30-Jun-09		24	4
308.1	Huntington	02-Jun-09	Geometric Mean	38	15
				500	260
				720	540
				257	132
				152	120
				243	166
			Geometric Mean	321	206
				340	229
				206	144
				214	163
314.8	Huntington	02-Jun-09		92	63
314.8	Huntington	09-Jun-09		180	132
314.8	Huntington	16-Jun-09			EXCEEDS
314.8	Huntington	23-Jun-09			EXCEEDS
314.8	Huntington	30-Jun-09	Geometric Mean	190	135
305.1	Huntington	07-Jul-09		20	4
305.1	Huntington	14-Jul-09		63	4
305.1	Huntington	21-Jul-09		4	4
305.1	Huntington	23-Jul-09		8	4
305.1	Huntington	28-Jul-09		20	8
308.1	Huntington	07-Jul-09	Geometric Mean	15	5
				160	124
				108	20
				112	54
				243	151
				510	246
			Geometric Mean	189	87
				112	54
				4	4
				54	8
314.8	Huntington	07-Jul-09		500	229
314.8	Huntington	14-Jul-09		160	71
314.8	Huntington	21-Jul-09			EXCEEDS
314.8	Huntington	23-Jul-09			
314.8	Huntington	28-Jul-09			

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	72	31
305.1	Huntington	04-Aug-09	120	69	EXCEEDS
305.1	Huntington	11-Aug-09	410	100	
305.1	Huntington	18-Aug-09	8	8	
305.1	Huntington	20-Aug-09	12	8	
305.1	Huntington	25-Aug-09	8	8	
			Geometric Mean	33	20
308.1	Huntington	04-Aug-09	280	156	EXCEEDS
308.1	Huntington	11-Aug-09	3,200	594	
308.1	Huntington	18-Aug-09	6,000	691	
308.1	Huntington	20-Aug-09	2,900	2,200	
308.1	Huntington	25-Aug-09	124	96	
			Geometric Mean	1141	423
314.8	Huntington	04-Aug-09	370	249	EXCEEDS
314.8	Huntington	11-Aug-09	1,500	430	EXCEEDS
314.8	Huntington	18-Aug-09	148	24	
314.8	Huntington	20-Aug-09	290	84	
314.8	Huntington	25-Aug-09	100	40	
			Geometric Mean	299	97
305.1	Huntington	01-Sep-09	12	8	EXCEEDS
305.1	Huntington	08-Sep-09	12	4	
305.1	Huntington	15-Sep-09	4	4	
305.1	Huntington	22-Sep-09	4	4	
305.1	Huntington	29-Sep-09	28	20	
			Geometric Mean	9	6
308.1	Huntington	01-Sep-09	144	71	EXCEEDS
308.1	Huntington	08-Sep-09	36	24	
308.1	Huntington	15-Sep-09	36	28	
308.1	Huntington	22-Sep-09	63	12	
308.1	Huntington	29-Sep-09	226	104	
			Geometric Mean	77	36
314.8	Huntington	01-Sep-09	60	20	EXCEEDS
314.8	Huntington	08-Sep-09	152	108	
314.8	Huntington	15-Sep-09	24	12	
314.8	Huntington	22-Sep-09	44	20	
314.8	Huntington	29-Sep-09	140	100	
			Geometric Mean	67	35
305.1	Huntington	06-Oct-09	4	4	EXCEEDS
305.1	Huntington	13-Oct-09	32	24	
305.1	Huntington	20-Oct-09	12	4	
305.1	Huntington	23-Oct-09	4	4	
305.1	Huntington	27-Oct-09	24	8	
			Geometric Mean	11	7
308.1	Huntington	06-Oct-09	60	32	EXCEEDS
308.1	Huntington	13-Oct-09	120	60	
308.1	Huntington	20-Oct-09	12	8	
308.1	Huntington	23-Oct-09	89	12	
308.1	Huntington	27-Oct-09	92	48	
			Geometric Mean	59	25
314.8	Huntington	06-Oct-09	64	20	EXCEEDS
314.8	Huntington	13-Oct-09	97	20	
314.8	Huntington	20-Oct-09	66	12	
314.8	Huntington	23-Oct-09	4	4	
314.8	Huntington	27-Oct-09	74	40	
			Geometric Mean	41	15
462.6	Cincinnati	05-May-09	184	32	EXCEEDS
462.6	Cincinnati	12-May-09	3,800	1,800	
462.6	Cincinnati	19-May-09	60	76	
462.6	Cincinnati	21-May-09	63	36	
462.6	Cincinnati	26-May-09	57	80	
			Geometric Mean	172	105
463.9	Cincinnati AquaRamp	05-May-09	50	16	EXCEEDS
463.9	Cincinnati AquaRamp	12-May-09	1,500	800	
463.9	Cincinnati AquaRamp	19-May-09	40	20	
463.9	Cincinnati AquaRamp	21-May-09	52	52	
463.9	Cincinnati AquaRamp	26-May-09	4	8	
			Geometric Mean	57	40
469.9	Cincinnati Who-Day Dock	05-May-09	130	28	EXCEEDS
469.9	Cincinnati Who-Day Dock	12-May-09	4,600	1,800	
469.9	Cincinnati Who-Day Dock	19-May-09	136	104	
469.9	Cincinnati Who-Day Dock	21-May-09	290	223	
469.9	Cincinnati Who-Day Dock	26-May-09	76	100	
			Geometric Mean	282	164
470	Cincinnati	05-May-09	184	48	EXCEEDS
470	Cincinnati	12-May-09	600	1,100	
470	Cincinnati	19-May-09	50	60	
470	Cincinnati	21-May-09	48	43	
470	Cincinnati	26-May-09	176	108	
			Geometric Mean	136	108
477.5	Cincinnati	05-May-09	50	40	EXCEEDS
477.5	Cincinnati	12-May-09	600	400	
477.5	Cincinnati	19-May-09	60	36	
477.5	Cincinnati	21-May-09	16	28	
477.5	Cincinnati	26-May-09	146	157	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	84	76
462.6	Cincinnati	02-Jun-09	120	148	
462.6	Cincinnati	09-Jun-09	208	43	
462.6	Cincinnati	16-Jun-09	380	110	
462.6	Cincinnati	23-Jun-09	128	124	
462.6	Cincinnati	30-Jun-09	20	12	
			Geometric Mean	119	64
463.9	Cincinnati AquaRamp	02-Jun-09	50	92	
463.9	Cincinnati AquaRamp	09-Jun-09	146	160	
463.9	Cincinnati AquaRamp	16-Jun-09	400	192	
463.9	Cincinnati AquaRamp	23-Jun-09	92	88	
463.9	Cincinnati AquaRamp	30-Jun-09	16	8	
			Geometric Mean	84	72
469.9	Cincinnati Who-Day Dock	02-Jun-09	88	52	
469.9	Cincinnati Who-Day Dock	09-Jun-09	909	2,000	EXCEEDS
469.9	Cincinnati Who-Day Dock	16-Jun-09	231	200	
469.9	Cincinnati Who-Day Dock	23-Jun-09	88	100	
469.9	Cincinnati Who-Day Dock	30-Jun-09	84	92	
			Geometric Mean	169	180
470	Cincinnati	02-Jun-09	40	50	
470	Cincinnati	09-Jun-09	2,200	40	EXCEEDS
470	Cincinnati	16-Jun-09	250	210	
470	Cincinnati	23-Jun-09	60	62	
470	Cincinnati	30-Jun-09	92	40	
			Geometric Mean	165	64
477.5	Cincinnati	02-Jun-09	80	36	
477.5	Cincinnati	09-Jun-09	2,900	146	EXCEEDS
477.5	Cincinnati	16-Jun-09	210	68	
477.5	Cincinnati	23-Jun-09	88	96	
477.5	Cincinnati	30-Jun-09	112	48	
			Geometric Mean	217	70
Possible Lab contamination-Blanks had positive results on June 9, 2009 samples.					
462.6	Cincinnati	07-Jul-09	51	40	
462.6	Cincinnati	14-Jul-09	43	8	
462.6	Cincinnati	21-Jul-09	40	24	
462.6	Cincinnati	23-Jul-09	1,200	490	EXCEEDS
462.6	Cincinnati	28-Jul-09	100	43	
			Geometric Mean	101	44
463.9	Cincinnati AquaRamp	07-Jul-09	63	20	
463.9	Cincinnati AquaRamp	14-Jul-09	8	12	
463.9	Cincinnati AquaRamp	21-Jul-09	12	8	
463.9	Cincinnati AquaRamp	23-Jul-09	50	60	
463.9	Cincinnati AquaRamp	28-Jul-09	8	28	
			Geometric Mean	19	20
469.9	Cincinnati Who-Day Dock	07-Jul-09	66	64	
469.9	Cincinnati Who-Day Dock	14-Jul-09	4	4	
469.9	Cincinnati Who-Day Dock	21-Jul-09	17,000	14,200	EXCEEDS
469.9	Cincinnati Who-Day Dock	23-Jul-09	460	280	EXCEEDS
469.9	Cincinnati Who-Day Dock	28-Jul-09	70	71	
			Geometric Mean	171	149
470	Cincinnati	07-Jul-09	60	34	
470	Cincinnati	14-Jul-09	8	4	
470	Cincinnati	21-Jul-09	128	54	
470	Cincinnati	23-Jul-09	460	360	EXCEEDS
470	Cincinnati	28-Jul-09	36	12	
			Geometric Mean	63	32
477.5	Cincinnati	07-Jul-09	600	50	EXCEEDS
477.5	Cincinnati	14-Jul-09	32	8	
477.5	Cincinnati	21-Jul-09	891	400	EXCEEDS
477.5	Cincinnati	23-Jul-09	10,500	5,900	EXCEEDS
477.5	Cincinnati	28-Jul-09	36	48	
			Geometric Mean	365	135
462.6	Cincinnati	04-Aug-09	211	168	
462.6	Cincinnati	11-Aug-09	250	290	EXCEEDS
462.6	Cincinnati	18-Aug-09	24	12	
462.6	Cincinnati	20-Aug-09	68	12	
462.6	Cincinnati	25-Aug-09	52	20	
			Geometric Mean	85	43
463.9	Cincinnati AquaRamp	04-Aug-09	214	140	
463.9	Cincinnati AquaRamp	11-Aug-09	24	24	
463.9	Cincinnati AquaRamp	18-Aug-09	24	12	
463.9	Cincinnati AquaRamp	20-Aug-09	8	4	
463.9	Cincinnati AquaRamp	25-Aug-09	16	16	
			Geometric Mean	28	19
469.9	Cincinnati Who-Day Dock	04-Aug-09	360	228	
469.9	Cincinnati Who-Day Dock	11-Aug-09	1,020	530	EXCEEDS
469.9	Cincinnati Who-Day Dock	18-Aug-09	800	600	EXCEEDS
469.9	Cincinnati Who-Day Dock	20-Aug-09	92	54	
469.9	Cincinnati Who-Day Dock	25-Aug-09	36	20	
			Geometric Mean	250	151
470	Cincinnati	04-Aug-09	220	186	
470	Cincinnati	11-Aug-09	1,200	890	EXCEEDS
470	Cincinnati	18-Aug-09	510	350	EXCEEDS
470	Cincinnati	20-Aug-09	86	76	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
470	Cincinnati	25-Aug-09	50	32	
			Geometric Mean	225	170 EXCEEDS
477.5	Cincinnati	04-Aug-09	208	154	
477.5	Cincinnati	11-Aug-09	954	500	EXCEEDS
477.5	Cincinnati	18-Aug-09	540	280	EXCEEDS
477.5	Cincinnati	20-Aug-09	226	164	
477.5	Cincinnati	25-Aug-09	24	4	
			Geometric Mean	225	107 EXCEEDS
462.6	Cincinnati	01-Sep-09	4	16	
462.6	Cincinnati	08-Sep-09	16	4	
462.6	Cincinnati	15-Sep-09	4	24	
462.6	Cincinnati	22-Sep-09	28	8	
462.6	Cincinnati	29-Sep-09	570	283	EXCEEDS
			Geometric Mean	21	20
463.9	Cincinnati AquaRamp	01-Sep-09	4	4	
463.9	Cincinnati AquaRamp	08-Sep-09	8	12	
463.9	Cincinnati AquaRamp	15-Sep-09	4	4	
463.9	Cincinnati AquaRamp	22-Sep-09	4	4	
463.9	Cincinnati AquaRamp	29-Sep-09	440	400	EXCEEDS
			Geometric Mean	12	13
469.9	Cincinnati Who-Day Dock	01-Sep-09	16	4	
469.9	Cincinnati Who-Day Dock	08-Sep-09	1,800	709	EXCEEDS
469.9	Cincinnati Who-Day Dock	15-Sep-09	60	40	
469.9	Cincinnati Who-Day Dock	22-Sep-09	290	192	
469.9	Cincinnati Who-Day Dock	29-Sep-09	320	370	EXCEEDS
			Geometric Mean	174	96
470	Cincinnati	01-Sep-09	4	4	
470	Cincinnati	08-Sep-09	764	420	EXCEEDS
470	Cincinnati	15-Sep-09	16	12	
470	Cincinnati	22-Sep-09	1,900	5,000	EXCEEDS
470	Cincinnati	29-Sep-09	370	370	EXCEEDS
			Geometric Mean	128	130 EXCEEDS
477.5	Cincinnati	01-Sep-09	8	4	
477.5	Cincinnati	08-Sep-09	1,300	700	EXCEEDS
477.5	Cincinnati	15-Sep-09	28	16	
477.5	Cincinnati	22-Sep-09	736	136	EXCEEDS
477.5	Cincinnati	29-Sep-09	350	277	EXCEEDS
			Geometric Mean	150	70
462.6	Cincinnati	08-Oct-09	40	16	
462.6	Cincinnati	13-Oct-09	320	223	
462.6	Cincinnati	20-Oct-09	40	28	
462.6	Cincinnati	22-Oct-09	44	24	
462.6	Cincinnati	27-Oct-09	168	164	
			Geometric Mean	82	52
463.9	Cincinnati AquaRamp	08-Oct-09	12	8	
463.9	Cincinnati AquaRamp	13-Oct-09	292	290	EXCEEDS
463.9	Cincinnati AquaRamp	20-Oct-09	24	16	
463.9	Cincinnati AquaRamp	22-Oct-09	20	24	
463.9	Cincinnati AquaRamp	27-Oct-09	220	231	
			Geometric Mean	52	46
469.9	Cincinnati Who-Day Dock	08-Oct-09	74	24	
469.9	Cincinnati Who-Day Dock	13-Oct-09	370	440	EXCEEDS
469.9	Cincinnati Who-Day Dock	20-Oct-09	92	64	
469.9	Cincinnati Who-Day Dock	22-Oct-09	72	36	
469.9	Cincinnati Who-Day Dock	27-Oct-09	200	217	
			Geometric Mean	129	88
470	Cincinnati	08-Oct-09	108	40	
470	Cincinnati	13-Oct-09	290	226	
470	Cincinnati	20-Oct-09	40	54	
470	Cincinnati	22-Oct-09	40	28	
470	Cincinnati	27-Oct-09	240	220	
			Geometric Mean	104	79
477.5	Cincinnati	08-Oct-09	57	44	
477.5	Cincinnati	13-Oct-09	600	410	EXCEEDS
477.5	Cincinnati	20-Oct-09	36	20	
477.5	Cincinnati	22-Oct-09	51	51	
477.5	Cincinnati	27-Oct-09	186	217	
			Geometric Mean	103	83
594	Louisville	05-May-09	48	20	
594	Louisville	12-May-09	223	60	
594	Louisville	19-May-09	200	200	
594	Louisville	21-May-09	80	48	
594	Louisville	27-May-09	36	4	
			Geometric Mean	91	34
608.7	Louisville	05-May-09	43	16	
608.7	Louisville	12-May-09	108	116	
608.7	Louisville	19-May-09	177	70	
608.7	Louisville	21-May-09	92	40	
608.7	Louisville	27-May-09	24	20	
			Geometric Mean	71	40
619.3	Louisville	05-May-09	36	4	
619.3	Louisville	12-May-09	226	80	
619.3	Louisville	19-May-09	152	60	
619.3	Louisville	21-May-09	100	60	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
619.3	Louisville	27-May-09	112	4	
			Geometric Mean	107	22
594	Louisville	02-Jun-09	63	4	
594	Louisville	09-Jun-09	51	100	
594	Louisville	16-Jun-09	174	40	
594	Louisville	18-Jun-09	234	300	EXCEEDS
594	Louisville	23-Jun-09	190,000	8,900	EXCEEDS
			Geometric Mean	478	134
608.7	Louisville	02-Jun-09	66	4	
608.7	Louisville	09-Jun-09	112	80	
608.7	Louisville	16-Jun-09	100	20	
608.7	Louisville	18-Jun-09	217	100	
608.7	Louisville	23-Jun-09	7,300	1,300	EXCEEDS
			Geometric Mean	259	61
619.3	Louisville	02-Jun-09	152	8	
619.3	Louisville	09-Jun-09	68	57	
619.3	Louisville	16-Jun-09	2,500	900	EXCEEDS
619.3	Louisville	18-Jun-09	2,900	300	EXCEEDS
619.3	Louisville	23-Jun-09	600	50	EXCEEDS
			Geometric Mean	538	91
594	Louisville	08-Jul-09	360	80	
594	Louisville	14-Jul-09	24	12	
594	Louisville	21-Jul-09	12	4	
594	Louisville	23-Jul-09	68	60	
594	Louisville	28-Jul-09	100	16	
			Geometric Mean	59	21
608.7	Louisville	08-Jul-09	257	160	
608.7	Louisville	14-Jul-09	30	50	
608.7	Louisville	21-Jul-09	257	4	
608.7	Louisville	23-Jul-09	600	500	EXCEEDS
608.7	Louisville	28-Jul-09	328	12	
			Geometric Mean	208	45
619.3	Louisville	08-Jul-09	46	24	
619.3	Louisville	14-Jul-09	233	112	
619.3	Louisville	21-Jul-09	410	92	EXCEEDS
619.3	Louisville	23-Jul-09	257	97	
619.3	Louisville	28-Jul-09	590	184	EXCEEDS
			Geometric Mean	232	85
594	Louisville	04-Aug-09	144	80	
594	Louisville	06-Aug-09	4,300	2,200	EXCEEDS
594	Louisville	18-Aug-09	48	16	
594	Louisville	25-Aug-09	12	10	
594	Louisville	27-Aug-09	40	100	
			Geometric Mean	107	78
608.7	Louisville	04-Aug-09	248	100	
608.7	Louisville	06-Aug-09	4,800	2,200	EXCEEDS
608.7	Louisville	18-Aug-09	450	190	EXCEEDS
608.7	Louisville	25-Aug-09	210	4	
608.7	Louisville	27-Aug-09	4	16	
			Geometric Mean	214	77
619.3	Louisville	04-Aug-09	570	140	EXCEEDS
619.3	Louisville	06-Aug-09	12,300	6,300	EXCEEDS
619.3	Louisville	18-Aug-09	88	200	
619.3	Louisville	25-Aug-09	24	16	
619.3	Louisville	27-Aug-09	56	100	
			Geometric Mean	242	195
594	Louisville	01-Sep-09	20	50	
594	Louisville	09-Sep-09	12	16	
594	Louisville	15-Sep-09	32	16	
594	Louisville	22-Sep-09	720	760	EXCEEDS
594	Louisville	29-Sep-09	116	39	
			Geometric Mean	58	52
608.7	Louisville	01-Sep-09	44	10	
608.7	Louisville	09-Sep-09	64	24	
608.7	Louisville	15-Sep-09	64	20	
608.7	Louisville	22-Sep-09	16,500	17,300	EXCEEDS
608.7	Louisville	29-Sep-09	80	172	
			Geometric Mean	188	107
619.3	Louisville	01-Sep-09	96	60	
619.3	Louisville	09-Sep-09	84	24	
619.3	Louisville	15-Sep-09	16	4	
619.3	Louisville	22-Sep-09	11,900	6,400	EXCEEDS
619.3	Louisville	29-Sep-09	600	400	EXCEEDS
			Geometric Mean	247	108
594	Louisville	07-Oct-09	20	4	
594	Louisville	13-Oct-09	440	90	EXCEEDS
594	Louisville	20-Oct-09	60	32	
594	Louisville	27-Oct-09	60	44	
594	Louisville	29-Oct-09	340	250	EXCEEDS
			Geometric Mean	101	42
608.7	Louisville	07-Oct-09	16	12	
608.7	Louisville	13-Oct-09	510	1,100	EXCEEDS
608.7	Louisville	20-Oct-09	76	48	
608.7	Louisville	27-Oct-09	92	36	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
608.7	Louisville	29-Oct-09	380	160	
			Geometric Mean	117	82
619.3	Louisville	07-Oct-09	2,400	1,100	EXCEEDS
619.3	Louisville	13-Oct-09	1,600	600	EXCEEDS
619.3	Louisville	20-Oct-09	112	52	
619.3	Louisville	27-Oct-09	72	20	
619.3	Louisville	29-Oct-09	810	630	EXCEEDS
			Geometric Mean	478	212
791.5	Evansville	05-May-09	31	28	
791.5	Evansville	12-May-09	132	130	
791.5	Evansville	19-May-09	45	120	
791.5	Evansville	21-May-09	100	4	
791.5	Evansville	26-May-09	150	700	EXCEEDS
			Geometric Mean	77	66
793.7	Evansville	05-May-09	100	80	
793.7	Evansville	12-May-09	430	300	EXCEEDS
793.7	Evansville	19-May-09	128	200	
793.7	Evansville	21-May-09	100	20	
793.7	Evansville	26-May-09	1,500	2,000	EXCEEDS
			Geometric Mean	242	181
797.3	Evansville	05-May-09	116	132	
797.3	Evansville	12-May-09	254	200	
797.3	Evansville	19-May-09	54	30	
797.3	Evansville	21-May-09	136	4	
797.3	Evansville	26-May-09	800	3,600	EXCEEDS
			Geometric Mean	177	103
791.5	Evansville	02-Jun-09	20	4	
791.5	Evansville	09-Jun-09	12	20	
791.5	Evansville	16-Jun-09	180	130	
791.5	Evansville	23-Jun-09	180	191	
791.5	Evansville	30-Jun-09	12	12	
			Geometric Mean	39	30
793.7	Evansville	02-Jun-09	52	16	
793.7	Evansville	09-Jun-09	20	24	
793.7	Evansville	16-Jun-09	2,200	2,100	EXCEEDS
793.7	Evansville	23-Jun-09	110	180	
793.7	Evansville	30-Jun-09	24	44	
			Geometric Mean	90	91
797.3	Evansville	02-Jun-09	68	54	
797.3	Evansville	09-Jun-09	180	40	
797.3	Evansville	16-Jun-09	310	50	
797.3	Evansville	23-Jun-09	192	163	
797.3	Evansville	30-Jun-09	20	16	
			Geometric Mean	108	49
791.5	Evansville	07-Jul-09	83	24	
791.5	Evansville	14-Jul-09	8	4	
791.5	Evansville	21-Jul-09	8	4	
791.5	Evansville	23-Jul-09	140	60	
791.5	Evansville	28-Jul-09	8	10	
			Geometric Mean	23	12
793.7	Evansville	07-Jul-09	36	90	
793.7	Evansville	14-Jul-09	220	250	EXCEEDS
793.7	Evansville	21-Jul-09	20	20	
793.7	Evansville	23-Jul-09	570	88	EXCEEDS
793.7	Evansville	28-Jul-09	68	54	
			Geometric Mean	91	73
797.3	Evansville	07-Jul-09	20	40	
797.3	Evansville	14-Jul-09	54	60	
797.3	Evansville	21-Jul-09	24	24	
797.3	Evansville	23-Jul-09	620	390	EXCEEDS
797.3	Evansville	28-Jul-09	60	4	
			Geometric Mean	63	39
791.5	Evansville	04-Aug-09	51	200	
791.5	Evansville	11-Aug-09	144	100	
791.5	Evansville	18-Aug-09	40	20	
791.5	Evansville	20-Aug-09	520	152	EXCEEDS
791.5	Evansville	25-Aug-09	4	4	
			Geometric Mean	57	48
793.7	Evansville	04-Aug-09	96	4	
793.7	Evansville	11-Aug-09	540	1,100	EXCEEDS
793.7	Evansville	18-Aug-09	40	16	
793.7	Evansville	20-Aug-09	6,100	2,200	EXCEEDS
793.7	Evansville	25-Aug-09	20	14	
			Geometric Mean	191	74
797.3	Evansville	04-Aug-09	96	108	
797.3	Evansville	11-Aug-09	810	1,100	EXCEEDS
797.3	Evansville	18-Aug-09	92	20	
797.3	Evansville	20-Aug-09	540	92	EXCEEDS
797.3	Evansville	25-Aug-09	4	20	
			Geometric Mean	109	85
791.5	Evansville	01-Sep-09	12	32	
791.5	Evansville	08-Sep-09	60	100	
791.5	Evansville	15-Sep-09	17	4	
791.5	Evansville	22-Sep-09	243	450	EXCEEDS

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
791.5	Evansville	29-Sep-09	66	64	
			Geometric Mean	52	
793.7	Evansville	01-Sep-09	128	86	
793.7	Evansville	08-Sep-09	240	300	EXCEEDS
793.7	Evansville	15-Sep-09	12	17	
793.7	Evansville	22-Sep-09	246	250	EXCEEDS
793.7	Evansville	29-Sep-09	136	166	
			Geometric Mean	113	
797.3	Evansville	01-Sep-09	12	16	
797.3	Evansville	08-Sep-09	220	400	EXCEEDS
797.3	Evansville	15-Sep-09	20	32	
797.3	Evansville	22-Sep-09	211	190	
797.3	Evansville	29-Sep-09	108	100	
			Geometric Mean	83	
791.5	Evansville	06-Oct-09	28	4	
791.5	Evansville	13-Oct-09	570	200	EXCEEDS
791.5	Evansville	20-Oct-09	48	36	
791.5	Evansville	22-Oct-09	20	16	
791.5	Evansville	27-Oct-09	77	108	
			Geometric Mean	35	
793.7	Evansville	06-Oct-09	136	64	
793.7	Evansville	13-Oct-09	590	100	EXCEEDS
793.7	Evansville	20-Oct-09	24	54	
793.7	Evansville	22-Oct-09	24	60	
793.7	Evansville	27-Oct-09	74	92	
			Geometric Mean	72	
797.3	Evansville	06-Oct-09	64	20	
797.3	Evansville	13-Oct-09	220	400	EXCEEDS
797.3	Evansville	20-Oct-09	30	11	
797.3	Evansville	22-Oct-09	32	57	
797.3	Evansville	27-Oct-09	92	84	
			Geometric Mean	53	

FECAL- Not to exceed 400 in more than 10% of samples taken during month

Not to exceed 200 as a monthly geometric mean (at least 5 samples required)

E.COLI- Not to exceed 240 in any single sample

Not to exceed 130 as a monthly geometric mean (at least 5 samples required)

2010 OHIO RIVER BACTERIA SAMPLING

FINAL REPORT

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
1.4M	Pittsburgh	04-May-10	936	236	EXCEEDS
1.4M	Pittsburgh	11-May-10	340	145	
1.4M	Pittsburgh	18-May-10	7,700	4,800	EXCEEDS
1.4M	Pittsburgh	20-May-10	380	260	EXCEEDS
1.4M	Pittsburgh	25-May-10	718	340	EXCEEDS
			Geometric Mean	429	EXCEEDS
4.3	Pittsburgh	04-May-10	718	350	EXCEEDS
4.3	Pittsburgh	11-May-10	300	136	
4.3	Pittsburgh	18-May-10	6,800	3,500	EXCEEDS
4.3	Pittsburgh	20-May-10	510	320	EXCEEDS
4.3	Pittsburgh	25-May-10	882	570	EXCEEDS
			Geometric Mean	497	EXCEEDS
1.4M	Pittsburgh	01-Jun-10	7,600	5,500	EXCEEDS
1.4M	Pittsburgh	08-Jun-10	2,800	700	EXCEEDS
1.4M	Pittsburgh	15-Jun-10	3,200	500	EXCEEDS
1.4M	Pittsburgh	22-Jun-10	2,400	700	EXCEEDS
1.4M	Pittsburgh	29-Jun-10	5,600	1,600	EXCEEDS
			Geometric Mean	1166	EXCEEDS
4.3	Pittsburgh	01-Jun-10	6,800	4,300	EXCEEDS
4.3	Pittsburgh	08-Jun-10	3,900	500	EXCEEDS
4.3	Pittsburgh	15-Jun-10	2,400	700	EXCEEDS
4.3	Pittsburgh	22-Jun-10	2,900	600	EXCEEDS
4.3	Pittsburgh	29-Jun-10	5,100	2,000	EXCEEDS
			Geometric Mean	1125	EXCEEDS
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	EXCEEDS
1.4M	Pittsburgh	22-Jul-10	545	160	EXCEEDS
1.4M	Pittsburgh	27-Jul-10	206	60	
			Geometric Mean	102	EXCEEDS
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	EXCEEDS
4.3	Pittsburgh	22-Jul-10	490	120	EXCEEDS
4.3	Pittsburgh	27-Jul-10	160	28	
			Geometric Mean	66	EXCEEDS
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	EXCEEDS
1.4M	Pittsburgh	24-Aug-10	4,000	1,700	EXCEEDS
4.3	Pittsburgh	03-Aug-10	390	100	
4.3	Pittsburgh	10-Aug-10	200	50	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
4.3	Pittsburgh	17-Aug-10	800	130	EXCEEDS
4.3	Pittsburgh	24-Aug-10	1,800	300	EXCEEDS
1.4M	Pittsburgh	07-Sep-10	5,400	2,200	EXCEEDS
1.4M	Pittsburgh	14-Sep-10	242	100	
1.4M	Pittsburgh	20-Sep-10	500	100	EXCEEDS
1.4M	Pittsburgh	27-Sep-10	197	77	
1.4M	Pittsburgh	28-Sep-10	6,900	2,900	EXCEEDS
Geometric Mean			977	345	EXCEEDS
4.3	Pittsburgh	07-Sep-10	3,000	1,200	EXCEEDS
4.3	Pittsburgh	14-Sep-10	208	30	
4.3	Pittsburgh	20-Sep-10	550	120	EXCEEDS
4.3	Pittsburgh	27-Sep-10	156	51	
4.3	Pittsburgh	28-Sep-10	7,500	3,800	EXCEEDS
Geometric Mean			833	242	EXCEEDS
1.4M	Pittsburgh	05-Oct-10	1,100	400	EXCEEDS
1.4M	Pittsburgh	12-Oct-10	627	227	EXCEEDS
1.4M	Pittsburgh	19-Oct-10	360	170	
1.4M	Pittsburgh	21-Oct-10	450	240	EXCEEDS
1.4M	Pittsburgh	26-Oct-10	4,900	2,300	EXCEEDS
Geometric Mean			886	386	EXCEEDS
4.3	Pittsburgh	05-Oct-10	1,000	300	EXCEEDS
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	EXCEEDS
Geometric Mean			509	225	EXCEEDS
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	EXCEEDS
86.8	Wheeling	25-May-10	124	40	
Geometric Mean			79	58	
92.8	Wheeling	04-May-10	1,700	891	EXCEEDS
92.8	Wheeling	11-May-10	92	20	
92.8	Wheeling	18-May-10	1,244	909	EXCEEDS
92.8	Wheeling	20-May-10	682	277	EXCEEDS
92.8	Wheeling	25-May-10	320	72	
Geometric Mean			532	200	EXCEEDS
86.8	Wheeling	01-Jun-10	104	16	
86.8	Wheeling	08-Jun-10	2,400	490	EXCEEDS
86.8	Wheeling	15-Jun-10	927	52	EXCEEDS
86.8	Wheeling	22-Jun-10	3,600	410	EXCEEDS
86.8	Wheeling	29-Jun-10	40	12	
Geometric Mean			506	73	EXCEEDS
92.8	Wheeling	01-Jun-10	660	214	EXCEEDS
92.8	Wheeling	08-Jun-10	4,600	980	EXCEEDS
92.8	Wheeling	15-Jun-10	3,900	773	EXCEEDS
92.8	Wheeling	22-Jun-10	5,700	900	EXCEEDS
92.8	Wheeling	29-Jun-10	3,300	1,600	EXCEEDS
Geometric Mean			2948	748	EXCEEDS
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	EXCEEDS
92.8	Wheeling	13-Jul-10	12,300	3,600	EXCEEDS
92.8	Wheeling	20-Jul-10	700	720	EXCEEDS
92.8	Wheeling	22-Jul-10	317	20	
92.8	Wheeling	27-Jul-10	6,100	1,072	EXCEEDS
Geometric Mean			1718	407	EXCEEDS
86.8	Wheeling	03-Aug-10	550	56	EXCEEDS
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	EXCEEDS
92.8	Wheeling	10-Aug-10	200	168	
92.8	Wheeling	17-Aug-10	172	56	
92.8	Wheeling	24-Aug-10	500	840	EXCEEDS
92.8	Wheeling	31-Aug-10	72	8	
Geometric Mean			270	172	EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
92.8	Wheeling	23-Sep-10	104	16	
92.8	Wheeling	28-Sep-10	6,000	5,000	EXCEEDS
			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	EXCEEDS
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	EXCEEDS
305.1	Huntington	11-May-10	16	12	
305.1	Huntington	18-May-10	112	84	
305.1	Huntington	20-May-10	260	243	EXCEEDS
305.1	Huntington	25-May-10	37	16	
			Geometric Mean	102	75
314.8	Huntington	04-May-10	790	480	EXCEEDS
314.8	Huntington	11-May-10	164	85	
314.8	Huntington	18-May-10	186	84	
314.8	Huntington	20-May-10	430	212	EXCEEDS
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	EXCEEDS
305.1	Huntington	22-Jun-10	231	157	
305.1	Huntington	29-Jun-10	430	269	EXCEEDS
			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	EXCEEDS
314.8	Huntington	22-Jun-10	430	249	EXCEEDS
314.8	Huntington	29-Jun-10	540	220	EXCEEDS
			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	EXCEEDS
314.8	Huntington	20-Jul-10	40	16	
314.8	Huntington	22-Jul-10	900	310	EXCEEDS
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	
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	EXCEEDS
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	EXCEEDS
463.9	Cincinnati AquaRamp	04-May-10	2,100	3,100	EXCEEDS
463.9	Cincinnati AquaRamp	11-May-10	76	28	
463.9	Cincinnati AquaRamp	18-May-10	500	157	EXCEEDS
463.9	Cincinnati AquaRamp	20-May-10	220	280	EXCEEDS
463.9	Cincinnati AquaRamp	25-May-10	110	360	EXCEEDS
		Geometric Mean	287	268	EXCEEDS
469.9	Cincinnati Who-Day Dock	04-May-10	15,500	10,300	EXCEEDS
469.9	Cincinnati Who-Day Dock	11-May-10	1,000	690	EXCEEDS
469.9	Cincinnati Who-Day Dock	18-May-10	236	104	
469.9	Cincinnati Who-Day Dock	20-May-10	300	320	EXCEEDS
469.9	Cincinnati Who-Day Dock	25-May-10	460	520	EXCEEDS
		Geometric Mean	872	658	EXCEEDS
470	Cincinnati	04-May-10	1,400	2,300	EXCEEDS
470	Cincinnati	11-May-10	580	320	EXCEEDS
470	Cincinnati	18-May-10	210	112	
470	Cincinnati	20-May-10	300	270	EXCEEDS
470	Cincinnati	25-May-10	400	450	EXCEEDS
		Geometric Mean	459	398	EXCEEDS
477.5	Cincinnati	04-May-10	3,200	3,100	EXCEEDS
477.5	Cincinnati	11-May-10	80	31	
477.5	Cincinnati	18-May-10	310	200	
477.5	Cincinnati	20-May-10	200	320	EXCEEDS
477.5	Cincinnati	25-May-10	1,700	718	EXCEEDS
		Geometric Mean	486	338	EXCEEDS
462.6	Cincinnati	01-Jun-10	66	84	
462.6	Cincinnati	08-Jun-10	120	60	
462.6	Cincinnati	15-Jun-10	700	770	EXCEEDS
462.6	Cincinnati	22-Jun-10	500	320	EXCEEDS
462.6	Cincinnati	29-Jun-10	1,200	709	EXCEEDS
		Geometric Mean	319	245	EXCEEDS
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	EXCEEDS
463.9	Cincinnati AquaRamp	22-Jun-10	200	230	
463.9	Cincinnati AquaRamp	29-Jun-10	382	380	EXCEEDS
		Geometric Mean	189	132	EXCEEDS
469.9	Cincinnati Who-Day Dock	01-Jun-10	116	20	
469.9	Cincinnati Who-Day Dock	08-Jun-10	136	60	
469.9	Cincinnati Who-Day Dock	15-Jun-10	600	450	EXCEEDS
469.9	Cincinnati Who-Day Dock	22-Jun-10	600	400	EXCEEDS
469.9	Cincinnati Who-Day Dock	29-Jun-10	1,800	1,700	EXCEEDS
		Geometric Mean	400	206	EXCEEDS
470	Cincinnati	01-Jun-10	214	77	
470	Cincinnati	08-Jun-10	166	110	
470	Cincinnati	15-Jun-10	1,900	510	EXCEEDS
470	Cincinnati	22-Jun-10	800	727	EXCEEDS
470	Cincinnati	29-Jun-10	1,500	900	EXCEEDS
		Geometric Mean	605	309	EXCEEDS
477.5	Cincinnati	01-Jun-10	530	320	EXCEEDS
477.5	Cincinnati	08-Jun-10	80	60	
477.5	Cincinnati	15-Jun-10	1,200	700	EXCEEDS
477.5	Cincinnati	22-Jun-10	20,000	15,200	EXCEEDS
477.5	Cincinnati	29-Jun-10	3,200	2,500	EXCEEDS
		Geometric Mean	1266	874	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
470	Cincinnati	22-Jul-10	1,400	1,200	EXCEEDS
470	Cincinnati	27-Jul-10	60	32	
			Geometric Mean	79	
477.5	Cincinnati	06-Jul-10	173	34	EXCEEDS
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	
			Geometric Mean	16	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	19	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	60	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	10	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	5	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	9	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	19	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	25	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	5	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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	
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	EXCEEDS
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	EXCEEDS
619.3	Louisville	12-May-10	21	84	
619.3	Louisville	19-May-10	104	104	
619.3	Louisville	25-May-10	480	470	EXCEEDS
619.3	Louisville	27-May-10	240	280	EXCEEDS
			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	EXCEEDS
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	EXCEEDS
619.3	Louisville	08-Jun-10	960	920	EXCEEDS
619.3	Louisville	16-Jun-10	873	764	EXCEEDS
619.3	Louisville	22-Jun-10	209	124	
619.3	Louisville	29-Jun-10	1,870	226	EXCEEDS
			Geometric Mean	596	351
594	Louisville	06-Jul-10	1,380	240	EXCEEDS
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	EXCEEDS
619.3	Louisville	13-Jul-10	2,900	1,300	EXCEEDS
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	EXCEEDS
619.3	Louisville	31-Aug-10	1,000	1,100	EXCEEDS
			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	EXCEEDS
619.3	Louisville	09-Sep-10	1,200	990	EXCEEDS
619.3	Louisville	14-Sep-10	28	24	
619.3	Louisville	21-Sep-10	8	16	
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

