

2015 Lake Erie Ambient Stations - Water Quality

300892 Lake Erie Near Conneaut

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
5/28/2015	93	<0.05U+	93	<5U-	23.4	1.1	293	No Sample	0.47	<0.02U-	0.0016	8.22	0.4J	20.3	0.22
6/22/2015	103	<0.05U+	103	<5U-	23.7	2.1	280	No Sample	0.46	<0.02U-	0.0019	8.31	0.3J	18.8	<0.2U-
7/27/2015	93.7	<0.05U+	93.7	<5U-	21.7	4.1	285	No Sample	0.19	<0.02U-	<0.001U+	8.15	0.8J	15.9	<0.2U+
9/10/2015	98.4	<0.05U+	98.4	<5U-	20.1	6.6	283	0.49	<0.1	<0.02U-	<0.001U+	8.37	0.5J	20	0.24

300895 Lake Erie Near Rocky River

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
5/7/2015	97	<0.05U-	97	<5U-	22	8.1	298	No Sample	0.65	<0.02U-	0.0022	8.41	2J	21.3	<0.2U-
5/27/2015	95.9	<0.05U+	95.9	<5U-	19.1	4	275	No Sample	0.36	<0.02U-	0.0018	8.24	1.2U,UJ	19.2	<0.2U+
7/1/2015	83.5	<0.05U+	83.5	<5U-	17.4	9.9	275	No Sample	0.44	<0.02U+	0.0155	8.25	0.8J	20.9	0.28
7/28/2015	92.5	<0.05U+	92.5	<5U-	17.3	4.1	270	No Sample	0.22	<0.02U+	<0.001	7.97	0.9J	18.2	<0.2U-
9/15/2015	96.5	<0.05U+	96.5	<5U-	19.8	9.9	284	<0.3U-	0.11	<0.02U+	0.0066	8.02	2.6U,UJ	20.2	<0.2U-

300897 Lake Erie Near Huron

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/28/2015	91.7	<0.05U+	91.7	5U-	22.3	9.9	295	No Sample	0.74	<0.02U+	0.007	8.1	<1.9U,UJ	20.2	0.41
5/7/2015	92.8	<0.05U-	92.8	5U-	16.8	4.3	260	No Sample	0.39	<0.02U-	0.0017	8.32	<0.1U,UJ	17.1	<0.2U+
5/27/2015	95.1	<0.05U+	95.1	5U-	17	4.9	268	No Sample	0.27	<0.02U-	0.0024	8.31	<0.2U,UJ	18.3	<0.2U+
6/29/2015	77.4	<0.05U+	77.4	5U-	16.1	2.4	245	<0.3U-	0.36	<0.02U-	0.0086	8.07	1.9J	18	0.25
7/14/2015	89.5	0.059	89.5	5U-	14.8	7.4	263	<0.3U-	0.29	<0.02U-	0.0018	8.33	1.6J	17.7	0.3
7/29/2015	94	0.05U+	89.8	5U+	16.2	9.4	272	<0.3U-	0.33	0.066	0.0011	8.57	1.2J	19.9	<0.2U-
8/17/2015	96.7	0.039	90.1	6.6	17	20.2	267	0.19U+	0.15	0.011U-	0.0021	8.77	5.7J	19.1	0.28
8/27/2015	98	0.026	98	4	18	14.3	281	0.15U+	0.12	0.012U+	0.0015	8.48	3J	18.9	0.2
9/24/2015	103	0.05U-	99.4	5U-	18.9	25.3	291	0.58	<0.1U+	<0.02U-	0.0044	8.57	<5.6U,UJ	21.2	0.2

