

Appendix B Water Quality Data for 2004 – Lake Moomaw

HYDROLAB QUANTA WATER MONITORING SYSTEM

WATER QUALITY SYSTEM

Ports Open: 1570 1564 1546 1540 1510 1494.5

W.Q. Gate Setting:1.36 ft

Jun. 15 04

Lake Elev. 1581.8

FLOOD CONTROL SYSTEM

Gates Open: None

Gates Setting: 0.0 ft 0.0 ft.

PRE-MONITORING DATA

Time: 0900 hrs.

Air Temp. 67°

DOWNSTREAM GAGE DATA

Stage:9.91

Discharge: 272.3 c.f.s.

Water Temp. 59.94°

POST MONITORING DATA

Time: 1200

Air Temp. 80°

Index

0	Date	Time	Temp-F	pH	SpC-mS/cm	Salin-PSS	DO%-Sat	DO-mg/L	Depth-ft
1									
2	15-Jun-04	7:03:21	47.3	7.00	0.128	0.06	48.7	5.58	144.9
3	15-Jun-04	7:03:58	47.3	6.96	0.128	0.06	48.6	5.57	139.8
4	15-Jun-04	7:04:21	47.4	6.95	0.127	0.06	48.8	5.59	134.8
5	15-Jun-04	7:05:10	47.4	6.94	0.127	0.06	50.3	5.76	129.9
6	15-Jun-04	7:05:40	47.4	6.95	0.126	0.06	51.9	5.93	125.1
7	15-Jun-04	7:06:14	47.5	6.97	0.125	0.06	55.2	6.3	120.2
8	15-Jun-04	7:06:42	47.7	6.98	0.124	0.06	58.4	6.66	115.2
9	15-Jun-04	7:07:18	47.8	7.00	0.124	0.06	62.7	7.13	110.0
10	15-Jun-04	7:07:47	48.0	7.02	0.124	0.06	64.9	7.34	104.8
11	15-Jun-04	7:08:15	48.2	7.04	0.125	0.06	67.4	7.66	100.1
12	15-Jun-04	7:08:43	48.5	7.08	0.124	0.06	71.0	8.01	95.3
13	15-Jun-04	7:09:14	48.9	7.09	0.124	0.06	75.0	8.41	89.9
14	15-Jun-04	7:09:43	49.3	7.10	0.124	0.06	76.2	8.5	84.9
15	15-Jun-04	7:10:21	50.1	7.10	0.124	0.06	75.7	8.38	80.0
16	15-Jun-04	7:10:54	51.0	7.10	0.124	0.06	73.7	8.07	75.2
17	15-Jun-04	7:11:28	51.7	7.09	0.123	0.06	72.4	7.84	70.4
18	15-Jun-04	7:12:13	52.6	7.09	0.123	0.06	71.4	7.64	65.0
19	15-Jun-04	7:12:52	53.9	7.08	0.124	0.06	72.0	7.57	59.9
20	15-Jun-04	7:13:28	55.3	7.16	0.124	0.06	75.1	7.76	54.7
21	15-Jun-04	7:14:16	57.2	7.23	0.124	0.06	80.4	8.12	50.1
22	15-Jun-04	7:15:03	60.5	7.29	0.125	0.06	81.5	7.91	44.9
23	15-Jun-04	7:15:40	61.7	7.27	0.125	0.06	79.7	7.62	40.2
24	15-Jun-04	7:16:17	62.8	7.32	0.126	0.06	80.7	7.63	34.8
25	15-Jun-04	7:16:50	63.9	7.38	0.127	0.06	85.6	7.98	30.2
26	15-Jun-04	7:17:27	65.7	7.63	0.130	0.06	94.8	8.66	25.1
27	15-Jun-04	7:18:04	68.9	8.09	0.129	0.06	108.6	9.59	19.9
	15-Jun-04	7:18:39	72.0	8.50	0.124	0.06	116.5	9.94	15.0
	15-Jun-04	7:19:11	74.4	8.61	0.124	0.06	116.6	9.71	10.1
	15-Jun-04	7:19:36	74.9	8.57	0.124	0.06	114.6	9.48	5.1
	15-Jun-04	7:20:09	75.6	8.61	0.125	0.06	108.8	8.97	0.0

HYDROLAB QUANTA WATER MONITORING SYSTEM

WATER QUALITY SYSTEM

Ports Open: 1570 1494.5 1494.5

W.Q. Gate Setting: 1.40 ft

Jul 19 04

Lake Elev. 1578.6

FLOOD CONTROL SYSTEM

Gates Open: None

Gates Setting: 0.0 ft 0.0 ft.

PRE-MONITORING DATA

POST MONITORING DATA

Time: 0900 hrs.

Time: 1400

Air Temp. 63°

Air Temp. 77°

DOWNSTREAM GAGE DATA

Stage: 9.22

Discharge: 276.1 c.f.s.