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
791.5	Evansville	04-May-10	460	200	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	
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	EXCEEDS
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	EXCEEDS
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	
FECAL-	Not to exceed 400 in more than 10% of samples taken during month				
	Not to exceed 200 as a monthly geometric mean (at least 5 samples required)				
E.COLI-	Not to exceed 240 in any single sample				
	Not to exceed 130 as a monthly geometric mean (at least 5 samples required)				

2011 OHIO RIVER BACTERIA SAMPLING

FINAL REPORT

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
1.4M	Pittsburgh	10-May-11	236	136	
1.4M	Pittsburgh	24-May-11	1,200	700	EXCEEDS
4.3	Pittsburgh	10-May-11	171	100	
4.3	Pittsburgh	24-May-11	1,000	900	EXCEEDS
1.4M	Pittsburgh	07-Jun-11	247	100	
1.4M	Pittsburgh	14-Jun-11	430	80	EXCEEDS
1.4M	Pittsburgh	21-Jun-11	2,300	700	EXCEEDS
1.4M	Pittsburgh	23-Jun-11	800	400	EXCEEDS
1.4M	Pittsburgh	28-Jun-11	230	88	
Geometric Mean			538	182	EXCEEDS
4.3	Pittsburgh	07-Jun-11	200	170	
4.3	Pittsburgh	14-Jun-11	540	170	EXCEEDS
4.3	Pittsburgh	21-Jun-11	2,100	800	EXCEEDS
4.3	Pittsburgh	23-Jun-11	1,400	800	EXCEEDS
4.3	Pittsburgh	28-Jun-11	360	120	
Geometric Mean			648	295	EXCEEDS
1.4M	Pittsburgh	05-Jul-11	7,100	3,100	EXCEEDS
1.4M	Pittsburgh	12-Jul-11	8,700	2,500	EXCEEDS
1.4M	Pittsburgh	19-Jul-11	9,600	2,100	EXCEEDS
1.4M	Pittsburgh	21-Jul-11	800	320	EXCEEDS
1.4M	Pittsburgh	26-Jul-11	5,500	2,400	EXCEEDS
Geometric Mean			4823	1657	EXCEEDS
4.3	Pittsburgh	05-Jul-11	12,000	4,200	EXCEEDS
4.3	Pittsburgh	12-Jul-11	8,400	4,300	EXCEEDS
4.3	Pittsburgh	19-Jul-11	4,900	1,900	EXCEEDS
4.3	Pittsburgh	21-Jul-11	1,600	500	EXCEEDS
4.3	Pittsburgh	26-Jul-11	2,600	2,100	EXCEEDS
Geometric Mean			4598	2048	EXCEEDS
1.4M	Pittsburgh	02-Aug-11	540	80	EXCEEDS
1.4M	Pittsburgh	09-Aug-11	9,300	2,800	EXCEEDS
1.4M	Pittsburgh	16-Aug-11	1,500	1,000	EXCEEDS
1.4M	Pittsburgh	23-Aug-11	3,400	700	EXCEEDS
1.4M	Pittsburgh	30-Aug-11	330	60	
Geometric Mean			1532	393	EXCEEDS
4.3	Pittsburgh	02-Aug-11	210	40	
4.3	Pittsburgh	09-Aug-11	7,000	2,100	EXCEEDS
4.3	Pittsburgh	16-Aug-11	2,000	1,100	EXCEEDS
4.3	Pittsburgh	23-Aug-11	1,500	1,000	EXCEEDS
4.3	Pittsburgh	30-Aug-11	370	110	
Geometric Mean			1103	399	EXCEEDS
1.4M	Pittsburgh	06-Sep-11	20,000	20,000	EXCEEDS
1.4M	Pittsburgh	13-Sep-11	1,900	400	EXCEEDS
1.4M	Pittsburgh	20-Sep-11	3,400	2,500	EXCEEDS
1.4M	Pittsburgh	22-Sep-11	855	155	EXCEEDS
1.4M	Pittsburgh	27-Sep-11	5,600	1,400	EXCEEDS
Geometric Mean			3616	1341	EXCEEDS
4.3	Pittsburgh	06-Sep-11	20,000	20,000	EXCEEDS
4.3	Pittsburgh	13-Sep-11	1,800	300	EXCEEDS
4.3	Pittsburgh	20-Sep-11	5,900	3,500	EXCEEDS
4.3	Pittsburgh	22-Sep-11	873	118	EXCEEDS
4.3	Pittsburgh	27-Sep-11	2,500	1,200	EXCEEDS
Geometric Mean			3414	1244	EXCEEDS
1.4M	Pittsburgh	04-Oct-11	3,300	1,600	EXCEEDS
1.4M	Pittsburgh	11-Oct-11	272	160	
1.4M	Pittsburgh	18-Oct-11	480	230	EXCEEDS
1.4M	Pittsburgh	20-Oct-11	3,600	2,000	EXCEEDS
1.4M	Pittsburgh	25-Oct-11	250	80	
Geometric Mean			827	393	EXCEEDS
4.3	Pittsburgh	04-Oct-11	2,000	1,600	EXCEEDS
4.3	Pittsburgh	11-Oct-11	350	120	
4.3	Pittsburgh	18-Oct-11	600	300	EXCEEDS
4.3	Pittsburgh	20-Oct-11	6,300	3,300	EXCEEDS
4.3	Pittsburgh	25-Oct-11	430	140	EXCEEDS
Geometric Mean			1026	484	EXCEEDS
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	EXCEEDS
86.8	Wheeling	24-May-11	800	280	EXCEEDS
86.8	Wheeling	31-May-11	850	104	EXCEEDS
Geometric Mean			391	127	EXCEEDS
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	EXCEEDS
92.8	Wheeling	24-May-11	650	420	EXCEEDS
92.8	Wheeling	31-May-11	250	204	
Geometric Mean			438	214	EXCEEDS
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	EXCEEDS

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
86.8	Wheeling	23-Jun-11	96	108	
86.8	Wheeling	28-Jun-11	152	20	
			Geometric Mean	75	
92.8	Wheeling	07-Jun-11	270	108	
92.8	Wheeling	14-Jun-11	873	390	EXCEEDS
92.8	Wheeling	21-Jun-11	3,000	1,600	EXCEEDS
92.8	Wheeling	23-Jun-11	1,600	2,400	EXCEEDS
92.8	Wheeling	28-Jun-11	17,000	7,300	EXCEEDS
			Geometric Mean	1806	1034 EXCEEDS
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	EXCEEDS
92.8	Wheeling	19-Jul-11	20,000	20,000	EXCEEDS
92.8	Wheeling	21-Jul-11	200	60	
92.8	Wheeling	26-Jul-11	1,300	470	EXCEEDS
			Geometric Mean	811	337 EXCEEDS
86.8	Wheeling	02-Aug-11	1,060	700	EXCEEDS
86.8	Wheeling	09-Aug-11	12,200	2,900	EXCEEDS
86.8	Wheeling	16-Aug-11	230	36	
86.8	Wheeling	23-Aug-11	214	48	
86.8	Wheeling	30-Aug-11	76	8	
			Geometric Mean	546	123 EXCEEDS
92.8	Wheeling	02-Aug-11	8	44	
92.8	Wheeling	09-Aug-11	20,000	20,000	EXCEEDS
92.8	Wheeling	16-Aug-11	6,100	600	EXCEEDS
92.8	Wheeling	23-Aug-11	980	170	EXCEEDS
92.8	Wheeling	30-Aug-11	152	44	
			Geometric Mean	680	331 EXCEEDS
86.8	Wheeling	06-Sep-11	3,500	6,600	EXCEEDS
86.8	Wheeling	13-Sep-11	300	116	
86.8	Wheeling	20-Sep-11	590	40	EXCEEDS
86.8	Wheeling	22-Sep-11	108	52	
86.8	Wheeling	27-Sep-11	6,900	2,200	EXCEEDS
			Geometric Mean	857	323 EXCEEDS
92.8	Wheeling	06-Sep-11	224	310	EXCEEDS
92.8	Wheeling	13-Sep-11	3,500	670	EXCEEDS
92.8	Wheeling	20-Sep-11	8,100	8,000	EXCEEDS
92.8	Wheeling	22-Sep-11	5,900	270	EXCEEDS
92.8	Wheeling	27-Sep-11	7,600	6,400	EXCEEDS
			Geometric Mean	3097	1235 EXCEEDS
86.8	Wheeling	04-Oct-11	1,400	228	EXCEEDS
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 EXCEEDS
92.8	Wheeling	04-Oct-11	1,500	230	EXCEEDS
92.8	Wheeling	11-Oct-11	300	36	
92.8	Wheeling	18-Oct-11	700	650	EXCEEDS
92.8	Wheeling	20-Oct-11	400	260	EXCEEDS
92.8	Wheeling	25-Oct-11	330	56	
			Geometric Mean	529	151 EXCEEDS
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	EXCEEDS
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	EXCEEDS
314.8	Huntington	31-May-11	124	80	
			Geometric Mean	449	225 EXCEEDS
305.1	Huntington	07-Jun-11	12	12	
305.1	Huntington	14-Jun-11	8	4	
305.1	Huntington	22-Jun-11	451	186	EXCEEDS
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	EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	EXCEEDS
314.8	Huntington	19-Jul-11	32	12	
314.8	Huntington	21-Jul-11	755	450	EXCEEDS
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	EXCEEDS
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	EXCEEDS
			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	EXCEEDS
314.8	Huntington	25-Oct-11	124	54	
			Geometric Mean	120	74
462.6	Cincinnati	03-May-11	1,300	754	EXCEEDS
462.6	Cincinnati	10-May-11		28	
462.6	Cincinnati	17-May-11		156	
462.6	Cincinnati	24-May-11	682	60	EXCEEDS
462.6	Cincinnati	31-May-11	92	88	
			Geometric Mean	112	
463.9	Cincinnati AquaRamp	03-May-11	1,900	754	EXCEEDS
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	EXCEEDS
469.9	Cincinnati Who-Day Dock	03-May-11	5,800	4,900	EXCEEDS
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	EXCEEDS
469.9	Cincinnati Who-Day Dock	31-May-11	80	74	
			Geometric Mean	355	EXCEEDS
470	Cincinnati	03-May-11	6,300	4,300	EXCEEDS
470	Cincinnati	10-May-11		320	EXCEEDS
470	Cincinnati	17-May-11		160	
470	Cincinnati	24-May-11	2,800	580	EXCEEDS
470	Cincinnati	31-May-11	130	63	
			Geometric Mean	381	EXCEEDS
477.5	Cincinnati	03-May-11	2,700	2,000	EXCEEDS
477.5	Cincinnati	10-May-11		148	
477.5	Cincinnati	17-May-11		110	
477.5	Cincinnati	24-May-11	2,400	445	EXCEEDS
477.5	Cincinnati	31-May-11	140	68	
			Geometric Mean	250	EXCEEDS
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	EXCEEDS
462.6	Cincinnati	23-Jun-11	7,400	1,800	EXCEEDS
462.6	Cincinnati	28-Jun-11	300	260	EXCEEDS
			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	EXCEEDS

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
463.9	Cincinnati AquaRamp	23-Jun-11	673	260	EXCEEDS
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	EXCEEDS
469.9	Cincinnati Who-Day Dock	23-Jun-11	2,900	1,500	EXCEEDS
469.9	Cincinnati Who-Day Dock	28-Jun-11	290	440	EXCEEDS
			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	EXCEEDS
470	Cincinnati	23-Jun-11	954	920	EXCEEDS
470	Cincinnati	28-Jun-11	240	370	EXCEEDS
			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	EXCEEDS
477.5	Cincinnati	23-Jun-11	4,300	2,000	EXCEEDS
477.5	Cincinnati	28-Jun-11	450	510	EXCEEDS
			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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	EXCEEDS
477.5	Cincinnati	22-Sep-11	420	217	EXCEEDS
477.5	Cincinnati	27-Sep-11	6,000	3,200	EXCEEDS
			Geometric Mean	463	229
462.6	Cincinnati	04-Oct-11	40	12	
462.6	Cincinnati	11-Oct-11	51	60	
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
			Geometric Mean	184	136
619.3	Louisville	10-May-11	440	230	EXCEEDS
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	EXCEEDS
			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	EXCEEDS
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	EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
594	Louisville	26-Jul-11	120	150	
594	Louisville	28-Jul-11	880	20	EXCEEDS
			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
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	EXCEEDS
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	EXCEEDS
			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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
793.7	Evansville	28-Jun-11	1,045	945	EXCEEDS
			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	
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	EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	EXCEEDS
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	EXCEEDS
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	

FECAL- Not to exceed 400 in more than 10% of samples taken during month
Not to exceed 200 as a monthly geometric mean (at least 5 samples required)
E.COLI- Not to exceed 240 in any single sample
Not to exceed 130 as a monthly geometric mean (at least 5 samples required)

2012 OHIO RIVER BACTERIA SAMPLING

FINAL REPORT

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	EXCEEDS
1.4M	Pittsburgh	31-May-12	1,500	800	EXCEEDS
Geometric Mean			382	174	EXCEEDS
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	EXCEEDS
4.3	Pittsburgh	31-May-12	1,500	600	EXCEEDS
Geometric Mean			264	136	EXCEEDS
1.4M	Pittsburgh	05-Jun-12	670	170	EXCEEDS
1.4M	Pittsburgh	12-Jun-12	630	170	EXCEEDS
1.4M	Pittsburgh	19-Jun-12	590	340	EXCEEDS
1.4M	Pittsburgh	21-Jun-12	80	70	
1.4M	Pittsburgh	26-Jun-12	96	40	
Geometric Mean			286	122	EXCEEDS
4.3	Pittsburgh	05-Jun-12	420	170	EXCEEDS
4.3	Pittsburgh	12-Jun-12	1,045	460	EXCEEDS
4.3	Pittsburgh	19-Jun-12	550	190	EXCEEDS
4.3	Pittsburgh	21-Jun-12	100	70	
4.3	Pittsburgh	26-Jun-12	300	160	
Geometric Mean			373	175	EXCEEDS
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	EXCEEDS
1.4M	Pittsburgh	31-Jul-12	470	180	EXCEEDS
Geometric Mean			343	127	EXCEEDS
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	EXCEEDS
4.3	Pittsburgh	24-Jul-12	420	210	EXCEEDS
4.3	Pittsburgh	31-Jul-12	580	230	EXCEEDS
Geometric Mean			476	191	EXCEEDS
1.4M	Pittsburgh	07-Aug-12	4,500	3,500	EXCEEDS
1.4M	Pittsburgh	14-Aug-12	490	160	EXCEEDS
1.4M	Pittsburgh	21-Aug-12	240	150	
1.4M	Pittsburgh	23-Aug-12	280	120	
1.4M	Pittsburgh	28-Aug-12	250	280	EXCEEDS

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
			Geometric Mean	517	309 EXCEEDS
4.3	Pittsburgh	07-Aug-12	6,700	2,500	EXCEEDS
4.3	Pittsburgh	14-Aug-12	530	180	EXCEEDS
4.3	Pittsburgh	21-Aug-12	1,100	350	EXCEEDS
4.3	Pittsburgh	23-Aug-12	7,300	4,800	EXCEEDS
4.3	Pittsburgh	28-Aug-12	1,800	230	EXCEEDS
			Geometric Mean	2198	705 EXCEEDS
1.4M	Pittsburgh	04-Sep-12	510	220	EXCEEDS
1.4M	Pittsburgh	11-Sep-12	470	130	EXCEEDS
1.4M	Pittsburgh	20-Sep-12	2,100	1,100	EXCEEDS
1.4M	Pittsburgh	25-Sep-12	236	100	
1.4M	Pittsburgh	27-Sep-12	6,300	2,800	EXCEEDS
			Geometric Mean	944	388 EXCEEDS
4.3	Pittsburgh	04-Sep-12	830	320	EXCEEDS
4.3	Pittsburgh	11-Sep-12	150	450	EXCEEDS
4.3	Pittsburgh	20-Sep-12	4,300	1,700	EXCEEDS
4.3	Pittsburgh	25-Sep-12	269	84	
4.3	Pittsburgh	27-Sep-12	8,300	3,600	EXCEEDS
			Geometric Mean	1036	594 EXCEEDS
1.4M	Pittsburgh	02-Oct-12	1,000	250	EXCEEDS
1.4M	Pittsburgh	09-Oct-12	420	160	EXCEEDS
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	EXCEEDS
4.3	Pittsburgh	09-Oct-12	1,100	310	EXCEEDS
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	EXCEEDS
92.8	Wheeling	08-May-12	6,000	6,000	EXCEEDS
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 EXCEEDS
86.8	Wheeling	05-Jun-12	110	40	
86.8	Wheeling	12-Jun-12	4	4	
86.8	Wheeling	19-Jun-12	36	8	
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	EXCEEDS
92.8	Wheeling	19-Jun-12	2,700	1,100	EXCEEDS
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	EXCEEDS
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	EXCEEDS
			Geometric Mean	323	83 EXCEEDS
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	EXCEEDS
92.8	Wheeling	28-Aug-12	11,400	4,900	EXCEEDS
			Geometric Mean	643	133 EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
92.8	Wheeling	11-Sep-12	54	34	
92.8	Wheeling	18-Sep-12	1,800	300	EXCEEDS
92.8	Wheeling	20-Sep-12	1,700	164	EXCEEDS
92.8	Wheeling	25-Sep-12	200	32	
Geometric Mean			324	72	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	
314.8	Huntington	08-May-12	1,800	918	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
314.8	Huntington	11-Sep-12	12	4	
314.8	Huntington	18-Sep-12	520	209	EXCEEDS
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	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
314.8	Huntington	09-Oct-12	8	4	
314.8	Huntington	16-Oct-12	510	249	EXCEEDS
314.8	Huntington	23-Oct-12	20	4	
314.8	Huntington	30-Oct-12	630	94	EXCEEDS
		Geometric Mean	114	38	
462.6	Cincinnati	01-May-12	160	217	
462.6	Cincinnati	08-May-12	1,300	1,300	EXCEEDS
462.6	Cincinnati	15-May-12	450	460	EXCEEDS
462.6	Cincinnati	22-May-12	57	4	
462.6	Cincinnati	29-May-12	80	68	
		Geometric Mean	212	129	EXCEEDS
470	Cincinnati	01-May-12	900	500	EXCEEDS
470	Cincinnati	08-May-12	800	550	EXCEEDS
470	Cincinnati	15-May-12	2,600	590	EXCEEDS
470	Cincinnati	22-May-12	88	8	
470	Cincinnati	29-May-12	92	60	
		Geometric Mean	433	151	EXCEEDS
477.5	Cincinnati	01-May-12	700	360	EXCEEDS
477.5	Cincinnati	08-May-12	2,500	1,000	EXCEEDS
477.5	Cincinnati	15-May-12	370	718	EXCEEDS
477.5	Cincinnati	22-May-12	37	43	
477.5	Cincinnati	29-May-12	20	20	
		Geometric Mean	217	186	EXCEEDS
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	EXCEEDS
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	EXCEEDS
		Geometric Mean	173	110	
462.6	Cincinnati	07-Aug-12	745	636	EXCEEDS
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	
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	EXCEEDS

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	32	
477.5	Cincinnati	04-Sep-12	8,100	4,100	EXCEEDS
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	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	12	
470	Cincinnati	02-Oct-12	4,300	3,400	EXCEEDS
470	Cincinnati	09-Oct-12	36	16	
470	Cincinnati	16-Oct-12	360	243	EXCEEDS
470	Cincinnati	23-Oct-12	4	4	
470	Cincinnati	29-Oct-12	24	12	
			Geometric Mean	58	
477.5	Cincinnati	02-Oct-12	13,800	9,800	EXCEEDS
477.5	Cincinnati	09-Oct-12	12	4	
477.5	Cincinnati	16-Oct-12	330	360	EXCEEDS
477.5	Cincinnati	23-Oct-12	32	8	
477.5	Cincinnati	29-Oct-12	157	112	
			Geometric Mean	105	
594	Louisville	01-May-12	24	24	
594	Louisville	08-May-12	240	330	EXCEEDS
594	Louisville	15-May-12	230	310	EXCEEDS
594	Louisville	22-May-12	17	24	
594	Louisville	30-May-12	16	3,300	EXCEEDS
			Geometric Mean	181	EXCEEDS
619.3	Louisville	01-May-12	240	220	
619.3	Louisville	08-May-12	340	250	EXCEEDS
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	EXCEEDS
			Geometric Mean	235	EXCEEDS
594	Louisville	05-Jun-12	68	24	
594	Louisville	12-Jun-12	16	10	
594	Louisville	20-Jun-12	310	260	EXCEEDS
594	Louisville	26-Jun-12	92	4	
594	Louisville	28-Jun-12	4	4	
			Geometric Mean	16	
619.3	Louisville	05-Jun-12	84	77	
619.3	Louisville	12-Jun-12	1,000	600	EXCEEDS
619.3	Louisville	20-Jun-12	390	380	EXCEEDS
619.3	Louisville	26-Jun-12	80	24	
619.3	Louisville	28-Jun-12	4	4	
			Geometric Mean	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	17	
619.3	Louisville	02-Jul-12	1,400	900	EXCEEDS
619.3	Louisville	10-Jul-12	16	24	
619.3	Louisville	12-Jul-12	150	170	
619.3	Louisville	17-Jul-12	450	128	EXCEEDS
619.3	Louisville	19-Jul-12	13,000	1,600	EXCEEDS
			Geometric Mean	237	EXCEEDS
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	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	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	10	
619.3	Louisville	05-Sep-12	300	80	

MILEPOINT	STATION	DATE	FECAL COLIFORM #/100mL	E. COLI. #/100mL	
619.3	Louisville	11-Sep-12	120	84	
619.3	Louisville	19-Sep-12	430	250	EXCEEDS
619.3	Louisville	25-Sep-12	230	177	
619.3	Louisville	27-Sep-12	1,100	1,500	EXCEEDS
		Geometric Mean	330	214	EXCEEDS
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	EXCEEDS
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	EXCEEDS
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	EXCEEDS
		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	EXCEEDS
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	EXCEEDS
793.7	Evansville	24-Jul-12	470	700	EXCEEDS
793.7	Evansville	31-Jul-12	500	236	EXCEEDS
		Geometric Mean	273	108	EXCEEDS
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	EXCEEDS
793.7	Evansville	14-Aug-12	900	673	EXCEEDS
793.7	Evansville	21-Aug-12	320	116	
793.7	Evansville	23-Aug-12	128	112	
793.7	Evansville	28-Aug-12	964	390	EXCEEDS
		Geometric Mean	469	321	EXCEEDS
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	EXCEEDS
793.7	Evansville	11-Sep-12	320	370	EXCEEDS
793.7	Evansville	18-Sep-12	7,700	6,300	EXCEEDS
793.7	Evansville	20-Sep-12	104	88	
793.7	Evansville	25-Sep-12	136	108	
		Geometric Mean	445	419	EXCEEDS
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	EXCEEDS

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	

FECAL- Not to exceed 400 in more than 10% of samples taken during month
Not to exceed 200 as a monthly geometric mean (at least 5 samples required)
E.COLI- Not to exceed 240 in any single sample
Not to exceed 130 as a monthly geometric mean (at least 5 samples required)

2013 OHIO RIVER BACTERIA SAMPLING

FINAL REPORT

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
1.4M	Pittsburgh	02-Apr-13	208	36	
1.4M	Pittsburgh	09-Apr-13	60	32	
1.4M	Pittsburgh	16-Apr-13	370	160	
1.4M	Pittsburgh	23-Apr-13	184	72	
1.4M	Pittsburgh	30-Apr-13	360	120	
Geometric Mean			198	69	
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	EXCEEDS
1.4M	Pittsburgh	28-May-13	509	78	
Geometric Mean			466	103	
1.4M	Pittsburgh	04-Jun-13	310	53	
1.4M	Pittsburgh	11-Jun-13	3,900	455	EXCEEDS
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	
1.4M	Pittsburgh	02-Jul-13	5,400	636	EXCEEDS
1.4M	Pittsburgh	09-Jul-13	9,000	3,500	EXCEEDS
1.4M	Pittsburgh	16-Jul-13	220	72	
1.4M	Pittsburgh	17-Sep-13	2,500	418	EXCEEDS
1.4M	Pittsburgh	19-Sep-13	273	139	
1.4M	Pittsburgh	24-Sep-13	1,100	582	EXCEEDS
1.4M	Pittsburgh	01-Oct-13	153	89	
1.4M	Pittsburgh	08-Oct-13	20,000	3,200	EXCEEDS
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	EXCEEDS
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	EXCEEDS
Geometric Mean			260	93	
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	EXCEEDS
4.3	Pittsburgh	28-May-13	573	74	
Geometric Mean			488	121	
4.3	Pittsburgh	04-Jun-13	270	69	
4.3	Pittsburgh	11-Jun-13	4,600	609	EXCEEDS
4.3	Pittsburgh	18-Jun-13	490	152	
4.3	Pittsburgh	20-Jun-13	106	291	EXCEEDS
4.3	Pittsburgh	25-Jun-13	264	37	
Geometric Mean			443	147	EXCEEDS
4.3	Pittsburgh	02-Jul-13	5,700	1,000	EXCEEDS
4.3	Pittsburgh	09-Jul-13	7,900	3,100	EXCEEDS
4.3	Pittsburgh	17-Sep-13	418	2,700	EXCEEDS
4.3	Pittsburgh	19-Sep-13	182	100	
4.3	Pittsburgh	24-Sep-13	1,900	455	EXCEEDS
4.3	Pittsburgh	01-Oct-13	227	54	
4.3	Pittsburgh	08-Oct-13	3,700	1,900	EXCEEDS
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	
86.8	Wheeling	30-Apr-13	57	64	
Geometric Mean			82	28	
86.8	Wheeling	07-May-13	12	8	

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	
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	
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	
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	
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	
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	09-Apr-13	83	36	
92.8	Wheeling	02-Apr-13	20	16	
92.8	Wheeling	16-Apr-13	130	280	EXCEEDS
92.8	Wheeling	23-Apr-13	972	430	EXCEEDS
92.8	Wheeling	30-Apr-13	4,200	300	EXCEEDS
Geometric Mean			245	116	
92.8	Wheeling	07-May-13	1,400	2,800	EXCEEDS
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	EXCEEDS
92.8	Wheeling	04-Jun-13	991	460	EXCEEDS
92.8	Wheeling	11-Jun-13	490	140	
92.8	Wheeling	18-Jun-13	700	320	EXCEEDS
92.8	Wheeling	20-Jun-13	100	234	
92.8	Wheeling	25-Jun-13	380	680	EXCEEDS
Geometric Mean			419	319	EXCEEDS
92.8	Wheeling	02-Jul-13	2,400	960	EXCEEDS
92.8	Wheeling	09-Jul-13	13,500	8,000	EXCEEDS
92.8	Wheeling	19-Jul-13	1,560	420	EXCEEDS
92.8	Wheeling	23-Jul-13	1,600	920	EXCEEDS
92.8	Wheeling	30-Jul-13	730	240	
Geometric Mean			2,261	934	EXCEEDS
92.8	Wheeling	06-Aug-13	1,500	320	EXCEEDS
92.8	Wheeling	13-Aug-13	116	64	
92.8	Wheeling	20-Aug-13	18,000	7,900	EXCEEDS
92.8	Wheeling	22-Aug-13	1,340	670	EXCEEDS
92.8	Wheeling	27-Aug-13	142	96	
Geometric Mean			902	401	EXCEEDS
92.8	Wheeling	03-Sep-13	214	96	
92.8	Wheeling	10-Sep-13	450	60	
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	
92.8	Wheeling	01-Oct-13	20	4	
92.8	Wheeling	08-Oct-13	66	40	
92.8	Wheeling	15-Oct-13	124	510	EXCEEDS
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	
305.1	Huntington	07-May-13	8	4	

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	
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	
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	EXCEEDS
305.1	Huntington	30-Jul-13	51	28	
Geometric Mean			107	57	
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	EXCEEDS
305.1	Huntington	27-Aug-13	32	16	
Geometric Mean			72	25	
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	
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	
Geometric Mean			24	15	
305.1	Huntington	29-Oct-13	28	8	
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	
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	
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	EXCEEDS
314.8	Huntington	20-Jun-13	136	84	
314.8	Huntington	25-Jun-13	51	51	
Geometric Mean			262	155	EXCEEDS
314.8	Huntington	02-Jul-13	860	630	EXCEEDS
314.8	Huntington	09-Jul-13	346	249	EXCEEDS
314.8	Huntington	16-Jul-13	100	24	
314.8	Huntington	23-Jul-13	1,091	364	EXCEEDS
314.8	Huntington	30-Jul-13	116	57	
Geometric Mean			327	151	EXCEEDS
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	EXCEEDS
314.8	Huntington	27-Aug-13	80	16	
Geometric Mean			188	40	
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	
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	
462.6	Cincinnati	07-May-13	891	700	EXCEEDS

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	
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	
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	
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	
462.6	Cincinnati	03-Sep-13	80	63	
462.6	Cincinnati	10-Sep-13	34	20	
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	
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	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	
470	Cincinnati	07-May-13	1,040	1,010	EXCEEDS
470	Cincinnati	14-May-13	48	60	
470	Cincinnati	21-May-13	92	71	
470	Cincinnati	23-May-13	1,800	2,100	EXCEEDS
470	Cincinnati	28-May-13	20	28	
Geometric Mean			175	191	EXCEEDS
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	
470	Cincinnati	02-Jul-13	480	469	EXCEEDS
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	
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	
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	
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	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	
477.5	Cincinnati	07-May-13	2,400	3,600	EXCEEDS

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
477.5	Cincinnati	14-May-13	68	76	EXCEEDS
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	EXCEEDS
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	
477.5	Cincinnati	02-Jul-13	460	718	EXCEEDS
477.5	Cincinnati	09-Jul-13	380	400	EXCEEDS
477.5	Cincinnati	16-Jul-13	223	212	EXCEEDS
477.5	Cincinnati	23-Jul-13	320	340	
477.5	Cincinnati	30-Jul-13	37	24	
Geometric Mean			215	218	
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	
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	
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	EXCEEDS
Geometric Mean			36	24	
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	
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	
594	Louisville	02-Jul-13	280	96	
594	Louisville	09-Jul-13	770	580	
594	Louisville	17-Jul-13	92	54	EXCEEDS
594	Louisville	23-Jul-13	48	40	
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	
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	
594	Louisville	04-Oct-13	8	4	
594	Louisville	08-Oct-13	650	510	
594	Louisville	16-Oct-13	36	20	EXCEEDS
594	Louisville	22-Oct-13	12	10	
594	Louisville	29-Oct-13	4	8	
Geometric Mean			25	20	
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	
619.3	Louisville	08-May-13	360	420	
619.3	Louisville	14-May-13	136	174	

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
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	
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	
619.3	Louisville	02-Jul-13	980	680	EXCEEDS
619.3	Louisville	09-Jul-13	480	280	EXCEEDS
619.3	Louisville	17-Jul-13	60	46	
619.3	Louisville	23-Jul-13	490	410	EXCEEDS
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	
619.3	Louisville	05-Sep-13	12	12	
619.3	Louisville	10-Sep-13	140	43	
619.3	Louisville	17-Sep-13	48	300	EXCEEDS
619.3	Louisville	24-Sep-13	28	16	
619.3	Louisville	26-Sep-13	20	16	
		Geometric Mean	34	33	
619.3	Louisville	04-Oct-13	600	520	EXCEEDS
619.3	Louisville	08-Oct-13	790	580	EXCEEDS
619.3	Louisville	16-Oct-13	224	132	
619.3	Louisville	22-Oct-13	864	827	EXCEEDS
619.3	Louisville	29-Oct-13	4	20	
		Geometric Mean	206	231	EXCEEDS
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	
791.5	Evansville	07-May-13	340	390	EXCEEDS
791.5	Evansville	14-May-13	144	190	
791.5	Evansville	21-May-13	71	130	
791.5	Evansville	23-May-13	28	566	EXCEEDS
791.5	Evansville	28-May-13	36	24	
		Geometric Mean	81	167	EXCEEDS
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	EXCEEDS
		Geometric Mean	140	137	EXCEEDS
791.5	Evansville	02-Jul-13	230	144	
791.5	Evansville	09-Jul-13	600	500	EXCEEDS
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	EXCEEDS
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	
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	
791.5	Evansville	01-Oct-13	24	4	
791.5	Evansville	08-Oct-13	900	400	EXCEEDS
791.5	Evansville	15-Oct-13	16	20	
791.5	Evansville	22-Oct-13	4	30	
791.5	Evansville	29-Oct-13	12	4	
		Geometric Mean	28	21	
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	
793.7	Evansville	07-May-13	590	650	EXCEEDS
793.7	Evansville	14-May-13	260	240	
793.7	Evansville	21-May-13	7,500	8,700	EXCEEDS

MILEPOINT	STATION		FECAL COLIFORM #/100mL	E. COLI. #/100mL	
793.7	Evansville	23-May-13	700	900	EXCEEDS
793.7	Evansville	28-May-13	290	217	
		Geometric Mean	748	767	EXCEEDS
793.7	Evansville	04-Jun-13	136	144	
793.7	Evansville	11-Jun-13	56	24	
793.7	Evansville	18-Jun-13	350	310	EXCEEDS
793.7	Evansville	20-Jun-13	230	171	
793.7	Evansville	25-Jun-13	1,800	4,100	EXCEEDS
		Geometric Mean	256	237	EXCEEDS
793.7	Evansville	02-Jul-13	540	480	EXCEEDS
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	EXCEEDS
793.7	Evansville	23-Jul-13	210	140	
		Geometric Mean	576	274	EXCEEDS
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	
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	EXCEEDS
793.7	Evansville	24-Sep-13	70	24	
		Geometric Mean	292	82	
793.7	Evansville	01-Oct-13	170	130	
793.7	Evansville	08-Oct-13	1,000	1,000	EXCEEDS
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	

There currently is no fecal coliform standard for human health criteria so there will be no exceedances

E.COLI-

Not to exceed 240 in any single sample

Not to exceed 130 as a monthly geometric mean (at least 5 samples required)

Appendix H:

MORFin Scores

Mile Point	Pool	Year	Habitat Type	Expected ORFn	Observed ORFn	m ORFn Score	Biological Condition	Overall Pool Biological Condition
0.1	Emsworth	2012	B	46.71	31.43	7.24	Very Poor	Fair
0.4	Emsworth	2012	C	44.55	55.75	33.95	Good	
1.7	Emsworth	2012	A	50.03	33.22	7.16	Very Poor	
6.7	Dashields	2013	A	50.03	54.04	26.75	Fair	Good
7.1	Dashields	2013	C	44.55	29.98	9.92	Very Poor	
7.3	Dashields	2013	C	44.55	57.09	35.46	Good	
7.6	Dashields	2013	C	44.55	57.75	36.19	Good	
8.6	Dashields	2013	C	44.55	54.85	32.94	Good	
8.9	Dashields	2013	B	46.71	53.97	28.71	Fair	
8.9	Dashields	2013	C	44.55	68.46	46.08	Very Good	
10	Dashields	2013	B	46.71	50.10	24.06	Fair	
10.8	Dashields	2013	C	44.55	64.87	43.09	Very Good	
11.2	Dashields	2013	C	44.55	33.58	12.39	Poor	
11.2	Dashields	2013	B	46.71	38.91	11.15	Poor	
11.5	Dashields	2013	D	41.80	64.52	46.20	Very Good	
11.9	Dashields	2013	B	46.71	63.25	39.40	Good	
12.3	Dashields	2013	B	46.71	57.89	33.26	Good	
12.6	Dashields	2013	C	44.55	58.53	37.07	Good	
13.7	Montgomery	2010	B	46.71	78.78	55.34	Excellent	Good
14.1	Montgomery	2010	B	46.71	73.12	47.83	Very Good	
14.8	Montgomery	2010	D	41.80	61.53	43.39	Very Good	
15.3	Montgomery	2010	B	46.71	55.45	30.46	Good	
16.5	Montgomery	2010	C	44.55	59.09	37.70	Good	
16.8	Montgomery	2010	B	46.71	59.46	35.06	Good	
18.3	Montgomery	2010	B	46.71	28.76	6.09	Very Poor	
18.6	Montgomery	2010	C	44.55	70.83	48.04	Very Good	
25.3	Montgomery	2010	D	41.80	43.43	22.06	Fair	
25.9	Montgomery	2010	B	46.71	55.69	30.74	Good	
27.3	Montgomery	2010	B	46.71	46.33	19.57	Poor	
27.9	Montgomery	2010	C	44.55	55.76	33.97	Good	
28.7	Montgomery	2010	C	44.55	50.13	27.27	Fair	
30.4	Montgomery	2010	C	44.55	52.98	30.84	Good	
30.7	Montgomery	2010	C	44.55	48.03	24.54	Fair	
32.3	New Cumberland	2011	D	41.80	54.20	35.47	Good	Fair
33.6	New Cumberland	2011	C	44.55	64.03	42.40	Very Good	
34.2	New Cumberland	2011	C	44.55	48.72	25.43	Fair	
35.2	New Cumberland	2011	C	44.55	67.13	44.97	Very Good	
35.6	New Cumberland	2011	B	46.71	42.49	15.21	Poor	
37.2	New Cumberland	2011	D	41.80	45.35	24.48	Fair	
39	New Cumberland	2011	C	44.55	35.67	13.84	Poor	
41	New Cumberland	2011	C	44.55	49.91	26.98	Fair	
42	New Cumberland	2011	B	46.71	50.62	24.69	Fair	
42.7	New Cumberland	2011	B	46.71	45.35	18.46	Poor	