2015 Lake Erie Ambient Stations - Water Quality

300898 Lake Erie Near West Sister Island

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/16/2015	86.8	<0.05U+	86.8	<5U-	13.6	1.5	237	No Sample	0.32	<0.02U-	0.0073	8	0.4J	15.6	<0.2U+
5/6/2015	93.2	<0.05U-	91.1	<5U-	16	11.8	262	No Sample	0.73	<0.02U-	0.0018	8.42	<1.9U,UJ	16.4	<0.2U+
5/26/2015	82.7	<0.05U+	82.7	<5U-	9.6	1.9	226	No Sample	0.28	<0.02U-	0.0023	8.24	0.4J	15.1	<0.2U+
6/9/2015	93	<0.05U+	93	<5U-	13.5	8.7	248	No Sample	0.27	<0.02U-	0.0029	8.26	1.4J	16.7	0.98
6/25/2015	103	<0.05U+	103	<5U-	22.4	27.1J	300	0.3U-	1.98	0.043	0.0138	8.35	5.9J	19.6	0.48
7/8/2015	99.2	0.057	99.2	<5U-	17.4	12.1	288	0.3U-	1.77	0.038	0.038	8.17	5J	18.2	0.28
7/28/2015	98.1	<0.05U+	82.3	15.9	15.8	18.4	268	0.3	0.53	<0.02U+	0.0022	9	4.4J	17.5	0.57
8/13/2015	103	0.019U+	85.1	17.9	19.1	58	297	0.12U-	0.49	0.011U-	0.0059	9.11	11.6J	19.6	0.7
8/26/2015	92	0.044U+	81.7	10.3	12.6	33.6	247	0.72	0.08	0.011U-	0.0017	8.92	5.6U,UJ	16.7	0.28
9/29/2015	97.8	0.057	93.2	<5U+	15.5	15.8	257	0.52	<0.1	0.02U-	0.0123	8.72	3.1J	18.7	0.28

300900 Sandusky Bay Near Johnson's Island

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/28/2015	102	<0.05U+	95.3	6.2	26.5	40.6	335	No Sample	1.05	<0.02U-	0.0059	8.53	11.2J	28.7	0.26
5/7/2015	93.5	<0.05U-	79.2	14.3	27.5	32.8	336	No Sample	0.72	<0.02U+	0.0014	9.07	<5.6U,UJ	34	0.33
6/1/2015	81.6	<0.05U+	81.6	<5U-	33.7	51.3	389	No Sample	<0.1U+	<0.02U-	0.024	8.74	10J	64.5	1.32
6/11/2015	95.9	<0.05U+	95.9	<5U-	25.8	21.4	340	No Sample	0.37	<0.02U-	0.0096	8.5	<5.6U,UJ	39	0.45
6/29/2015	85.6	<0.05U+	82.2	<5U-	31.8	112	404	4.4	3.69	0.1	0.0147	8.55	<5.6U,UJ	57.4	0.73
7/14/2015	104	<0.05U+	80.4	23.4	17.9	67.8	348	4.6	3.27	0.069	0.0015	9.18	13.3J	36.8	0.81
7/29/2015	83.9	<0.05U+	58	25.8	22.6	135	314	3.9	0.66	0.024	0.002	9.4	<5.6U,UJ	44.4	1.27
8/17/2015	95.3	0.04U+	83.9	11.4	17.4	119	269	0.76	0.47	0.014U+	0.0026	8.91	<5.6U,UJ	19.3	0.3
8/27/2015	92.9	0.018U+	84.9	8	17.7	68.6	291	3.9	0.04U+	0.011U-	0.0017	8.88	15.8J	28.8	0.27
9/24/2015	108	0.05U-	108	<5U-	20	38.7	342	2.5	<0.1U+	<0.02U-	0.007	8.57	<5.6U,UJ	40.3	0.28