Water Temp. 58.18°

Date Time Temp-FpH SpC-mS/cmSalin-PSSDO%-SatDO-mg/L Depth-ft

19-Jul-047:21:36	50.37.72	0.191	0.09	12.8	1.41	140.5
19-Jul-047:22:44	50.57.78	0.190	0.09	15.7	1.72	135.1
19-Jul-047:23:59	50.77.80	0.190	0.09	22.1	2.42	130.1
19-Jul-047:25:04	50.87.81	0.147	0.07	28.3	3.09	124.9
19-Jul-047:25:47	50.97.81	0.126	0.06	32.0	3.50	120.0
19-Jul-047:26:40	51.07.82	0.125	0.06	39.1	4.27	115.0
19-Jul-047:27:44	51.27.82	0.125	0.06	42.2	4.59	109.9
19-Jul-047:28:43	51.37.80	0.125	0.06	45.3	4.92	104.5
19-Jul-047:29:46	51.57.79	0.123	0.06	50.4	5.46	100.0
19-Jul-047:30:54	51.87.78	0.122	0.06	54.5	5.89	95.1
19-Jul-047:31:42	52.27.77	0.122	0.06	54.7	5.87	90.2
19-Jul-047:32:20	52.77.73	0.122	0.06	55.4	5.92	85.0
19-Jul-047:32:53	53.37.73	0.124	0.06	55.7	5.91	80.0
19-Jul-047:33:26	53.97.69	0.124	0.06	56.3	5.93	75.0
19-Jul-047:34:05	55.07.59	0.123	0.06	57.9	6.01	70.0
19-Jul-047:34:48	56.27.45	0.123	0.06	65.2	6.67	64.9
19-Jul-047:35:34	57.67.30	0.124	0.06	61.7	6.19	60.0
19-Jul-047:36:13	59.47.17	0.125	0.06	60.1	5.92	55.1
19-Jul-047:36:53	60.97.11	0.126	0.06	56.3	5.44	50.0
19-Jul-047:37:36	61.87.06	0.126	0.06	55.5	5.30	45.1
19-Jul-047:38:19	63.27.05	0.125	0.06	56.1	5.28	40.1
19-Jul-047:39:06	64.97.08	0.128	0.06	65.8	6.07	34.9
19-Jul-047:39:51	66.97.19	0.128	0.06	80.0	7.22	29.9
19-Jul-047:40:33	70.27.99	0.131	0.06	107.4	9.31	24.7
19-Jul-047:41:39	74.48.85	0.130	0.06	140.0	11.64	19.9
19-Jul-047:42:49	77.58.64	0.126	0.06	107.2	8.63	15.0
19-Jul-047:43:37	78.18.67	0.126	0.06	106.1	8.49	10.1
19-Jul-047:44:21	78.38.62	0.127	0.06	103.2	8.25	5.0
19-Jul-047:45:16	78.38.65	0.126	0.06	102.2	8.17	0.0

HYDROLAB QUANTA WATER MONITORING SYSTEM
 WATER QUALITY SYSTEM

Ports Open: 1570(3.7) 1494.5 1494.5

W.Q. Gate Setting: 1.40 ft

Aug. 3 2004

Lake Elev. 1576.4

FLOOD CONTROL SYSTEM

Gates Open: None

Gates Setting: 0.0 ft 0.0 ft.

PRE-MONITORING DATA

Time: 0800 hrs.

Air Temp. 66°

DOWNSTREAM GAGE DATA

Stage: 9.21

Discharge: 272.3 c.f.s.