Mile Point	Pool	Year	Habitat Type	Expected ORFIn	Observed ORFIn	m ORFIn Score	Biological Condition	Overall Pool Biological Condition
43.5	New Cumberland	2011	B	46.71	43.16	15.97	Poor	Fair
47	New Cumberland	2011	A	50.03	34.70	8.40	Very Poor	
49.4	New Cumberland	2011	C	44.55	45.24	20.90	Fair	
52.2	New Cumberland	2011	A	50.03	40.69	13.03	Poor	
52.5	New Cumberland	2011	B	46.71	54.70	29.57	Fair	
55.2	Pike Island	2012	C	44.55	65.19	43.36	Very Good	Good
56.8	Pike Island	2012	C	44.55	54.96	33.06	Good	
57.5	Pike Island	2012	C	44.55	61.55	40.34	Very Good	
63.1	Pike Island	2012	D	41.80	38.00	16.29	Poor	
64.2	Pike Island	2012	B	46.71	68.59	44.04	Very Good	
64.9	Pike Island	2012	A	50.03	55.03	28.41	Fair	
65.1	Pike Island	2012	C	44.55	54.63	32.70	Good	
66.8	Pike Island	2012	C	44.55	48.51	25.16	Fair	
70	Pike Island	2012	B	46.71	61.42	37.31	Good	
71.4	Pike Island	2012	C	44.55	67.81	45.54	Very Good	
72.1	Pike Island	2012	C	44.55	53.51	31.43	Good	
75.2	Pike Island	2012	A	50.03	41.14	13.37	Poor	
75.4	Pike Island	2012	C	44.55	53.61	31.54	Good	
80.2	Pike Island	2012	C	44.55	40.97	17.52	Poor	
83.7	Pike Island	2012	D	41.80	53.11	34.15	Good	
84.9	Hannibal	2013	C	44.55	63.82	42.23	Very Good	Good
86.7	Hannibal	2013	C	44.55	64.61	42.88	Very Good	
88.6	Hannibal	2013	C	44.55	65.68	43.76	Very Good	
94.3	Hannibal	2013	C	44.55	66.27	44.26	Very Good	
96.5	Hannibal	2013	C	44.55	64.66	42.92	Very Good	
99.5	Hannibal	2013	B	46.71	52.33	26.74	Fair	
103.2	Hannibal	2013	C	44.55	42.50	18.58	Poor	
105.3	Hannibal	2013	B	46.71	51.08	25.24	Fair	
107.7	Hannibal	2013	C	44.55	41.65	17.99	Poor	
109.7	Hannibal	2013	C	44.55	49.90	26.96	Fair	
111.1	Hannibal	2013	B	46.71	69.50	44.80	Very Good	
111.9	Hannibal	2013	B	46.71	61.25	37.11	Good	
116.5	Hannibal	2013	D	41.80	58.35	40.42	Very Good	
118.6	Hannibal	2013	C	44.55	46.35	22.35	Fair	
122.2	Hannibal	2013	E	39.59	59.24	40.08	Very Good	
130.7	Willow Island	2011	D	41.80	65.76	47.36	Very Good	Fair
134.9	Willow Island	2011	C	44.55	54.02	32.00	Good	
136.4	Willow Island	2011	C	44.55	50.34	27.54	Fair	
139.1	Willow Island	2011	D	41.80	60.31	42.26	Very Good	
139.4	Willow Island	2011	D	41.80	43.92	22.68	Fair	
139.8	Willow Island	2011	D	41.80	42.50	20.89	Fair	
142.6	Willow Island	2011	D	41.80	48.85	28.90	Fair	
142.9	Willow Island	2011	D	41.80	48.72	28.74	Fair	

Mile Point	Pool	Year	Habitat Type	Expected ORFIn	Observed ORFIn	m ORFIn Score	Biological Condition	Overall Pool Biological Condition
143	Willow Island	2011	B	46.71	52.41	26.83	Fair	Fair
143.8	Willow Island	2011	C	44.55	32.73	11.80	Poor	
144.1	Willow Island	2011	D	41.80	44.04	22.83	Fair	
148.7	Willow Island	2011	D	41.80	54.95	36.40	Good	
150.9	Willow Island	2011	C	44.55	45.99	21.87	Fair	
153.8	Willow Island	2011	D	41.80	48.22	28.11	Fair	
160.8	Willow Island	2011	B	46.71	45.88	19.06	Poor	
163.9	Belleville	2009	C	44.55	67.39	45.19	Very Good	Good
166.9	Belleville	2009	D	41.80	70.74	52.57	Excellent	
170.3	Belleville	2009	C	44.55	50.50	27.74	Fair	
170.4	Belleville	2009	C	44.55	63.62	42.06	Very Good	
170.8	Belleville	2009	C	44.55	54.89	32.99	Good	
171.1	Belleville	2009	C	44.55	57.53	35.95	Good	
171.1	Belleville	2009	D	41.80	56.37	38.13	Good	
174.3	Belleville	2009	C	44.55	39.84	16.74	Poor	
179.3	Belleville	2009	C	44.55	54.53	32.58	Good	
185.1	Belleville	2009	B	46.71	48.42	22.05	Fair	
186.4	Belleville	2009	D	41.80	48.62	28.61	Fair	
189.3	Belleville	2009	C	44.55	61.99	40.71	Very Good	
191	Belleville	2009	B	46.71	54.98	29.91	Fair	
193.5	Belleville	2009	C	44.55	57.50	35.91	Good	
194.6	Belleville	2009	B	46.71	59.54	35.15	Good	
204.4	Racine	2010	B	46.71	64.53	40.64	Very Good	Fair
208.6	Racine	2010	B	46.71	41.36	13.94	Poor	
215.3	Racine	2010	B	46.71	56.83	32.04	Good	
217.7	Racine	2010	D	41.80	52.45	33.34	Good	
218.1	Racine	2010	E	39.59	26.36	0.00	Very Poor	
218.5	Racine	2010	C	44.55	55.86	34.07	Good	
222.7	Racine	2010	D	41.80	30.07	8.90	Very Poor	
223.9	Racine	2010	C	44.55	49.94	27.02	Fair	
227.1	Racine	2010	E	39.59	45.63	25.52	Fair	
227.9	Racine	2010	D	41.80	55.11	36.59	Good	
228	Racine	2010	D	41.80	41.28	19.49	Poor	
231.7	Racine	2010	E	39.59	43.71	23.76	Fair	
232.5	Racine	2010	D	41.80	27.10	6.68	Very Poor	
234.1	Racine	2010	D	41.80	32.91	11.32	Poor	
234.7	Racine	2010	D	41.80	23.43	3.95	Very Poor	
238.7	Robert C. Byrd	2013	C	44.55	64.54	42.82	Very Good	Fair
239.2	Robert C. Byrd	2013	C	44.55	52.95	30.81	Good	
240.8	Robert C. Byrd	2013	B	46.71	50.13	24.10	Fair	
249.7	Robert C. Byrd	2013	D	41.80	39.90	18.14	Poor	
252.5	Robert C. Byrd	2013	C	44.55	72.29	49.26	Very Good	
253	Robert C. Byrd	2013	C	44.55	63.21	41.72	Very Good	

Mile Point	Pool	Year	Habitat Type	Expected ORFIn	Observed ORFIn	m ORFIn Score	Biological Condition	Overall Pool Biological Condition
258	Robert C. Byrd	2013	E	39.59	47.85	27.55	Fair	Good
260.9	Robert C. Byrd	2013	C	44.55	66.87	44.76	Very Good	
261.3	Robert C. Byrd	2013	D	41.80	63.79	45.52	Very Good	
263.9	Robert C. Byrd	2013	D	41.80	64.35	46.04	Very Good	
268.6	Robert C. Byrd	2013	E	39.59	47.29	27.04	Fair	
270.3	Robert C. Byrd	2013	D	41.80	41.16	19.38	Poor	
270.9	Robert C. Byrd	2013	D	41.80	32.03	10.47	Poor	
278	Robert C. Byrd	2013	E	39.59	36.05	14.96	Poor	
278.1	Robert C. Byrd	2013	C	44.55	43.81	19.49	Poor	
283	Greenup	2011	C	44.55	49.85	26.90	Fair	Good
288.2	Greenup	2011	e	39.59	57.21	37.72	Good	
292.4	Greenup	2011	C	44.55	63.53	41.98	Very Good	
299.3	Greenup	2011	C	44.55	48.37	24.98	Fair	
307.3	Greenup	2011	D	41.80	50.98	31.55	Good	
309.1	Greenup	2011	D	41.80	60.01	41.97	Very Good	
311.6	Greenup	2011	C	44.55	60.81	39.63	Good	
313.6	Greenup	2011	D	41.80	73.01	55.26	Excellent	
316.8	Greenup	2011	D	41.80	53.63	34.78	Good	
318.9	Greenup	2011	C	44.55	54.73	32.81	Good	
321.1	Greenup	2011	B	46.71	74.49	48.98	Very Good	
322	Greenup	2011	C	44.55	72.81	49.69	Very Good	
329.2	Greenup	2011	E	39.59	47.69	27.41	Fair	
331.8	Greenup	2011	D	41.80	56.03	37.72	Good	
337.6	Greenup	2011	E	39.59	60.29	41.37	Very Good	
344.6	Meldahl	2012	A	50.03	82.18	60.00	Excellent	Good
348	Meldahl	2012	C	44.55	65.51	43.63	Very Good	
360.8	Meldahl	2012	E	39.59	63.65	45.53	Very Good	
374.2	Meldahl	2012	D	41.80	43.35	21.96	Fair	
374.8	Meldahl	2012	C	44.55	65.49	43.61	Very Good	
376.3	Meldahl	2012	E	39.59	57.81	38.42	Good	
387.3	Meldahl	2012	E	39.59	55.48	35.72	Good	
392.7	Meldahl	2012	D	41.80	46.71	26.20	Fair	
394.9	Meldahl	2012	D	41.80	59.76	41.74	Very Good	
395.1	Meldahl	2012	E	39.59	66.31	48.83	Very Good	
402.6	Meldahl	2012	E	39.59	70.33	60.00	Excellent	
405.3	Meldahl	2012	C	44.55	42.88	18.84	Poor	
431.5	Meldahl	2012	D	41.80	52.51	33.41	Good	
433	Meldahl	2012	E	39.59	57.39	37.93	Good	
434.7	Meldahl	2012	C	44.55	64.24	42.57	Very Good	
438.1	Markland	2009	A	50.03	68.52	45.96	Very Good	
445.7	Markland	2009	D	41.80	58.61	40.66	Very Good	
458.2	Markland	2009	D	41.80	50.75	31.26	Good	
469.2	Markland	2009	C	44.55	56.83	35.17	Good	

Mile Point	Pool	Year	Habitat Type	Expected ORFIn	Observed ORFIn	m ORFIn Score	Biological Condition	Overall Pool Biological Condition
473	Markland	2009	A	50.03	70.27	47.72	Very Good	Very Good
477.7	Markland	2009	D	41.80	47.91	27.71	Fair	
487.5	Markland	2009	E	39.59	58.66	39.40	Good	
490.1	Markland	2009	B	46.71	81.19	59.53	Excellent	
508.9	Markland	2009	D	41.80	59.19	41.21	Very Good	
511.9	Markland	2009	D	41.80	68.29	49.72	Very Good	
519	Markland	2009	D	41.80	69.77	51.42	Excellent	
519.6	Markland	2009	C	44.55	71.19	48.34	Very Good	
527.2	Markland	2009	D	41.80	61.06	42.96	Very Good	
528.8	Markland	2009	D	41.80	65.51	47.13	Very Good	
530.8	Markland	2009	D	41.80	60.21	42.16	Very Good	
534.1	McAlpine	2009	D	41.80	59.14	41.16	Very Good	Good
540.4	McAlpine	2009	D	41.80	57.51	39.52	Good	
544.5	McAlpine	2009	C	44.55	64.42	42.72	Very Good	
547.1	McAlpine	2009	C	44.55	59.87	38.58	Good	
549.5	McAlpine	2009	D	41.80	49.31	29.48	Fair	
550.2	McAlpine	2009	D	41.80	66.85	48.38	Very Good	
556.1	McAlpine	2009	C	44.55	47.06	23.27	Fair	
571.9	McAlpine	2009	B	46.71	63.97	40.17	Very Good	
575.4	McAlpine	2009	B	46.71	73.51	48.15	Very Good	
585.1	McAlpine	2009	B	46.71	24.95	4.46	Very Poor	
585.9	McAlpine	2009	D	41.80	52.67	33.61	Good	
586.7	McAlpine	2009	B	46.71	49.44	23.28	Fair	
596.4	McAlpine	2009	D	41.80	54.59	35.96	Good	
597.2	McAlpine	2009	D	41.80	49.02	29.12	Fair	
600	McAlpine	2009	D	41.80	67.64	49.12	Very Good	
610.5	Cannelton	2011	B	46.71	54.42	29.25	Fair	Very Good
612.8	Cannelton	2011	D	41.80	59.17	41.19	Very Good	
614.9	Cannelton	2011	D	41.80	68.22	49.67	Very Good	
615.6	Cannelton	2011	C	44.55	61.70	40.46	Very Good	
634.1	Cannelton	2011	D	41.80	40.39	18.63	Poor	
638.1	Cannelton	2011	D	41.80	62.53	44.34	Very Good	
641	Cannelton	2011	D	41.80	65.94	47.52	Very Good	
656.8	Cannelton	2011	C	44.55	58.02	36.50	Good	
658.2	Cannelton	2011	B	46.71	75.87	50.27	Excellent	
659.7	Cannelton	2011	D	41.80	72.41	54.56	Excellent	
681.7	Cannelton	2011	D	41.80	47.29	26.93	Fair	
692.4	Cannelton	2011	D	41.80	66.36	47.92	Very Good	
695.9	Cannelton	2011	D	41.80	70.88	52.73	Excellent	
705.8	Cannelton	2011	D	41.80	71.38	53.33	Excellent	
707.4	Cannelton	2011	E	39.59	71.14	60.00	Excellent	
722.4	Newburgh	2012	D	41.80	76.22	59.08	Excellent	Very Good
723.4	Newburgh	2012	E	39.59	61.60	43.00	Very Good	

Mile Point	Pool	Year	Habitat Type	Expected ORFn	Observed ORFn	m ORFn Score	Biological Condition	Overall Pool Biological Condition
730.6	Newburgh	2012	B	46.71	66.92	42.64	Very Good	Very Good
734.4	Newburgh	2012	D	41.80	57.91	40.01	Very Good	
737.5	Newburgh	2012	D	41.80	68.21	49.66	Very Good	
741.3	Newburgh	2012	D	41.80	77.02	60.00	Excellent	
742.6	Newburgh	2012	D	41.80	56.58	38.39	Good	
745.5	Newburgh	2012	D	41.80	70.66	52.47	Excellent	
746.4	Newburgh	2012	D	41.80	65.26	46.89	Very Good	
754.4	Newburgh	2012	C	44.55	61.23	40.08	Very Good	
768.1	Newburgh	2012	E	39.59	60.98	42.23	Very Good	
769.5	Newburgh	2012	D	41.80	68.02	49.48	Very Good	
772.1	Newburgh	2012	D	41.80	61.05	42.95	Very Good	
772.4	Newburgh	2012	D	41.80	44.96	23.99	Fair	
774.6	Newburgh	2012	D	41.80	75.80	58.59	Excellent	
778.1	John T. Myers	2010	C	44.55	71.01	48.19	Very Good	Good
787.4	John T. Myers	2010	D	41.80	47.58	27.29	Fair	
792.2	John T. Myers	2010	D	41.80	57.21	39.15	Good	
795.3	John T. Myers	2010	D	41.80	58.59	40.65	Very Good	
796.5	John T. Myers	2010	D	41.80	46.45	25.87	Fair	
801.9	John T. Myers	2010	C	44.55	62.65	41.25	Very Good	
802.4	John T. Myers	2010	D	41.80	47.23	26.85	Fair	
802.8	John T. Myers	2010	D	41.80	56.98	38.87	Good	
808.9	John T. Myers	2010	D	41.80	45.83	25.09	Fair	
813.7	John T. Myers	2010	D	41.80	54.17	35.44	Good	
814.6	John T. Myers	2010	C	44.55	61.17	40.03	Very Good	
814.9	John T. Myers	2010	C	44.55	53.91	31.88	Good	
816.9	John T. Myers	2010	E	39.59	48.93	28.54	Fair	
823.4	John T. Myers	2010	E	39.59	60.73	41.92	Very Good	
825.5	John T. Myers	2010	D	41.80	65.13	46.77	Very Good	
846.8	Smithland	2013	E	39.59	54.78	34.91	Good	Good
847.1	Smithland	2013	D	41.80	45.04	24.09	Fair	
863	Smithland	2013	E	39.59	30.99	0.00	Very Poor	
866.9	Smithland	2013	D	41.80	49.11	29.23	Fair	
878.1	Smithland	2013	D	41.80	48.86	28.91	Fair	
878.4	Smithland	2013	D	41.80	39.56	17.81	Poor	
882.2	Smithland	2013	E	39.59	53.15	33.03	Good	
883.3	Smithland	2013	E	39.59	50.99	30.53	Good	
893.7	Smithland	2013	D	41.80	59.39	41.40	Very Good	
895.9	Smithland	2013	D	41.80	57.79	39.86	Good	
909.9	Smithland	2013	D	41.80	58.46	40.53	Very Good	
912.9	Smithland	2013	E	39.59	55.76	36.05	Good	
913.5	Smithland	2013	D	41.80	50.37	30.79	Good	
914	Smithland	2013	E	39.59	56.79	37.23	Good	
917.7	Smithland	2013	B	46.71	68.31	43.81	Very Good	

Mile Point	Pool	Year	Habitat Type	Expected ORFIn	Observed ORFIn	m ORFIn Score	Biological Condition	Overall Pool Biological Condition
919.2	Olmsted	2009	D	41.80	48.84	28.89	Fair	Good
921.5	Olmsted	2009	D	41.80	70.03	51.72	Excellent	
924.7	Olmsted	2009	D	41.80	58.88	40.92	Very Good	
926.5	Olmsted	2009	D	41.80	69.01	50.51	Excellent	
928	Olmsted	2009	C	44.55	64.98	43.19	Very Good	
935.6	Olmsted	2009	D	41.80	63.35	45.10	Very Good	
937.7	Olmsted	2009	B	46.71	78.39	54.67	Excellent	
939.4	Olmsted	2009	D	41.80	36.36	14.69	Poor	
940.4	Olmsted	2009	D	41.80	30.21	9.00	Very Poor	
950.2	Olmsted	2009	D	41.80	31.19	9.73	Very Poor	
950.4	Olmsted	2009	C	44.55	47.57	23.93	Fair	
952.2	Olmsted	2009	D	41.80	41.71	19.92	Poor	
953.7	Olmsted	2009	C	44.55	52.96	30.82	Good	
954.3	Olmsted	2009	C	44.55	42.40	18.51	Poor	
961.1	Olmsted	2009	D	41.80	33.07	11.48	Poor	
970.2	Open Water	2009	D	41.80	48.55	28.52	Fair	Not Assessed
977.2	Open Water	2009	A	50.03	59.17	34.84	Good	
977.2	Open Water	2009	A	50.03	59.17	34.84	Good	

Appendix I:

Fish Tissue Methyl Mercury Results

Sample River Mile	Pool	Year	Species	Trophic Level	Avg Length (cm)	Avg Weight (kg)	MeHg Result (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	1.80	0.123	3	
2	Emsworth	2011	freshwater drum	3	50.67	3.10	0.265	3	
2	Emsworth	2011	smallmouth bass	4	29	0.30	0.104	3	
3	Emsworth	2013	channel catfish	4	49.7	1.37	0.0776	3	
5.2	Emsworth	2012	smallmouth buffalo	3	50		0.0786	3	
7	Dashields	2011	common carp	3	54	2.27	0.106	2	0.16
7	Dashields	2011	freshwater drum	3	51	1.56	0.226	2	
7	Dashields	2011	sauger	4	38.7	0.42	0.151	3	
7	Dashields	2011	walleye	4	51	1.05	0.131	2	
9	Dashields	2013	freshwater drum	3	42.2	0.96	0.184	3	
10	Dashields	2013	smallmouth buffalo	3	45.8	1.52	0.167	3	
10	Dashields	2013	sauger	4	35.3	0.34	0.181	3	
10	Dashields	2013	walleye	4	47.5	0.87	0.187	3	
26	Montgomery	2013	freshwater drum	3	34.2	0.57	0.0922	3	0.13
26	Montgomery	2013	smallmouth buffalo	3	50.8	1.80	0.167	3	
26	Montgomery	2011	smallmouth bass	4	40.7	0.85	0.139	3	
28	Montgomery	2011	channel catfish	4	50.3	1.02	0.123	3	
28	Montgomery	2011	white bass	4	38	0.71	0.145	3	
36	New Cumberland	2011	freshwater drum	3	50.67	1.86	0.268	3	0.19
36	New Cumberland	2011	smallmouth bass	4	42.7	0.92	0.257	3	
43	New Cumberland	2013	smallmouth buffalo	3	50.3	2.07	0.141	3	
47	New Cumberland	2011	walleye	4	41		0.0622	1	
55.2	Pike Island	2012	bluegill	3	13.9		0.0249	3	0.15
56	Pike Island	2010	hybrid striper	4	56.16667	2.25	0.279	3	
66	Pike Island	2013	smallmouth bass	4	37.5	0.68	0.125	3	
69	Pike Island	2010	freshwater drum	3	59.33	2.75	0.189	3	
85	Hannibal	2013	smallmouth buffalo	3	49.2	1.52	0.0838	3	0.22
86.7	Hannibal	2012	smallmouth buffalo	3	54.5	2.57	0.258	3	
87	Hannibal	2013	smallmouth bass	4	41.3	1.14	0.152	3	
91	Hannibal	2010	freshwater drum	3	60.33	2.47	0.374	3	
91	Hannibal	2010	hybrid striper	4	56.16667	2.43	0.644	3	
91.3	Hannibal	2012	common carp	3	60	2.92	0.204	3	
91.3	Hannibal	2012	smallmouth buffalo	3	45.17	1.35	0.0711	3	
105	Hannibal	2009	hybrid striper	4	57.86666	2.92	0.251	3	
105	Hannibal	2009	hybrid striper	4	61.4	3.48	0.152	3	
108	Hannibal	2013	common carp	3	59.8	2.93	0.115	3	
113.8	Hannibal	2010	freshwater drum	3	64.83	2.92	0.297	3	

Sample River Mile	Pool	Year	Species	Trophic Level	Avg Length (cm)	Avg Weight (kg)	MeHg Result (mg/kg)	# Fish in sample	Consumption-Weighted Pool Avg MeHG in Fish Tissue (mg/kg)
126.5	Willow Island	2010	largemouth bass	4	32.33333	0.37	0.135	3	0.14
127	Willow Island	2013	bluegill	3	16	0.09	0.03	3	
127	Willow Island	2012	bluegill	3	16.9		0.027	3	
127	Willow Island	2013	common carp	3	55.3	2.27	0.145	3	
127	Willow Island	2012	common carp	3	66		0.111	3	
127	Willow Island	2012	freshwater drum	3	51		0.113	3	
127	Willow Island	2013	smallmouth buffalo	3	51.3	2.05	0.201	3	
127	Willow Island	2012	smallmouth buffalo	3	54.2		0.116	3	
127	Willow Island	2012	walleye	4	56.8		0.214	3	
137.8	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	
162	Belleville	2010	freshwater drum	3	63.17	3.62	0.202	3	0.19
162	Belleville	2010	hybrid striper	4	65.5	4.08	0.403	3	
169	Belleville	2012	silver redhorse	3	48	1.15	0.0856	3	
169	Belleville	2012	smallmouth buffalo	3	46.5	1.45	0.111	3	
171	Belleville	2010	largemouth bass	4	32	0.40	0.134	3	
204	Racine	2010	freshwater drum	3	63	3.75	0.441	3	0.19
204	Racine	2010	channel catfish	4	57	1.97	0.158	3	
220	Racine	2010	largemouth bass	4	35.33333	0.57	0.197	3	
220.6	Racine	2012	bluegill	3	14.27	0.23	0.0925	3	
220.6	Racine	2012	common carp	3	64	4.07	0.0872	3	
220.6	Racine	2012	silver redhorse	3	41.6	0.87	0.0541	3	
220.6	Racine	2012	spotted bass	4	35.5	0.61	0.301	3	
266	RC Byrd	2013	freshwater drum	3	39.7	0.81	0.188	3	
270	RC Byrd	2012	smallmouth buffalo	3	50.53	1.82	0.242	3	
276	RC Byrd	2012	common carp	3	64.3	4.02	0.125	3	
276	RC Byrd	2012	channel catfish	4	52.67	2.77	0.221	3	
278	RC Byrd	2013	largemouth bass	4	37		0.00103	3	
278	RC Byrd	2013	sauger	4	43.5		0.163	3	
279.3	Greenup	2010	freshwater drum	3	63.33	3.07	0.361	3	0.17
281	Greenup	2010	hybrid striper	4	58	2.86	0.351	3	
287	Greenup	2012	common carp	3	60	3.64	0.105	3	
287.5	Greenup	2012	smallmouth buffalo	3	52	2.58	0.215	3	
287.5	Greenup	2012	white crappie	3	28	0.14	0.0964	3	
309	Greenup	2010	channel catfish	4	58.5	1.92	0.111	3	
326	Greenup	2013	bluegill	3	17.6		0.0556	4	
326	Greenup	2013	common carp	3	58.3		0.106	3	
326	Greenup	2013	hybrid striper	4	51.7	1.89	0.294	3	
326	Greenup	2013	largemouth bass	4	37.7	0.91	0.148	3	
326	Greenup	2013	sauger	4	41.2		0.299	3	
331	Greenup	2010	largemouth bass	4	35.06667		0.186	3	
341.5	Meldahl	2010	freshwater drum	3	63	2.70	0.274	3	0.20
341.5	Meldahl	2010	largemouth bass	4	40.33333	0.83	0.125	3	
355	Meldahl	2010	hybrid striper	4	58.66667	3.20	0.255	3	
356.7	Meldahl	2012	common carp	3	73.2	6.14	0.106	3	
356.7	Meldahl	2012	flathead catfish	4	59.67	2.58	0.268	3	

Sample River Mile	Pool	Year	Species	Trophic Level	Avg Length (cm)	Avg Weight (kg)	MeHg Result (mg/kg)	# Fish in sample	Consumption-Weighted Pool Avg MeHG in Fish Tissue (mg/kg)
463.5	Markland	2012	common carp	3	71	6.29	0.11	3	0.23
463.5	Markland	2012	smallmouth buffalo	3	54.5	2.57	0.279	3	
463.5	Markland	2010	channel catfish	4	60.83333	2.65	0.0396	3	
463.5	Markland	2012	flathead catfish	4	67.83	4.09	0.339	3	
463.5	Markland	2010	hybrid striper	4	57.66667	2.55	0.24	3	
463.5	Markland	2010	hybrid striper	4	63	3.22	0.386	3	
470	Markland	2010	freshwater drum	3	56.33	2.55	0.296	3	
497	Markland	2010	largemouth bass	4	40.66667	1.10	0.307	3	
500	Markland	2010	channel catfish	4	60.66667	2.08	0.171	3	0.20
532	McAlpine	2010	hybrid striper	4	52.5	2.08	0.452	3	
532	McAlpine	2010	hybrid striper	4	56.7	2.52	0.199	3	
537	McAlpine	2010	channel catfish	4	57.56667	1.95	0.251	3	
537	McAlpine	2010	largemouth bass	4	37.13334	0.78	0.169	3	
541	McAlpine	2010	freshwater drum	3	50.5	2.03	0.213	3	
546	McAlpine	2013	smallmouth buffalo	3	46	1.55	0.148	2	
546	McAlpine	2013	hybrid striper	4	46.7	1.47	0.213	3	
606.4	Cannelton	2010	channel catfish	4	59.33333	1.80	0.128	3	0.18
607.4	Cannelton	2010	freshwater drum	3	49.75	1.41	0.181	4	
607.5	Cannelton	2011	striped bass	4	58.3	2.02	0.365	3	
607.9	Cannelton	2010	hybrid striper	4	66	2.82	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	
721	Newburgh	2011	freshwater drum	3	44.9		0.289	3	0.16
730.6	Newburgh	2012	spotted bass	4	31.3		0.16	3	
740	Newburgh	2012	common carp	3	70	5.00	0.203	3	
745	Newburgh	2010	freshwater drum	3	54.67	1.97	0.118	3	
745	Newburgh	2010	hybrid striper	4	48	1.66	0.13	3	
757.6	Newburgh	2012	black buffalo	3	56.2	2.59	0.103	3	
757.6	Newburgh	2012	smallmouth buffalo	3	45	1.52	0.168	3	
776.2	JT Myers	2010	freshwater drum	3	53.5	3.40	0.304	3	0.22
776.2	JT Myers	2010	freshwater drum	3	62.67	2.08	0.357	3	
776.2	JT Myers	2010	channel catfish	4	50.66667	1.10	0.0563	3	
776.2	JT Myers	2010	hybrid striper	4	63	2.57	0.86	3	
776.5	JT Myers	2009	hybrid striper	4	57.53333	2.88	0.24	3	
778.1	JT Myers	2012	bluegill	3	18.83	0.12	0.0609	3	
778.1	JT Myers	2012	freshwater drum	3	40.3	0.78	0.249	3	
778.1	JT Myers	2012	smallmouth buffalo	3	41.3	0.93	0.177	3	
778.1	JT Myers	2012	flathead catfish	4	68.67	3.79	0.3	3	
795	JT Myers	2010	channel catfish	4	60.16667	2.20	0.0999	3	

Sample River Mile	Pool	Year	Species	Trophic Level	Avg Length (cm)	Avg Weight (kg)	MeHg Result (mg/kg)	# Fish in sample	Consumption-Weighted Pool Avg MeHg in Fish Tissue (mg/kg)
846.1	Smithland	2012	blue catfish	3	54.3	1.79	0.181	3	0.29
846.1	Smithland	2012	flathead catfish	4	73.3	6.21	0.305	3	
846.5	Smithland	2010	freshwater drum	3	55	2.65	0.172	3	
846.5	Smithland	2010	hybrid striped	4	60.33333	2.55	0.671	3	
848	Smithland	2012	bluegill	3	17.12	0.11	0.131	3	
870	Smithland	2012	black buffalo	3	61	4.08	0.354	3	
883	Smithland	2013	white bass	4	36.3	0.64	0.519	3	
889	Smithland	2013	channel catfish	4	48.3	1.08	0.126	3	
889.5	Smithland	2012	smallmouth buffalo	3	39.67	1.05	0.128	3	
889.5	Smithland	2012	white crappie	3	24.3	0.21	0.194	3	
892	Smithland	2013	freshwater drum	3	58	3.08	0.425	3	
899	Smithland	2013	bluegill	3	16.4	0.11	0.0959	4	
918.6	Olmsted	2010	hybrid striped	4	52.5	1.62	0.395	3	0.18
919	Olmsted	2011	blue catfish	3	46.7		0.0826	3	
925	Olmsted	2010	largemouth bass	4	37.13334		0.264	3	
933	Olmsted	2012	black crappie	3	20.5		0.0494	3	
933.5	Olmsted	2012	flathead catfish	4	61.7	0.68	0.348	3	

Appendix J:
Fish Consumption
Advisory Summary

Appendix M: Fish Consumption Advisory Summary

State (River Segment) Population Protected Pollutants	PA (0-32) Both	PA2 (32-40) Both	WV (40-204) Both	WV (204-317) Both	OH (40-204) Both	OH (204-491) Both	KY (317-531) General	KY (317-531) Sensitive	KY (531-720) General	KY (531-720) Sensitive	KY (720-981) General	KY (720-981) Sensitive	IN (491-848) General	IN (491-848) Sensitive	IL(848-981) General	IL(848-981) Sensitive
	PCBs	PCBs	PCBs	PCBs	PCBs	PCBs			Hg, PCBs				PCBs		PCB, Hg	
Paddlefish							6 ml/yr	Do Not Eat	6 ml/yr	Do Not Eat	6 ml/yr	Do Not Eat				
Common Carp <22"	1 ml/month	Do Not Eat	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	Do Not Eat		
Common Carp >22"															1 ml/wk	
Suckers			1 ml/month	1 ml/month	1 ml/month	1 ml/month							1 ml/month	Do Not Eat		
Smallmouth Buffalo			1 ml/month		1 ml/month		1 ml/month	6 ml/yr								
Bigmouth Buffalo											1 ml/wk	1 ml/month				
Blue Catfish															1 ml/wk	
Blue Catfish <14"											1 ml/wk	1 ml/month				
Blue Catfish >14"											1 ml/month	6 ml/yr				
Channel Catfish	1 ml/month										1 ml/month	6 ml/yr				
Channel Catfish <18"			6 ml/yr	1 ml/month	6 ml/yr	1 ml/month							1 ml/month	Do Not Eat	1 ml/wk	
Channel Catfish >18"			Do Not Eat	6 ml/yr	Do Not Eat	6 ml/yr							6 ml/yr	Do Not Eat	1 ml/month	
Channel Catfish <17"		6 ml/yr														
Channel Catfish >17"		Do Not Eat														
Channel Catfish <21"							1 ml/month	6 ml/yr	1 ml/month	6 ml/yr						
Channel Catfish >21"							6 ml/yr	Do Not Eat	6 ml/yr	Do Not Eat						
Flathead Catfish		6 ml/yr	1 ml/month	1 ml/month	1 ml/month	1 ml/month	1 ml/month	6 ml/yr	1 ml/wk	1 ml/month			1 ml/month	Do Not Eat		
Flathead Catfish <23"																
Flathead Catfish >23"																
White Bass	1 ml/month	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	Do Not Eat	1 ml/wk	1 ml/month
Striped Bass				1 ml/month		1 ml/month							1 ml/month	Do Not Eat	1 ml/wk	1 ml/month
Hybrid Striped Bass		1 ml/month	1 ml/month	1 ml/month	6 ml/yr	1 ml/month	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	Do Not Eat	1 ml/wk	1 ml/month
Rock Bass																
Smallmouth Bass			1 ml/month		1 ml/month		1 ml/wk	1 ml/month	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month		
Spotted Bass			1 ml/month		1 ml/month		1 ml/wk	1 ml/month	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month		
Largemouth Bass			1 ml/month		1 ml/month		1 ml/wk	1 ml/month	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month
White Crappie			1 ml/month		1 ml/month		Unlimited	1 ml/wk			Unlimited	1 ml/wk				
Black Crappie			1 ml/month													
Sauger	1 ml/month		1 ml/month		1 ml/month		1 ml/month	6 ml/yr	1 ml/wk	1 ml/month	1 ml/wk	1 ml/month			1 ml/wk	
Walleye	1 ml/month		1 ml/month		1 ml/month											
Walleye <17"																
Walleye >17"		1 ml/month														
Sauger			1 ml/month		1 ml/month											
Freshwater Drum		1 ml/month			1 ml/month	1 ml/month	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr	1 ml/month	6 ml/yr				
FW Drum <14"													1 ml/wk	1 ml/month	1 ml/wk	
FW Drum >14"			1 ml/month	1 ml/month									1 ml/month	Do Not Eat	1 ml/month	
Statewide Advisory	1 ml/wk	1 ml/wk	1 ml/wk	1 ml/wk	1 ml/wk	1 ml/wk	none	1 ml/wk	none	1 ml/wk	none	1 ml/wk	none	1 ml/wk	none	1 ml/wk

*Statewide advisories based on Hg for sensitive populations

PA	developed for sensitive, "sensitive should follow extra carefully", general should also follow; PA2 based on advisory issued by OH and WV
WV	developed for sensitive and general populations, "sensitive should follow extra carefully"; determined using ORFCAP
OH	issued to protect sensitive, but general should also follow
KY	developed for general; for sensitive bump advisory up 1 level (used sensitive in the above table)
IN	PCBs protect sensitive; Hg issued to both groups using different reference doses for each; sensitive used in above table
IL	PCBs protect sensitive, "may be over protective for general; Hg issued to both groups using different reference doses for each

Appendix K:

Nutrient Sampling

Results

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
WEST VIEW	5	1/8/2008	0.357	0.06	0.683		6.72
WEST VIEW	5	1/23/2008	0.253	0.04	0.781	0.012	15.65766667
WEST VIEW	5	2/14/2008	0.273		0.676	0.028	6.6222
WEST VIEW	5	3/3/2008	0.139	0.07	0.648	0.033	10.971
WEST VIEW	5	3/20/2008	1.16	0.05	0.674	0.129	12.15933333
WEST VIEW	5	5/6/2008	0.357		0.46		12.62133333
WEST VIEW	5	5/21/2008	0.458	0.04	0.504	0.027	17.004
WEST VIEW	5	6/5/2008	0.948	0.05	0.417	0.318	18.483
WEST VIEW	5	6/17/2008	0.506	0.06	0.58		16.37066667
WEST VIEW	5	7/1/2008	0.396	0.05	0.57	0.023	9.914666667
WEST VIEW	5	7/30/2008	0.537	0.04	0.45	0.034	6.627333333
WEST VIEW	5	8/11/2008	0.657	0.04	0.81	0.033	8.324333333
WEST VIEW	5	8/27/2008	0.666	0.08	1.12	0.088	8.324333333
WEST VIEW	5	9/9/2008	0.587	0.05	0.946	0.034	20.93866667
WEST VIEW	5	9/24/2008	0.646	0.03	0.943	0.033	11.43333333
WEST VIEW	5	10/8/2008	0.345	0.05	1	0.056	6.561666667
WEST VIEW	5	10/22/2008	0.268	0.07	1.11	0.038	11.526
WEST VIEW	5	11/6/2008	0.439	0.08	0.919	0.055	
WEST VIEW	5	11/20/2008	0.318	0.08	0.806	0.043	
WEST VIEW	5	12/4/2008	0.315	0.08	0.839	0.044	
WEST VIEW	5	1/7/2009	0.356	0.13	0.826	0.07	
WEST VIEW	5	1/20/2009	0.299	0.09	0.764	0.028	
WEST VIEW	5	2/4/2009	0.444	0.16	0.892	0.068	
WEST VIEW	5	3/3/2009	0.348	0.09	0.762	0.045	
WEST VIEW	5	3/18/2009	0.357	0.09	0.578	0.045	
WEST VIEW	5	4/7/2009	0.423	0.08	0.575	0.036	
WEST VIEW	5	4/21/2009	0.291	0.08	0.46		
WEST VIEW	5	5/13/2009	0.285	0.05	0.403	0.016	
WEST VIEW	5	5/19/2009	0.413	0.04	0.408		
WEST VIEW	5	6/3/2009	0.289	0.05	0.521		
WEST VIEW	5	6/16/2009	0.289	0.05	0.731	0.028	
WEST VIEW	5	7/9/2009	0.204	0.06	0.658	0.036	
WEST VIEW	5	7/22/2009	0.455	0.07	0.676	0.039	
WEST VIEW	5	8/10/2009	0.357	0.04	0.674	0.024	
WEST VIEW	5	8/19/2009	0.393	0.08	0.528	0.033	
WEST VIEW	5	9/9/2009	0.427	0.03	0.731	0.026	
WEST VIEW	5	9/24/2009	0.493	0.05	0.582	0.117	
WEST VIEW	5	10/7/2009	0.381	0.03	0.773	0.061	
WEST VIEW	5	3/3/2010	0.29	0.09	0.947	0.029	
WEST VIEW	5	3/17/2010	0.566	0.04	0.688	0.086	
WEST VIEW	5	4/5/2010	0.577	0.04	0.659	0.053	
WEST VIEW	5	4/27/2010	0.514	0.05	0.618	0.054	
WEST VIEW	5	5/10/2010	0.498		0.651	0.079	
WEST VIEW	5	5/24/2010	0.456		0.52		
WEST VIEW	5	6/7/2010	0.504		0.779	0.028	
WEST VIEW	5	6/15/2010	0.6		0.737	0.042	
WEST VIEW	5	7/7/2010	0.43		0.841	0.035	
WEST VIEW	5	7/26/2010	0.613		0.72	0.033	
WEST VIEW	5	8/4/2010	0.523		0.608	0.024	
WEST VIEW	5	8/19/2010	0.347		0.812		
WEST VIEW	5	9/14/2010	1.21		0.857	0.016	
WEST VIEW	5	9/27/2010	0.282		1.05	0.06	
WEST VIEW	5	11/29/2010	0.713		0.662	0.038	
WEST VIEW	5	12/13/2010	0.292	0.03	0.486	0.026	
WEST VIEW	5	12/28/2010	0.488	0.09	0.763	0.011	
WEST VIEW	5	1/10/2011	0.514	0.1	0.667	0.042	
WEST VIEW	5	1/24/2011	0.583	0.16	0.96	0.131	
WEST VIEW	5	2/8/2011	0.408	0.1	0.997	0.04	
WEST VIEW	5	2/23/2011	0.479	0.06	0.874	0.05	
WEST VIEW	5	3/15/2011	0.891	0.04	0.671	0.06	
WEST VIEW	5	3/21/2011	0.364		0.547	0.037	
WEST VIEW	5	4/11/2011	0.394		0.513	0.032	
WEST VIEW	5	4/20/2011	0.603	0.04	0.437	0.062	
WEST VIEW	5	5/9/2011	0.322		0.459	0.051	
WEST VIEW	5	5/26/2011	0.151		0.448	0.026	
WEST VIEW	5	6/14/2011	0.488		0.573	0.033	
WEST VIEW	5	6/29/2011	0.384	0.05	0.452	0.054	
WEST VIEW	5	7/12/2011	0.21	0.02	1.3	0.053	
WEST VIEW	5	01/09/2012	0.18	0.09	0.59	0.026	
WEST VIEW	5	02/08/2012			0.64	0.019	
WEST VIEW	5	03/27/2012	0.15		0.53	0.022	
WEST VIEW	5	04/04/2012	0.49		0.88	0.02	
WEST VIEW	5	04/16/2012	0.24		0.7	0.011	
WEST VIEW	5	05/08/2012		0.42	0.41	0.049	
WEST VIEW	5	05/23/2012	0.17		0.56	0.17	
WEST VIEW	5	06/07/2012	0.32		0.8	0.25	
WEST VIEW	5	06/18/2012	0.26		0.97		
WEST VIEW	5	08/06/2012	0.2		0.87		
WEST VIEW	5	08/22/2012	0.25		0.92	0.043	
WEST VIEW	5	09/06/2012			1	0.02	
WEST VIEW	5	10/23/2012			0.73	0.051	
WEST VIEW	5	11/19/2012			0.62	0.059	
WEST VIEW	5	12/05/2012			0.76	0.02	
WEST VIEW	5	05/29/2013	0.23		0.67	0.047	
WEST VIEW	5	06/12/2013	0.55		0.76		
WEST VIEW	5	09/16/2013	0.24	0.059	0.89	0.027	