2015 Lake Erie Ambient Stations - Water Quality

301076 Lake Erie Near Middle Bass Island

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/16/2015	90.8	<0.05U+	90.8	<5U-	17.5	2.6	250	No Sample	0.33	<0.02U-	0.0061	8.01	0.5J	15.8	<0.2U+
5/6/2015	91.7	<0.05U-	89.3	<5U-	15.8	13.1	265	No Sample	0.56	<0.02U-	0.0013	8.44	3.6J	17.4	<0.2U-
5/26/2015	89	<0.05U+	89	<5U-	16	1.3	261	No Sample	0.4	<0.02U-	0.0012	8.29	0.5J	17.4	0.25
6/9/2015	97.9	0.075	97.9	<5U-	18.5	1	278	No Sample	0.51	<0.02U-	0.0198	8.13	0.9J	19.7	0.37
6/25/2015	98.4	<0.05U+	94.8	<5U-	20.8	10.7J	277	<0.3U-	0.67	<0.02U+	0.0017	8.71	2.2J	18.4	0.35
7/8/2015	102	<0.05U+	102	<5U-	21.3	9.8	322	<0.3U-	2.58	0.049	0.0319	8.36	3.7J	23.1	0.28
7/28/2015	94.9	<0.05U+	83.9	11.1	14.8	16.4	258	0.31	0.38	<0.02U-	0.0017	8.86	<2.8UJ	16.2	0.63
8/13/2015	91.4	0.019U+	81.4	10	14.5	21.4	255	0.28U-	0.2	0.011U-	0.0036	8.9	3.8J	17.3	0.3
8/26/2015	91	0.067	80.9	10.1	15.2	45.1	259	1.7	0.26	0.011U-	0.0074	8.86	4.5J	19.1	0.33
9/29/2015	93.8	<0.05U+	89.1	<5U+	13	17.8	239	0.63	<0.1U+	<0.02U-	0.0015	8.81	3J	17.2	0.26

301254 Lake Erie Near Geneva

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
5/28/2015	90.9	<0.05U+	90.9	<5U-	23.6	1.8	291	No Sample	0.51	<0.02U-	0.001	8.3	0.2J	20.1	0.27
6/22/2015	98.7	<0.05U+	98.7	<5U-	25.9	2.7	282	No Sample	0.32	<0.02U-	0.0016	8.27	<0.8U,UJ	18.8	0.21
7/27/2015	92.7	<0.05U+	92.7	<5U-	20.7	2.9	278	No Sample	0.23	<0.02U+	<0.001U-	8.17	0.6J	15.7	<0.2U+
9/10/2015	98.8	<0.05U+	98.8	<5U-	19	4.3	282	<0.3U+	<0.1U-	<0.02U-	0.0012	8.22	0.6J	20.2	<0.2U-

301255 Lake Erie Near Fairport Harbor

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
6/2/2015	94.1	0.05	94.1	<5U-	19.9	2.9	282	No Sample	0.43	<0.02U-	0.0034	8.26	0.9J	19.5	0.24
6/22/2015	101	<0.05U+	101	<5U-	23.1	1.7	278	No Sample	0.32	<0.02U-	0.001	8.29	0.4J	18.7	0.2
7/27/2015	91.8	<0.05U+	91.8	<5U-	20.8	4.6	280	No Sample	0.25	0.021	<0.001U-	8.23	0.7J	15.9	0.55
9/15/2015	100	<0.05U+	100	<5U-	19.9	5.8	290	0.31	0.11	<0.02U-	0.0062	8.01	0.4J	20.2	<0.2U-

2015 Lake Erie Ambient Stations - Water Quality

301256 Lake Erie Near Wildwood

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
7/1/2015	85.2	<0.05U+	85.2	<5U-	16.8	2.2	270	No Sample	0.42	<0.02U+	0.0144	8.19	1.6J	18.9	0.27
7/28/2015	93.5	<0.05U+	93.5	<5U-	21.2	5.8	282	No Sample	0.29	0.021	<0.001U+	8.34	0.7J	18.7	0.39
9/15/2015	97.5	<0.05U+	97.5	<5U-	21.3	5.7	289	<0.3U+	0.14	<0.02-	0.009	7.99	1.7U,UJ	20	<0.2U+

301257 Lake Erie Near Lorain

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
5/7/2015	90	<0.05U-	90	<5U-	23.9	9.9	301	No Sample	0.77	<0.02U-	0.003	8.39	2.6J	21	0.23
5/27/2015	96.1	<0.05U+	96.1	<5U-	20.1	4.6	279	No Sample	0.41	<0.02U-	0.0017	8.27	<0.9U,UJ	19.1	0.29
7/1/2015	83.4	<0.05U+	83.4	<5U-	16.1	11.3	272	No Sample	0.56	0.022	0.0194	8.22	0.7J	21.2	<0.2U-
7/28/2015	96.5	0.052	96.5	<5U-	16.9	5.7	271	No Sample	0.38	<0.02U+	<0.001U+	7.93	0.5J	18.5	<0.2U+
9/15/2015	98.2	<0.05U+	98.2	<5U-	20.6	10.1	286	<0.3U+	0.15	<0.02U-	0.0082	8.17	<2.6U,UJ	21.1	0.21

301258 Lake Erie Near Toledo Harbor Lighthouse

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/15/2015	96.9	0.118	96.9	<5U-	27	1.2	302	No Sample	0.73	<0.02U-	0.027	7.93	1.4J	20.1	0.38
5/4/2015	92.2	<0.05U+	92.2	<5U-	16.7	7.5	267	No Sample	0.49	<0.02U-	0.0016	8.32	<1.9U,UJ	17.8	0.26
5/18/2015	94.2	<0.05U+	94.2	<5U-	23.5	10	305	No Sample	0.61	<0.02U-	0.002	8.29	2.6J	23.2	0.25
6/10/2015	113	0.121	113	<5U-	29.9	3.6	363	No Sample	1.59	0.033	0.0298	8.15	0.3J	29.1	0.29
6/24/2015	111	0.061	111	<5U-	26.3	12.6	340	<0.3U-	3.02	0.098	0.0399	8.26	3.3J	24.3	0.56
7/7/2015	96.5	<0.05U+	96.5	<5U-	18.7	16	315	<0.3U-	2.37	0.04	0.0453	8.36	6.9J	19.8	0.61
7/27/2015	111	<0.05U+	100	10.5	20.4	23	319	0.32	1.73	0.029	0.0225	8.74	7.6J	16.9	0.57
8/12/2015	98.9	0.019U+	71.4	27.5	19	103	284	<0.3U+,J	0.36	0.011	0.0068	9.26	<5.6U,UJ	18.9	1.18
8/25/2015	96.8	0.035U+	81.5	15.3	14.9	44.6	259	0.12U-	0.12	0.011	0.0064	9.18	12.1J	17.9	0.39
9/28/2015	100	<0.05U-	100	<5U-	22.9	20	304	1.3	<0.1U+	<0.02U-	0.027	8.47	5.2J	25.4	0.36

2015 Lake Erie Ambient Stations - Water Quality

301259 Lake Erie Near Cedar Point

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/28/2015	90.9	<0.05U+	90.9	<5U-	16.8	2.4	264	No Sample	0.32	<0.02U-	0.0028	8.16	0.4J	16.5	0.26
5/7/2015	89.2	<0.05U-	89.2	<5U-	15.5	4.6	256	No Sample	0.38	<0.02U-	0.0013	8.37	0.4J	16.8	<0.2U-
5/27/2015	96.4	<0.05U+	96.4	<5U-	19	4.4	279	No Sample	0.4	<0.02U-	0.0011	8.38	0.2J	19.2	<0.2U-
6/29/2015	81.8	<0.05U+	81.8	<5U-	17.7	4.7	251	<0.3U-	0.35	<0.02U-	0.0069	8.13	1.5J	18.1	0.23
7/14/2015	90.8	<0.05U+	88.2	<5U-	15.8	11.1	271	0.42	0.34	<0.02U-	0.0012	8.58	3.7J	19.7	0.27
7/29/2015	97.1	<0.05U+	88.1	9.1	16.5	16.2	276	<0.3U-	0.47	<0.02U+	0.0056	8.81	<2.8U,UJ	20.8	0.22
8/17/2015	76.3	0.018U+	62.4	13.9	21.9	19.8	297	0.38	0.07U+	0.011U-	0.0035	9.25	4.9J	42.6	0.89
8/27/2015	95.8	0.028U+	91.6	4.2U+	16.1	14.2	270	0.79	U0.09+	0.011U-	0.0024	8.6	4.9J	18.5	0.18U+
9/24/2015	102	<0.05U-	102	<5U-	18.8	14	283	<0.3U=	<0.1U-	<0.02U-	0.0081	8.57	1.7J	19.8	<0.2U+