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
PADUCAH	45.5	01/04/2012		0.097			
PADUCAH	45.5	01/17/2012	0.16		0.57	0.086	
PADUCAH	45.5	02/07/2012			0.56	0.054	
PADUCAH	45.5	04/09/2012	0.55	0.97	0.24	0.072	
PADUCAH	45.5	04/25/2012	0.23		0.17	0.042	
PADUCAH	45.5	05/07/2012	0.19		0.46	0.077	
PADUCAH	45.5	05/21/2012			0.22	0.038	
PADUCAH	45.5	06/05/2012	0.43		0.07	0.042	
PADUCAH	45.5	06/20/2012	0.29			0.015	
PADUCAH	45.5	07/02/2012	0.57			0.043	
PADUCAH	45.5	07/18/2012	0.37			0.049	
PADUCAH	45.5	08/13/2012	0.43	0.053	0.06	0.045	
PADUCAH	45.5	09/05/2012			0.12	0.053	
PADUCAH	45.5	10/02/2012			0.19	0.073	
PADUCAH	45.5	10/23/2012		0.097	0.21	0.096	
PADUCAH	45.5	11/06/2012			0.36	0.063	
PADUCAH	45.5	11/19/2012			0.31		
PADUCAH	45.5	12/04/2012			0.23	0.065	
PADUCAH	45.5	12/18/2012	0.33		0.24	0.067	
PADUCAH	45.5	01/07/2013		0.07	0.48	0.045	
PADUCAH	45.5	01/22/2013	0.23		0.56	0.1	
PADUCAH	45.5	02/05/2013	0.14		0.53	0.075	
PADUCAH	45.5	02/18/2013	0.47		0.44		
PADUCAH	45.5	03/04/2013	0.25		0.46	0.032	
PADUCAH	45.5	03/26/2013	1.1		0.47	0.036	
PADUCAH	45.5	04/02/2013	0.24		0.51		
PADUCAH	45.5	04/22/2013	0.24		0.34	0.02	
PADUCAH	45.5	05/09/2013	0.25	0.055	0.3	0.034	
PADUCAH	45.5	05/23/2013	0.36		0.29	0.092	
PADUCAH	45.5	06/05/2013	0.61		0.3	0.094	
PADUCAH	45.5	07/08/2013	0.42		0.068	0.026	
PADUCAH	45.5	07/16/2013	0.38		0.14	0.065	
PADUCAH	45.5	08/22/2013	0.47		0.14	0.016	
PADUCAH	45.5	09/04/2013	0.41		0.077	0.059	
PADUCAH	45.5	09/17/2013	0.45	0.075	0.11	0.065	
PADUCAH	45.5	10/09/2013	0.57		0.26	0.042	
PADUCAH	45.5	10/23/2013	0.29		0.25	0.074	
PADUCAH	45.5	11/05/2013	0.1		0.27	0.62	
PADUCAH	45.5	11/20/2013	0.38		0.29	0.074	
PADUCAH	45.5	12/05/2013	0.2		0.29	0.023	
WHEELING	86.8	1/7/2008	0.436	0.11	0.808	0.024	6.816
WHEELING	86.8	1/22/2008	0.315	0.03	0.834	0.08	8.029677419
WHEELING	86.8	2/6/2008	0.571		0.904	0.195	1.55506
WHEELING	86.8	2/21/2008	0.6		0.799	0.076	1.61681
WHEELING	86.8	3/3/2008	0.27	0.14	0.794	0.044	3.4655
WHEELING	86.8	3/19/2008	0.462	0.05	0.811	0.053	0.15405
WHEELING	86.8	6/3/2008	0.356	0.04	0.541		49.4859
WHEELING	86.8	6/16/2008	0.565	0.05	0.527		8.682
WHEELING	86.8	7/21/2008	0.386	0.07	0.664	0.04	2.301
WHEELING	86.8	8/4/2008	0.205		0.551	0.041	3.113
WHEELING	86.8	8/18/2008	0.727	0.04	0.887		2.5902
WHEELING	86.8	9/9/2008	0.923	0.05	0.823	0.037	3.9214
WHEELING	86.8	9/22/2008	0.694	0.03	1.08	0.038	10.9074
WHEELING	86.8	10/6/2008	0.553		1.07	0.05	0.6931
WHEELING	86.8	10/20/2008	0.277	0.08	1.37	0.046	11.7121
WHEELING	86.8	11/18/2008	0.306	0.09	1.11	0.064	1.8418
WHEELING	86.8	1/5/2009	0.416	0.1	0.812	0.058	1.509
WHEELING	86.8	1/21/2009	0.476	0.13	0.815	0.048	2.6535
WHEELING	86.8	2/3/2009	0.384	0.19	0.857	0.049	2.7724
WHEELING	86.8	2/17/2009	0.746	0.1	0.715	0.09	3.1853
WHEELING	86.8	3/2/2009	0.389	0.08	0.852	0.064	0.621730769
WHEELING	86.8	3/16/2009	0.405	0.09	0.702	0.176	1.4952
WHEELING	86.8	4/6/2009	0.512	0.08	0.709	0.106	5.0178
WHEELING	86.8	4/20/2009			0.558	0.014	4.5658
WHEELING	86.8	5/5/2009	0.517	0.08	0.634	0.087	11.6199
WHEELING	86.8	5/19/2009	0.443	0.04	0.511	0.036	7.7424
WHEELING	86.8	6/1/2009	0.373	0.06	0.675	0.012	6.3801
WHEELING	86.8	6/8/2009	0.487	0.06	0.713	0.038	2.9466
WHEELING	86.8	6/15/2009	0.356	0.05	0.622	0.022	3.335
WHEELING	86.8	7/13/2009	0.42	0.05	0.837	0.044	2.9904
WHEELING	86.8	7/20/2009	0.557	0.06	0.631	0.022	22.32366667
WHEELING	86.8	8/3/2009	0.576	0.05	0.729	0.063	3.3308
WHEELING	86.8	8/25/2009	0.434	0.08	0.696	0.045	2.1782
WHEELING	86.8	9/8/2009	0.348	0.03	0.866	0.038	0.9164
WHEELING	86.8	9/21/2009	0.444	0.06	0.802	0.065	0.7476
WHEELING	86.8	10/5/2009	0.503	0.08	0.99	0.072	1.7465
WHEELING	86.8	10/19/2009	0.624	0.07	0.816	0.052	7.6991
WHEELING	86.8	11/2/2009	0.442	0.09	0.655	0.042	10.4951
WHEELING	86.8	11/17/2009	0.501	0.08	0.601	0.035	18.9626
WHEELING	86.8	12/7/2009	0.766	0.08	0.822	0.051	4.9784
WHEELING	86.8	12/21/2009	0.639	0.07	0.911	0.088	7.8138
WHEELING	86.8	1/11/2010	0.583	0.08	0.948	0.05	9.436533333
WHEELING	86.8	1/25/2010	1.68	0.09	0.932	0.343	3.189466667
WHEELING	86.8	2/18/2010	0.469	0.14	0.798	0.034	2.606
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	

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
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	
EVANSVILLE	189.5	12/20/2011	0.14	0.045	0.94	0.11	
EVANSVILLE	189.5	01/04/2012	0.23	0.12	1	0.088	
EVANSVILLE	189.5	01/18/2012	0.14	0.048	1.1	0.1	
EVANSVILLE	189.5	02/01/2012	0.36	0.15	1	0.12	
EVANSVILLE	189.5	02/13/2012	0.48	0.17	1.1	0.092	
EVANSVILLE	189.5	04/17/2012	0.51		0.82	0.049	
EVANSVILLE	189.5	04/23/2012	0.29	0.064	0.67	0.068	
EVANSVILLE	189.5	05/01/2012	0.23			0.099	
EVANSVILLE	189.5	05/14/2012			0.98	0.12	
EVANSVILLE	189.5	06/06/2012	0.23		1	0.031	
EVANSVILLE	189.5	06/19/2012	0.35		0.88	0.034	
EVANSVILLE	189.5	07/17/2012	0.28				
EVANSVILLE	189.5	07/23/2012	0.55		1.1	0.038	
EVANSVILLE	189.5	08/01/2012	0.35		0.78	0.063	
EVANSVILLE	189.5	08/21/2012	0.26		0.62	0.045	
EVANSVILLE	189.5	09/12/2012			0.82	0.022	
EVANSVILLE	189.5	09/18/2012	0.14		0.83	0.057	
EVANSVILLE	189.5	10/10/2012			1.1	0.063	
EVANSVILLE	189.5	10/23/2012		0.04	1	0.047	
EVANSVILLE	189.5	11/06/2012			1.2	0.059	
EVANSVILLE	189.5	11/20/2012			1.2	0.02	
EVANSVILLE	189.5	12/04/2012			1.2	0.059	
EVANSVILLE	189.5	12/18/2012	0.12		1	0.14	
EVANSVILLE	189.5	01/07/2013		0.059	0.95	0.069	
EVANSVILLE	189.5	01/23/2013			1.1	0.19	
EVANSVILLE	189.5	02/05/2013	0.14		1	0.21	
EVANSVILLE	189.5	02/20/2013	0.49		1	0.04	
EVANSVILLE	189.5	03/11/2013	0.52		1.2	0.063	
EVANSVILLE	189.5	05/29/2013	0.44		1	0.061	
EVANSVILLE	189.5	06/18/2013	0.42		0.8	0.057	
EVANSVILLE	189.5	08/20/2013	0.3		0.9	0.061	
EVANSVILLE	189.5	08/27/2013	0.36		0.85	0.057	
EVANSVILLE	189.5	09/23/2013	0.37		0.86	0.067	
EVANSVILLE	189.5	10/01/2013	0.53		0.96	0.053	
EVANSVILLE	189.5	10/22/2013	0.43		0.98	0.11	
EVANSVILLE	189.5	10/28/2013	0.33		1	0.087	
EVANSVILLE	189.5	11/19/2013	0.68		1.1	0.15	
HUNTINGTON	306	2/6/2008	0.61		0.837	0.21	8.634
HUNTINGTON	306	3/5/2008	0.504	0.07	0.704	0.233	6.944
HUNTINGTON	306	3/18/2008	0.326	0.07	0.909	0.089	
HUNTINGTON	306	5/14/2008	0.873	0.05	0.387	0.11	
HUNTINGTON	306	6/4/2008	1.31	0.05	0.368	0.246	
HUNTINGTON	306	6/24/2008	0.338	0.04	0.603	0.049	
HUNTINGTON	306	7/28/2008	0.284	0.04	0.635	0.031	
HUNTINGTON	306	8/25/2008	0.564		0.671		
HUNTINGTON	306	9/11/2008	0.37		0.503	0.013	
HUNTINGTON	306	9/30/2008	0.254	0.05	0.737	0.026	
HUNTINGTON	306	10/15/2008	0.281	0.04	0.854	0.028	
HUNTINGTON	306	11/5/2008	0.437	0.05	1.11	0.078	
HUNTINGTON	306	11/18/2008	0.647	0.06	1.14	0.065	
HUNTINGTON	306	12/4/2008	0.491	0.08	1.02	0.122	
HUNTINGTON	306	1/5/2009	0.94	0.07	0.884	0.121	
HUNTINGTON	306	1/21/2009	0.265	0.09	0.809	0.037	
HUNTINGTON	306	2/4/2009	0.364	0.13	0.901	0.099	
HUNTINGTON	306	2/18/2009	2.48	0.1	0.988	0.249	
HUNTINGTON	306	3/3/2009	0.424	0.07	0.886	0.065	
HUNTINGTON	306	3/17/2009	0.449	0.09	0.849	0.109	
HUNTINGTON	306	4/13/2009	0.573	0.05	0.501	0.17	
HUNTINGTON	306	4/22/2009	0.468	0.07	0.61	0.05	
HUNTINGTON	306	5/6/2009	1.2	0.06	0.478	0.376	
HUNTINGTON	306	6/3/2009	0.715	0.05	0.491	0.137	
HUNTINGTON	306	6/16/2009	0.434		0.596	0.054	
HUNTINGTON	306	7/22/2009	0.414	0.05	0.686	0.027	
HUNTINGTON	306	8/5/2009	0.598		0.626	0.069	
HUNTINGTON	306	8/20/2009	0.431	0.06	0.799	0.042	

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
HUNTINGTON	306	9/9/2009	0.43	0.03	0.607	0.029	
HUNTINGTON	306	9/22/2009	0.588	0.05	0.612	0.13	
HUNTINGTON	306	10/8/2009	0.533		0.768	0.067	
HUNTINGTON	306	10/22/2009	0.51	0.04	0.909	0.048	
HUNTINGTON	306	11/4/2009	0.619	0.05	0.738	0.106	
HUNTINGTON	306	11/18/2009	0.662	0.05	0.66	0.039	
HUNTINGTON	306	12/1/2009	0.401	0.06	0.804	0.017	
HUNTINGTON	306	12/16/2009	0.557	0.05	0.845	0.163	
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	5/5/2008	0.351	0.04	0.543		13.664
N. KENTUCKY	462.9	6/16/2008	0.708	0.07	1.25	0.024	1.867
N. KENTUCKY	462.9	7/7/2008	0.525	0.05	1.08	0.031	4.332
N. KENTUCKY	462.9	8/4/2008	0.217	0.05	0.764	0.025	4.462
N. KENTUCKY	462.9	8/19/2008	0.499	0.03	0.519		5.149
N. KENTUCKY	462.9	9/2/2008	0.607	0.07	0.508	0.013	4.984
N. KENTUCKY	462.9	10/6/2008	0.577	0.06	0.594	0.032	0.474
N. KENTUCKY	462.9	10/20/2008	0.404	0.11	0.686	0.052	5.981
N. KENTUCKY	462.9	12/1/2008	0.281	0.07	1.13	0.04	30.819
N. KENTUCKY	462.9	12/16/2008	1.48	0.12	0.993	0.237	30.100
N. KENTUCKY	462.9	1/5/2009	0.512	0.08	1.1	0.11	54.816
N. KENTUCKY	462.9	3/4/2009	0.498	0.08	0.992	0.12	2.979
N. KENTUCKY	462.9	4/21/2009	0.418	0.09	0.756	0.03	12.951
N. KENTUCKY	462.9	6/2/2009	0.409	0.05	1.03	0.072	1.525
N. KENTUCKY	462.9	7/7/2009	0.405	0.06	0.928	0.052	1.220
N. KENTUCKY	462.9	7/21/2009	0.457	0.07	0.817	0.054	3.119
N. KENTUCKY	462.9	8/6/2009	0.595		0.589	0.104	3.591
N. KENTUCKY	462.9	8/18/2009	0.431	0.05	0.655	0.055	15.368
N. KENTUCKY	462.9	9/9/2009	0.406		0.631	0.028	23.052
N. KENTUCKY	462.9	12/15/2009	0.877	0.05	0.843	0.214	4.222
N. KENTUCKY	462.9	1/6/2010	0.578	0.05	0.888	0.076	8.118
N. KENTUCKY	462.9	1/20/2010	0.541	0.06	0.85	0.108	27.216
N. KENTUCKY	462.9	2/3/2010	0.654	0.06	0.983	0.207	3.596
N. KENTUCKY	462.9	2/23/2010	0.505	0.05	0.802	0.098	1.988
N. KENTUCKY	462.9	3/2/2010	0.371	0.07	0.886	0.119	9.136
N. KENTUCKY	462.9	3/16/2010	0.828	0.04	0.931	0.216	33.389
N. KENTUCKY	462.9	4/6/2010	0.528	0.05	0.857	0.05	83.574
N. KENTUCKY	462.9	5/18/2010	0.733		0.789	0.039	15.276
N. KENTUCKY	462.9	6/8/2010	0.893		1.2	0.086	20.674
N. KENTUCKY	462.9	6/30/2010	1.15		0.954	0.08	8.383
N. KENTUCKY	462.9	7/15/2010	0.582		0.956	0.152	15.090
N. KENTUCKY	462.9	7/29/2010	0.636		0.738	0.06	11.486
N. KENTUCKY	462.9	8/2/2010	0.541		0.513	0.039	10.179
N. KENTUCKY	462.9	8/16/2010	0.52		0.628	0.037	12.951
N. KENTUCKY	462.9	9/20/2010	0.709		0.665	0.029	7.908
N. KENTUCKY	462.9	10/4/2010	1.68	0.03	0.468	0.038	3.591
N. KENTUCKY	462.9	10/18/2010	1.06		0.645	0.024	4.772
N. KENTUCKY	462.9	11/1/2010	0.198		0.832	0.021	9.453
N. KENTUCKY	462.9	11/15/2010	0.328		0.902	0.018	15.394
N. KENTUCKY	462.9	12/6/2010	1.12	0.05	0.67	0.323	15.183
N. KENTUCKY	462.9	12/20/2010	0.781	0.04	0.822	0.043	7.317
N. KENTUCKY	462.9	1/3/2011	0.528	0.07	0.975	0.046	6.693
N. KENTUCKY	462.9	1/17/2011	0.522	0.11	0.879	0.062	4.594
N. KENTUCKY	462.9	2/9/2011	0.678	0.08	0.993	0.094	5.439
N. KENTUCKY	462.9	2/21/2011	0.472	0.1	1.24	0.073	15.183

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
N. KENTUCKY	462.9	3/7/2011	0.927	0.06	1.13	0.218	7.462
N. KENTUCKY	462.9	3/21/2011	0.8	0.03	1.03	0.113	6.219
N. KENTUCKY	462.9	4/4/2011	0.519	0.03	0.798	0.047	5.602
N. KENTUCKY	462.9	4/18/2011	0.478		0.601	0.055	5.612
N. KENTUCKY	462.9	5/2/2011	0.405	0.05	0.709	0.052	14.187
N. KENTUCKY	462.9	5/17/2011	0.699		0.699	0.075	6.835
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	518.1	12/19/2011	0.14	0.036	0.95	0.058	
N. KENTUCKY	518.1	01/09/2012	0.16	0.087	0.92	0.033	
N. KENTUCKY	518.1	01/23/2012	0.23	1	0.71	0.12	
N. KENTUCKY	518.1	02/06/2012	0.1		0.95	0.063	
N. KENTUCKY	518.1	04/03/2012	3.5		0.72	0.056	
N. KENTUCKY	518.1	04/16/2012	0.13		0.52		
N. KENTUCKY	518.1	05/07/2012			0.71	0.045	
N. KENTUCKY	518.1	05/21/2012			0.76	0.027	
N. KENTUCKY	518.1	06/04/2012	0.24		0.63		
N. KENTUCKY	518.1	06/18/2012	0.33		0.58		
N. KENTUCKY	518.1	07/02/2012	0.29		0.44	0.011	
N. KENTUCKY	518.1	07/16/2012	0.37		0.45	0.033	
N. KENTUCKY	518.1	08/06/2012	0.14		0.59		
N. KENTUCKY	518.1	08/20/2012			0.58	0.024	
N. KENTUCKY	518.1	09/05/2012			0.66		
N. KENTUCKY	518.1	09/17/2012			0.58		
N. KENTUCKY	518.1	10/01/2012			0.68	0.016	
N. KENTUCKY	518.1	10/15/2012			0.77	0.045	
N. KENTUCKY	518.1	11/05/2012			1.1	0.59	
N. KENTUCKY	518.1	11/19/2012				0.028	
N. KENTUCKY	518.1	12/03/2012			1	0.04	
N. KENTUCKY	518.1	12/17/2012	0.22		0.81	0.03	
N. KENTUCKY	518.1	01/07/2013			0.81	0.016	
N. KENTUCKY	518.1	01/21/2013	0.29		0.86	0.059	
N. KENTUCKY	518.1	02/04/2013	0.14		0.74	0.092	
N. KENTUCKY	518.1	11/18/2013	0.22		0.59	0.014	
LOUISVILLE	600	1/7/2008	0.28		1.52	0.026	8.3965
LOUISVILLE	600	1/22/2008	0.305		1.6	0.044	9.327
LOUISVILLE	600	2/18/2008	0.415		1.44	0.076	12.476
LOUISVILLE	600	3/3/2008	0.284		1.29	0.072	12.476
LOUISVILLE	600	5/6/2008	0.414	0.05	0.731	0.025	19.21
LOUISVILLE	600	5/19/2008	0.646	0.05	0.852	0.122	14.179
LOUISVILLE	600	6/2/2008	0.309	0.08	0.8		6.931
LOUISVILLE	600	6/16/2008	0.646	0.07	1.58	0.037	16.318
LOUISVILLE	600	7/7/2008	0.42	0.08	1.22	0.064	10.3035
LOUISVILLE	600	7/21/2008	0.473	0.04	1.21	0.09	19.842
LOUISVILLE	600	8/4/2008	0.179	0.05	1.04	0.87	
LOUISVILLE	600	8/18/2008	0.602	0.04	0.643	0.067	
LOUISVILLE	600	9/8/2008	0.557	0.05	0.838	0.014	
LOUISVILLE	600	9/22/2008	0.571	0.04	1	0.032	
LOUISVILLE	600	10/6/2008	0.425		1.12	0.04	
LOUISVILLE	600	10/19/2008	0.283	0.06	1.47	0.042	
LOUISVILLE	600	11/17/2008	0.277	0.06	1.23	0.053	
LOUISVILLE	600	1/8/2009	0.64	0.07	1.49	0.079	
LOUISVILLE	600	2/16/2009	0.435	0.07	1.5	0.169	
LOUISVILLE	600	3/2/2009	0.456	0.06	1.21	0.106	
LOUISVILLE	600	3/16/2009	0.382	0.08	1.12	0.08	
LOUISVILLE	600	4/7/2009	0.471	0.07	0.811	0.147	
LOUISVILLE	600	5/4/2009	0.573	0.07	1.11	0.066	
LOUISVILLE	600	6/1/2009	0.412		0.807	0.102	
LOUISVILLE	600	6/15/2009	0.589		0.827	0.144	
LOUISVILLE	600	7/6/2009	0.57	0.06	1.21	0.096	
LOUISVILLE	600	7/20/2009	0.409	0.05	1.03	0.072	
LOUISVILLE	600	8/5/2009	0.542	0.03	0.781	0.138	
LOUISVILLE	600	8/17/2009	0.475	0.04	0.794	0.07	
LOUISVILLE	600	9/8/2009	0.37	0.08	0.764	0.039	
LOUISVILLE	600	9/21/2009	0.451	0.05	0.994	0.079	
LOUISVILLE	600	10/19/2009	0.663	0.04	1	0.14	
LOUISVILLE	600	11/2/2009	0.589		0.929		
LOUISVILLE	600	11/16/2009	0.673	0.07	0.996	0.065	
LOUISVILLE	600	12/7/2009	0.61	0.09	0.891	0.076	
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	600.0	07/16/2012	0.26		0.71	0.029	

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
EVANSVILLE	791.5	1/7/2008	0.654	0.07	1.63	0.177	1.541
EVANSVILLE	791.5	1/22/2008	0.419		1.43	0.173	28.525
EVANSVILLE	791.5	2/5/2008	0.665		1.33	0.255	19.210
EVANSVILLE	791.5	2/19/2008	0.88		1.2	0.267	19.381
EVANSVILLE	791.5	3/12/2008	0.58	0.1	1.2	0.17	18.971
EVANSVILLE	791.5	3/17/2008	0.63	0.05	1.21	0.141	18.297
EVANSVILLE	791.5	4/7/2008	0.656	0.05	0.783	0.205	12.100
EVANSVILLE	791.5	5/7/2008	0.707	0.06	0.793	0.086	13.644
EVANSVILLE	791.5	5/27/2008	0.751	0.06	0.891	0.399	28.135
EVANSVILLE	791.5	6/10/2008	1.58	0.07	1.28	0.545	39.525
EVANSVILLE	791.5	6/17/2008	0.622	0.05	1.28	0.095	17.030
EVANSVILLE	791.5	7/7/2008	0.737	0.11	1.37	0.118	16.740
EVANSVILLE	791.5	7/21/2008	0.466	0.05	1.03	0.056	29.427
EVANSVILLE	791.5	8/5/2008	0.355	0.05	1.41	0.054	25.466
EVANSVILLE	791.5	8/18/2008	0.675	0.04	1.08	0.041	
EVANSVILLE	791.5	9/8/2008	0.874	0.05	0.998	0.037	
EVANSVILLE	791.5	9/22/2008	0.661		1.07	0.041	
EVANSVILLE	791.5	10/6/2008	0.748	0.04	0.863	0.035	
EVANSVILLE	791.5	10/21/2008	0.541	0.06	1.1	0.025	
EVANSVILLE	791.5	11/18/2008	0.461	0.06	1.38	0.072	
EVANSVILLE	791.5	12/1/2008	0.304	0.12	1.13	0.076	
EVANSVILLE	791.5	12/15/2008	0.818	0.08	1.36	0.204	
EVANSVILLE	791.5	1/5/2009	1.01	0.11	1.31	0.298	
EVANSVILLE	791.5	1/20/2009	0.546	0.07	0.931	0.178	
EVANSVILLE	791.5	2/2/2009	0.879	0.08	1.34	0.299	
EVANSVILLE	791.5	2/17/2009	0.962	0.13	1.47	0.343	
EVANSVILLE	791.5	3/2/2009	0.638	0.13	1.37	0.193	
EVANSVILLE	791.5	3/16/2009	0.45	0.11	1.5	0.133	
EVANSVILLE	791.5	4/6/2009	0.813	0.07	0.893	0.185	
EVANSVILLE	791.5	4/20/2009	0.697	0.08	0.895	0.168	
EVANSVILLE	791.5	5/4/2009	0.54	0.07	1.1	0.094	
EVANSVILLE	791.5	5/18/2009	1.58	0.04	0.5	0.473	
EVANSVILLE	791.5	6/1/2009	0.588	0.08	1.16	0.12	
EVANSVILLE	791.5	6/15/2009	0.567	0.05	0.939	0.135	
EVANSVILLE	791.5	7/21/2009	0.447	0.06	0.784	0.078	
EVANSVILLE	791.5	8/4/2009	0.755		0.995	0.204	
EVANSVILLE	791.5	8/18/2009	0.493	0.05	0.919	0.112	
EVANSVILLE	791.5	9/14/2009	0.73	0.09	0.774	0.063	
EVANSVILLE	791.5	9/21/2009	0.533	0.05	0.846	0.083	
EVANSVILLE	791.5	10/5/2009	0.754	0.04	1.04	0.12	
EVANSVILLE	791.5	10/20/2009	0.801	0.03	0.993	0.139	
EVANSVILLE	791.5	11/2/2009	1.05	0.04	0.961	0.232	
EVANSVILLE	791.5	11/17/2009	0.644	0.1	1.16	0.108	
EVANSVILLE	791.5	12/1/2009	0.539	0.07	1.24	0.059	
EVANSVILLE	791.5	12/15/2009	1.43	0.07	1	0.791	
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	
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	0.196	
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	
WHEELING	894.2	12/16/2011	0.17	0.084	0.76	0.1	
WHEELING	894.2	01/03/2012	0.2	0.084	0.72	0.028	
WHEELING	894.2	02/06/2012			0.77	0.031	
WHEELING	894.2	04/02/2012	0.56		0.65	0.018	
WHEELING	894.2	04/16/2012	0.31		0.74	0.011	
WHEELING	894.2	05/07/2012	0.3			0.027	

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
WHEELING	894.2	05/21/2012	0.31		0.63	0.19	
WHEELING	894.2	06/04/2012	0.22		0.85		
WHEELING	894.2	06/18/2012	0.31		0.82		
WHEELING	894.2	07/09/2012			1	0.027	
WHEELING	894.2	07/23/2012	0.32		0.89	0.02	
WHEELING	894.2	08/06/2012	0.29		0.93	0.061	
WHEELING	894.2	08/20/2012	0.31		0.98	0.038	
WHEELING	894.2	09/04/2012			1		
WHEELING	894.2	09/17/2012			1.1	0.018	
WHEELING	894.2	10/01/2012		0.055	1.2	0.034	
WHEELING	894.2	10/15/2012			1	0.032	
WHEELING	894.2	11/05/2012		0.12	0.84	0.04	
WHEELING	894.2	11/19/2012	0.21	0.031	0.77		
WHEELING	894.2	12/03/2012			0.93	0.022	
WHEELING	894.2	12/17/2012			0.72	0.032	
WHEELING	894.2	01/07/2013		0.031	0.75	0.022	
WHEELING	894.2	01/28/2013			0.8	0.036	
WHEELING	894.2	02/06/2013	0.23		0.74	0.098	
WHEELING	894.2	02/19/2013	0.31		0.76		
WHEELING	894.2	03/07/2013	0.27	0.047	0.84	0.01	
WHEELING	894.2	03/18/2013	0.42		0.68		
WHEELING	894.2	04/08/2013		0.045	0.67		
WHEELING	894.2	04/22/2013	0.14	0.11	0.6	0.032	
WHEELING	894.2	05/06/2013	0.33		0.63	0.024	
WHEELING	894.2	05/28/2013	0.13		0.67		
WHEELING	894.2	06/04/2013	0.4		0.75	0.014	
WHEELING	894.2	06/17/2013	0.37		0.75		
WHEELING	894.2	07/08/2013	0.34		0.77	0.024	
WHEELING	894.2	08/19/2013	0.29		0.75	0.028	
WHEELING	894.2	09/10/2013	0.29		0.79	0.04	
WHEELING	894.2	09/23/2013	0.46	0.031	1.1	0.042	
WHEELING	894.2	10/08/2013	0.39		0.83	0.027	
WHEELING	894.2	10/22/2013	0.37		0.86	0.036	
WHEELING	894.2	11/05/2013	0.36		0.75	0.36	
WHEELING	894.2	12/04/2013	0.23		0.67	0.035	
WHEELING	894.2	12/17/2013			0.65	0.018	
PADUCAH	935.5	1/7/2008	1.56	0.08	1.2	0.435	7.102
PADUCAH	935.5	1/28/2008	1.03		0.826	0.343	15.221
PADUCAH	935.5	2/7/2008	0.837		0.894	0.413	15.961
PADUCAH	935.5	2/20/2008	1.55		0.995	0.649	17.796
PADUCAH	935.5	3/5/2008	0.671	0.04	0.583	0.165	16.409
PADUCAH	935.5	3/19/2008	0.386		0.497	0.11	30.443
PADUCAH	935.5	5/6/2008	1.43	0.1	0.565	0.359	44.555
PADUCAH	935.5	5/21/2008	2.77	0.03	0.485	0.486	6.786
PADUCAH	935.5	6/3/2008	1.16	0.15	0.627	0.541	7.262
PADUCAH	935.5	6/19/2008	0.906	0.07	1.12	0.173	16.040
PADUCAH	935.5	7/7/2008	1.38	0.16	1.69	0.523	12.198
PADUCAH	935.5	8/4/2008	0.607	0.1	0.631	0.157	11.789
PADUCAH	935.5	8/18/2008	0.577	0.04		0.058	10.997
PADUCAH	935.5	9/8/2008	0.674	0.06	0.192	0.06	22.548
PADUCAH	935.5	9/22/2008	0.86	0.03	0.733	0.066	2.297
PADUCAH	935.5	10/6/2008	1.01	0.07	0.483	0.159	13.519
PADUCAH	935.5	10/20/2008	0.577	0.07	0.51	0.071	29.730
PADUCAH	935.5	11/3/2008	0.733	0.11		0.062	11.485
PADUCAH	935.5	11/17/2008	0.507	0.1	0.602	0.077	7.419
PADUCAH	935.5	12/1/2008	0.429	0.06	1.08	0.091	18.760
PADUCAH	935.5	1/6/2009	1.1	0.13	0.909	0.389	19.921
PADUCAH	935.5	1/20/2009	4.46	0.06	0.706	1.5	15.314
PADUCAH	935.5	2/10/2009	4.46	0.14	1.11	1.85	7.974
PADUCAH	935.5	2/18/2009	4.29	0.07	1.15	1.97	13.717
PADUCAH	935.5	3/4/2009	1.87	0.07	1.44	1.17	12.291
PADUCAH	935.5	3/16/2009	2.02	0.11	1.81	1.55	
PADUCAH	935.5	4/7/2009	0.573	0.08	0.53	0.109	
PADUCAH	935.5	4/20/2009	0.37	0.06	0.858	0.333	
PADUCAH	935.5	5/18/2009	3.63	0.06	0.71	1.39	
PADUCAH	935.5	6/16/2009	1.43		0.67	1.3	
PADUCAH	935.5	7/6/2009	1.03	0.22	1	0.582	
PADUCAH	935.5	7/20/2009	1.94	0.06	0.398	0.258	
PADUCAH	935.5	8/19/2009	0.727	0.07	0.603	0.122	
PADUCAH	935.5	9/15/2009	1.06	0.18	0.259	0.87	
PADUCAH	935.5	10/5/2009	0.726	0.04	0.585	0.354	
PADUCAH	935.5	10/20/2009	0.799	0.03	0.425	0.134	
PADUCAH	935.5	11/2/2009	0.571	0.07	0.451	0.098	
PADUCAH	935.5	11/16/2009	0.566	0.05	0.367	0.077	
PADUCAH	935.5	12/7/2009	0.441	0.05	0.37	0.058	
PADUCAH	935.5	12/17/2009	0.671	0.05	0.509	0.1	
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	

Nutrient Sampling Results							
Location	Mile Point	Date	Total Kjeldahl Nitrogen	Ammonia-Nitrogen	Nitrate/Nitrite-Nitrogen	Total Phosphorus	Chlorophyll
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	0.088	
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	
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	