301641 Maumee River dnst. I-280

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/15/2015	155	0.12	155	<5U-	42	7	509	No Sample	5.79	0.04	0.1028	8.02	3.7J	43.8	0.9
5/5/2015	167	<0.05U+	157	9.8	53.3	90.3	599	No Sample	5.46	0.044	0.003	8.59	9.1U	58.9	0.96
5/18/2015	189	0.063	182	6.8	64.3	45.5	675	No Sample	3.75	0.067	0.0061	8.33	5.5J	76.7	1.04
6/11/2015	173	0.082	173	<5U-	39.7	31.7	600	No Sample	11.6	0.193	0.0799	8.15	8.1J	57.2	1.2
6/24/2015	133	0.061	133	<5U-	19.8	10	351	<0.3U-	3.32	0.07	0.1825	7.92	2.1J	20.7	0.94
7/7/2015	135	<0.05U+	135	<5U-	17.6	23.6	390	<0.3U-	3.86	0.021	0.1136	8.21	9.9J	23.5	0.91
7/27/2015	138	0.059	138	<5U-	17.7	40.2	357	<0.3U-	1.73	<0.02U+	0.1043	8.36	25.9J	16.9	1.86
8/12/2015	141	0.318	141	4U-	44.4	96.1	483	<0.3U+,J	0.23	0.024	0.0601	8.24PS	<5.6U,UJ	40.3	1.24
8/25/2015	154	0.331	154	4U-	54	87.5	556	0.35	0.12	0.018U+	0.0787	8.05	25.7J	55.6	0.88
9/28/2015	147	<0.05U+	147	<5U-	65.8	41.7	589	0.46	0.73	0.022	0.0473	7.89	25J	62.6	0.61

2015 Lake Erie Ambient Stations - Water Quality

301788 Maumee Bay Near Woodtick Peninsula

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/15/2015	155	0.119	155	<5U-	47.1	7.4	532	No Sample	5.86	0.039	0.0959	7.96	7.5J	45.3	0.92
5/4/2015	158	<0.05U+	158	<5U-	53.8	29.4	601	No Sample	5.05	0.047	0.0408	8.26	10.5U	55.3	0.44
5/18/2015	152	<0.05U+	147	<5U+	60	32.4	597	No Sample	2.68	0.037	0.0075	8.26	8.6J	71	0.89
6/11/2015	146	0.238	146	<5U-	41.7	7.9	545	No Sample	10.8	0.246	0.1009	8.1	4.1J	39.5	1.36
6/24/2015	120	0.127	120	<5U-	21.2	1.4	336	<0.3U-	3.94	0.096	0.169	7.97	0.6J	20	1.14
7/7/2015	113	0.055	113	<5U-	21.7	31.3	367	<0.3U-	3.74	0.045	0.1118	8.08	11.4J	21.2	0.77
7/27/2015	122	0.087	122	<5U-	18.7	12.6	339	<0.3U-	1.93	0.028	0.1116	8.09	4J	16.4	0.75
8/12/2015	109	0.026U+	82	27.3	26	31.5	338	0.41J	0.27	0.011U-	0.0062	9.29PS	14.1J	27	0.63
8/25/2015	118	0.027U+	98.7	19.2	45.7	59	436	0.29U+	0.06U+	0.011U-	0.0176	9.15	15.1J	41.7	0.65
9/28/2015	115	<0.05U-	115	<5U-	42.7	49.7	427	3.4J	0.24	<0.02U-	0.0337	8.44	<2.8U,UJ	42.8	0.46

302142 Maumee Bay Near State Park

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/15/2015	160	0.131	160	<5U-	50.2	5.8	582	No Sample	6.37	0.037	0.0767	8.01	4.1J	52.9	0.89
5/5/2015	162	0.073	162	<5U-	55.6	5.6	601	No Sample	5.58	0.042	0.0782	8.16	1.9U	57.9	0.9
5/18/2015	115	<0.05U+	110	5.6	45.7	15.1	457	No Sample	1.83	0.027	0.0017	8.56	8.3J	46.6	0.83
6/11/2015	125	0.302	125	<5U-	38.9	1.3	481	No Sample	8.62	0.181	0.0962	8.15	0.5J	34.2	1.29
6/24/2015	122	0.102	122	<5U-	17.4	1	330	<0.3U-	3.63	0.094	0.1782	7.93	0.4J	19.4	1.02
7/7/2015	102	<0.05U+	102	<5U-	15.5	33.5	320	<0.3U-	3.51	0.05	0.0899	8.39	11.2J	18.4	0.73
7/27/2015	122	0.053	122	<5U-	17.6	10.8	332	<0.3U-	1.98	0.027	0.1082	8.22	<2.8U,UJ	16.4	0.64
8/12/2015	121	0.026U+	76.5	44.2	22.8	300	333	2.5J	0.61	0.011U-	0.0349	9.48	<11.2U,U	22.9	0.57
8/25/2015	96.2	0.026U+	72.2	24	29.7	69.7	320	0.54	0.06U+	0.011U-	0.0031	9.4	9.3J	29.1	0.73
9/28/2015	98.4	<0.05U-	94.4	<5U-	18.1	24.4	276	1.3	<0.1U+	<0.02U-	0.0054	8.6	<5.6U,UJ	21	0.28

2015 Lake Erie Ambient Stations - Water Quality

302153 Lake Erie Near Middle Sister Island															
Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/16/2015	86.1	<0.05U+	86.1	<5U-	8.8	0.6	224	No Sample	0.29	<0.02U-	0.0039	8.09	0.3	15.3	<0.2U-
5/6/2015	105	<0.05U-	105	<5U-	19.3	3.7	296	No Sample	1.17	<0.02U-	0.0021	8.28	0.2	17	<0.2U+
5/26/2015	82.5	<0.05U+	82.5	<5U-	9.2	1.9	224	No Sample	0.28	<0.02U-	0.0014	8.28	0.3	15	0.23
6/9/2015	93.1	<0.05U+	93.1	<5U-	12.7	5.5	245	No Sample	0.35	<0.02U-	0.0017	8.33	1.4	15.4	0.22
6/25/2015	89.9	<0.05U+	89.9	<5U-	12.1	2.2J	229	<0.3U-	0.34	<0.02U-	0.0033	8.46	0.3	14.1	0.25
7/8/2015	93.3	<0.05U+	93.3	<5U-	11.5	2.7	246	<0.3U-	0.64	<0.02U-	0.0018	8.35	0.4	15.7	<0.2U-
7/28/2015	86.4	<0.05U+	86.4	<5U-	9.2	1.7	225	<0.3U-	0.26	<0.02U-	0.0012	8.55	0.5	14.5	<0.2U-
8/13/2015	81.4	0.019U+	78	4U-	10.1	7.3	225	0.12U-	0.21	0.011U-	0.0024	8.64	1.4	15.6	0.15U-
8/26/2015	87	0.024U+	81.3	5.6	11.9	*	237	0.45	0.15	0.011U-	0.0012	8.71	*	16.2	0.29
9/29/2015	92.1	<0.05U-	92.1	<5U-	9.1	5.6	222	<0.3U-	0.22	<0.02U-	0.0026	8.83	0.7	15.4	<0.2U-

* Sample lost due lab accident.

302502 Lake Erie North of Port Clinton															
Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/16/2015	105	0.15	105	<5U-	34.8	1.7	359	No Sample	1.91	<0.02U+	0.0594	7.99	0.7J	25.8	0.55
5/6/2015	96.7	<0.05U-	96.7	<5U-	27.8	4.5	323	No Sample	0.97	<0.02U+	0.0103	8.21	1.1U,UJ	22.1	<0.2U-
5/26/2015	94.4	<0.05U+	94.4	<5U-	20.7	2.8	288	No Sample	0.53	<0.02U-	0.0019	8.3	0.6J	19.4	0.33
6/9/2015	94.1	0.063	94.1	<5U-	16.2	1.3	262	No Sample	0.39	<0.02U-	0.0185	8.17	0.9J	18.6	0.29
6/25/2015	104	<0.05U+	104	<5U-	25.8	15J	313	<0.3U-	0.91	<0.02U+	0.0221	8.37	3.9J	22.8	<0.2U-
7/8/2015	97.8	0.067	97.7	<5U-	18.2	13.4	288	<0.3U-	1.11	<0.02U+	0.0133	8.37	3.6J	20.1	0.28
7/28/2015	101	<0.05U+	82.3	18.6	18	18.2	284	<0.3U+	1.15	<0.02U+	0.0035	9.11	3.4J	18.3	0.46
8/13/2015	85.1	0.019U+	65.3	19.8	18.5	58.5	258	0.48J	0.46	0.011U-	0.0068	9.29	12.6J	18.1	0.82
8/26/2015	93.9	0.034U+	87.7	6.3	16.5	23.9	274	2	0.31	0.011U-	0.0021	8.75	8.4J	20	0.35
9/29/2015	98.6	<0.05U-	93	5.6	16.4	15.7	262	0.98	<0.1U+	<0.02U-	0.0026	8.77	4.7J	19.5	0.2