Appendix L:
Total Dissolved Solids
Sampling Results

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
PWSA	AL008	Allegheny	1	12/05/11	9:04			0.066	14.851	0.019	<RL	2.338	34.714	<RL	<RL	10.237	<RL	1.031	4.868	18.373	198.8
PWSA	AL008	Allegheny	2	12/12/11	7:30			0.065	15.616	0.027	<RL	2.450	36.886	<RL	<RL	10.909	<RL	1.159	5.068	19.315	212.0
PWSA	AL008	Allegheny	3	12/19/11	8:15	112	38	0.068	17.351	0.025	<RL	4.091	44.700	<RL	<RL	11.159	<RL	0.961	5.649	21.000	231.0
PWSA	AL008	Allegheny	4	12/28/11	13:12	62	28	0.066	13.019	0.017	<RL	2.874	30.812	<RL	<RL	8.649	<RL	0.875	4.185	15.671	173.4
PWSA	AL008	Allegheny	5	01/03/12	8:17	106	28	0.064	14.184	0.018	<RL	2.650	46.070	<RL	<RL	9.692	<RL	0.852	4.815	17.447	194.8
PWSA	AL008	Allegheny	6	01/09/12	13:45	114	30	0.061	16.423	0.069	0.107	2.503	39.370	<RL	<RL	11.750	<RL	1.006	5.268	18.995	211.0
PWSA	AL008	Allegheny	7	01/17/12	8:10	113	32	0.065	21.735	0.035	<RL	3.577	34.443	<RL	<RL	13.092	<RL	0.871	4.923	18.793	220.0
PWSA	AL008	Allegheny	8	01/23/12	14:39	113	26	0.050	19.726	0.031	<RL	2.414	29.646	0.350	<RL	10.763	<RL	0.606	3.613	13.507	195.3
PWSA	AL008	Allegheny	9	02/01/12	15:11	97	23	0.064	14.036	0.018	<RL	2.679	28.833	<RL	<RL	8.183	<RL	0.580	3.681	13.667	177.4
PWSA	AL008	Allegheny	10	02/06/12	7:40	172	30	0.068	16.895	0.039	<RL	2.486	33.198	<RL	<RL	10.095	<RL	0.728	4.565	16.791	197.2
PWSA	AL008	Allegheny	11	02/13/12	8:00	168	34	0.071	22.554	0.028	<RL	2.574	48.266	<RL	<RL	14.343	<RL	0.938	6.214	21.736	255.0
PWSA	AL008	Allegheny	12	02/20/12	9:00	158	39	0.087	28.285	0.025	0.051	3.040	60.185	<RL	<RL	19.926	<RL	1.411	8.043	26.909	403.0
PWSA	AL008	Allegheny	13	02/27/12	7:20	164	36	0.086	24.098	0.026	0.078	2.627	53.472	<RL	<RL	17.123	<RL	1.318	7.148	24.153	276.0
PWSA	AL008	Allegheny	14	03/05/12	7:40	124	24	0.062	15.961	0.017	<RL	2.482	36.087	<RL	<RL	9.786	<RL	<RL	2.441	14.683	192.6
PWSA	AL008	Allegheny	15	03/12/12	7:10	150	28	0.069	18.444	0.038	0.900	2.336	41.183	<RL	<RL	12.241	<RL	0.081	5.058	18.770	221.0
PWSA	AL008	Allegheny	16	03/19/12	9:00	236	32	0.114	21.267	0.031	<RL	1.988	42.492	0.363	<RL	14.156	<RL	0.327	5.529	21.226	245.0
PWSA	AL008	Allegheny	17	03/26/12	7:20	147	34	0.094	20.267	0.012	0.476	1.897	55.161	<RL	<RL	14.842	<RL	1.378	6.879	23.667	268.0
PWSA	AL008	Allegheny	18	04/02/12	7:20	134	36	0.123	19.949	0.009	0.046	2.113	56.089	<RL	<RL	14.571	<RL	1.420	7.119	24.286	271.0
PWSA	AL008	Allegheny	19	04/09/12	7:20	151	34	0.103	22.049	0.044	0.056	2.012	66.796	0.587	<RL	16.753	<RL	1.455	8.167	26.954	305.0
PWSA	AL008	Allegheny	20	04/16/12	8:15	167	38	0.138	20.942	0.010	0.051	2.215	72.538	0.145	<RL	14.253	<RL	1.347	7.653	24.594	317.0
PWSA	AL008	Allegheny	21	04/27/12	7:50	206	48	0.140	26.440	0.031	0.087	1.596	73.980	0.163	<RL	20.657	0.115	1.765	9.648	32.080	357.0
PWSA	AL008	Allegheny	22	04/30/12	8:00	163	40	0.144	22.052	0.010	0.056	1.677	51.985	<RL	<RL	16.673	<RL	1.376	7.180	24.996	282.0
PWSA	AL008	Allegheny	23	05/08/12	8:00	141	40	0.136	21.316	0.039	0.047	1.543	37.595	<RL	<RL	16.283	<RL	1.446	5.638	21.446	243.0
PWSA	AL008	Allegheny	24	05/14/12	7:10	114	32	0.113	15.029	0.060	0.088	2.099	34.858	<RL	<RL	11.752	<RL	1.179	4.838	17.567	199.2
PWSA	AL008	Allegheny	25	05/21/12	7:10	150	28	0.125	17.482	0.019	0.038	1.923	44.902	<RL	<RL	12.797	<RL	1.204	5.794	20.249	229.0
PWSA	AL008	Allegheny	26	05/28/12	8:20	157	32	0.125	19.662	0.027	0.065	1.583	58.305	<RL	<RL	15.138	<RL	1.370	6.701	22.670	258.0
PWSA	AL008	Allegheny	27	06/04/12	7:15	158	38	0.140	21.539	0.054	0.069	1.964	74.734	<RL	<RL	17.416	0.096	1.793	8.126	26.974	286.0
PWSA	AL008	Allegheny	28	06/11/12	7:40	154	34	0.142	20.909	0.079	0.068	2.796	68.068	0.277	<RL	16.148	<RL	1.752	7.767	25.973	288.0
PWSA	AL008	Allegheny	29	06/18/12	7:20	172	40	0.159	23.684	0.055	0.083	2.358	75.972	<RL	<RL	17.880	<RL	1.666	8.388	27.813	319.0
PWSA	AL008	Allegheny	30	06/25/12	7:15	163	40	0.191	22.760	0.021	0.076	1.882	72.231	0.106	<RL	18.773	<RL	1.842	9.401	29.489	338.0
PWSA	AL008	Allegheny	31	07/02/12	8:02	204	40	0.183	28.709	0.016	0.144	2.489	74.137	<RL	<RL	22.090	0.008	1.917	9.279	30.183	342.0
PWSA	AL008	Allegheny	32	07/09/12	7:35	210	38	0.137	31.022	<RL	0.078	1.954	77.186	<RL	<RL	22.140	<RL	2.020	9.714	30.879	360.0
PWSA	AL008	Allegheny	33	07/16/12	7:52	182	40	0.190	29.995	0.050	0.114	2.271	74.356	<RL	<RL	24.007	<RL	1.988	9.876	30.944	366.0
PWSA	AL008	Allegheny	34	07/23/12	8:04	189	44	0.215	27.676	0.058	0.110	1.969	66.953	<RL	<RL	21.506	0.076	1.915	8.675	28.811	327.0
PWSA	AL008	Allegheny	35	07/30/12	7:30	194	40	0.161	29.453	0.063	0.143	2.682	70.845	0.078	<RL	21.793	<RL	2.156	8.509	29.029	352.0
PWSA	AL008	Allegheny	36	08/06/12	7:10	186	40	0.194	26.557	0.053	0.110	2.745	70.929	0.184	<RL	21.138	0.005	2.230	8.570	28.246	339.0
PWSA	AL008	Allegheny	37	08/13/12	7:00	191	34	0.193	26.353	0.030	0.105	2.461	70.397	<RL	<RL	21.666	0.015	2.301	8.460	27.947	336.0
PWSA	AL008	Allegheny	38																		
PWSA	AL008	Allegheny	39	08/31/12	7:00	191	422	0.201	31.636	0.043	0.136	1.846	67.209	<RL	<RL	32.397	<RL	1.180	<RL	31.738	348.0
PWSA	AL008	Allegheny	40	09/03/12	8:04	179	40	0.184	32.756	0.053	0.184	1.773	75.393	<RL	<RL	34.071	<RL	1.178	<RL	36.604	367.0
PWSA	AL008	Allegheny	41	09/10/12	7:00	195	40	0.187	33.016	0.044	0.159	1.367	71.856	<RL	<RL	25.416	<RL	1.977	10.112	31.958	365.0
PWSA	AL008	Allegheny	42	09/17/12	7:00	190	42	0.178	33.452	0.086	0.167	1.852	76.918	<RL	<RL	25.925	<RL	2.086	10.392	33.075	376.0
PWSA	AL008	Allegheny	43	09/24/12	7:00	209	44	0.162	31.334	0.038	0.168	2.115	76.451	<RL	<RL	24.068	<RL	2.046	10.384	33.554	378.0
PWSA	AL008	Allegheny	44	10/01/12	7:00	189	46	0.130	30.102	0.059	0.121	2.555	71.522	<RL	<RL	24.789	<RL	2.267	9.615	32.203	362.0
PWSA	AL008	Allegheny	45	10/08/12	7:00	184	46	0.141	29.772	0.082	0.124	2.730	72.690	<RL	<RL	25.637	<RL	2.149	9.520	32.125	364.0
PWSA	AL008	Allegheny	46	10/15/12	7:00	197	57	0.125	28.188	0.076	0.125	2.611	73.770	<RL	<RL	22.913	<RL	2.214	10.123	33.401	362.0
PWSA	AL008	Allegheny	47	10/22/12	7:00	198	50	0.119	31.759	0.014	0.152	1.598	61.028	0.372	<RL	24.230	<RL	2.003	9.086	31.664	353.0
PWSA	AL008	Allegheny	48	10/29/12	7:00	210	58	0.174	33.745	0.052	0.151	1.589	68.013	<RL	<RL	25.531	<RL	2.040	9.842	35.005	388.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
HAYS MINE	MO005	Monongahela	1	12/05/11	8:30			0.078	11.814	0.021	<RL	2.756	60.880	<RL	<RL	12.898	<RL	0.996	6.178	24.663	255.0
HAYS MINE	MO005	Monongahela	2	12/12/11	8:10			0.080	9.148	0.027	<RL	2.880	58.903	<RL	<RL	11.224	<RL	1.156	6.040	24.568	243.0
HAYS MINE	MO005	Monongahela	3	12/20/11	7:00	158	39	0.079	14.786	0.020	<RL	2.915	71.484	<RL	<RL	15.509	<RL	1.006	6.739	25.615	283.0
HAYS MINE	MO005	Monongahela	4	12/27/11	7:00	168	50	0.092	17.222	0.025	<RL	3.033	91.181	<RL	<RL	20.123	<RL	1.129	8.343	32.512	349.0
HAYS MINE	MO005	Monongahela	5	01/03/12	10:00	180	48	0.094	15.657	0.027	<RL	3.206	93.646	2.479	<RL	16.199	<RL	1.180	7.594	29.888	310.0
HAYS MINE	MO005	Monongahela	6	01/09/12	8:00	180	43	0.082	19.967	0.038	<RL	3.486	78.083	<RL	<RL	20.620	<RL	1.134	7.797	29.537	327.0
HAYS MINE	MO005	Monongahela	7	01/17/12	5:00	198	40	0.097	24.927	0.026	<RL	3.320	82.400	<RL	<RL	24.423	<RL	1.042	7.669	29.050	348.0
HAYS MINE	MO005	Monongahela	8	01/23/12	7:00	194	40	0.097	29.461	0.008	<RL	2.639	60.332	<RL	<RL	19.889	<RL	0.820	5.922	24.248	320.0
HAYS MINE	MO005	Monongahela	9	01/30/12	7:30	166	42	0.101	17.912	0.023	<RL	3.088	58.644	<RL	<RL	14.927	<RL	0.864	5.798	23.948	279.0
HAYS MINE	MO005	Monongahela	10	02/06/12	7:00	209	52	0.107	23.026	0.048	<RL	3.034	85.927	<RL	<RL	21.392	<RL	1.199	8.439	31.964	366.0
HAYS MINE	MO005	Monongahela	11	02/13/12	7:00	249	48	0.111	38.341	0.031	<RL	3.250	87.211	<RL	<RL	31.069	0.209	1.249	9.233	34.111	415.0
HAYS MINE	MO005	Monongahela	12	02/20/12	7:00	247	46	0.116	23.050	0.053	<RL	2.680	115.056	<RL	<RL	32.860	0.138	1.407	10.161	35.582	437.0
HAYS MINE	MO005	Monongahela	13	02/27/12	7:00	215	42	0.118	24.306	0.047	<RL	2.859	90.374	0.104	<RL	26.397	0.021	1.428	8.862	32.094	373.0
HAYS MINE	MO005	Monongahela	14	03/05/12	7:00	135	32	0.090	9.665	<RL	<RL	2.945	46.253	0.086	<RL	10.736	<RL	0.161	3.210	20.729	214.0
HAYS MINE	MO005	Monongahela	15	03/12/12	7:00	147	38	0.095	19.101	0.017	0.057	2.688	52.785	0.259	<RL	16.517	<RL	0.128	5.384	23.237	268.0
HAYS MINE	MO005	Monongahela	16	03/19/12	7:00	174	44	0.142	20.765	0.148	<RL	2.466	75.316	<RL	<RL	21.716	<RL	0.444	7.765	29.843	336.0
HAYS MINE	MO005	Monongahela	17	03/26/12	9:00	198	46	0.078	20.531	0.032	0.109	1.902	52.885	<RL	<RL	23.539	0.025	1.647	9.283	33.300	358.0
HAYS MINE	MO005	Monongahela	18	04/02/12	7:00	169	44	0.228	16.242	0.024	<RL	3.745	50.343	<RL	<RL	13.602	<RL	1.925	11.384	35.769	339.0
HAYS MINE	MO005	Monongahela	19	04/09/12	8:30	199	50	0.670	22.011	0.036	0.076	2.835	94.264	<RL	<RL	25.223	0.008	1.616	9.537	35.044	388.0
HAYS MINE	MO005	Monongahela	20	04/16/12	7:00	220	48	0.222	27.551	0.030	<RL	2.967	97.786	<RL	<RL	26.138	0.286	1.679	9.503	33.843	411.0
HAYS MINE	MO005	Monongahela	21	04/23/12	7:00	264	54	0.199	29.560	0.090	0.051	3.120	108.478	<RL	<RL	32.656	0.254	1.917	10.850	38.163	447.0
HAYS MINE	MO005	Monongahela	22	04/30/12	7:00	269	56	0.153	29.507	0.018	0.058	2.537	114.322	<RL	<RL	37.622	0.169	1.751	10.747	36.446	467.0
HAYS MINE	MO005	Monongahela	23	05/07/12	7:00	188	36	0.139	11.255	0.027	<RL	1.766	81.736	<RL	<RL	19.688	0.025	1.550	7.034	26.242	307.0
HAYS MINE	MO005	Monongahela	24	05/14/12	7:00	124	36	0.135	14.558	0.033	<RL	2.212	51.345	<RL	<RL	16.282	<RL	1.245	5.296	21.098	241.0
HAYS MINE	MO005	Monongahela	25	05/21/12	10:30	132	32	0.131	14.865	0.045	<RL	2.370	51.708	<RL	<RL	15.748	<RL	1.192	5.086	20.050	236.0
HAYS MINE	MO005	Monongahela	26	05/29/12	7:00	232	44	0.159	26.594	0.038	0.083	2.892	93.105	<RL	<RL	28.137	0.174	1.783	8.212	30.662	375.0
HAYS MINE	MO005	Monongahela	27	06/04/12	7:00	204	42	0.179	24.875	0.044	0.063	2.994	85.805	<RL	<RL	27.351	0.142	1.834	7.896	28.397	353.0
HAYS MINE	MO005	Monongahela	28	06/11/12	8:00	257	46	0.193	33.677	0.053	0.080	3.597	108.429	0.119	<RL	35.507	0.170	2.083	9.636	33.827	430.0
HAYS MINE	MO005	Monongahela	29	06/18/12	9:30	251	46	0.197	34.119	0.052	0.057	3.296	112.843	<RL	<RL	36.380	0.204	1.981	9.995	33.458	438.0
HAYS MINE	MO005	Monongahela	30	06/25/12	7:00	242	44	0.199	30.776	0.041	0.063	3.160	108.922	<RL	<RL	35.271	0.146	1.976	9.411	31.662	401.0
HAYS MINE	MO005	Monongahela	31	07/02/12	11:30	300	46	0.189	38.350	<RL	<RL	3.982	112.280	0.320	<RL	46.181	0.313	2.312	10.935	37.225	520.0
HAYS MINE	MO005	Monongahela	32	07/09/12	7:00	284	50	0.137	31.022	<RL	0.078	1.954	77.186	<RL	<RL	40.053	0.267	2.494	10.681	36.944	482.0
HAYS MINE	MO005	Monongahela	33	07/16/12	7:00	274	46	0.319	43.173	0.059	0.112	2.985	118.313	<RL	<RL	45.485	0.284	2.522	11.120	37.386	517.0
HAYS MINE	MO005	Monongahela	34	07/23/12	7:00	362	56	0.265	37.547	0.053	0.130	3.585	164.742	<RL	<RL	21.548	0.091	1.920	8.692	28.862	596.0
HAYS MINE	MO005	Monongahela	35	07/30/12	7:00	301	50	0.238	28.190	0.034	0.081	3.296	136.436	0.082	<RL	44.693	0.403	2.414	11.254	37.766	507.0
HAYS MINE	MO005	Monongahela	36	08/06/12	7:00	218	40	0.232	23.400	0.093	0.059	3.393	97.690	<RL	<RL	30.543	0.192	2.159	8.652	32.316	395.0
HAYS MINE	MO005	Monongahela	37	08/13/12	7:00	232	48	0.233	22.716	0.110	0.092	2.994	100.360	0.111	<RL	33.896	0.241	2.234	8.725	31.842	407.0
HAYS MINE	MO005	Monongahela	38	08/20/12	7:00	261	50	0.227	31.165	0.048	0.086	2.999	98.838	0.079	<RL	34.599	0.116	2.373	9.115	33.786	409.0
HAYS MINE	MO005	Monongahela	39	08/27/12	7:00	304	46	0.261	31.659	0.064	0.108	2.725	104.163	<RL	<RL	34.843	0.220	2.503	9.978	36.473	436.0
HAYS MINE	MO005	Monongahela	40	09/04/12	7:00	282	50	0.288	34.736	0.087	0.139	4.373	127.823	<RL	<RL	68.117	<RL	1.850	9.135	57.850	478.0
HAYS MINE	MO005	Monongahela	41	09/10/12	7:00	278	50	0.243	33.730	0.053	0.080	3.852	119.670	<RL	0.026	42.150	<RL	1.995	11.448	39.805	489.0
HAYS MINE	MO005	Monongahela	42	09/17/12	10:30	292	56	0.303	36.113	0.063	0.124	3.905	122.898	<RL	<RL	46.444	<RL	2.684	11.614	41.986	511.0
HAYS MINE	MO005	Monongahela	43	09/24/12	7:00	283	54	0.282	29.652	0.041	0.097	3.347	129.975	<RL	<RL	46.723	<RL	2.446	11.667	39.860	536.0
HAYS MINE	MO005	Monongahela	44	10/01/12	7:00	284	59	0.216	34.475	0.052	0.101	4.309	119.058	0.823	<RL	44.733	<RL	2.783	11.664	41.079	502.0
HAYS MINE	MO005	Monongahela	45	10/09/12	7:00	305	58	0.213	34.890	0.081	0.124	4.094	139.013	0.733	<RL	51.988	<RL	2.765	11.909	42.455	546.0
HAYS MINE	MO005	Monongahela	46	10/15/12	7:00	306	55	0.189	34.984	0.050	0.102	3.666	130.334	1.467	<RL	48.807	<RL	2.694	11.592	40.748	526.0
HAYS MINE	MO005	Monongahela	47	10/22/12	7:00	319	55	0.203	33.119	0.222	0.121	3.654	126.592	0.714	<RL	45.555	<RL	2.981	11.497	40.425	510.0
HAYS MINE	MO005	Monongahela	48	10/29/12	9:00	293	54	0.272	32.338	0.058	0.099	3.296	121.321	<RL	<RL	45.091	<RL	2.531	10.772	38.890	491.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
MOON TOWN	OH012	Ohio	1	12/05/11	9:20			0.084	15.903	0.026	<RL	2.951	56.909	<RL	<RL	13.997	<RL	1.111	6.274	24.609	261.0
MOON TOWN	OH012	Ohio	2	12/12/11	8:25			0.077	13.306	0.025	<RL	3.120	57.812	<RL	<RL	12.618	<RL	1.148	6.264	25.130	258.0
MOON TOWN	OH012	Ohio	3	12/19/11	8:30	164	41	0.082	16.989	0.019	<RL	3.116	68.371	<RL	<RL	15.485	<RL	1.067	6.840	25.880	290.0
MOON TOWN	OH012	Ohio	4	12/27/11	8:15	142	44	0.087	17.645	0.005	<RL	3.123	69.043	<RL	<RL	16.551	<RL	1.107	7.205	27.371	298.0
MOON TOWN	OH012	Ohio	5	01/03/12	9:10	170	44	0.090	18.212	0.014	<RL	3.283	75.442	<RL	<RL	15.210	<RL	1.049	6.840	26.437	283.0
MOON TOWN	OH012	Ohio	6	01/09/12	11:40	172	42	0.079	23.364	0.036	<RL	3.310	61.613	<RL	<RL	18.526	<RL	1.187	7.153	26.960	301.0
MOON TOWN	OH012	Ohio	7	01/16/12	9:30	196	46	0.080	28.903	0.021	0.103	3.212	76.549	<RL	<RL	24.394	<RL	1.128	8.137	30.717	360.0
MOON TOWN	OH012	Ohio	8	01/23/12	9:30	205	38	0.0895	49.681	0.0384	1.1721	2.8692	54.1841	0	<RL	26.413	<RL	0.795	5.572	22.461	375.0
MOON TOWN	OH012	Ohio	9	01/30/12	9:35	159	38	0.085	22.944	0.002	<RL	3.243	50.645	<RL	<RL	15.181	<RL	0.817	5.486	21.924	277.0
MOON TOWN	OH012	Ohio	10	02/06/12	8:30	183	45	0.104	27.863	0.043	<RL	3.189	69.351	<RL	<RL	20.737	<RL	1.050	7.608	28.760	339.0
MOON TOWN	OH012	Ohio	11	02/13/12	9:50	216	42	0.096	37.557	0.038	<RL	2.813	68.640	<RL	<RL	26.858	0.036	1.222	8.224	29.589	367.0
MOON TOWN	OH012	Ohio	12	02/21/12	9:30	228	44	0.106	27.312	0.019	<RL	2.877	95.154	<RL	<RL	29.287	<RL	1.432	9.526	33.601	317.0
MOON TOWN	OH012	Ohio	13	02/27/12	9:30	213	42	0.109	29.427	0.032	<RL	3.040	80.894	0.642	<RL	25.695	<RL	1.413	8.684	30.459	372.0
MOON TOWN	OH012	Ohio	14	03/05/12	10:00	147	36	0.095	14.904	0.016	<RL	3.001	47.445	<RL	<RL	13.382	<RL	0.235	3.940	21.810	237.0
MOON TOWN	OH012	Ohio	15	03/12/12	9:45	152	38	0.087	23.307	0.023	0.111	2.720	51.244	0.086	<RL	17.810	<RL	0.399	6.051	24.104	277.0
MOON TOWN	OH012	Ohio	16	03/19/12	9:30	170	40	0.236	26.800	0.037	0.084	2.911	65.436	0.218	<RL	21.242	<RL	0.520	7.849	29.065	332.0
MOON TOWN	OH012	Ohio	17	03/26/12	8:15	198	44	0.118	24.302	0.055	0.100	2.498	76.452	0.235	<RL	21.719	<RL	1.497	8.518	30.669	350.0
MOON TOWN	OH012	Ohio	18	04/02/12	10:55	189	44	0.136	23.350	0.032	0.071	2.605	74.660	0.512	<RL	21.169	0.008	1.524	8.425	30.382	342.0
MOON TOWN	OH012	Ohio	19	04/09/12	10:35	184	46	0.134	27.250	<RL	0.047	2.709	83.747	<RL	<RL	23.816	<RL	1.658	9.611	33.024	379.0
MOON TOWN	OH012	Ohio	20	04/16/12	8:00	216	48	0.159	32.103	0.090	0.114	2.816	93.118	<RL	<RL	27.650	0.113	1.814	10.519	35.592	413.0
MOON TOWN	OH012	Ohio	21	04/23/12	9:25	248	48	0.183	33.442	0.106	0.074	2.943	97.855	<RL	<RL	27.936	0.157	1.911	10.999	36.584	430.0
MOON TOWN	OH012	Ohio	22	04/30/12	9:00	213	46	0.147	28.254	0.037	0.062	2.193	83.226	<RL	<RL	24.106	0.026	1.633	9.967	32.303	379.0
MOON TOWN	OH012	Ohio	23	05/07/12	11:30	187	38	0.160	15.342	0.023	<RL	2.086	80.947	<RL	<RL	21.714	0.021	1.425	7.394	27.210	319.0
MOON TOWN	OH012	Ohio	24	05/14/12	11:15	124	34	0.137	18.336	0.037	<RL	2.411	46.286	0.183	<RL	15.737	<RL	1.236	5.642	20.847	244.0
MOON TOWN	OH012	Ohio	25	05/21/12	11:24	137	32	0.127	19.442	0.047	<RL	2.637	50.117	0.080	<RL	16.067	<RL	1.291	5.747	21.166	251.0
MOON TOWN	OH012	Ohio	26	05/29/12	11:15	188	34	0.149	25.306	0.030	0.063	2.942	74.468	0.308	<RL	22.566	0.062	1.674	7.625	26.898	319.0
MOON TOWN	OH012	Ohio	27	06/04/12	10:15	194	36	0.157	24.796	0.055	0.049	2.651	76.776	0.089	<RL	20.414	0.080	1.900	8.348	28.258	327.0
MOON TOWN	OH012	Ohio	28	06/11/12	10:00	201	42	0.177	28.221	0.054	0.064	4.036	79.242	0.104	<RL	23.518	0.097	2.059	8.704	29.199	204.0
MOON TOWN	OH012	Ohio	29	06/18/12	10:30	211	42	0.183	32.964	0.049	0.096	4.815	89.123	0.138	<RL	26.872	0.089	2.116	9.420	31.704	384.0
MOON TOWN	OH012	Ohio	30	06/25/12	11:30	214	46	0.194	33.143	0.055	0.066	4.002	86.536	0.074	<RL	28.173	0.145	2.099	9.164	31.091	368.0
MOON TOWN	OH012	Ohio	31	07/02/12	11:30	232	42	0.208	35.642	0.046	0.105	4.079	90.999	<RL	<RL	31.953	0.186	2.273	10.119	32.114	419.0
MOON TOWN	OH012	Ohio	32	07/09/12	12:00	246	44	0.195	40.256	<RL	0.073	4.257	88.967	0.098	<RL	32.370	0.231	2.409	10.145	33.574	430.0
MOON TOWN	OH012	Ohio	33	07/16/12	11:45	219	46	0.258	42.703	0.046	0.106	4.856	89.574	0.116	<RL	34.325	0.199	2.635	10.699	35.108	452.0
MOON TOWN	OH012	Ohio	34	07/23/12	11:00	280	50	0.241	40.920	0.071	0.129	4.252	118.354	0.147	<RL	24.359	0.026	2.685	12.894	36.803	512.0
MOON TOWN	OH012	Ohio	35	07/30/12	11:45	268	48	0.221	32.252	0.054	0.106	3.500	107.362	0.139	<RL	36.085	0.271	2.550	10.489	35.915	456.0
MOON TOWN	OH012	Ohio	36	08/06/12	11:00	228	40	0.240	31.215	0.088	0.109	3.889	92.886	0.140	<RL	34.468	<RL	2.453	9.410	32.541	417.0
MOON TOWN	OH012	Ohio	37	08/13/12	11:00	229	42	0.232	31.540	0.079	0.078	3.752	87.698	0.117	<RL	32.445	0.224	2.510	9.144	31.785	406.0
MOON TOWN	OH012	Ohio	38	08/20/12	11:25	233	44	0.239	34.956	0.023	0.066	3.752	83.479	0.078	<RL	31.742	0.164	2.609	9.171	31.447	489.0
MOON TOWN	OH012	Ohio	39	08/27/12	11:45	228	42	0.253	37.455	0.088	0.116	3.981	82.499	0.084	<RL	30.740	0.284	2.697	10.361	32.916	404.0
MOON TOWN	OH012	Ohio	40	09/04/12	10:45	242	46	0.278	40.523	0.241	0.156	3.863	89.744	0.166	<RL	54.875	<RL	1.750	0.932	46.754	421.0
MOON TOWN	OH012	Ohio	41	09/10/12	13:00	232	44	0.233	38.751	0.061	0.126	3.675	89.958	0.125	0.026	34.362	<RL	1.815	10.819	35.254	432.0
MOON TOWN	OH012	Ohio	42	09/17/12	13:30	249	46	0.259	40.430	0.007	0.145	4.254	109.939	0.143	<RL	38.913	<RL	2.731	12.052	38.718	475.0
MOON TOWN	OH012	Ohio	43	09/24/12	11:50	209	46	0.233	36.145	0.061	0.109	3.374	82.758	0.083	<RL	32.209	<RL	2.275	10.064	33.633	409.0
MOON TOWN	OH012	Ohio	44	10/01/12	12:30	230	55	0.233	36.986	0.081	0.124	3.347	81.771	0.177	<RL	34.559	<RL	2.336	9.751	36.316	433.0
MOON TOWN	OH012	Ohio	45	10/08/12	10:10	259	56	0.174	39.315	0.056	0.100	4.197	101.556	0.131	<RL	40.388	<RL	2.704	11.160	39.385	472.0
MOON TOWN	OH012	Ohio	46	10/15/12	11:45	261	53	0.185	38.842	0.073	0.109	4.924	101.588	1.818	<RL	38.741	<RL	2.756	11.148	39.452	473.0
MOON TOWN	OH012	Ohio	47	10/22/12	10:30	258	52	0.185	38.361	0.072	0.131	3.982	94.597	0.764	<RL	37.039	<RL	2.741	10.674	38.031	455.0
MOON TOWN	OH012	Ohio	48	10/29/12	12:30	274	53	0.238	40.609	0.070	0.149	3.527	96.678	0.153	<RL	38.431	<RL	2.589	11.579	40.194	476.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
BEAVER FALLS	BE002	Beaver	7	01/20/12	8:55	190	54	0.136	41.608	0.026	<RL	3.749	31.555	0.671	<RL	19.262	<RL	1.695	5.625	23.833	337.0
BEAVER FALLS	BE002	Beaver	7R					0.138	39.696	0.033	<RL	4.064	32.250								
BEAVER FALLS	BE002	Beaver	8			175	50	0.138	39.748	0.079	<RL	4.064	32.250	<RL	<RL	21.479	<RL	1.766	5.779	24.543	317.0
BEAVER FALLS	BE002	Beaver	9	02/03/12	10:00	204	58	0.141	38.616	0.064	<RL	4.644	41.823	3.229	<RL	20.722	<RL	2.187	7.284	29.808	347.0
BEAVER FALLS	BE002	Beaver	11	02/16/12	11:00	263	72	0.160	67.009	<RL	<RL	5.490	56.699	<RL	<RL	40.349	<RL	2.727	10.374	41.645	500.0
BEAVER FALLS	BE002	Beaver	12	02/23/12	9:45	231	70	0.153	45.502	0.057	0.112	5.058	49.480	<RL	<RL	27.129	<RL	2.584	9.255	36.425	407.0
BEAVER FALLS	BE002	Beaver	13	02/29/12	10:30	236	68	0.164	56.906	0.001	<RL	4.414	49.047	<RL	<RL	33.678	<RL	2.464	9.207	37.708	446.0
BEAVER FALLS	BE002	Beaver	14	03/08/12	9:10	185	56	0.144	44.490	0.130	0.051	4.444	38.304	0.149	<RL	26.378	<RL	1.718	7.151	29.671	328.0
BEAVER FALLS	BE002	Beaver	15	03/16/12	11:30	219	68	0.182	46.108	0.034	0.084	3.931	52.657	<RL	<RL	28.481	<RL	1.594	9.216	37.585	423.0
BEAVER FALLS	BE002	Beaver	16	03/21/12	9:55	242	72	0.163	47.071	0.074	0.118	4.643	57.077	<RL	<RL	29.240	<RL	1.819	10.138	40.530	441.0
BEAVER FALLS	BE002	Beaver	17	03/29/12	10:30	240	76														434.0
BEAVER FALLS	BE002	Beaver	18	04/04/12	8:30	270	84	0.230	53.305	0.020	0.089	4.305	64.986	<RL	<RL	32.572	0.079	3.112	11.468	45.620	492.0
BEAVER FALLS	BE002	Beaver	19	04/11/12	9:30	278	94	0.260	54.519	0.0645	0.036	4.308	72.597	0.108	<RL	33.656	0.119	3.539	12.785	50.773	517.0
BEAVER FALLS	BE002	Beaver	20	04/19/12	9:50	320	96	0.291	58.366	0.072	<RL	4.595	74.189	<RL	<RL	34.903	0.400	3.831	12.872	51.865	544.0
BEAVER FALLS	BE002	Beaver	21	04/26/12	8:10	318	90	0.274	59.720	0.123	0.076	4.896	75.419	6.286	<RL	36.017	0.334	3.495	13.062	50.986	548.0
BEAVER FALLS	BE002	Beaver	22	05/04/12	12:00	308	92	0.296	61.040	0.048	0.091	4.638	67.236	0.112	<RL	38.242	0.205	3.783	12.338	48.525	540.0
BEAVER FALLS	BE002	Beaver	23	05/10/12	10:50	163	52	0.188	29.699	0.042	<RL	4.029	31.253	0.092	<RL	19.703	<RL	2.704	6.257	27.008	296.0
BEAVER FALLS	BE002	Beaver	24	05/17/12	9:30	260	78	0.296	43.079	0.045	0.066	4.630	47.050	0.094	<RL	31.069	0.042	3.147	10.107	42.054	458.0
BEAVER FALLS	BE002	Beaver	25	05/24/12	9:00	314	90	0.326	58.809	0.045	0.088	5.602	72.611	<RL	<RL	37.101	<RL	3.977	11.848	47.536	532.0
BEAVER FALLS	BE002	Beaver	26	06/01/12	13:30	335	90	0.315	67.487	0.057	0.096	7.792	80.477	0.314	<RL	40.841	0.319	4.532	12.823	51.790	576.0
BEAVER FALLS	BE002	Beaver	27	06/06/12	10:10	276	88	0.288	51.201	0.050	0.043	6.025	61.337	0.171	<RL	33.540	0.155	3.755	10.362	44.340	467.0
BEAVER FALLS	BE002	Beaver	28	06/14/12	11:30	325	88	0.305	74.705	0.043	0.223	8.249	72.788	0.289	<RL	37.852	<RL	3.858	9.753	40.694	586.0
BEAVER FALLS	BE002	Beaver	29	06/21/12	9:00	303	92	0.334	60.840	0.034	0.058	5.394	64.705	0.209	<RL	34.455	<RL	3.747	10.099	41.092	525.0
BEAVER FALLS	BE002	Beaver	30	06/29/12	8:00	282	88	0.313	54.101	0.049	0.060	4.862	55.731	0.166	<RL	35.564	<RL	4.230	11.284	43.969	510.0
BEAVER FALLS	BE002	Beaver	31	07/06/12	7:40	272	78	0.276	58.296	<RL	0.042	5.240	55.453	0.159	<RL	32.551	<RL	4.135	10.076	45.809	481.0
BEAVER FALLS	BE002	Beaver	33	07/18/12	8:40	282	84	0.359	59.565	0.028	0.091	7.870	56.390	0.253	<RL	38.591	<RL	4.559	10.478	41.685	523.0
BEAVER FALLS	BE002	Beaver	34	07/27/12	7:20	278	88	0.366	55.158	0.035	0.104	6.228	54.000	0.205	<RL	37.362	<RL	4.543	10.427	42.063	496.0
BEAVER FALLS	BE002	Beaver	35	08/02/12	8:30	253	80	0.324	50.083	0.0219	0.0708	4.601	51.091	0.122	<RL	13.062	<RL	1.351	3.087	13.224	471.0
BEAVER FALLS	BE002	Beaver	36	08/09/12	8:00	279	84	0.345	55.465	<RL	0.123	5.336	56.102	0.313	<RL	36.085	<RL	4.348	10.732	42.651	500.0
BEAVER FALLS	BE002	Beaver	37	08/17/12	13:50	294	58	0.352	56.125	0.015	0.104	6.335	52.384	0.218	<RL	38.582	<RL	4.712	10.335	42.789	503.0
BEAVER FALLS	BE002	Beaver	38	08/23/12	10:00	295	80	0.364	59.201	0.097	0.141	6.353	52.253	0.295	<RL	37.988	<RL	5.035	10.576	42.752	489.0
BEAVER FALLS	BE002	Beaver	39	08/30/12	9:55	276		0.372	60.681	<RL	0.103	6.154	62.854	0.112	<RL	62.212	<RL	4.097	5.881	70.263	532.0
BEAVER FALLS	BE002	Beaver	40	09/07/12	9:15	268	80	0.363	58.530	0.032	0.093	7.240	56.758	0.254	0.023	38.902	<RL	4.370	10.755	46.417	512.0
BEAVER FALLS	BE002	Beaver	41	09/13/12	8:30	276	92	0.386	57.961	0.0462	0.085	6.739	57.351	0.161	<RL	41.252	<RL	4.734	10.974	48.321	518.0
BEAVER FALLS	BE002	Beaver	42	09/26/12	9:45	321	93	0.395	68.633	0.1131	0.113	8.582	65.530	0.488	<RL	46.777	0.207	5.278	12.464	52.700	548.0
BEAVER FALLS	BE002	Beaver	43	09/26/12	9:00	269	94	0.427	60.734	0.0735	0.124	7.165	56.998	0.201	<RL	43.191	<RL	4.537	11.474	47.066	552.0
BEAVER FALLS	BE002	Beaver	44	10/03/12	9:15	294	96	0.323	62.113	0	0.094	6.587	61.744	0.243	<RL	43.558	<RL	4.340	12.052	49.937	548.0
BEAVER FALLS	BE002	Beaver	45	10/10/12	10:00	343	100	0.396	73.419	0.0891	0.149	7.884	67.653	0.393	<RL	50.599	<RL	5.092	13.495	53.920	610.0
BEAVER FALLS	BE002	Beaver	46	10/18/12	8:45	376	106	0.373	78.196	0	0.159	9.055	70.677	0.254	<RL	52.947	<RL	5.513	13.964	57.201	637.0
BEAVER FALLS	BE002	Beaver	47	10/25/12	7:55	386	106	0.359	82.817	0.0103	<RL	8.501	73.406	0.350	<RL	53.552	<RL	5.653	14.306	60.431	664.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
STEUBENVILLE	OH065	Ohio	1	12/05/11	9:00			0.090	16.234	0.022	<RL	2.994	47.229	<RL	<RL	12.400	<RL	1.380	5.971	22.805	244.0
STEUBENVILLE	OH065	Ohio	2	12/12/11	9:20			0.097	16.820	0.026	<RL	3.014	50.908	<RL	<RL	13.548	<RL	1.466	6.257	24.788	259.0
STEUBENVILLE	OH065	Ohio	3	12/19/11	8:45	124	44	0.099	19.426	0.038	<RL	3.437	54.496	<RL	<RL	14.045	<RL	1.462	6.687	25.355	276.0
STEUBENVILLE	OH065	Ohio	4	12/27/11	9:45	104	36	0.080	17.001	<RL	<RL	3.328	48.819	<RL	<RL	12.452	<RL	1.360	5.857	21.723	239.0
STEUBENVILLE	OH065	Ohio	5	01/03/12	10:10	138	38	0.089	17.818	0.003	<RL	3.440	59.260	<RL	<RL	12.758	<RL	1.193	6.045	22.824	247.0
STEUBENVILLE	OH065	Ohio	6	01/09/12	9:30	158	44	0.089	22.440	<RL	<RL	3.427	50.903	<RL	<RL	16.307	<RL	1.290	6.706	25.559	294.0
STEUBENVILLE	OH065	Ohio	7	01/17/12	8:00	170	42	0.094	27.329	0.041	<RL	3.064	56.090	<RL	<RL	20.852	<RL	1.312	7.376	27.210	319.0
STEUBENVILLE	OH065	Ohio	7D	01/17/12	8:00			0.092	30.148	0.032	<RL	3.273	59.131	<RL	<RL	18.727	<RL	1.130	6.577	24.349	319.0
STEUBENVILLE	OH065	Ohio	8	01/23/12	8:30	158	34	0.085	28.384	0.048	<RL	3.022	40.617	<RL	<RL	15.451	<RL	0.816	4.543	17.979	264.0
STEUBENVILLE	OH065	Ohio	9	01/30/12	8:15	138	32	0.087	21.969	<RL	<RL	6.815	39.126	5.843	<RL	13.445	<RL	1.039	4.820	18.877	238.0
STEUBENVILLE	OH065	Ohio	10	02/06/12	11:30	162	36	0.139	21.928	0.057	<RL	3.286	47.946	<RL	<RL	13.501	<RL	1.027	5.830	21.725	261.0
STEUBENVILLE	OH065	Ohio	11	02/13/12	9:30	191	42	0.103	26.411	0.044	<RL	3.481	59.161	<RL	<RL	18.632	<RL	1.356	7.595	28.064	310.0
STEUBENVILLE	OH065	Ohio	12	02/21/12	10:30	218	49	0.172	38.575	0.038	0.107	3.811	80.153	<RL	<RL	30.835	0.014	1.698	9.439	33.455	412.0
STEUBENVILLE	OH065	Ohio	13	02/27/12	13:30	206	44	0.126	35.604	<RL	<RL	3.561	89.288	<RL	<RL	27.421	<RL	1.517	9.284	31.839	373.0
STEUBENVILLE	OH065	Ohio	14	03/05/12	9:00	151	32	0.103	19.699	0.062	<RL	3.059	40.546	<RL	<RL	13.170	<RL	0.386	3.193	18.966	235.0
STEUBENVILLE	OH065	Ohio	15	03/12/12	13:20	141	34	0.116	24.850	0.113	0.102	2.933	43.348	0.159	<RL	17.403	<RL	0.538	5.426	22.439	265.0
STEUBENVILLE	OH065	Ohio	16	03/19/12	11:30	155	40	0.064	26.905	0.079	0.050	2.998	56.665	1.152	<RL	19.812	<RL	0.698	7.045	27.003	311.0
STEUBENVILLE	OH065	Ohio	17	03/26/12	13:45	201	48	0.163	26.860	0.021	0.339	2.795	73.190	0.273	<RL	19.526	<RL	1.499	7.700	28.094	352.0
STEUBENVILLE	OH065	Ohio	18	04/02/12	10:00	175	44	0.154	24.715	0.092	<RL	3.032	69.804	<RL	<RL	20.145	<RL	1.829	8.441	29.838	336.0
STEUBENVILLE	OH065	Ohio	19	04/09/12	10:20	180	40	0.190	25.538	0.027	<RL	4.062	76.059	<RL	<RL	21.374	<RL	1.819	9.096	31.677	356.0
STEUBENVILLE	OH065	Ohio	20	04/16/12	11:10	206	50	0.188	30.689	0.031	0.259	3.227	86.833	0.120	<RL	25.376	<RL	2.042	10.235	35.553	401.0
STEUBENVILLE	OH065	Ohio	21	04/23/12	10:15	243	52	0.220	34.985	0.070	0.077	3.827	90.873	0.092	<RL	27.561	0.055	2.269	10.966	37.336	427.0
STEUBENVILLE	OH065	Ohio	22	04/30/12	10:15	239	52	0.177	33.676	0.050	0.072	2.951	90.094	<RL	<RL	26.395	0.033	1.908	10.850	36.261	423.0
STEUBENVILLE	OH065	Ohio	23	05/07/12	7:50	227	48	0.173	24.764	0.042	0.055	2.483	91.581	<RL	<RL	27.501	0.046	1.748	8.961	31.355	387.0
STEUBENVILLE	OH065	Ohio	24	05/14/12	11:30	122	32	0.155	17.160	0.049	0.054	2.650	46.921	0.089	<RL	14.614	<RL	1.543	5.711	21.226	241.0
STEUBENVILLE	OH065	Ohio	25	05/21/12	14:05	140	40	0.150	18.301	0.042	0.068	2.620	54.105	0.105	<RL	17.385	<RL	1.488	6.107	23.043	268.0
STEUBENVILLE	OH065	Ohio	26	05/29/12	11:20	174	36	0.165	24.910	0.036	0.053	2.975	62.821	<RL	<RL	19.775	<RL	1.794	6.907	24.959	297.0
STEUBENVILLE	OH065	Ohio	27	06/04/12	7:50	217	38	0.189	29.565	0.056	0.074	3.449	80.101	<RL	<RL	24.448	0.228	2.160	8.612	30.362	263.0
STEUBENVILLE	OH065	Ohio	28	06/11/12	9:40	202	44	0.195	29.476	0.055	0.116	3.485	81.766	<RL	<RL	23.394	0.168	2.490	8.824	30.360	342.0
STEUBENVILLE	OH065	Ohio	29	06/18/12	13:40	219	48	0.216	33.352	0.056	0.074	4.171	80.640	<RL	<RL	24.924	0.066	2.452	9.317	31.835	379.0
STEUBENVILLE	OH065	Ohio	30	06/25/12	13:45	232	46	0.234	36.412	0.061	0.074	4.492	86.802	0.094	<RL	28.659	0.087	2.474	9.838	33.426	327.0
STEUBENVILLE	OH065	Ohio	31	07/02/12	9:45	238	48	0.246	37.547	0.075	0.098	4.728	80.745	<RL	<RL	29.062	0.235	2.543	10.219	34.143	416.0
STEUBENVILLE	OH065	Ohio	32	07/09/12	8:45	249	50	0.254	41.246	<RL	0.068	4.768	83.687	<RL	<RL	31.378	0.185	2.880	10.477	35.271	433.0
STEUBENVILLE	OH065	Ohio	33	07/16/12	13:30	237	50	0.272	43.285	0.013	0.113	4.267	93.814	<RL	<RL	35.362	0.094	2.905	10.713	35.564	468.0
STEUBENVILLE	OH065	Ohio	34	07/23/12	10:20	257	48	0.302	44.619	0.087	0.141	4.649	89.298	<RL	<RL	43.788	0.474	3.114	12.876	38.755	450.0
STEUBENVILLE	OH065	Ohio	35	07/30/12	11:00	289	54	0.273	41.335	0.080	<RL	4.223	112.082	0.085	<RL	42.595	0.358	2.870	11.635	38.840	506.0
STEUBENVILLE	OH065	Ohio	36	08/06/12	10:35	227	48	0.258	34.766	0.020	0.147	3.674	87.939	<RL	<RL	32.422	0.206	2.839	10.006	34.623	426.0
STEUBENVILLE	OH065	Ohio	37	08/13/12	10:40	260	48	0.294	36.983	0.081	0.122	4.173	96.423	0.081	<RL	36.359	0.349	3.102	10.354	35.757	454.0
STEUBENVILLE	OH065	Ohio	38	08/22/12	9:30	242	56	0.302	38.005	0.043	0.093	3.767	87.831	<RL	<RL	33.891	0.230	3.046	9.578	34.690	429.0
STEUBENVILLE	OH065	Ohio	39	08/27/12	7:50	289	50	0.378	39.766	0.080	0.104	4.244	90.394	<RL	<RL	34.904	<RL	2.705	9.986	33.848	441.0
STEUBENVILLE	OH065	Ohio	40	09/04/12	11:10	241	50	0.313	43.015	0.090	0.152	4.637	87.149	<RL	<RL	55.793	<RL	2.462	1.943	49.603	423.0
STEUBENVILLE	OH065	Ohio	41	09/10/12	10:15	248	50	0.287	44.818	0.098	0.133	4.686	91.212	<RL	0.027	36.141	<RL	2.717	11.564	38.575	469.0
STEUBENVILLE	OH065	Ohio	42	09/17/12	13:20	255	58	0.305	46.238	0.172	0.133	5.026	92.386	0.111	<RL	38.679	<RL	3.320	11.505	39.921	479.0
STEUBENVILLE	OH065	Ohio	43	09/24/12	11:15	283	54	0.295	44.586	0.069	0.128	4.453	88.478	0.134	<RL	37.240	<RL	3.171	11.472	38.580	509.0
STEUBENVILLE	OH065	Ohio	44	10/01/12	13:20	257	55	0.293	42.134	0.141	0.146	4.929	90.139	1.127	<RL	38.098	<RL	3.035	10.646	38.380	471.0
STEUBENVILLE	OH065	Ohio	45	10/09/12	10:00	270	59	0.261	45.529	0.137	0.145	4.503	92.559	1.546	<RL	39.622	<RL	2.970	11.107	41.170	485.0
STEUBENVILLE	OH065	Ohio	46	10/15/12	13:15	269	60	0.238	42.687	0.118	0.134	4.747	93.878	<RL	<RL	38.351	<RL	3.184	11.754	40.724	483.0
STEUBENVILLE	OH065	Ohio	47	10/22/12	10:15	298	58	0.258	44.963	0.061	0.138	5.517	103.019	1.536	<RL	43.653	<RL	3.366	11.628	41.787	510.0
STEUBENVILLE	OH065	Ohio	48	10/29/12	13:35	307	56	0.303	43.314	0.070	0.142	5.254	102.142	0.084	<RL	39.679	<RL	3.026	11.501	40.779	497.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
WHEELING	OH087	Ohio	1	12/05/11	13:30			0.092	16.667	0.022	<RL	3.113	50.102	<RL	<RL	13.264	<RL	1.460	6.293	24.526	253.0
WHEELING	OH087	Ohio	2	12/13/11	8:30			0.099	16.844	0.023	<RL	3.170	53.055	<RL	<RL	13.186	<RL	1.478	6.443	25.784	266.0
WHEELING	OH087	Ohio	3	12/19/11	8:30	150	46	0.105	20.641	0.046	<RL	3.560	56.992	<RL	<RL	14.929	<RL	1.602	7.045	27.256	290.0
WHEELING	OH087	Ohio	4	12/27/11	8:00	106	40	0.074	17.322	0.037	<RL	3.394	51.115	<RL	<RL	12.622	<RL	1.232	6.151	23.373	251.0
WHEELING	OH087	Ohio	5	01/03/12	8:30	142	40	0.091	18.201	0.042	<RL	3.455	61.529	<RL	<RL	13.272	<RL	1.205	6.233	24.135	258.0
WHEELING	OH087	Ohio	6	01/10/12	8:00	150	45	0.091	22.531	0.053	<RL	3.477	54.271	<RL	<RL	16.506	<RL	1.305	7.103	27.204	291.0
WHEELING	OH087	Ohio	7	01/17/12	9:00	183	48	0.090	31.161	0.045	<RL	3.480	60.977	<RL	<RL	21.942	<RL	1.333	7.651	29.242	337.0
WHEELING	OH087	Ohio	8	01/23/12	13:45	155	38	0.090	26.529	0.051	<RL	3.029	43.920	<RL	<RL	16.084	<RL	0.952	5.318	20.869	271.0
WHEELING	OH087	Ohio	9	01/30/12	13:00	144	38	0.088	22.648	0.033	<RL	3.255	41.129	<RL	<RL	13.449	<RL	0.986	5.092	20.122	253.0
WHEELING	OH087	Ohio	10	02/06/12	13:30	148	39	0.099	21.032	0.039	<RL	3.216	47.797	<RL	<RL	14.215	<RL	1.033	6.325	24.312	261.0
WHEELING	OH087	Ohio	11	02/13/12	13:30	193	46	0.110	26.243	0.039	0.104	3.420	59.087	<RL	<RL	17.086	<RL	1.234	7.280	27.505	315.0
WHEELING	OH087	Ohio	12	02/23/12	10:30	238	50	0.132	35.122	0.055	<RL	3.448	83.692	<RL	<RL	27.652	<RL	1.679	9.409	33.010	413.0
WHEELING	OH087	Ohio	13	02/27/12	13:00	217	48	0.130	32.211	0.062	<RL	3.841	77.035	<RL	<RL	22.007	<RL	1.622	8.496	30.057	377.0
WHEELING	OH087	Ohio	14	03/05/12	14:00	141	34	0.187	22.774	0.035	0.176	3.118	43.064	<RL	<RL	14.387	<RL	0.420	3.631	20.446	245.0
WHEELING	OH087	Ohio	15	03/12/12	14:30	156	42	DNG METHOD CAN/T QUANTITATE!							<RL	14.379	<RL	<RL	5.783	20.427	293.0
WHEELING	OH087	Ohio	16	03/19/12	13:45	178	48	0.151	25.989	0.072	<RL	3.147	62.901	<RL	<RL	19.766	<RL	0.631	7.919	29.641	331.0
WHEELING	OH087	Ohio	17	03/26/12	13:00	202	48	0.123	25.985	0.031	0.047	2.770	71.498	<RL	<RL	20.325	<RL	1.622	8.467	30.838	354.0
WHEELING	OH087	Ohio	18	04/02/12	13:30	185	48	0.294	25.258	0.037	0.415	2.713	72.999	0.394	<RL	20.643	<RL	1.834	9.007	32.086	352.0
WHEELING	OH087	Ohio	19	04/09/12	9:00	210	50	0.169	25.096	<RL	<RL	2.993	84.185	<RL	<RL	21.623	<RL	1.746	10.190	34.341	380.0
WHEELING	OH087	Ohio	20	04/16/12	13:30	249	54	0.200	29.343	0.020	0.144	3.050	97.609	0.634	<RL	25.665	<RL	2.116	11.421	37.928	429.0
WHEELING	OH087	Ohio	21	04/23/12	14:00	253	54	0.209	33.133	0.071	0.070	3.676	95.391	0.102	<RL	26.311	<RL	2.149	11.615	38.580	431.0
WHEELING	OH087	Ohio	22	04/30/12	13:30	265	52	0.198	37.939	0.043	0.066	3.482	96.805	<RL	<RL	30.536	0.201	2.215	11.658	38.962	453.0
WHEELING	OH087	Ohio	23	05/07/12	13:30	224	48	0.182	25.670	0.033	0.063	2.595	99.484	<RL	<RL	30.829	0.147	1.856	9.730	33.430	410.0
WHEELING	OH087	Ohio	24	05/15/12	7:30	132	34	0.147	17.483	0.043	<RL	2.778	50.484	<RL	<RL	15.116	<RL	1.543	6.140	22.659	256.0
WHEELING	OH087	Ohio	25	05/21/12	8:30	148	38	0.174	18.401	0.036	0.039	2.762	54.794	<RL	<RL	17.375	<RL	1.441	6.581	23.624	274.0
WHEELING	OH087	Ohio	26	05/29/12	8:30	179	36	0.184	22.139	0.044	0.053	2.711	71.695	<RL							306.0
WHEELING	OH087	Ohio	27	06/04/12	8:00	208	42	0.268	29.360	0.049	0.063	3.521	80.491	<RL	<RL	24.373	0.131	2.195	8.960	30.300	352.0
WHEELING	OH087	Ohio	28	06/11/12	8:00	236	48	0.252	33.205	0.034	0.087	3.701	87.219	<RL	<RL	26.036	0.116	2.456	9.765	33.267	385.0
WHEELING	OH087	Ohio	29	06/18/12	9:00	223	48	0.232	31.846	0.063	0.104	3.619	107.580	<RL	<RL	25.235	0.041	2.281	10.024	32.392	386.0
WHEELING	OH087	Ohio	30	06/25/12	8:30	233	50	0.183	28.368	0.037	0.054	3.429	70.790	<RL	<RL	22.537	<RL	2.130	8.034	26.453	395.0
WHEELING	OH087	Ohio	31	07/02/12	8:00	252	48	0.310	37.075	0.058	0.093	4.949	89.736	<RL	<RL	29.727	0.133	2.581	10.832	35.246	436.0
WHEELING	OH087	Ohio	32	07/09/12	8:30	249	50	0.259	39.915	<RL	<RL	4.342	89.489	0.072	<RL	32.183	0.105	2.765	10.961	36.209	437.0
WHEELING	OH087	Ohio	33	07/16/12	8:00	239	52	0.300	41.113	0.039	0.096	4.222	92.330	<RL	<RL	33.603	0.168	2.928	11.594	36.951	459.0
WHEELING	OH087	Ohio	34	07/23/12	8:30	270	52	0.326	44.120	0.055	0.135	4.358	97.377	<RL	<RL	44.876	0.592	2.533	11.604	37.391	478.0
WHEELING	OH087	Ohio	35	07/30/12	8:30	308	54	0.328	45.284	0.077	0.157	4.587	115.705	<RL	<RL	45.912	0.248	2.954	11.913	39.186	528.0
WHEELING	OH087	Ohio	36	08/06/12	8:00	297	52	0.307	40.951	0.063	0.166	3.967	120.612	0.152	<RL	43.068	0.344	2.993	12.263	41.015	518.0
WHEELING	OH087	Ohio	37	08/15/12	13:30	257	50	0.262	35.767	0.055	0.110	3.828	96.979	0.167	<RL	35.140	0.232	3.030	10.556	35.751	446.0
WHEELING	OH087	Ohio	38	08/20/12	8:30	273	52	0.299	37.511	0.036	0.061	4.008	101.054	<RL	<RL	36.594	0.228	3.046	10.572	35.419	463.0
WHEELING	OH087	Ohio	39	08/27/12	15:00	328	48	0.333	40.613	0.057	0.115	3.873	101.118	<RL	<RL	36.419	<RL	3.382	12.109	38.559	472.0
WHEELING	OH087	Ohio	40	09/04/12	14:45	244	50	0.326	40.871	0.094	0.120	4.321	98.446	<RL	<RL	58.159	<RL	2.327	4.855	48.429	412.0
WHEELING	OH087	Ohio	41	09/10/12	15:00	256	52	0.332	45.817	0.055	0.147	4.927	96.500	0.166	0.027	38.254	<RL	2.908	12.257	39.889	481.0
WHEELING	OH087	Ohio	42	09/17/12	15:30	262	50	0.326	46.485	0.085	0.142	4.945	99.821	<RL	<RL	38.531	<RL	3.397	12.401	40.162	485.0
WHEELING	OH087	Ohio	43	09/24/12	14:30	264	50	0.283	45.196	0.045	0.153	4.975	96.902	0.085	<RL	38.676	<RL	3.221	11.890	40.093	495.0
WHEELING	OH087	Ohio	44	10/01/12	15:00	280	57	0.278	45.320	0.038	0.278	4.962	104.113	0.097	<RL	42.336	<RL	3.240	11.940	42.177	512.0
WHEELING	OH087	Ohio	45	10/03/12	15:00	264	58	0.253	42.629	0.044	0.147	5.095	97.149	1.830	<RL	38.116	<RL	2.997	11.882	39.944	482.0
WHEELING	OH087	Ohio	46	10/15/12	8:30	277	60	0.255	45.444	0.133	0.137	4.545	95.168	0.085	<RL	40.556	<RL	3.088	11.498	41.939	494.0
WHEELING	OH087	Ohio	47	10/22/12	15:00	312	61	0.258	47.598	0.076	0.155	5.209	110.878	1.270	<RL	43.332	<RL	3.451	13.210	44.572	536.0
WHEELING	OH087	Ohio	48	10/29/12	15:00	289	58	0.273	45.212	0.074	0.136	5.708	107.586	<RL	<RL	42.068	<RL	3.165	12.730	43.272	520.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
SISTERSVLE	OH137	Ohio	4	12/27/11	9:31	110	46	0.088	20.461	0.029	<RL	3.331	46.562	<RL	<RL	13.750	<RL	1.268	6.175	24.053	261.0
SISTERSVLE	OH137	Ohio	5	01/03/12	9:21	162	46	0.117	20.049	0.030	<RL	3.343	68.967	<RL	<RL	15.536	<RL	1.237	6.899	26.063	281.0
SISTERSVLE	OH137	Ohio	6	01/09/12	8:00	154	47	0.087	24.469	0.038	<RL	3.376	54.635	<RL	<RL	18.145	<RL	1.248	7.332	27.821	304.0
SISTERSVLE	OH137	Ohio	7	01/17/12	10:20	202	50	0.103	36.215	0.032	<RL	3.646	59.613	<RL	<RL	22.768	<RL	1.202	7.203	27.775	359.0
SISTERSVLE	OH137	Ohio	8	01/24/12	10:00	185	42	0.087	27.433	0.033	<RL	2.914	45.721	<RL	<RL	16.781	<RL	0.880	5.488	21.644	285.0
SISTERSVLE	OH137	Ohio	9	01/30/12	8:30	159	42	0.123	26.344	0.026	<RL	3.339	43.918	<RL	<RL	16.303	<RL	1.044	5.468	21.955	277.0
SISTERSVLE	OH137	Ohio	10	02/06/12	10:20	158	41	0.105	22.927	0.030	<RL	3.201	51.341	<RL	<RL	16.302	<RL	1.187	6.948	25.993	279.0
SISTERSVLE	OH137	Ohio	11	02/13/12	9:30	201	48	0.108	26.896	0.046	0.129	3.264	63.239	<RL	<RL	20.213	<RL	1.344	8.376	30.836	336.0
SISTERSVLE	OH137	Ohio	12	02/20/12	11:15	229	50	0.124	43.322	0.050	<RL	3.690	74.000	<RL	<RL	30.906	0.004	1.533	9.318	32.985	334.0
SISTERSVLE	OH137	Ohio	13	02/27/12	9:30	243	52	0.130	33.720	0.090	<RL	3.920	69.255	<RL	<RL	25.851	<RL	1.757	8.636	31.023	427.0
SISTERSVLE	OH137	Ohio	14	03/05/12	8:30	157	38	0.148	22.303	0.038	<RL	2.997	49.803	0.196	<RL	16.043	<RL	0.361	4.671	22.565	277.0
SISTERSVLE	OH137	Ohio	15	03/12/12	9:38	169	42	0.108	27.583	0.044	0.290	3.011	50.932	0.104	<RL	20.399	<RL	0.427	6.621	26.276	304.0
SISTERSVLE	OH137	Ohio	16	03/14/12	8:00	168	48	0.072	29.642	0.030	0.251	3.025	57.747	<RL	<RL	21.834	<RL	0.630	7.537	28.538	334.0
SISTERSVLE	OH137	Ohio	17	03/26/12	8:35	210	52	0.091	20.388	0.020	<RL	1.784	52.968	0.285	<RL	23.538	0.034	1.649	9.280	33.334	375.0
SISTERSVLE	OH137	Ohio	18	04/02/12	8:45	193	50	0.143	25.488	0.081	<RL	3.122	70.694	0.525	<RL	21.728	0.009	1.746	8.890	31.545	353.0
SISTERSVLE	OH137	Ohio	19	04/09/12	9:00	180	50	0.183	29.097	0.562	<RL	3.010	78.999	0.373	<RL	24.434	<RL	1.823	9.868	33.819	381.0
SISTERSVLE	OH137	Ohio	20	04/16/12	6:35	222	54	0.172	29.930	0.017	<RL	2.732	87.507	<RL	<RL	26.068	0.009	1.791	10.660	35.833	407.0
SISTERSVLE	OH137	Ohio	21	04/23/12	9:00	258	56	0.219	35.453	0.089	0.067	3.025	100.747	<RL	<RL	31.552	0.144	2.093	11.883	39.154	455.0
SISTERSVLE	OH137	Ohio	22	04/30/12	9:00	263	54	0.231	36.636	0.038	0.067	3.616	96.469	<RL	<RL	28.936	0.113	2.299	11.930	38.985	454.0
SISTERSVLE	OH137	Ohio	23	05/07/12	10:00	225	50	0.159	28.965	0.025	0.060	2.650	74.464	<RL	<RL	25.521	0.065	1.792	9.167	31.345	370.0
SISTERSVLE	OH137	Ohio	24	05/14/12	9:00	153	44	0.169	20.761	0.062	<RL	2.617	48.072	<RL	<RL	17.851	<RL	1.635	6.195	24.054	273.0
SISTERSVLE	OH137	Ohio	25	05/21/12	9:00	156	40	0.148	22.743	0.087	0.044	2.730	50.999	<RL	<RL	18.874	0.005	1.541	6.330	23.258	281.0
SISTERSVLE	OH137	Ohio	26	05/29/12	10:00	194	40	0.164	25.928	0.048	0.048	2.331	71.364	<RL	<RL	24.544	0.043	1.635	7.502	25.751	294.0
SISTERSVLE	OH137	Ohio	27	06/04/12	8:00	187	38	0.176	26.032	0.041	0.060	2.580	72.535	<RL	<RL	22.430	0.122	1.872	7.916	26.690	323.0
SISTERSVLE	OH137	Ohio	28	06/11/12	9:00	233	46	0.249	37.637	0.048	0.062	3.525	84.621	<RL	<RL	31.341	0.302	2.213	9.080	30.692	397.0
SISTERSVLE	OH137	Ohio	29	06/18/12	9:00	243	50	0.227	44.263	0.125	0.068	3.642	92.742	<RL	<RL	33.864	0.222	2.453	10.307	34.540	440.0
SISTERSVLE	OH137	Ohio	30	06/25/12	9:00	237	50	0.227	38.940	0.038	0.055	3.341	93.077	<RL	<RL	31.211	0.234	2.325	10.161	33.101	400.0
SISTERSVLE	OH137	Ohio	32	07/09/12	9:00	271	48	0.240	46.130	<RL	0.063	4.485	96.103	<RL	<RL	36.827	0.272	2.697	11.523	35.942	471.0
SISTERSVLE	OH137	Ohio	33	07/16/12	9:00	253	50	0.311	49.236	0.249	0.130	4.080	92.926	<RL	<RL	39.958	0.357	2.758	11.574	36.240	491.0
SISTERSVLE	OH137	Ohio	34	07/23/12	9:00	274	54	0.304	43.956	0.053	0.122	4.078	98.376	<RL	<RL	60.622	0.777	2.614	13.198	41.334	475.0
SISTERSVLE	OH137	Ohio	35	07/30/12	9:00	287	50	0.310	48.704	0.115	0.159	4.566	97.282	<RL	<RL	39.232	0.193	3.065	11.688	38.159	494.0
SISTERSVLE	OH137	Ohio	36	08/06/12	9:00	307	50	0.292	48.173	0.045	0.110	3.713	113.116	<RL	<RL	49.326	0.515	2.946	11.890	38.098	534.0
SISTERSVLE	OH137	Ohio	37	08/13/12	9:00	314	52	0.303	48.487	0.048	0.139	3.671	124.111	<RL	<RL	48.115	0.460	3.069	12.548	40.744	557.0
SISTERSVLE	OH137	Ohio	38	08/20/12	9:00	295	48	0.277	46.248	0.061	0.132	3.218	99.591	<RL	<RL	41.699	0.378	2.951	11.018	36.069	493.0
SISTERSVLE	OH137	Ohio	39	08/27/12	9:00	359	46	0.307	47.251	0.116	0.121	3.708	104.699	<RL	<RL	47.891	9.995	32.493	11.418	61.625	498.0
SISTERSVLE	OH137	Ohio	40	09/04/12	9:00	297	50	0.333	56.351	0.136	0.137	4.207	105.259	<RL	<RL	80.971	<RL	2.346	11.463	51.107	495.0
SISTERSVLE	OH137	Ohio	41	09/10/12	9:20	276	48	0.399	47.471	0.128	0.125	3.961	103.000	<RL	0.027	44.737	<RL	2.347	11.584	38.240	505.0
SISTERSVLE	OH137	Ohio	42	09/17/12	9:00	292	50	0.334	52.756	0.117	0.144	4.311	102.187	<RL	<RL	46.968	0.054	3.387	11.945	39.133	517.0
SISTERSVLE	OH137	Ohio	43	09/24/12	9:20	243	56	0.314	48.695	0.076	0.143	4.612	100.816	<RL	<RL	42.858	<RL	3.406	11.941	40.454	531.0
SISTERSVLE	OH137	Ohio	44	10/01/12	9:00	268	56	0.275	49.966	0.078	0.162	4.815	100.703	1.062	<RL	43.851	<RL	3.155	11.835	41.001	179.3
SISTERSVLE	OH137	Ohio	45	10/08/12	9:00	296	58	0.289	52.941	0.121	0.138	4.898	109.502	1.470	<RL	47.933	<RL	3.123	12.505	43.054	543.0
SISTERSVLE	OH137	Ohio	46	10/15/12	9:00	305	58	0.265	57.302	0.040	0.143	4.919	101.215	<RL	<RL	51.135	0.025	3.254	11.846	41.269	545.0
SISTERSVLE	OH137	Ohio	47	10/22/12	9:00	332	63	0.248	56.377	<RL	0.141	4.966	111.734	0.881	<RL	48.986	<RL	3.036	12.345	43.245	566.0
SISTERSVLE	OH137	Ohio	48	10/29/12	8:00	313	61	0.309	53.376	0.080	0.139	4.955	110.779	<RL	<RL	47.388	<RL	3.186	12.660	43.970	556.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
MUSK AEP	MU029	Muskingum	1	12/06/11	9:22			0.125	22.525	0.020	<RL	6.767	74.091	<RL	<RL	15.033	<RL	3.049	14.093	45.520	420.0
MUSK AEP	MU029	Muskingum	2	12/13/11	8:12			0.146	23.899	0.025	<RL	7.574	70.737	<RL	<RL	15.309	<RL	3.121	13.657	44.641	422.0
MUSK AEP	MU029	Muskingum	3	12/21/11	7:59	236	107	0.134	27.075	0.028	<RL	7.719	78.231	<RL	<RL	16.396	<RL	2.996	14.948	48.968	459.0
MUSK AEP	MU029	Muskingum	4	12/27/11	9:15	148	82	0.116	19.491	0.026	<RL	7.309	55.140	<RL	<RL	11.882	<RL	2.569	11.153	37.540	349.0
MUSK AEP	MU029	Muskingum	5	01/03/12	8:35	264	100	0.128	26.794	0.643	<RL	7.126	101.784	<RL	<RL	16.548	<RL	2.304	15.043	49.450	455.0
MUSK AEP	MU029	Muskingum	6	01/10/12	8:00	317	122	0.144	35.987	0.032	<RL	8.152	88.323	<RL	<RL	22.102	<RL	2.467	17.645	59.715	539.0
MUSK AEP	MU029	Muskingum	7	01/17/12	8:10	333	122	0.135	44.369	0.034	<RL	7.154	96.127	<RL	<RL	27.200	<RL	2.470	18.445	60.463	580.0
MUSK AEP	MU029	Muskingum	8	01/24/12	8:30	320	104	0.192	37.611	0.033	<RL	7.161	78.054	<RL	<RL	20.662	<RL	2.019	14.228	47.304	501.0
MUSK AEP	MU029	Muskingum	9	01/31/12	8:20	213	70	0.123	27.599	0.032	<RL	6.335	45.502	<RL	<RL	15.058	<RL	2.136	8.831	30.385	338.0
MUSK AEP	MU029	Muskingum	10	02/07/12	8:15	290	101	0.152	36.330	0.014	<RL	7.249	77.612	<RL	<RL	22.135	<RL	2.273	15.042	51.200	488.0
MUSK AEP	MU029	Muskingum	11	02/14/12	9:02	337	120	0.136	41.972	0.013	<RL	7.151	94.663	<RL	<RL	22.630	0.203	1.997	16.290	54.602	568.0
MUSK AEP	MU029	Muskingum	12	02/21/12	8:15	317	108	0.147	50.117	0.007	<RL	6.735	86.333	<RL	<RL	31.278	<RL	2.593	16.477	52.129	574.0
MUSK AEP	MU029	Muskingum	13	02/28/12	8:12	353	124	0.162	44.773	0.079	<RL	6.474	99.709	<RL	<RL	26.849	<RL	2.453	18.183	58.584	594.0
MUSK AEP	MU029	Muskingum	14	03/06/12	8:10	295	94	0.170	54.856	<RL	<RL	6.534	71.044	<RL	<RL	25.467	<RL	1.752	16.808	46.747	486.0
MUSK AEP	MU029	Muskingum	15	03/13/12	8:15	253	88	0.474	54.949	<RL	0.073	5.713	65.644	<RL	<RL	21.818	<RL	1.264	13.891	42.936	438.0
MUSK AEP	MU029	Muskingum	16	03/20/12	8:13	246	96	0.163	27.417	0.040	0.088	5.487	63.186	0.197	<RL	18.136	<RL	1.666	14.338	44.681	424.0
MUSK AEP	MU029	Muskingum	17	03/28/12	8:04	307	110	0.167	32.761	<RL	0.279	4.882	77.229	<RL	<RL	21.660	<RL	2.598	15.993	53.172	503.0
MUSK AEP	MU029	Muskingum	18	04/03/12	8:30	296	116	0.207	32.583	0.030	0.287	4.623	79.515	<RL	<RL	22.124	<RL	2.637	16.882	54.806	506.0
MUSK AEP	MU029	Muskingum	19	04/10/12	9:00	326	126	0.211	38.302	0.026	<RL	3.649	93.721	0.111	<RL	25.725	<RL	2.644	19.103	60.981	567.0
MUSK AEP	MU029	Muskingum	20	04/17/12	8:15	362	136	0.218	44.919	0.024	0.815	3.037	109.453	<RL	<RL	29.632	<RL	2.804	21.441	67.416	630.0
MUSK AEP	MU029	Muskingum	21	04/24/12	8:12	423	136	0.247	50.121	0.092	0.059	2.536	124.530	<RL	<RL	33.119	0.057	3.196	23.498	70.665	671.0
MUSK AEP	MU029	Muskingum	22	05/01/12	7:13	413	134	0.257	49.827	0.035	0.066	2.092	121.649	<RL	<RL	33.699	0.052	3.025	23.430	69.872	674.0
MUSK AEP	MU029	Muskingum	23	05/08/12	8:00	288	100	0.198	27.006	0.067	0.037	5.213	82.845	<RL	<RL	19.894	0.051	3.187	15.773	48.649	466.0
MUSK AEP	MU029	Muskingum	24	05/15/12	8:50	271	110	0.193	29.416	0.133	<RL	7.684	75.966	0.088	<RL	20.801	<RL	3.231	15.945	51.255	486.0
MUSK AEP	MU029	Muskingum	25	05/22/12	8:55	354	130	0.218	38.691	0.084	0.066	2.851	103.705	<RL	<RL	26.257	<RL	3.054	20.800	61.877	586.0
MUSK AEP	MU029	Muskingum	26	05/29/12	9:06	386	122	0.243	50.139	0.066	0.061	2.337	115.556	<RL	<RL	32.985	0.370	3.613	21.855	59.412	612.0
MUSK AEP	MU029	Muskingum	27	06/05/12	8:57			0.260	50.868	0.130	0.074	4.653	103.728	0.084	<RL	33.874	0.401	4.368	20.247	61.513	610.0
MUSK AEP	MU029	Muskingum	28	06/12/12	8:28	442	130	0.258	65.743	0.096	0.073	2.951	128.437	0.080	<RL	44.121	1.062	4.353	23.444	64.464	701.0
MUSK AEP	MU029	Muskingum	29	06/19/12	8:20	431	130	0.274	61.463	0.346	0.081	1.524	132.476	0.134	<RL	42.560	1.126	4.285	23.797	61.948	708.0
MUSK AEP	MU029	Muskingum	30	06/26/12	8:25	441	144	0.278	62.572	0.059	0.081	2.388	126.746	<RL	<RL	34.482	<RL	3.345	17.454	50.030	712.0
MUSK AEP	MU029	Muskingum	31	07/03/12	8:07	418	120	0.319	66.492	0.133	0.074	2.250	121.127	<RL	<RL	47.260	0.892	5.012	22.699	57.322	692.0
MUSK AEP	MU029	Muskingum	32	07/10/12	9:00	420	100	0.286	72.248	<RL	0.067	0.018	133.426	<RL	<RL	51.869	<RL	5.030	24.748	53.361	698.0
MUSK AEP	MU029	Muskingum	33	07/17/12	8:50	453	138	0.320	78.956	0.059	0.065	0.943	135.526	<RL	<RL	57.534	<RL	5.324	26.620	66.608	785.0
MUSK AEP	MU029	Muskingum	34	07/24/12	9:15	421	122	0.352	70.616	0.127	0.119	1.105	120.322	0.081	<RL	37.587	0.345	3.185	11.238	38.492	722.0
MUSK AEP	MU029	Muskingum	35	07/31/12	9:25	507	146	0.368	91.030	0.102	0.138	2.124	139.206	0.090	<RL	63.778	<RL	5.523	25.993	72.255	856.0
MUSK AEP	MU029	Muskingum	36	08/07/12	8:39	452	110	0.361	72.179	0.010	0.140	0.434	151.788	<RL	<RL	58.724	0.585	5.261	25.790	57.926	764.0
MUSK AEP	MU029	Muskingum	37	08/14/12	8:30			0.370	89.275	0.143	0.174	1.345	136.254	0.128	<RL	56.631	0.565	5.044	22.401	50.960	791.0
MUSK AEP	MU029	Muskingum	38	08/21/12	9:02	494	122	0.373	87.463	0.036	0.117	0.826	151.130	<RL	<RL	65.687	<RL	5.498	25.196	60.811	826.0
MUSK AEP	MU029	Muskingum	39	08/28/12	9:10	584	140	0.380	79.308	0.142	0.132	1.489	166.606	<RL	<RL	62.609	0.823	5.720	29.829	71.305	848.0
MUSK AEP	MU029	Muskingum	40	09/04/12	9:07	475	134	0.370	77.714	0.178	0.115	2.361	147.068	<RL	<RL	102.606	<RL	4.755	151.590	107.943	811.0
MUSK AEP	MU029	Muskingum	41	09/11/12	9:53	411	120	0.344	78.745	0.217	0.158	1.310	113.732	<RL	0.026	56.430	<RL	4.841	24.544	39.339	728.0
MUSK AEP	MU029	Muskingum	42	09/18/12	7:50	405	116	0.355	74.898	0.107	0.131	1.216	121.436	<RL	<RL	59.339	0.496	5.872	25.026	54.709	721.0
MUSK AEP	MU029	Muskingum	43	09/25/12	9:05	485	139	0.373	85.694	0.152	0.115	4.700	117.921	<RL	<RL	63.142	<RL	5.731	24.732	72.703	768.0
MUSK AEP	MU029	Muskingum	44	10/02/12	8:45	446	150	0.287	77.335	0.074	0.095	7.261	106.014	0.139	<RL	54.561	0.060	5.138	23.680	72.302	814.0
MUSK AEP	MU029	Muskingum	45	10/09/12	8:03	477	140	0.293	70.706	0.034	0.099	4.325	144.206	<RL	<RL	59.424	<RL	4.852	25.906	73.234	809.0
MUSK AEP	MU029	Muskingum	46	10/16/12	8:35	437	148	0.278	61.253	0.066	0.095	3.864	113.399	1.645	<RL	48.622	<RL	4.959	24.296	71.637	723.0
MUSK AEP	MU029	Muskingum	47	10/23/12	8:20	448	162	0.294	70.141	0.044	0.087	4.636	114.399	1.538	<RL	53.225	<RL	4.935	25.409	76.305	775.0
MUSK AEP	MU029	Muskingum	48	10/30/12	8:15	491	164	0.301	74.523	0.124	0.094	5.870	123.953	0.160	<RL	54.501	0.156	5.246	26.808	81.868	819.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
DUPONT	OH191	Ohio	1	12/05/11	13:05			0.089	14.612	0.017	<RL	2.687	42.865	0.836	<RL	11.555	<RL	1.310	6.020	23.133	239.0
DUPONT	OH191	Ohio	2	12/12/11	8:30			0.075	13.991	0.030	<RL	2.449	41.515	<RL	<RL	12.324	<RL	1.227	5.379	21.254	225.0
DUPONT	OH191	Ohio	3	12/19/11	9:00	140	48	0.096	16.747	0.027	<RL	2.950	50.315	<RL	<RL	12.652	<RL	1.313	6.598	24.875	264.0
DUPONT	OH191	Ohio	4	12/27/11	18:00	106	48	0.089	19.693	0.019	<RL	3.063	47.482	<RL	<RL	13.802	<RL	1.377	6.512	25.029	264.0
DUPONT	OH191	Ohio	5	01/03/12	9:00	138	42	0.088	15.047	0.025	<RL	3.251	59.414	<RL	<RL	13.031	<RL	1.127	6.192	23.217	245.0
DUPONT	OH191	Ohio	6	01/09/12	8:30	143	46	0.093	19.086	0.047	<RL	3.149	50.748	<RL	<RL	11.627	<RL	0.934	5.040	18.603	311.0
DUPONT	OH191	Ohio	7	01/16/12	8:45	137	46	0.083	18.517	0.036	<RL	2.677	47.955	<RL	<RL	14.012	<RL	1.068	6.649	24.702	265.0
DUPONT	OH191	Ohio	8	01/23/12	8:50	165	40	0.078	28.959	0.028	<RL	2.494	40.678	<RL	<RL	14.161	<RL	6.177	4.946	18.741	290.0
DUPONT	OH191	Ohio	9	01/30/12	9:00	156	40	0.091	26.709	0.025	<RL	2.715	36.805	<RL	<RL	15.800	<RL	0.964	4.954	20.216	262.0
DUPONT	OH191	Ohio	10	02/06/12	9:00	131	38	0.089	18.349	0.054	<RL	2.809	41.400	<RL	<RL	13.066	<RL	1.110	5.993	22.201	238.0
DUPONT	OH191	Ohio	11	02/13/12	13:00	184	48	0.102	23.216	0.035	<RL	3.057	54.763	<RL	<RL	16.583	<RL	1.197	7.598	27.357	301.0
DUPONT	OH191	Ohio	12	02/20/12	14:00	181	48	0.181	25.620	0.057	<RL	2.739	59.086	<RL	<RL	20.420	<RL	1.638	8.173	28.461	324.0
DUPONT	OH191	Ohio	13	02/27/12	13:05	229	52	0.138	34.960	0.030	<RL	3.129	73.812	<RL	<RL	28.815	<RL	1.695	9.307	32.334	389.0
DUPONT	OH191	Ohio	14	03/05/12	13:10	142	34	0.087	14.912	0.028	<RL	2.404	41.876	<RL	<RL	12.144	<RL	0.114	3.002	17.962	226.0
DUPONT	OH191	Ohio	15	03/12/12	13:30	134	42	0.093	16.219	0.012	<RL	2.188	40.704	<RL	<RL	12.703	<RL	0.199	5.014	20.861	236.0
DUPONT	OH191	Ohio	16	03/19/12	13:15	136	46	0.099	15.796	0.031	0.042	2.292	34.767	0.229	<RL	13.120	<RL	0.458	5.129	21.061	232.0
DUPONT	OH191	Ohio	17	03/26/12	13:10	188	52	0.189	24.632	0.059	0.743	2.512	57.610	1.526	<RL	19.435	<RL	1.593	8.133	29.346	325.0
DUPONT	OH191	Ohio	18	04/02/12	8:50	170	52	0.139	20.474	0.050	<RL	2.210	57.512	<RL	<RL	18.022	<RL	1.640	7.942	28.483	310.0
DUPONT	OH191	Ohio	19	04/10/12	12:25	237	70	0.199	28.526	0.017	<RL	2.605	79.409	<RL	<RL	22.902	<RL	1.996	12.125	39.764	412.0
DUPONT	OH191	Ohio	20	04/16/12	13:05	250	76	0.182	31.930	0.002	<RL	2.448	88.074	<RL	<RL	26.026	<RL	2.018	12.829	42.626	449.0
DUPONT	OH191	Ohio	21	04/23/12	9:15	244	64	0.217	31.103	0.071	0.036	2.538	87.913	<RL	<RL	26.133	0.024	1.986	12.061	37.937	426.0
DUPONT	OH191	Ohio	22	04/30/12	13:30	212	60	0.178	27.245	0.026	0.050	2.318	76.197	<RL	<RL	22.793	<RL	1.803	10.435	34.101	384.0
DUPONT	OH191	Ohio	23	05/07/12	13:20	142	34	0.126	14.118	0.024	<RL	1.542	41.860	<RL	<RL	12.392	<RL	1.578	5.594	19.663	218.0
DUPONT	OH191	Ohio	24	05/14/12	13:30	141	44	0.176	21.978	0.073	0.105	2.532	50.987	<RL	<RL	19.174	<RL	1.714	6.607	25.061	287.0
DUPONT	OH191	Ohio	25	05/21/12	13:00	159	44	0.164	19.583	0.057	0.042	2.817	55.012	<RL	<RL	16.451	<RL	1.651	7.376	25.638	286.0
DUPONT	OH191	Ohio	26	05/29/12	14:00	207	48	0.153	25.971	0.044	0.051	2.458	64.561	<RL	<RL	20.885	0.123	1.822	8.775	28.915	330.0
DUPONT	OH191	Ohio	27	06/04/12	13:00	210	50	0.180	28.858	0.049	0.053	2.231	76.605	<RL	<RL	25.717	0.193	1.949	9.092	29.122	311.0
DUPONT	OH191	Ohio	28	06/11/12	8:30	235	58	0.207	33.415	0.058	0.062	3.201	80.296	<RL	<RL	26.747	0.175	2.409	10.648	33.812	376.0
DUPONT	OH191	Ohio	29	06/18/12	8:15	241	56	0.279	41.531	0.129	0.075	3.223	90.312	<RL	<RL	32.229	0.125	2.367	11.027	34.735	442.0
DUPONT	OH191	Ohio	30	06/25/12	8:30	266	64	0.269	46.192	0.076	0.047	3.118	96.014	0.076	<RL	36.049	0.066	2.732	12.429	38.464	461.0
DUPONT	OH191	Ohio	31	07/02/12	9:30	295	66	0.277	49.914	0.058	0.083	2.578	97.993	<RL	<RL	38.081	0.175	2.951	14.432	40.972	511.0
DUPONT	OH191	Ohio	32	07/09/12	8:30	274	54	0.214	46.966	<RL	0.056	3.070	88.481	<RL	<RL	35.826	0.170	2.747	11.716	36.051	467.0
DUPONT	OH191	Ohio	33	07/16/12	9:20	262	60	0.270	52.609	0.074	0.078	2.931	88.314	<RL	<RL	41.310	0.253	3.156	12.814	37.948	512.0
DUPONT	OH191	Ohio	34	07/23/12	13:15	304	56	0.299	56.099	0.055	0.113	3.241	92.230	<RL	<RL	43.482	0.330	2.924	12.348	36.871	514.0
DUPONT	OH191	Ohio	35	07/30/12	13:00	272	52	0.279	49.430	0.062	0.121	3.813	92.744	<RL	<RL	42.097	0.270	3.150	10.772	36.276	490.0
DUPONT	OH191	Ohio	36	08/06/12	13:15	291	49	0.286	49.646	0.063	0.145	3.225	97.594	<RL	<RL	39.981	<RL	3.097	12.225	37.081	504.0
DUPONT	OH191	Ohio	37	08/13/12	13:15	323	54	0.327	53.206	0.044	0.190	2.985	117.355	0.124	<RL	51.081	<RL	3.222	13.096	38.751	559.0
DUPONT	OH191	Ohio	38	08/20/12	13:00	364	64	0.323	56.871	0.039	0.115	2.570	123.914	<RL	<RL	53.698	<RL	3.591	14.202	42.209	564.0
DUPONT	OH191	Ohio	39	08/27/12	8:30	363	58	0.298	51.868	0.017	0.114	3.361	117.137	<RL	<RL	45.837	0.541	3.520	13.880	42.533	459.0
DUPONT	OH191	Ohio	40	09/05/12	13:10	288	58	0.314	54.353	0.166	0.108	3.232	107.328	<RL	<RL	49.667	<RL	1.391	<RL	26.935	504.0
DUPONT	OH191	Ohio	41	09/10/12	13:00	318	72	0.317	58.500	0.082	0.121	3.377	117.636	<RL	0.026	51.511	<RL	3.213	16.643	44.865	596.0
DUPONT	OH191	Ohio	42	09/17/12	13:00	300	54	0.330	53.143	0.109	0.136	2.982	109.887	<RL	<RL	46.092	<RL	3.473	14.598	39.213	538.0
DUPONT	OH191	Ohio	43	09/25/12	12:15	308	56	0.308	54.216	0.060	0.115	3.923	101.265	<RL	<RL	47.959	<RL	3.483	12.643	39.219	531.0
DUPONT	OH191	Ohio	44	10/01/12	13:00	301	64	0.318	54.080	0.088	0.140	4.625	103.320	<RL	<RL	45.093	<RL	3.594	14.116	43.344	558.0
DUPONT	OH191	Ohio	45	10/08/12	13:00	332	73	0.299	57.066	0.088	0.144	5.302	107.751	0.086	<RL	47.697	<RL	3.661	15.341	46.929	574.0
DUPONT	OH191	Ohio	46	10/15/12	13:10	345	78	0.262	57.605	<RL	0.052	4.338	110.815	<RL	<RL	50.126	<RL	3.714	15.951	47.300	596.0
DUPONT	OH191	Ohio	47	10/22/12	12:40	331	77	0.285	58.621	0.074	0.142	4.524	106.094	0.989	<RL	49.535	0.016	3.430	13.726	43.857	572.0
DUPONT	OH191	Ohio	48	10/29/12	12:15	352	69	0.315	60.981	0.012	<RL	4.900	114.190	<RL	<RL	53.892	<RL	3.392	14.551	47.467	601.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
KYGER OVEC	OH260	Ohio	1	12/06/11	9:50			0.106	18.147	0.023	<RL	4.369	53.797	<RL	<RL	13.453	<RL	1.986	8.179	30.104	301.0
KYGER OVEC	OH260	Ohio	1D	12/06/11	9:50			0.100	18.062	0.007	<RL	4.394	53.617	<RL	<RL	14.010	<RL	2.048	8.166	30.025	301.0
KYGER OVEC	OH260	Ohio	2	12/15/11	9:13	168	60	0.102	17.690	0.027	<RL	4.406	68.223	<RL	<RL	15.498	<RL	1.828	8.633	31.095	324.0
KYGER OVEC	OH260	Ohio	3	12/22/11	9:12	164	62	0.110	21.375	0.035	<RL	4.311	66.168	<RL	<RL	15.723	<RL	1.741	9.260	33.266	335.0
KYGER OVEC	OH260	Ohio	4	12/27/11	10:03	160	56	0.085	22.637	0.045	<RL	4.262	56.602	<RL	<RL	15.464	<RL	1.845	8.175	30.629	313.0
KYGER OVEC	OH260	Ohio	5	01/05/12	9:07	174	58	0.093	18.334	0.035	<RL	3.842	77.469	<RL							318.0
KYGER OVEC	OH260	Ohio	6	01/10/12	9:30	177	60	0.098	22.577	0.048	<RL	4.221	63.844	<RL	<RL	17.785	<RL	1.569	9.375	33.390	339.0
KYGER OVEC	OH260	Ohio	7	01/17/12	9:58	192	58	0.097	23.957	0.043	<RL	3.569	65.917	<RL	<RL	17.579	<RL	1.336	9.035	32.743	341.0
KYGER OVEC	OH260	Ohio	8	01/24/12	9:40	211	52	0.099	25.725	0.030	<RL	3.515	58.783	<RL	<RL	18.004	<RL	1.214	7.538	27.795	326.0
KYGER OVEC	OH260	Ohio	9	01/31/12	9:45	194	50	0.119	30.367	0.024	<RL	3.923	47.586	<RL	<RL	17.139	<RL	1.171	6.326	24.504	316.0
KYGER OVEC	OH260	Ohio	10	02/09/12	8:45	197	54	0.113	23.047	0.039	<RL	3.913	57.436	<RL	<RL	14.927	<RL	1.127	7.582	27.213	317.0
KYGER OVEC	OH260	Ohio	11	02/14/12	8:45	211	60	0.116	27.104	0.030	<RL	4.005	64.311	<RL	<RL	19.206	<RL	1.461	9.991	35.129	363.0
KYGER OVEC	OH260	Ohio	12	02/21/12	7:51	239	66	0.115	32.181	0.033	<RL	3.928	75.305	<RL	<RL	24.603	<RL	1.529	11.045	37.384	422.0
KYGER OVEC	OH260	Ohio	13	02/28/12	8:20	277	68	0.138	45.391	0.084	<RL	4.289	87.753	<RL	<RL	34.789	<RL	1.869	12.121	41.631	478.0
KYGER OVEC	OH260	Ohio	14	03/08/12	9:30	181	46	0.117	23.528	0.050	0.055	3.424	53.651	<RL	<RL	17.709	<RL	0.721	7.018	27.627	303.0
KYGER OVEC	OH260	Ohio	15	03/15/12	9:45	169	52	0.132	25.339	0.047	0.374	3.388	55.778	0.858	<RL	18.713	<RL	0.759	8.105	29.120	327.0
KYGER OVEC	OH260	Ohio	16	03/22/12	10:00	184	52	0.152	19.750	0.009	<RL	2.719	47.118	<RL	<RL	15.640	<RL	0.679	7.195	27.373	287.0
KYGER OVEC	OH260	Ohio	17	03/29/12	5:35	208	64														384.0
KYGER OVEC	OH260	Ohio	18	04/03/12	9:00	222	68	0.206	27.824	<RL	0.072	2.958	75.781	<RL	<RL	22.791	<RL	1.953	11.049	38.105	401.0
KYGER OVEC	OH260	Ohio	19	04/12/12	10:00	211	70	0.179	27.156	0.167	<RL	2.874	78.878	<RL	<RL	22.694	<RL	2.023	11.589	38.415	404.0
KYGER OVEC	OH260	Ohio	20	04/17/12	8:45	234	70	0.182	29.527	0.036	0.037	2.483	85.072	<RL	<RL	24.134	<RL	2.017	12.230	39.827	426.0
KYGER OVEC	OH260	Ohio	21	04/24/12	9:45	276	72	0.192	35.515	0.052	0.056	2.650	91.428	<RL	<RL	27.061	0.007	2.048	12.868	41.637	452.0
KYGER OVEC	OH260	Ohio	22	05/01/12	9:00	260	66	0.224	36.667	<RL	<RL	2.802	104.107	<RL	<RL	31.718	0.127	2.311	13.855	43.548	488.0
KYGER OVEC	OH260	Ohio	23	05/10/12	9:30	170	54	0.173	20.829	0.036	0.055	2.629	63.622	<RL	<RL	20.265	<RL	1.933	8.360	30.032	323.0
KYGER OVEC	OH260	Ohio	24	05/16/12	9:45	181	56	0.183	24.465	0.092	0.052	3.456	58.911	<RL	<RL	20.253	<RL	1.939	8.461	30.966	336.0
KYGER OVEC	OH260	Ohio	25	05/22/12	8:30	175	52	0.159	20.852	0.096	0.040	3.295	60.792	0.338	<RL	17.941	<RL	1.792	8.285	28.709	322.0
KYGER OVEC	OH260	Ohio	26	05/29/12	9:15	201	50	0.160	21.318	0.032	0.049	2.874	67.944	<RL	<RL	18.426	<RL	1.856	9.006	29.629	320.0
KYGER OVEC	OH260	Ohio	27	06/07/12	9:45	219	54	0.201	28.228	0.058	0.044	2.719	77.381	0.128	<RL	25.453	0.264	1.987	9.858	30.901	344.0
KYGER OVEC	OH260	Ohio	28	06/13/12	9:10	238	56	0.196	31.628	0.068	0.053	2.613	87.479	<RL	<RL	43.959	1.053	4.336	23.332	64.131	380.0
KYGER OVEC	OH260	Ohio	29	06/19/12	9:00	220	58	0.244	30.919	0.062	0.067	3.139	83.877	0.089	<RL	26.361	0.137	2.231	10.573	32.700	388.0
KYGER OVEC	OH260	Ohio	30	06/25/12	9:45	256	60	0.237	33.731	0.030	0.052	2.624	82.266	<RL	<RL	25.760	<RL	2.050	9.502	28.975	433.0
KYGER OVEC	OH260	Ohio	31	07/05/12	8:30	266	58	0.263	44.120	0.042	0.457	3.228	90.479	<RL	<RL	35.024	0.213	2.517	12.194	36.176	469.0
KYGER OVEC	OH260	Ohio	32	07/10/12	8:30	279	64	0.257	47.828	<RL	0.062	3.234	91.852	0.091	<RL	36.134	0.230	2.729	12.927	38.408	492.0
KYGER OVEC	OH260	Ohio	33	07/17/12	9:00	272	66	0.339	49.984	0.044	0.084	3.432	101.336	<RL	<RL	38.705	0.266	2.992	14.668	41.096	522.0
KYGER OVEC	OH260	Ohio	34	07/23/12	8:15	321	62	0.284	55.865	0.090	0.111	3.489	93.128	<RL	<RL	37.286	0.426	2.947	11.563	37.419	513.0
KYGER OVEC	OH260	Ohio	35	07/31/12	9:00	296	60	0.289	49.605	0.072	0.450	3.633	98.757	0.092	<RL	41.391	<RL	3.105	13.020	38.906	507.0
KYGER OVEC	OH260	Ohio	36	08/07/12	9:00	287	54	0.324	50.475	0.052	0.124	3.870	98.960	<RL	<RL	44.512	0.409	3.247	11.621	38.298	509.0
KYGER OVEC	OH260	Ohio	37	08/14/12	9:05	287	56	0.328	50.075	0.089	0.171	3.527	99.214	0.113	<RL	40.955	0.248	3.357	12.685	39.235	511.0
KYGER OVEC	OH260	Ohio	38	08/21/12	9:10	318	58	0.295	53.649	0.030	0.129	3.251	111.158	<RL	<RL	47.069	0.271	3.402	12.979	41.772	823.0
KYGER OVEC	OH260	Ohio	39	08/28/12	8:35	368	60	0.342	55.532	0.084	0.168	3.256	124.244	<RL	<RL	51.231	0.532	3.593	14.566	42.867	580.0
KYGER OVEC	OH260	Ohio	40	09/04/12	9:00	340	66	0.324	57.403	0.087	0.073	3.146	128.386	<RL	<RL	90.245	<RL	2.570	42.952	64.042	563.0
KYGER OVEC	OH260	Ohio	41	09/11/12	9:20	301	60	0.314	51.037	0.034	0.122	3.059	112.972	<RL	0.028	45.681	<RL	2.791	14.841	42.011	544.0
KYGER OVEC	OH260	Ohio	42	09/18/12	9:05	312	60	0.322	55.115	0.167	0.140	2.958	112.094	<RL	<RL	50.381	<RL	3.426	14.699	40.667	550.0
KYGER OVEC	OH260	Ohio	43	09/25/12	8:45	314	57	0.332	57.419	0.096	0.121	3.527	110.415	2.427	<RL	48.681	<RL	3.348	13.688	38.729	566.0
KYGER OVEC	OH260	Ohio	44	10/02/12	9:00	257	53	0.266	46.718	0.107	0.115	3.778	91.820	<RL	<RL	42.250	<RL	3.293	11.574	35.954	498.0
KYGER OVEC	OH260	Ohio	45	10/10/12	7:30	292	59	0.403	73.390	0.065	0.147	7.923	68.473	2.100	<RL	50.869	<RL	4.966	13.487	53.714	526.0
KYGER OVEC	OH260	Ohio	46	10/16/12	9:00	319	64	0.285	59.407	0.096	0.151	4.855	109.818	<RL	<RL	50.107	<RL	3.655	14.879	44.184	578.0