2015 Lake Erie Ambient Stations - Water Quality

302502 Lake Erie between Toledo/Oregon WTP Intake

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/15/2015	122	0.144	122	<5U-	38.7	1.6	409	No Sample	2.57	0.02	0.0595	8.06	1.2J	31.6	0.67
5/4/2015	117	<0.05U+	117	<5U-	33.2	10	395	No Sample	2.6	0.02	0.0206	8.22	1.9U,UJ	29.9	0.26
5/18/2015	117	<0.05U+	112	<5U+	34.1	19.4	387	No Sample	1.6	<0.02U+	0.0023	8.54	3.8J	33.2	0.49
6/10/2015	108	0.093	108	<5U-	27.4	5.2	339	No Sample	1.04	0.023	0.0274	8.17	0.6J	26.8	0.43
6/24/2015	108	0.091	108	<5U-	16.9	2	309	<0.3U-	4.5	0.118	0.1422	8	0.3J	17.8	0.91
7/7/2015	97.5	0.05	97.5	<5U-	20.1	8.7	336	<0.3U-	4.01	0.058	0.0918	8.23	2J	21.8	0.53
7/27/2015	114	<0.05U+	105	8.7	19.1	13.4	321	0.31	1.93	0.029	0.0467	8.67	3.6J	16.7	0.47
8/12/2015	123	0.022U+	101	21.6	23.4	98.9	346	2.2J	1.02	0.012U+	0.044	9.05PS	5.6U,UJ	22.4	0.68
8/25/2015	96.7	0.028U+	77.3	19.4	17.3	54.9	270	0.23U+	0.24	0.011U-	0.005	9.22	12.7J	19.4	0.39
9/28/2015	97.5	<0.05U-	89.2	8.2	16.3	22.4	268	1.2	<0.1U+	<0.02U-	0.0032	8.83	8.2J	19.9	<0.2U+

P11S32 Maumee River Near Mouth

Date	Alkalinity mg/L	NH ₃ mg/L	Bicarbonate mg/L	Carbonate mg/L	Chloride mg/L	Chl-a ug/L	Cond. umhos/cm	Microcystinsu g/L	NO ₃ +NO ₂ mg/L	NO ₂ mg/L	PO ₄ mg/L	pH s.u.	Phe-a ug/L	Sulfate mg/L	TKN mg/L
4/15/2015	147	0.121	147	<5U-	43.5	5.7	508	No Sample	5.94	0.04	0.0939RC	7.94	3.9J	43.1	0.93
5/5/2015	159	<0.05U-	150	8.9	58.4	103	610	No Sample	5.37	0.039	0.0074	8.55	12U	60.2	0.64
5/18/2015	170	0.052	162	7.6	72.8	45.7	699	No Sample	3.53	0.061	0.0139	8.33	7.8J	78.1	0.67
6/11/2015	170	0.091	170	<5U-	40.4	59.7	598	No Sample	12.7	0.214	0.0819	8.14	9.8J	42.2	1.23
6/24/2015	129	0.06	129	<5U-	19.5	8	345	<0.3U-	3.24	0.074	0.1825	7.94	2.7J	20.5	0.94
7/7/2015	131	<0.05U+	131	<5U-	19.9	25.6	397	<0.3U-	3.74	0.047	0.1111	8.16	10.3J	24.8	0.87
7/27/2015	133	0.054	133	<5U-	20.9	27.4	361	<0.3U-	1.93	0.023	0.1237	8.16	10.4J	16.6	0.6
8/12/2015	158	0.274	158	4U-	51.2	33.6	550	<0.3U-,J	1.18	0.052	0.0685	8.17PS	11.7J	44.7	0.75
8/25/2015	146	0.282	146	4U-	59.4	69.3	566	0.32	0.62	0.047	0.081	8	23.2J	56.8	0.9
9/28/2015	132	<0.05U+	132	<5U-	61.6	31.5	560	1.4	1.25	0.037	0.0527	7.88	11.7J	60.5	0.53