KYGER OVEC	OH260	Ohio	47	10/23/12	9:05	347	71	0.290	58.029	0.050	0.149	5.206	108.988	1.502	<RL	49.039	<RL	3.782	15.562	47.075	583.0
KYGER OVEC	OH260	Ohio	48	10/30/12	8:30	345	67	0.331	57.623	0.060	0.152	4.711	123.353	<RL	<RL	52.338	0.123	3.572	15.837	47.111	602.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
HUNTINGTON	OH306	Ohio	1	12/05/11	14:00			0.095	14.614	0.017	<RL	3.744	43.014	<RL	<RL	11.133	<RL	1.785	7.312	25.310	255.0
HUNTINGTON	OH306	Ohio	2	12/12/11	16:30			0.071	12.647	0.030	<RL	3.351	36.851	<RL	<RL	10.535	<RL	1.587	6.128	20.973	220.0
HUNTINGTON	OH306	Ohio	3	12/20/11	17:00	150	59	0.099	17.621	0.024	<RL	3.881	59.252	<RL	<RL	13.573	<RL	1.625	9.020	30.016	306.0
HUNTINGTON	OH306	Ohio	4	12/27/11	13:00	126	52	0.091	17.568	0.057	<RL	3.829	49.248	<RL	<RL	12.596	<RL	1.590	7.722	25.788	270.0
HUNTINGTON	OH306	Ohio	5	01/03/12	14:00	170	50	0.089	15.795	0.031	<RL	3.677	65.186	<RL	<RL	13.423	<RL	1.327	7.715	25.729	269.0
HUNTINGTON	OH306	Ohio	6	01/09/12	14:00	150	54	0.082	18.164	0.036	<RL	4.433	54.914	<RL	<RL	14.753	<RL	1.499	8.659	28.379	294.0
HUNTINGTON	OH306	Ohio	8	01/23/12	13:00	147	42	0.078	17.807	0.024	<RL	3.074	42.723	<RL	<RL	12.784	<RL	0.955	6.346	19.505	253.0
HUNTINGTON	OH306	Ohio	9	01/31/12	13:03	167	46	0.097	26.171	0.031	<RL	3.533	44.393	<RL	<RL	15.820	<RL	1.227	6.434	22.864	287.0
HUNTINGTON	OH306	Ohio	10	02/06/12	18:00	150	47	0.091	17.518	0.042	<RL	3.467	46.396	<RL	<RL	13.124	<RL	1.284	7.615	24.626	261.0
HUNTINGTON	OH306	Ohio	11	02/14/12	16:30	185	52	0.098	20.444	0.024	<RL	3.886	56.365	<RL	<RL	16.124	<RL	1.351	9.120	28.596	305.0
HUNTINGTON	OH306	Ohio	12	02/21/12	14:00	177	58	0.096	21.134	0.004	<RL	3.321	59.851	<RL	<RL	18.634	<RL	1.599	9.474	27.880	335.0
HUNTINGTON	OH306	Ohio	13	02/27/12	8:30	185	50	0.092	24.759	0.004	<RL	3.504	53.698	<RL	<RL	20.226	<RL	1.589	8.927	26.360	312.0
HUNTINGTON	OH306	Ohio	14	03/06/12	15:00	133	38	0.078	16.276	0.012	0.067	2.829	40.827	0.309	<RL	12.151	<RL	0.266	4.836	19.403	266.0
HUNTINGTON	OH306	Ohio	15	03/12/12	9:50	136	44	0.092	14.604	0.039	0.050	2.831	44.947	<RL	<RL	12.797	<RL	0.376	7.032	22.202	246.0
HUNTINGTON	OH306	Ohio	16	03/19/12	12:00	159	50	0.108	17.729	0.042	<RL	3.030	51.704	0.089	<RL	15.239	<RL	0.713	8.472	25.368	287.0
HUNTINGTON	OH306	Ohio	17	03/26/12	12:00	165	54	0.101	16.845	0.374	<RL	2.933	49.485	<RL	<RL	14.124	<RL	1.586	8.430	26.709	286.0
HUNTINGTON	OH306	Ohio	18	04/02/12	17:30	180	58	0.153	21.078	0.057	0.792	2.964	61.828	0.445	<RL	18.112	<RL	1.752	9.528	30.984	332.0
HUNTINGTON	OH306	Ohio	20	04/16/12	16:00	194	64	0.146	21.151	0.004	<RL	2.191	68.011	0.368	<RL	19.332	<RL	1.820	10.993	32.433	353.0
HUNTINGTON	OH306	Ohio	21	04/23/12	16:45	205	66	0.195	22.043	0.044	0.041	2.190	73.450	<RL	<RL	21.623	<RL	2.033	11.754	32.339	371.0
HUNTINGTON	OH306	Ohio	22	05/01/12	16:30	148	48	0.128	13.079	<RL	<RL	2.309	53.377	<RL	<RL	14.863	<RL	1.658	8.619	22.396	266.0
HUNTINGTON	OH306	Ohio	23	05/07/12	16:30	170	48	0.125	15.037	0.033	<RL	2.237	50.822	<RL	<RL	13.857	<RL	1.841	8.269	24.390	266.0
HUNTINGTON	OH306	Ohio	24	05/14/12	12:30	176	52	0.167	15.671	0.035	0.039	2.791	67.404	<RL	<RL	18.230	<RL	1.673	9.076	28.283	316.0
HUNTINGTON	OH306	Ohio	26	05/30/12	11:00	171	50	0.137	14.951	0.032	0.056	2.362	56.365	<RL							272.0
HUNTINGTON	OH306	Ohio	28	06/11/12	17:30	193	58	0.160	22.639	0.044	0.036	2.546	72.275	<RL	<RL	22.694	<RL	2.072	10.093	28.099	341.0
HUNTINGTON	OH306	Ohio	30	06/25/12	15:30	213	60	0.173	26.416	0.036	0.044	2.540	78.829	<RL	<RL	25.085	<RL	2.273	10.996	30.310	338.0
HUNTINGTON	OH306	Ohio	31	07/02/12	16:00	219	58	0.210	29.177	0.050	0.065	2.720	72.524	<RL	<RL	25.952	0.035	2.280	11.237	30.149	374.0
HUNTINGTON	OH306	Ohio	32	07/10/12	16:00	251	62	0.224	37.339	<RL	0.044	3.018	85.898	0.313	<RL	32.975	0.151	2.545	12.577	33.750	438.0
HUNTINGTON	OH306	Ohio	33	07/17/12	13:00	238	70	0.213	38.186	0.032	0.047	2.615	84.764	<RL	<RL	32.169	<RL	2.575	12.422	34.098	453.0
HUNTINGTON	OH306	Ohio	35	07/30/12	12:00	251	60	0.243	36.119	0.013	0.076	3.341	82.114	<RL	<RL	32.666	<RL	2.809	12.356	32.449	432.0
HUNTINGTON	OH306	Ohio	36	08/07/12	17:30	224	56	0.241	33.973	0.022	0.073	2.997	77.557	<RL	<RL	31.700	<RL	2.845	11.508	32.691	416.0
HUNTINGTON	OH306	Ohio	38	08/22/12	10:30	264	56	0.282	41.427	0.018	0.145	3.003	89.866	<RL	<RL	36.272	0.120	3.139	12.326	34.972	462.0
HUNTINGTON	OH306	Ohio	40	09/04/12	14:00	272	62	0.298	45.191	0.113	0.148	2.907	106.161	<RL	<RL	72.700	<RL	2.246	29.775	51.200	488.0
HUNTINGTON	OH306	Ohio	41	09/10/12	14:00	294	64	0.270	45.134	0.030	0.106	2.815	111.739	<RL	0.028	48.613	<RL	2.707	14.750	39.195	532.0
HUNTINGTON	OH306	Ohio	42	09/17/12	14:00	252	64	0.268	40.261	0.068	0.118	2.556	96.514	<RL	<RL	40.234	<RL	3.131	14.581	36.485	482.0
HUNTINGTON	OH306	Ohio	43	09/25/12	9:30	256	67	0.229	36.142	0.033	0.092	2.591	90.434	<RL	<RL	38.058	<RL	3.052	14.792	33.734	455.0
HUNTINGTON	OH306	Ohio	44	10/01/12	14:00	268	58	0.250	44.071	0.063	0.113	3.179	101.395	<RL	<RL	42.011	<RL	3.209	14.444	36.589	501.0
HUNTINGTON	OH306	Ohio	45	10/08/12	16:00	254	61	0.218	40.254	0.057	0.095	3.906	82.776	<RL	<RL	38.003	<RL	3.131	12.898	34.193	451.0
HUNTINGTON	OH306	Ohio	46	10/15/12	11:00	248	62	0.214	39.168	0.118	0.104	4.050	90.110	1.006	<RL	37.894	<RL	3.270	13.616	34.954	463.0
HUNTINGTON	OH306	Ohio	47	10/22/12	14:00	285	63	0.241	46.592	0.041	0.120	4.216	95.049	<RL	<RL	40.323	<RL	2.689	14.021	38.021	502.0
HUNTINGTON	OH306	Ohio	48	10/29/12	15:45	301	67	0.336	48.586	0.089	0.123	4.600	98.496	0.698	<RL	42.416	<RL	3.331	14.760	41.582	525.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
BIG SANDY	BS020	Big Sandy	1	12/06/11	9:00			0.082	12.288	0.008	<RL	2.132	137.575	<RL	<RL	23.295	<RL	2.332	21.315	38.376	489.0
BIG SANDY	BS020	Big Sandy	2	12/12/11	10:40			0.066	8.011	0.011	<RL	3.060	102.037	<RL	<RL	14.132	<RL	1.865	15.938	29.805	362.0
BIG SANDY	BS020	Big Sandy	3	12/19/11	15:31	322	90	0.084	13.768	0.015	<RL	2.787	156.971	<RL	<RL	25.478	<RL	2.440	23.429	42.279	530.0
BIG SANDY	BS020	Big Sandy	4	12/27/11	13:48	196	62	0.072	9.546	0.015	1.125	2.586	108.318	<RL	<RL	16.614	<RL	1.818	16.190	30.134	374.0
BIG SANDY	BS020	Big Sandy	5	01/03/12	15:13	308	78	0.077	12.095	0.021	<RL	1.960	165.329	<RL	<RL	24.082	<RL	2.184	20.892	37.618	464.0
BIG SANDY	BS020	Big Sandy	6	01/09/12	10:31	336	96	0.085	15.165	0.030	<RL	2.240	157.120	<RL	<RL	31.849	<RL	2.485	24.063	43.202	552.0
BIG SANDY	BS020	Big Sandy	7	01/16/12	11:47	253	76	0.078	12.951	0.005	<RL	1.891	115.835	<RL	<RL	24.691	<RL	2.006	17.711	33.010	434.0
BIG SANDY	BS020	Big Sandy	8	01/23/12	14:30	179	50	0.079	7.195	<RL	<RL	2.213	34.555	<RL	<RL	11.260	<RL	1.353	10.976	20.662	300.0
BIG SANDY	BS020	Big Sandy	9	01/30/12	14:25	234	64	0.092	9.732	0.016	<RL	2.198	103.212	2.673	<RL	18.427	<RL	1.899	15.867	29.176	385.0
BIG SANDY	BS020	Big Sandy	10	02/06/12	12:00	259	75	0.094	11.031	<RL3	<RL	1.796	118.760	<RL	<RL	23.475	<RL	2.117	18.635	34.486	437.0
BIG SANDY	BS020	Big Sandy	11	02/13/12	13:50	302	82	0.088	14.224	0.018	<RL	2.236	137.454	<RL	<RL	26.978	<RL	2.311	22.072	39.270	493.0
BIG SANDY	BS020	Big Sandy	12	02/20/12	13:47	269	76	0.110	13.276	0.009	<RL	1.932	126.138	<RL	<RL	26.091	<RL	2.430	18.965	32.465	474.0
BIG SANDY	BS020	Big Sandy	13	02/27/12	13:48	236	64	0.081	9.122	0.017	<RL	2.113	107.360	<RL	<RL	18.806	<RL	2.014	17.398	30.518	384.0
BIG SANDY	BS020	Big Sandy	14	03/05/12	11:48	155	44	0.075	19.736	0.007	<RL	2.107	69.593	<RL	<RL	11.032	<RL	0.715	12.703	21.737	270.0
BIG SANDY	BS020	Big Sandy	15	03/12/12	13:00	218	58	0.073	10.062	0.001	<RL	1.946	104.704	<RL	<RL	17.468	<RL	0.842	18.189	28.891	378.0
BIG SANDY	BS020	Big Sandy	16	03/20/12	12:15	254	72	0.215	8.842	0.018	0.064	1.787	118.116	<RL	<RL	21.313	<RL	1.531	21.094	34.334	431.0
BIG SANDY	BS020	Big Sandy	17	03/26/12	14:27	309	88	0.107	10.109	0.051	<RL	1.493	141.560	<RL	<RL	27.124	<RL	2.713	23.014	40.161	502.0
BIG SANDY	BS020	Big Sandy	18	04/02/12	9:30	343	102	0.179	13.073	0.021	<RL	1.461	154.283	<RL	<RL	34.616	<RL	3.052	24.827	44.105	570.0
BIG SANDY	BS020	Big Sandy	19	04/09/12	13:48	199	70	0.114	7.742	0.061	<RL	1.493	95.573	<RL	<RL	20.908	<RL	2.259	15.823	30.458	380.0
BIG SANDY	BS020	Big Sandy	20	04/16/12	12:45	334	106	0.136	13.293	0.013	<RL	1.095	146.850	<RL	<RL	35.497	<RL	2.974	23.795	42.867	555.0
BIG SANDY	BS020	Big Sandy	21	04/23/12	11:55	401	130	0.145	15.320	0.027	0.056	1.303	173.955	<RL	<RL	44.672	0.243	3.507	28.022	49.360	648.0
BIG SANDY	BS020	Big Sandy	22	04/30/12	13:31	262	66	0.116	14.416	<RL	<RL	1.603	108.751	<RL	<RL	24.027	<RL	2.201	17.360	32.701	422.0
BIG SANDY	BS020	Big Sandy	23	05/08/12	9:00	248	78	0.142	9.550	0.017	<RL	1.540	112.965	<RL	<RL	22.740	<RL	2.598	18.825	32.628	426.0
BIG SANDY	BS020	Big Sandy	24	05/14/12	13:00	287	94	0.127	12.613	0.026	0.060	1.238	128.125	<RL	<RL	29.151	<RL	2.832	21.461	38.678	500.0
BIG SANDY	BS020	Big Sandy	25	05/21/12	11:55	328	100	0.160	13.749	0.030	0.066	1.424	141.617	<RL	<RL	32.706	<RL	2.918	23.321	41.344	534.0
BIG SANDY	BS020	Big Sandy	26	05/29/12	11:50	445	138	0.176	18.857	0.035	0.069	1.050	199.558	<RL							702.0
BIG SANDY	BS020	Big Sandy	27	06/04/12	14:41	368	106	0.177	15.667	0.017	0.072	2.210	178.958	<RL	<RL	40.332	<RL	3.693	25.698	45.972	589.0
BIG SANDY	BS020	Big Sandy	28	06/11/12	13:00	459	138	0.158	21.896	0.012	0.089	1.194	211.014	<RL	<RL	51.833	<RL	3.888	31.024	53.694	710.0
BIG SANDY	BS020	Big Sandy	29	06/18/12	13:56	477	146	0.282	26.964	0.022	0.108	0.964	221.281	<RL	<RL	64.390	<RL	4.329	31.682	54.158	770.0
BIG SANDY	BS020	Big Sandy	30	06/26/12	11:17	540	156	0.175	30.932	<RL	0.115	0.878	254.114	<RL	<RL	72.005	<RL	4.566	35.467	58.201	838.0
BIG SANDY	BS020	Big Sandy	31	07/03/12	13:00	486	150	0.204	32.074	0.070	0.161	0.475	206.417	<RL	<RL	70.475	<RL	4.478	32.151	51.890	802.0
BIG SANDY	BS020	Big Sandy	32	07/09/12	16:48	513	160	0.200	26.868	<RL	0.073	1.011	221.227	<RL	<RL	73.306	<RL	4.948	33.892	54.398	821.0
BIG SANDY	BS020	Big Sandy	33	07/16/12	16:42	391	118	0.184	23.277	0.119	0.092	1.403	182.820	<RL	<RL	46.292	<RL	4.102	27.738	47.843	678.0
BIG SANDY	BS020	Big Sandy	34	07/23/12	13:47	387	114	0.209	16.579	0.034	0.071	2.600	173.440	0.070	<RL	17.054	<RL	2.219	10.382	31.366	644.0
BIG SANDY	BS020	Big Sandy	35	07/30/12	14:15	364	108	0.190	15.591	0.013	0.069	2.404	160.076	<RL	<RL	35.202	<RL	3.725	25.953	46.469	583.0
BIG SANDY	BS020	Big Sandy	36	08/07/12	15:47	334	100	0.199	12.546	0.011	<RL	2.240	143.876	<RL	<RL	36.000	<RL	3.694	22.815	43.342	551.0
BIG SANDY	BS020	Big Sandy	37	08/13/12	9:00	393	64	0.295	14.080	0.012	0.087	2.563	174.785	0.129	<RL	36.336	<RL	4.021	28.516	51.502	627.0
BIG SANDY	BS020	Big Sandy	38	08/20/12	11:57	390	110	0.171	18.212	0.029	0.055	2.673	158.455	<RL	<RL	36.248	<RL	4.057	26.912	47.812	610.0
BIG SANDY	BS020	Big Sandy	38	08/20/12	11:57	390		0.181	18.365	0.085	0.069	2.650	158.984	<RL	<RL	36.174	<RL	4.058	26.792	47.719	610.0
BIG SANDY	BS020	Big Sandy	39	08/28/12	10:40	579	136	0.211	21.754	0.014	0.081	1.154	226.205	<RL	0.006	48.823	<RL	4.730	38.444	62.671	776.0
BIG SANDY	BS020	Big Sandy	40	09/03/12	11:48	526	144	0.252	25.016	<RL	0.112	0.587	247.787	<RL	<RL	100.489	<RL	4.161	244.549	102.908	870.0
BIG SANDY	BS020	Big Sandy	41	09/10/12	13:55	459	142	0.221	19.501	0.015	0.096	1.875	209.372	<RL	0.038	56.368	<RL	4.020	32.181	53.593	754.0
BIG SANDY	BS020	Big Sandy	42	09/17/12	11:40	465	136	0.197	23.235	<RL	0.101	1.690	205.286	<RL	<RL	51.189	<RL	4.400	34.016	57.944	747.0
BIG SANDY	BS020	Big Sandy	43	09/24/12	11:47	323	102	0.162	13.905	0.022	0.063	3.116	136.879	<RL	<RL	31.552	<RL	2.938	22.943	44.855	532.0
BIG SANDY	BS020	Big Sandy	44	10/01/12	11:11	366	116	0.145	18.013	<RL	0.089	2.351	171.244	<RL	<RL	41.316	<RL	3.951	29.395	53.049	627.0
BIG SANDY	BS020	Big Sandy	45	10/08/12	13:00	445	135	0.162	19.576	0.023	0.101	1.894	198.042	<RL	<RL	50.033	<RL	4.285	34.169	59.339	723.0
BIG SANDY	BS020	Big Sandy	46	10/16/12	13:59	485	137	0.153	20.639	<RL	0.094	1.547	209.434	0.117	<RL	50.386	<RL	4.314	36.846	61.545	704.0
BIG SANDY	BS020	Big Sandy	47	10/23/12	15:30	496	132	0.154	22.594	0.014	0.097	0.890	213.463	0.691	<RL	52.344	0.153	4.449	36.529	60.504	762.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
CINCINNATI	OH463	Ohio	1	12/05/11	11:20			0.107	13.432	0.016	<RL	4.023	45.079	<RL	<RL	10.359	<RL	2.163	8.608	28.063	272.0
CINCINNATI	OH463	Ohio	2	12/12/11	10:20			0.084	11.999	0.008	<RL	3.307	39.918	<RL	<RL	10.545	<RL	1.761	7.175	22.848	236.0
CINCINNATI	OH463	Ohio	3	12/19/11	11:30	172	69	0.110	16.355	0.018	<RL	4.443	54.252	<RL	<RL	12.689	<RL	1.911	9.509	30.210	309.0
CINCINNATI	OH463	Ohio	4	12/29/11	11:17	150	62	0.105	17.768	0.022	<RL	4.172	54.957	<RL	<RL	13.046	<RL	1.702	9.082	29.590	302.0
CINCINNATI	OH463	Ohio	5	01/04/12	10:37	154	56	0.257	14.709	0.023	<RL	3.847	64.632	1.366	<RL	12.344	<RL	1.527	8.431	27.154	274.0
CINCINNATI	OH463	Ohio	6	01/10/12	14:35	180	64	0.339	17.542	0.036	<RL	4.080	59.277	<RL	<RL	15.542	<RL	1.550	9.811	31.624	318.0
CINCINNATI	OH463	Ohio	7	01/19/12	11:32	177	62	0.094	18.791	0.025	<RL	3.352	51.416	<RL	<RL	14.780	<RL	1.481	9.146	29.395	306.0
CINCINNATI	OH463	Ohio	8	01/25/12	14:47	187	52	0.096	18.920	0.024	<RL	3.351	49.110	<RL	<RL	13.508	<RL	1.196	7.997	24.747	290.0
CINCINNATI	OH463	Ohio	9	01/31/12	10:55	190	54	0.110	30.877	0.025	<RL	3.678	43.371	<RL	<RL	17.495	<RL	1.268	6.771	24.192	314.0
CINCINNATI	OH463	Ohio	10	02/06/12	15:45	161	57	0.104	20.148	0.024	0.161	3.970	45.703	<RL	<RL	13.049	<RL	1.237	7.390	24.481	280.0
CINCINNATI	OH463	Ohio	11	02/13/12	16:37	195	60	0.104	18.768	0.026	<RL	3.727	54.310	<RL	<RL	15.194	<RL	1.517	9.847	29.605	310.0
CINCINNATI	OH463	Ohio	12	02/21/12	13:37	198	66	0.113	24.314	0.027	0.159	4.087	65.225	<RL	<RL	20.373	<RL	1.819	11.584	33.719	363.0
CINCINNATI	OH463	Ohio	13	03/01/12	12:25	198	60	0.105	23.406	0.023	<RL	3.386	57.161	<RL	<RL	17.859	<RL	1.510	9.168	27.066	336.0
CINCINNATI	OH463	Ohio	14	03/07/12	11:33	172	46	0.099	22.312	<RL	0.039	3.136	47.584	<RL	<RL	9.483	<RL	<RL	2.422	13.045	268.0
CINCINNATI	OH463	Ohio	15	03/13/12	11:33	167	48	0.129	17.024	0.019	<RL	3.032	48.841	<RL	<RL	14.163	<RL	0.575	7.958	24.698	271.0
CINCINNATI	OH463	Ohio	16	03/21/12	11:45	172	54	0.106	19.433	0.007	<RL	3.079	52.903	<RL	<RL	15.450	<RL	0.714	9.056	26.774	304.0
CINCINNATI	OH463	Ohio	17	03/28/12	15:10	179	58	0.118	16.107	0.009	<RL	2.874	51.534	0.368	<RL	14.936	<RL	1.777	9.359	27.555	289.0
CINCINNATI	OH463	Ohio	18	04/04/12	16:01	183	68	0.145	20.423	0.013	0.114	3.020	58.089	<RL	<RL	2.498	<RL	<RL	5.633	32.806	337.0
CINCINNATI	OH463	Ohio	19	04/11/12	17:58	195	70	0.142	22.789	<RL	<RL	2.443	74.144	0.413	<RL	20.982	<RL	2.020	12.214	35.611	388.0
CINCINNATI	OH463	Ohio	20	04/18/12	14:43	208	70	0.150	20.850	0.044	0.292	2.366	66.902	0.630	<RL	18.713	<RL	1.912	11.611	32.806	360.0
CINCINNATI	OH463	Ohio	21	04/25/12	11:45	220	78	0.174	23.134	0.045	0.046	1.772	72.250	<RL	<RL	21.116	0.030	2.143	13.171	35.671	401.0
CINCINNATI	OH463	Ohio	22	05/01/12	10:10	189	64	0.123	16.089	0.025	<RL	2.538	61.483	<RL	<RL	17.051	<RL	2.045	10.810	28.177	326.0
CINCINNATI	OH463	Ohio	23	05/10/12	8:00	180	56	0.151	16.843	0.044	0.039	3.163	54.944	<RL	<RL	14.890	<RL	2.111	9.583	27.887	301.0
CINCINNATI	OH463	Ohio	24	05/16/12	11:15	180	62	0.177	16.503	0.052	<RL	3.903	60.528	<RL	<RL	17.622	<RL	2.123	9.609	30.251	324.0
CINCINNATI	OH463	Ohio	25	05/23/12	9:15	165	62	0.152	16.789	0.025	0.067	3.219	53.199	<RL	<RL	15.766	<RL	1.934	9.569	27.767	303.0
CINCINNATI	OH463	Ohio	26	05/30/12	13:00	194	60	0.146	17.325	0.035	0.088	2.790	55.363	<RL	<RL	15.701	<RL	1.992	9.782	28.296	301.0
CINCINNATI	OH463	Ohio	27	06/06/12	9:30	176	60	0.157	17.244	0.028	0.038	2.487	63.116	<RL	<RL	17.550	<RL	2.071	10.158	26.905	305.0
CINCINNATI	OH463	Ohio	28	06/12/12	9:26	192	64	0.178	19.430	0.033	<RL	2.461	67.241	<RL	<RL	19.138	0.049	2.158	10.776	29.613	341.0
CINCINNATI	OH463	Ohio	29	06/19/12	12:30	199	72	0.175	21.724	0.052	0.138	2.082	74.769	0.611	<RL	20.588	0.056	2.249	12.323	31.022	362.0
CINCINNATI	OH463	Ohio	30	06/25/12	11:35	223	70	0.192	27.342	0.045	0.045	2.488	77.349	<RL	<RL	22.791	<RL	2.192	11.282	29.700	393.0
CINCINNATI	OH463	Ohio	31	07/03/12	12:00	228	70	0.196	27.228	0.115	0.068	2.008	73.582	<RL	<RL	25.395	0.194	2.392	12.574	31.918	399.0
CINCINNATI	OH463	Ohio	32	07/09/12	13:40	229	70	0.229	29.786	<RL	0.039	2.106	77.996	<RL	<RL	28.846	0.301	2.559	13.191	32.806	413.0
CINCINNATI	OH463-LDB	Ohio	32	07/09/12	13:40	229		0.220	29.751	<RL	0.039	1.751	78.219	0.085	<RL	20.855	<RL	1.883	8.525	21.321	413.0
CINCINNATI	OH463-RDB	Ohio	32	07/09/12	13:40	229		0.187	29.891	<RL	0.045	1.734	78.473	<RL	<RL	23.120	<RL	2.068	10.065	24.950	413.0
CINCINNATI	OH463	Ohio	33	07/16/12	13:00	205	70	0.281	29.680	0.110	0.050	1.790	77.301	<RL	<RL	28.578	0.235	2.578	13.200	33.137	418.0
CINCINNATI	OH463	Ohio	34	07/24/12	13:30	249	74	0.276	35.442	0.191	0.089	2.576	86.051	0.080	<RL	32.907	0.272	2.844	13.950	36.052	491.0
CINCINNATI	OH463	Ohio	35	07/31/12	13:53	252	66	0.236	34.305	0.055	0.082	2.622	86.170	0.075	<RL	30.970	0.175	3.011	13.899	35.570	453.0
CINCINNATI	OH463	Ohio	36	08/08/12	16:00	242	66	0.257	34.613	0.138	0.131	2.346	76.566	<RL	<RL	30.825	0.211	3.069	12.365	32.790	430.0
CINCINNATI	OH463	Ohio	37	08/13/12	10:36	242	64	0.262	37.299	<RL9	0.059	2.508	83.268	<RL	<RL	33.081	0.324	3.083	12.844	34.425	453.0
CINCINNATI	OH463	Ohio	38	08/20/12	16:20	288	72	0.285	38.249	0.094	0.101	2.327	94.954	0.113	<RL	36.127	0.286	3.400	14.558	37.263	484.0
CINCINNATI	OH463	Ohio	39	08/29/12	11:15	311	72	0.292	34.643	0.138	0.107	2.268	99.204	<RL	<RL	32.461	0.263	3.548	16.556	39.296	480.0
CINCINNATI	OH463	Ohio	40	09/05/12	10:20	255	72	0.255	36.911	0.171	0.140	2.585	96.207	<RL	<RL	55.938	<RL	2.443	41.294	51.767	501.0
CINCINNATI	OH463	Ohio	41	09/13/12	10:45	282	60	0.292	41.179	0.139	0.111	2.638	98.663	<RL	0.027	38.420	<RL	2.856	15.709	39.071	497.0
CINCINNATI	OH463	Ohio	42	09/19/12	10:00	278	72	0.296	44.301	0.266	0.150	2.637	103.961	<RL	<RL	41.851	0.026	3.457	16.019	40.776	520.0
CINCINNATI	OH463	Ohio	43	09/26/12	11:45	335	78	0.307	47.525	0.106	0.135	2.710	122.601	<RL							588.0
CINCINNATI	OH463	Ohio	44	10/03/12	10:00	297	77	0.235	40.074	0.101	0.128	2.531	113.566	<RL	<RL	43.193	<RL	3.512	17.832	41.330	526.0
CINCINNATI	OH463	Ohio	45	10/10/12	11:15	273	72	0.228	39.240	0.051	0.101	3.171	96.849	<RL	<RL	39.204	<RL	3.361	16.061	37.495	493.0
CINCINNATI	OH463	Ohio	46	10/17/12	11:00	286	66	0.257	45.303	0.054	0.109	3.449	101.148	0.880	<RL	42.121	<RL	3.563	15.593	38.416	513.0
CINCINNATI	OH463	Ohio	47	10/24/12	10:45	282	71	0.283	39.138	0.052	0.100	3.982	92.309	1.352	<RL	36.788	<RL	3.483	15.372	38.666	485.0
CINCINNATI	OH463	Ohio	48	10/31/12	17:00	281	74	0.298	41.052	0.047	0.115	4.544	95.817	0.091	<RL	38.488	<RL	3.494	15.724	39.578	493.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
LOUISVILLE	OH600	Ohio	1																		
LOUISVILLE	OH600	Ohio	2	12/14/11	9:04			0.095	12.085	0.015	<RL	4.010	42.769	<RL	<RL	9.651	<RL	1.817	9.074	29.712	279.0
LOUISVILLE	OH600	Ohio	3	12/19/11	15:30	192	87	0.126	15.369	0.024	<RL	5.325	41.647	0.095	<RL	10.284	<RL	2.108	10.051	34.319	317.0
LOUISVILLE	OH600	Ohio	4	12/27/11	14:15	166	88	0.121	17.294	0.028	<RL	5.041	56.755	<RL	<RL	12.343	<RL	1.839	11.454	37.960	350.0
LOUISVILLE	OH600	Ohio	5	01/03/12	12:44	182	74	0.108	13.858	0.019	<RL	4.471	55.216	<RL	<RL	10.535	<RL	1.531	9.224	32.257	295.0
LOUISVILLE	OH600	Ohio	6	01/09/12	13:17	173	80	0.209	16.685	0.034	<RL	5.035	54.528	<RL	<RL	13.141	<RL	1.699	10.563	35.347	326.0
LOUISVILLE	OH600	Ohio	7	01/17/12	14:10	195	86	0.128	17.614	0.023	<RL	4.532	56.252	<RL	<RL	14.556	<RL	1.588	11.372	38.634	357.0
LOUISVILLE	OH600	Ohio	8	01/23/12	13:15	222	82	0.123	21.058	<RL	<RL	4.360	48.775	<RL	<RL	12.451	<RL	1.154	8.914	30.077	344.0
LOUISVILLE	OH600	Ohio	9	01/30/12	13:44	185	72	0.128	18.143	0.026	<RL	4.350	42.438	<RL	<RL	11.494	<RL	1.254	7.881	28.049	305.0
LOUISVILLE	OH600	Ohio	10	02/06/12	10:36	189	72	0.134	22.407	0.039	<RL	4.758	45.244	<RL	<RL	14.378	<RL	1.546	9.342	32.779	319.0
LOUISVILLE	OH600	Ohio	11	02/13/12	11:02	215	84	0.116	18.230	0.021	<RL	4.431	50.527	<RL	<RL	13.648	<RL	1.572	11.078	38.008	346.0
LOUISVILLE	OH600	Ohio	12	02/20/12	10:52	217	89	0.126	21.176	0.013	<RL	4.748	59.301	<RL	<RL	17.284	<RL	1.893	12.694	39.972	389.0
LOUISVILLE	OH600	Ohio	13	02/27/12	11:26	233	90	0.128	22.136	0.028	<RL	4.256	65.792	<RL	<RL	18.563	<RL	1.848	13.162	40.081	400.0
LOUISVILLE	OH600	Ohio	14	03/05/12	13:33	205	64	0.119	22.653	0.016	<RL	3.177	62.324	0.091	<RL	17.446	<RL	0.660	10.745	32.171	346.0
LOUISVILLE	OH600	Ohio	15	03/12/12	13:15	182	76	0.109	14.738	0.003	0.067	3.314	45.968	1.109	<RL	12.358	<RL	0.609	9.373	33.650	307.0
LOUISVILLE	OH600	Ohio	16	03/19/12	10:40	168	76	0.217	14.447	0.015	0.187	3.141	47.904	<RL	<RL	11.941	<RL	0.757	10.052	33.750	315.0
LOUISVILLE	OH600	Ohio	17	03/26/12	9:31	200	86	0.138	16.440	0.018	0.055	3.053	47.035	0.196	<RL	<RL	<RL	<RL	<RL	<RL	336.0
LOUISVILLE	OH600	Ohio	18	04/02/12	9:11	192	84	0.120	16.294	0.055	0.046	2.432	73.308	<RL	<RL	18.765	0.001	1.424	7.656	28.663	314.0
LOUISVILLE	OH600	Ohio	19	04/09/12	9:55	193	90	0.166	18.719	0.029	<RL	3.413	55.926	0.071	<RL	15.508	<RL	1.914	11.840	38.520	367.0
LOUISVILLE	OH600	Ohio	20	04/16/12	14:19	190	86	0.160	23.425	0.034	<RL	3.107	67.663	<RL	<RL	19.498	<RL	2.038	12.825	39.180	398.0
LOUISVILLE	OH600	Ohio	21	04/23/12	9:30	229	96	0.217	25.771	0.073	0.042	3.537	68.232	<RL	<RL	21.658	0.081	2.286	14.014	41.145	424.0
LOUISVILLE	OH600	Ohio	22	04/30/12	10:58	232	86	0.185	24.736	0.036	0.040	2.653	71.961	<RL	<RL	21.993	0.007	2.318	13.753	38.228	412.0
LOUISVILLE	OH600	Ohio	23	05/08/12	8:02	231	78	0.162	21.335	0.045	<RL	4.494	61.363	<RL	<RL	18.076	<RL	2.347	11.485	35.687	367.0
LOUISVILLE	OH600	Ohio	24	05/14/12	9:20	202	76	0.172	15.732	0.056	<RL	4.160	59.312	0.073	<RL	14.100	<RL	2.262	11.864	34.279	340.0
LOUISVILLE	OH600	Ohio	25	05/21/12	12:58	200	78	0.180	16.298	0.038	0.041	4.231	63.364	0.359	<RL	16.498	<RL	2.214	10.931	34.427	347.0
LOUISVILLE	OH600	Ohio	26	05/29/12	16:00	210	70	0.169	19.111	0.032	<RL	3.739	61.198	<RL	<RL	16.738	<RL	2.137	10.871	31.816	334.0
LOUISVILLE	OH600	Ohio	27	06/04/12	10:04	208	80	0.181	20.249	0.051	<RL	4.372	56.503	0.136	<RL	17.358	0.038	2.355	11.235	33.003	344.0
LOUISVILLE	OH600	Ohio	28	06/11/12	10:00	215	86	0.200	22.567	0.065	<RL	4.221	54.974	0.092	<RL	19.172	<RL	2.365	11.521	34.412	275.0
LOUISVILLE	OH600	Ohio	29	06/20/12	13:39	199	76	0.208	22.480	0.099	0.041	3.754	66.075	0.082	<RL	20.146	<RL	2.263	11.915	32.706	362.0
LOUISVILLE	OH600	Ohio	30	06/25/12	13:17	205	78	0.193	23.507	0.094	<RL	3.733	64.647	<RL	<RL	20.992	<RL	2.319	12.078	32.601	351.0
LOUISVILLE	OH600	Ohio	31	07/02/12	9:28	209	76	0.212	24.994	0.099	0.049	4.316	60.806	<RL	<RL	22.093	0.069	2.382	12.423	33.298	367.0
LOUISVILLE	OH600	Ohio	32	07/09/12	9:12	233	82	0.232	29.743	<RL	0.041	3.969	72.589	<RL	<RL	25.786	0.043	2.689	14.395	36.265	427.0
LOUISVILLE	OH600	Ohio	33	07/16/12	10:00	211	84	0.245	30.252	0.035	<RL	3.352	67.811	<RL	<RL	26.015	0.006	2.703	14.196	35.530	423.0
LOUISVILLE	OH600	Ohio	35	07/30/12	9:00	253	78	0.259	34.490	0.132	0.077	3.261	79.081	0.080	<RL	30.952	0.096	3.018	14.011	37.621	458.0
LOUISVILLE	OH600	Ohio	36	08/06/12	7:44	262	96	0.262	35.262	0.034	0.112	2.696	89.327	<RL	<RL	33.735	0.161	3.069	14.325	37.440	472.0
LOUISVILLE	OH600	Ohio	37	08/13/12	9:05	255	76	0.275	35.003	0.067	0.080	3.184	82.999	0.085	<RL	31.702	0.087	3.348	14.319	37.851	462.0
LOUISVILLE	OH600	Ohio	38	08/20/12	8:50	266	74	0.252	35.366	0.072	0.067	3.395	78.211	<RL	<RL	31.605	0.103	3.398	13.166	36.484	456.0
LOUISVILLE	OH600	Ohio	39	08/27/12	11:15	307	76	0.292	37.795	0.080	0.069	3.414	79.378	0.082	<RL	32.122	0.228	3.600	14.916	38.269	461.0
LOUISVILLE	OH600	Ohio	41	09/11/12	8:58	289	80	0.306	44.789	0.134	0.107	4.122	92.769	0.143	0.027	38.592	<RL	2.933	16.523	41.691	520.0
LOUISVILLE	OH600	Ohio	42	09/17/12	7:25	274	80	0.306	38.385	0.152	0.110	3.737	94.926	<RL	<RL	36.405	<RL	3.627	17.085	41.382	497.0
LOUISVILLE	OH600	Ohio	43	09/24/12	7:47	283	82	0.283	41.241	0.157	0.107	4.173	90.809	0.133	<RL	38.181	<RL	3.464	16.102	42.308	499.0
LOUISVILLE	OH600	Ohio	44	10/01/12	8:50	292	78	0.290	45.316	0.077	0.139	3.942	108.888	<RL	<RL	41.843	<RL	3.576	18.028	43.917	550.0
LOUISVILLE	OH600	Ohio	45	10/08/12	7:53	331	89	0.304	48.989	0.113	0.124	4.457	114.419	0.415	<RL	47.670	<RL	3.944	18.906	47.484	590.0
LOUISVILLE	OH600	Ohio	46	10/15/12	8:09	322	84	0.260	45.568	0.086	0.108	4.288	110.794	0.113	<RL	45.914	<RL	3.699	18.094	44.367	565.0
LOUISVILLE	OH600	Ohio	47	10/23/12	10:23	332	92	0.278	41.658	0.066	0.097	4.705	104.454	1.655	<RL	41.696	<RL	3.759	18.416	44.532	549.0
LOUISVILLE	OH600	Ohio	48	10/29/12	8:00	304	86	0.313	39.295	0.095	0.299	5.892	90.815	0.122	<RL	37.672	<RL	3.550	17.475	41.828	512.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
EVANSVILLE	OH792	Ohio	1	12/05/11	7:40			0.125	11.734	0.008	<RL	4.544	39.877	<RL	<RL	9.114	<RL	2.370	8.660	33.854	287.0
EVANSVILLE	OH792	Ohio	2	12/12/11	7:45			0.124	12.858	0.010	<RL	5.158	34.519	<RL	<RL	8.785	<RL	2.402	8.782	34.547	298.0
EVANSVILLE	OH792	Ohio	3	12/19/11	8:25	166	78	0.112	12.778	<RL	<RL	4.106	40.482	<RL	<RL	9.431	<RL	1.969	8.744	31.253	289.0
EVANSVILLE	OH792	Ohio	4	12/27/11	7:50	170	98	0.141	16.568	0.027	<RL	5.726	47.090	<RL	<RL	11.294	<RL	1.965	10.939	39.204	346.0
EVANSVILLE	OH792	Ohio	5	01/03/12	7:50	198	82	0.117	16.086	0.039	<RL	4.450	67.097	<RL	<RL	12.419	<RL	1.879	10.657	36.754	333.0
EVANSVILLE	OH792	Ohio	6	01/09/12	7:50	163	80	0.112	14.398	0.017	<RL	4.577	46.494	<RL	<RL	11.363	<RL	1.621	10.078	34.643	311.0
EVANSVILLE	OH792	Ohio	7	01/17/12	7:50	196	88	0.124	17.841	0.018	<RL	5.211	54.840	<RL	<RL	14.105	<RL	1.616	11.262	38.657	356.0
EVANSVILLE	OH792	Ohio	8	01/23/12	8:30	212	80	0.159	19.614	0.082	<RL	4.246	47.429	<RL	<RL	13.094	<RL	1.598	9.432	33.007	345.0
EVANSVILLE	OH792	Ohio	9	01/30/12	8:15	179	74	0.123	17.425	0.029	<RL	4.042	40.033	<RL	<RL	11.169	<RL	1.281	7.601	28.407	297.0
EVANSVILLE	OH792	Ohio	10	02/06/12	7:50	208	80	0.135	20.214	0.030	<RL	3.601	45.120	<RL	<RL	14.379	<RL	1.727	9.755	35.337	330.0
EVANSVILLE	OH792	Ohio	11	02/13/12	8:00	217	84	0.126	20.220	0.032	<RL	4.678	47.569	<RL	<RL	14.522	<RL	1.699	10.516	27.708	343.0
EVANSVILLE	OH792	Ohio	12	02/26/12	8:00	235	90	0.142	23.441	0.054	<RL	4.996	60.721	<RL							389.0
EVANSVILLE	OH792	Ohio	13	02/27/12	8:00	223	90	0.142	23.004	0.030	<RL	4.641	60.828	0.191	<RL	17.960	<RL	1.835	12.250	38.984	392.0
EVANSVILLE	OH792	Ohio	14	03/05/12	8:20	236	78	0.134	31.113	0.028	0.058	3.918	66.639	0.239	<RL	15.701	<RL	0.559	10.667	30.930	385.0
EVANSVILLE	OH792	Ohio	15	03/13/12	8:40	187	68	0.099	18.483	0.079	<RL	2.768	46.851	0.936	<RL	30.506	<RL	4.848	17.379	28.069	313.0
EVANSVILLE	OH792	Ohio	16	03/19/12	8:00	173	70	0.160	15.966	0.057	0.090	3.636	42.958	0.192	<RL	12.490	<RL	0.824	8.684	31.533	299.0
EVANSVILLE	OH792	Ohio	17	03/26/12	8:00	189	72	0.114	17.318	0.047	<RL	3.615	49.149	0.099	<RL	14.220	<RL	1.796	9.960	33.198	322.0
EVANSVILLE	OH792	Ohio	18	04/06/12	11:20	207	82	0.164	17.254	0.046	<RL	3.676	50.367	<RL	<RL	12.485	<RL	1.635	9.416	30.539	339.0
EVANSVILLE	OH792	Ohio	19	04/09/12	7:30	184	88	0.150	18.656	0.055	0.042	3.972	53.361	<RL	<RL	15.275	<RL	1.949	11.569	37.755	362.0
EVANSVILLE	OH792	Ohio	20	04/16/12	7:50	205	92	0.177	19.575	0.069	<RL	3.538	56.401	<RL	<RL	16.202	<RL	1.913	12.083	39.811	337.0
EVANSVILLE	OH792	Ohio	21	04/23/12	7:30	228	90	0.250	22.441	0.100	0.037	3.058	67.229	<RL	<RL	18.292	<RL	2.092	12.764	39.681	401.0
EVANSVILLE	OH792	Ohio	22	04/30/12	7:45	245	98	0.210	26.089	0.046	0.036	3.662	69.881	<RL	<RL	21.993	<RL	2.290	14.141	41.822	433.0
EVANSVILLE	OH792	Ohio	23	05/07/12	7:50	223	82	0.164	19.361	0.052	<RL	3.144	60.936	<RL	<RL	18.277	<RL	2.216	11.481	34.507	361.0
EVANSVILLE	OH792	Ohio	24	05/14/12	7:50	160	74	0.197	15.899	0.018	<RL	4.521	47.577	0.072	<RL	13.483	<RL	2.336	9.971	32.733	316.0
EVANSVILLE	OH792	Ohio	25	05/22/12	10:50	210	76	0.325	17.850	0.187	<RL	4.769	61.973	<RL	<RL	17.411	0.071	2.379	10.173	36.480	357.0
EVANSVILLE	OH792	Ohio	26	05/29/12	12:55	227	84	0.190	17.010	0.042	<RL	4.229	67.685	<RL	<RL	16.879	<RL	2.323	11.211	38.022	361.0
EVANSVILLE	OH792	Ohio	27	06/04/12	13:35	227	80	0.238	18.698	0.027	<RL	4.556	75.348	<RL							363.0
EVANSVILLE	OH792	Ohio	28	06/12/12	8:00	215	82	0.305	20.550	0.122	<RL	4.002	68.629	<RL	<RL	19.037	0.296	2.505	11.405	35.847	336.0
EVANSVILLE	OH792	Ohio	29	06/18/12	7:45	197	90	0.218	20.884	0.128	0.116	4.009	58.916	0.075	<RL	18.208	<RL	2.456	11.734	36.028	361.0
EVANSVILLE	OH792	Ohio	30	06/25/12	7:40	201	90	0.208	21.316	0.055	<RL	3.300	58.914	<RL	<RL	17.762	<RL	2.302	11.678	35.023	347.0
EVANSVILLE	OH792	Ohio	31	07/09/12	7:00	213	90	0.314	23.992	<RL	0.040	4.004	56.577	<RL	<RL	20.703	0.034	2.549	12.257	36.453	386.0
EVANSVILLE	OH792	Ohio	32	07/09/12	7:46	222	88	0.212	22.645	<RL	<RL	3.320	54.790	0.072	<RL	19.599	<RL	2.543	11.945	35.922	337.0
EVANSVILLE	OH792	Ohio	33	07/16/12	7:40	190	84	0.225	24.028	0.039	0.217	2.996	60.180	0.220	<RL	20.165	<RL	2.368	11.743	34.926	386.0
EVANSVILLE	OH792	Ohio	34	07/23/12	7:40	231	86	0.329	27.533	0.149	0.057	3.609	66.452	<RL	<RL	35.136	0.393	3.039	10.809	36.590	403.0
EVANSVILLE	OH792	Ohio	35	07/30/12	7:30	249	86	0.291	33.238	0.081	0.077	3.576	71.391	0.186	<RL	27.900	<RL	2.899	14.519	38.287	446.0
EVANSVILLE	OH792	Ohio	36	08/06/12	7:30	263	88	0.310	33.462	0.075	0.063	2.871	82.724	0.107	<RL	32.397	<RL	3.093	15.346	39.095	470.0
EVANSVILLE	OH792	Ohio	37	08/13/12	7:50	249	84	0.268	33.932	0.046	0.079	2.956	79.520	<RL	<RL	31.466	0.123	3.213	14.204	39.146	465.0
EVANSVILLE	OH792	Ohio	38	08/20/12	7:50	297	96	0.295	37.062	0.058	0.088	3.010	83.581	<RL	<RL	33.747	<RL	3.420	14.609	42.175	447.0
EVANSVILLE	OH792	Ohio	39	08/27/12	7:45	329	90	0.328	37.609	0.056	0.089	2.430	88.240	<RL	<RL	34.495	<RL	3.523	15.586	42.739	495.0
EVANSVILLE	OH792	Ohio	40	09/08/12	6:45	259	86	0.298	37.441	0.075	0.075	3.589	91.000	<RL	0.025	34.132	<RL	3.027	16.135	43.490	497.0
EVANSVILLE	OH792	Ohio	41	09/10/12	7:30	243	84	0.292	36.993	0.093	0.071	3.776	89.589	<RL	0.025	33.309	0	2.842	15.346	26.904	499.0
EVANSVILLE	OH792	Ohio	42	09/17/12	7:35	262	88	0.295	36.155	0.094	0.085	3.659	87.008	<RL	<RL	33.426	<RL	3.658	15.580	44.135	489.0
EVANSVILLE	OH792	Ohio	43	09/26/12	9:30	267	84	0.326	39.979	<RL	0.106	4.079	87.326	<RL	<RL	35.822	<RL	3.463	15.637	42.843	493.0
EVANSVILLE	OH792	Ohio	44	10/02/12	8:30	283	85	0.287	42.200	<RL	0.107	5.016	95.404	2.112	<RL	38.393	<RL	3.827	16.785	43.249	511.0
EVANSVILLE	OH792	Ohio	45	10/08/12	7:40	278	82	0.272	39.987	0.075	0.104	5.171	91.711	0.353	<RL	36.907	<RL	3.593	16.298	44.801	511.0
EVANSVILLE	OH792	Ohio	46	10/15/12	8:20	325	93	0.284	38.315	0.067	0.104	4.389	103.422	0.091	<RL	35.705	<RL	3.822	18.334	47.558	542.0
EVANSVILLE	OH792	Ohio	47	10/22/12	8:15	325	94	0.280	38.358	0.069	0.120	4.525	107.259	1.549	<RL	36.330	<RL	3.755	18.379	51.649	552.0
EVANSVILLE	OH792	Ohio	48	10/29/12	7:45	341	91	0.348	50.439	0.110	0.126	5.092	114.345	<RL	<RL	44.938	<RL	3.556	17.559	45.637	599.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							

Appendix A: Dissolved Solids Monitoring Results

Sampling Location	Sample ID	River	Week #	Sample Date	Sample Time	TDS mg/L	HCO3-* mg/L	FI- mg/L	Cl- mg/L	NO2- mg/L	Br- mg/L	NO3-- mg/L	SO4-- mg/L	PO4-- mg/L	Li mg/L	Na+ mg/L	NH3+ mg/L	K+ mg/L	Mg++ mg/L	Ca++ mg/L	Sp. cond us/Cm
CAIRO	OH978	Ohio	1	12/06/11	8:15			0.118	11.702	0.024	<RL	4.707	37.683	<RL	<RL	8.582	<RL	2.617	7.862	31.829	274.0
CAIRO	OH978	Ohio	2	12/12/11	8:15			0.127	11.519	0.025	<RL	5.584	35.600	<RL	<RL	8.013	<RL	2.758	8.308	32.275	277.0
CAIRO	OH978	Ohio	3	12/19/11	10:00	142	84	0.118	15.019	0.022	<RL	6.356	37.770	<RL	<RL	9.025	<RL	2.638	9.528	33.927	307.0
CAIRO	OH978	Ohio	4	12/27/11	7:30	148	94	0.132	17.581	0.036	<RL	7.696	39.250	<RL	<RL	9.598	<RL	2.627	10.824	38.474	338.0
CAIRO	OH978	Ohio	5	01/03/12	8:00	212	100	0.127	16.740	0.054	<RL	6.707	63.237	<RL	<RL	12.733	<RL	2.210	12.341	42.813	368.0
CAIRO	OH978	Ohio	6	01/09/12	7:50	196	104	0.121	16.959	0.054	<RL	7.470	44.017	<RL	<RL	11.998	<RL	2.071	12.062	41.713	361.0
CAIRO	OH978	Ohio	7	01/16/12	8:30	216	106	0.108	17.301	0.029	0.282	6.926	50.169	<RL	<RL	12.943	<RL	1.887	12.579	42.464	375.0
CAIRO	OH978	Ohio	8	01/23/12	8:00	231	94	0.149	18.791	0.025	<RL	5.596	48.890	<RL	<RL	12.521	<RL	1.695	10.315	36.072	381.0
CAIRO	OH978	Ohio	9	01/30/12	7:45	206	86	0.131	20.639	0.031	0.135	5.423	41.191	<RL	<RL	14.277	<RL	1.814	10.026	36.369	340.0
CAIRO	OH978	Ohio	10	02/06/12	8:15	199	84	0.135	19.749	0.032	<RL	7.398	37.699	<RL	<RL	12.502	<RL	1.750	9.557	34.138	329.0
CAIRO	OH978	Ohio	11	02/13/12	8:30	252	104	0.142	21.336	0.035	<RL	7.479	43.292	<RL	<RL	14.186	<RL	2.009	12.348	42.450	379.0
CAIRO	OH978	Ohio	12	02/20/12	10:00	225	106	0.123	23.772	0.106	<RL	7.244	48.738	<RL	<RL	15.899	<RL	2.070	13.578	45.015	417.0
CAIRO	OH978	Ohio	13	02/27/12	7:20	237	112	0.139	22.290	0.036	<RL	6.526	56.842	<RL	<RL	18.036	<RL	2.050	14.296	45.522	412.0
CAIRO	OH978	Ohio	14	03/05/12	7:30	248	102	0.203	25.055	0.057	<RL	5.743	65.713	1.053	<RL	19.341	<RL	1.172	16.772	44.702	433.0
CAIRO	OH978	Ohio	15	03/12/12	7:50	200	74	0.106	472.425	<RL	0.294	4.297	47.330	0.137	<RL	16.191	<RL	0.833	10.115	32.683	319.0
CAIRO	OH978	Ohio	16	03/19/12	8:00	195	86	0.110	16.718	0.013	<RL	4.606	45.840	0.074	<RL	13.208	<RL	0.915	10.695	36.489	336.0
CAIRO	OH978	Ohio	17	03/26/12	8:00	204	86	0.135	16.130	0.028	<RL	3.948	46.677	<RL	<RL	12.933	<RL	1.824	10.594	36.623	339.0
CAIRO	OH978	Ohio	18	04/02/12	7:30	197	94	0.158	19.232	0.061	<RL	3.804	48.725	<RL	<RL	14.988	<RL	2.016	11.771	37.960	364.0
CAIRO	OH978	Ohio	19	04/09/12	7:30	183	100	0.209	18.487	0.016	0.382	4.507	47.485	<RL	<RL	14.516	<RL	2.087	12.148	39.283	369.0
CAIRO	OH978	Ohio	20	04/16/12	8:00	200	100	0.158	17.159	0.038	0.065	3.519	44.943	<RL	<RL	<RL	<RL	<RL	<RL	<RL	355.0
CAIRO	OH978	Ohio	21	04/23/12	19:30	225	102	0.199	20.395	0.063	<RL	2.674	52.278	<RL	<RL	16.111	<RL	2.010	13.343	39.421	380.0
CAIRO	OH978	Ohio	22	04/30/12	7:40	228	102	0.162	22.674	<RL	<RL	3.741	48.827	<RL	<RL	15.946	<RL	1.997	12.698	41.812	388.0
CAIRO	OH978	Ohio	23	05/07/12	8:14	253	96	0.214	25.892	0.060	0.044	3.433	68.014	<RL	<RL	22.228	0.081	2.374	14.895	40.702	421.0
CAIRO	OH978	Ohio	24	05/14/12	9:30	211	86	0.185	21.201	0.038	0.038	6.549	58.403	0.112	<RL	17.448	<RL	2.556	12.141	38.232	379.0
CAIRO	OH978	Ohio	25	05/21/12	8:00	201	84	0.184	16.733	0.049	0.139	6.162	52.618	0.148	<RL	13.687	<RL	2.397	11.501	36.871	350.0
CAIRO	OH978	Ohio	26	05/29/12	7:30	220	88	0.161	20.692	<RL	<RL	5.272	54.668	<RL							360.0
CAIRO	OH978	Ohio	27	06/04/12	11:45	210	90	0.164	21.869	0.022	0.047	3.868	52.343	<RL	<RL	16.334	<RL	2.383	11.734	35.810	351.0
CAIRO	OH978	Ohio	28	06/11/12	7:30	194	82	0.160	17.520	0.052	<RL	2.704	52.895	<RL	<RL	15.815	0.053	2.226	10.614	32.537	324.0
CAIRO	OH978	Ohio	29	06/18/12	7:30	158	80	0.198	20.006	0.063	0.072	2.520	45.745	<RL	<RL	14.773	<RL	1.978	9.321	32.888	316.0
CAIRO	OH978	Ohio	30	06/25/12	8:00	190	82	0.163	20.035	0.002	<RL	2.333	46.127	<RL	<RL	13.777	<RL	1.792	8.511	26.892	335.0
CAIRO	OH978	Ohio	31	07/09/12	7:15	186	86	0.187	21.684	<RL	<RL	1.242	39.753	<RL	<RL	15.538	<RL	2.128	10.071	34.791	335.0
CAIRO	OH978	Ohio	32	07/11/12	8:00	174		0.136	23.675	<RL	<RL	1.241	39.753	<RL	<RL	16.572	0.052	2.166	10.923	29.517	323.0
CAIRO	OH978	Ohio	33	07/16/12	8:09	154	82	0.182	23.196	0.024	<RL	2.127	39.828	<RL	<RL	16.339	<RL	2.116	10.428	31.003	332.0
CAIRO	OH978	Ohio	34	07/23/12	7:30	174	80	0.184	24.808	0.030	<RL	2.097	36.638	<RL	<RL	50.181	0.944	5.160	22.597	60.286	331.0
CAIRO	OH978	Ohio	35	07/30/12	8:00	204	94	0.196	26.638	0.116	0.041	2.026	42.982	<RL	<RL	19.315	<RL	2.336	11.481	35.996	371.0
CAIRO	OH978	Ohio	36	08/06/12	7:30	213	88	0.206	26.686	0.018	0.044	2.660	51.723	<RL	<RL	4.926	<RL	0.295	3.079	9.589	388.0
CAIRO	OH978	Ohio	37	08/13/12	7:30	177	74	0.227	26.433	0.051	<RL	1.299	42.998	0.108	<RL	21.303	0.044	2.470	10.277	20.563	340.0
CAIRO	OH978	Ohio	38	08/20/12	7:30	209	76	0.152	27.849	0.004	0.059	1.859	43.250	<RL	<RL	20.076	<RL	2.371	9.835	29.643	346.0
CAIRO	OH978	Ohio	40	09/04/12	8:50	161	76	0.217	25.877	0.082	0.090	1.356	42.790	0.503	<RL	29.352	<RL	1.727	3.813	36.623	306.0
CAIRO	OH978	Ohio	41	09/10/12	7:30	204	32	0.235	27.682	0.085	0.095	0.864	50.624	<RL	0.021	23.721	<RL	2.098	12.189	33.554	370.0
CAIRO	OH978	Ohio	42	09/17/12	8:30	183	76	0.207	25.281	0.059	0.079	1.400	49.346	0	<RL	22.488	<RL	2.798	11.222	31.724	349.0
CAIRO	OH978	Ohio	43	09/24/12	7:40	179	80	0.225	24.396	0.128	0.194	2.011	49.081	0	<RL	22.223	<RL	2.788	10.964	32.113	359.0
CAIRO	OH978	Ohio	44	10/01/12	7:10	210	80	0.157	33.437	0.163	0.100	2.900	52.973	0	<RL	25.076	<RL	3.356	11.894	37.074	406.0
CAIRO	OH978	Ohio	48	10/19/12	7:15	203	82	0.146	26.004	0.028	0.052	2.178	46.776	0	<RL	21.956	<RL	2.686	11.100	33.972	378.0
QUANT MAX								20.1	100	102	100	100	100	199	50	201	250	502	251	499	
QUANT MAX								4=EST	20=EST	20 EST	20=EST	20=EST	20=EST	40=EST	10.1	40.4	50.6	100.6	50.4	100.2	ORS LAB
MIN QUAN LVL TO 3/5/12								0.02	0.1	0.1	0.1	0.1	0.1	0.2	0.05	0.2	0.25	0.5	0.25	0.5	
MIN QUAN LVL FROM 3/5/12								0.007	0.035	0.036	0.035	0.035	0.035	0.07	0.05	0.2	0.25	0.5	0.25	0.5	NA
MIN QUAN LIMIT 09/04/12:								0.008	0.04	0.041	0.04	0.04	0.04	0.08							