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
170	0.0068	<5U-
180	0.0045	<5U-
162	0.0077	<5U+
168	0.0064	<5U-

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
172	<0.002U-	<5U-
160	0.0067	<5U+
162	0.0217	6
150	0.0059	<5U+
166	0.0181	<5U+

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
174	0.0127	6
142	0.0048	<5U-
156	0.004	<5U-
140	0.0185	11
148	0.0071	5U-
146	0.0106	5U-
166	0.0182	5
152	0.0154	3U+
166	0.017	5

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
124	0.0082	<5U+
154	0.0081	6
116	0.0065	<5U+
144	0.0089	7
174	0.0188	<5U+
190	0.04	6
160	0.0097	<5U+
184	0.0191	11
146	0.018	10
148	0.0203	<5U+

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
192	0.0168	11
194	0.0138	6
270	0.1242	44
210	0.0334	29
262	0.0544	26
224	0.0292	20
200	0.0296	21
156	0.0547	6
170	0.0359	19
210	0.0236	11

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L	
136	0.008	<5U+	<5U+
152	0.0074	<5U+	
134	0.0061	<5U-	
164	0.024	5	
158	0.0073	<5U-	
202	0.027	<5U+	
152	0.0118	<5U+	
158	0.0099	4	
150	0.0174	8	
132	0.0146	<5U+	

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
166	0.0051	<5U-
180	0.0059	<5U-
156	0.006	<5U-
160	0.0089	<5U-

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
168	0.01	7
168	0.0055	<5U-
156	0.006	<5U-
170	0.0143	<5U-

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
158	0.0201	7
164	0.0063	<5U-
166	0.0166	<5U+

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
166	0.0095	<5U-
164	0.0067	<5U-
160	0.0245	7
156	0.0078	<5U+
176	0.018	<5U-

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
182	0.0297	12
144	0.0081	<5U+
168	0.0078	<5U+
210	0.0335	<5U+
210	0.0449	<5U+
196	0.048	<5U+
204	0.06	<5U+
180	0.0275	15
156	0.0175	11
172	0.022	9

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
150	0.0035	<5U-
140	0.0046	<5U-
162	0.0053	<5U-
144	0.0186	13
154	0.0099	<5U+
154	0.0142	<5U-
202	0.0185	19
148	0.0146	5
160	0.0183	<5U+

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
370	0.1188	27
378	0.0407	22
394	0.0421	15
378	0.0886	32
246	0.1853	21
258	0.175	18
224	0.136	21
286	0.072	12
324	0.118	27
326	0.078	19

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
374	0.1149	48
358	0.04	20
342	0.0318	15
356	0.0783	26
238	0.1584	<5U-
234	0.127	6
216	0.118	6
206	0.0262	21
250	0.039	18
236	0.046	13

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
386	0.0769	18
374	0.069	11
258	0.0147	6
316	0.0914	15
228	0.15	<5U-
210	0.111	<5U+
216	0.095	<5+
202	0.067	22
188	0.0388	24
154	0.026	13

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
122	0.006	<5U+
172	0.0062	<5U+
122	0.0045	<5U-
142	0.0077	5
124	0.006	<5U-
148	0.0065	<5U+
124	0.0041	<5U-
138	0.0069	1U-
136	0.0097	4U+
122	0.0079	<5U+

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
208	0.0519	<5U-
190	0.0128	<5U-
156	0.0139	<5U+
158	0.0293	8
182	0.0242	<5U+
180	0.0244	6
178	0.0127	<5U+
162	0.0208	14
172	0.0165	8
142	0.0164	5

2015 Lake Erie Ambient Stations - Water Quality

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
252	0.0587	6
226	0.0295	<5U+
216	0.01	<5U+
188	0.0311	6
212	0.1273	<5U-
214	0.085	<5U+
200	0.059	<5U-
214	0.064	11
166	0.0173	11
148	0.0187	11

Total Diss. Solids mg/L	Total, P mg/L	T, Suspended Solids mg/L
370	0.0548RC	27
384	0.076	42
406	0.0432	15
382	0.0732	29
248	0.1746	18
256	0.154	17
226	0.157	13
324	0.084	14
322	0.128	20
306	0.083	21