Water Temp. 58.64°

POST MONITORING DATA

Time: 1145

Air Temp. 80°

Date	Time	Temp-C	Temp-F	pH	SpC-mS/cm	Salin-PSS	TDS-g/L	DO%-Sat	DO-mg/L	Circ	ORP-mV	Depth-m	Depth-ft
03-Aug-04	6:07:32		52.7	6.79		0.138	0.07	5.1	0.54	On			134.9
03-Aug-04	6:08:09		53.0	6.75		0.133	0.06	7.5	0.80	On			130.1
03-Aug-04	6:08:44		53.1	6.72		0.131	0.06	10.9	1.16	On			124.8
03-Aug-04	6:10:40		53.3	6.63		0.129	0.06	18.3	1.94	On			115.3
03-Aug-04	6:11:25		53.5	6.62		0.128	0.06	23.9	2.52	On			109.8
03-Aug-04	6:12:22		53.6	6.62		0.127	0.06	31.1	3.29	On			105.1
03-Aug-04	6:14:03		53.8	6.62		0.126	0.06	37.6	3.96	On			100.0
03-Aug-04	6:15:10		54.2	6.63		0.124	0.06	44.0	4.61	On			94.8
03-Aug-04	6:15:53		54.5	6.64		0.124	0.06	45.3	4.73	On			90.1
03-Aug-04	6:17:10		55.2	6.68		0.123	0.06	52.5	5.43	On			84.9
03-Aug-04	6:18:00		56.0	6.70		0.124	0.06	54.3	5.56	On			80.2
03-Aug-04	6:19:07		56.8	6.73		0.127	0.06	51.4	5.22	On			74.9
03-Aug-04	6:19:57		57.8	6.74		0.124	0.06	54.3	5.44	On			69.9
03-Aug-04	6:20:45		58.8	6.74		0.125	0.06	53.0	5.25	On			65.1
03-Aug-04	6:21:35		59.9	6.74		0.125	0.06	50.1	4.90	On			60.0
03-Aug-04	6:22:40		60.9	6.77		0.124	0.06	47.4	4.58	On			54.7
03-Aug-04	6:23:35		61.7	6.75		0.125	0.06	46.1	4.41	On			49.9
03-Aug-04	6:24:55		62.9	6.77		0.125	0.06	44.5	4.20	On			45.0
03-Aug-04	6:26:00		64.3	6.78		0.125	0.06	47.2	4.39	On			39.9
03-Aug-04	6:27:09		66.1	6.85		0.126	0.06	63.2	5.75	On			35.2
03-Aug-04	6:28:31		68.0	7.04		0.128	0.06	79.2	7.05	On			30.2
03-Aug-04	6:29:28		71.2	7.69		0.129	0.06	108.9	9.37	On			25.0
03-Aug-04	6:30:54		75.5	8.45		0.134	0.07	120.2	9.88	On			19.9
03-Aug-04	6:31:55		79.0	8.50		0.128	0.06	113.7	9.02	On			15.0
03-Aug-04	6:33:06		79.7	8.46		0.128	0.06	105.9	8.34	On			9.9
03-Aug-04	6:33:45		79.7	8.46		0.127	0.06	107.2	8.43	On			5.0
03-Aug-04	6:34:17		79.7	8.48		0.128	0.06	107.7	8.50	On			-0.3

HYDROLAB QUANTA WATER MONITORING SYSTEM
 WATER QUALITY SYSTEM

Ports Open: 1552(2.5)1494.5 1494.5

W.Q. Gate Setting: 1.44 ft

Aug. 17 2004
 Lake Elev.
 1574.3

FLOOD CONTROL SYSTEM

Gates Open: None

Gates Setting: 0.0 ft 0.0 ft.

PRE-MONITORING
 DATA

Time: 0800
 hrs.

Air Temp. 55°

DOWNSTREAM GAGE DATA

Stage: 9.22

Discharge: 276.1 c.f.s.

Water
 Temp. 58.46°

POST MONITORING DATA

Time: 1200
 Air
 Temp. 73°

Date	Time	Temp -C	Temp -F	pH	SpC- mS/cm	Salin- PSS	TDS -g/L	DO%- Sat	DO- mg/L	Cir c	ORP -mV	Depth -m	Depth -ft
17-Aug-04	6:50:2			7.0									
	1		55.5	7.0	0.136	0.06		4.8	0.50	On			125.1
17-Aug-04	6:50:5			7.0									
	4		55.7	7.0	0.134	0.06		6.0	0.62	On			120.2
17-Aug-04	6:51:5			7.0									
	3		56.0	7.0	0.131	0.06		12.1	1.24	On			115.0
17-Aug-04	6:53:0			7.0									
	7		56.1	7.0	0.129	0.06		18.5	1.90	On			109.8
17-Aug-04	6:54:1			7.0									
	3		56.3	7.0	0.127	0.06		26.5	2.71	On			104.9
17-Aug-04	6:55:1			7.0									
	2		56.5	7.0	0.126	0.06		30.3	3.08	On			99.8
17-Aug-04	6:55:4			7.0									
	8		56.7	6.9	0.125	0.06		34.3	3.49	On			95.1
17-Aug-04	6:56:3			6.9									
	1		57.2	6.9	0.125	0.06		34.8	3.51	On			89.7
17-Aug-04	6:57:1			6.9									
	9		57.5	6.9	0.124	0.06		33.3	3.36	On			84.8
17-Aug-04	6:57:5			6.9									
	9		58.0	6.8	0.124	0.06		33.3	3.33	On			80.2
17-Aug-04	6:58:2			6.8									
	9		58.5	6.8	0.124	0.06		34.6	3.44	On			74.8
17-Aug-04	6:59:1			6.8									
	3		58.9	6.8	0.124	0.06		32.4	3.21	On			70.5
17-Aug-04	7:00:0			6.8									
	8		59.9	6.8	0.124	0.06		33.7	3.30	On			64.9
17-Aug-04	7:01:1			6.8									
	0		60.9	6.7	0.125	0.06		36.4	3.52	On			60.1
17-Aug-04	7:02:0			6.7									
	8		61.7	6.7	0.125	0.06		35.9	3.44	On			55.0
17-Aug-04	7:02:4			6.7									
	1		62.6	6.7	0.126	0.06		34.3	3.24	On			50.1
17-Aug-04	7:03:2			6.7									
	2		63.7	6.7	0.125	0.06		32.6	3.05	On			44.8
17-Aug-04	7:04:1			6.7									
	0		65.1	6.7	0.126	0.06		36.4	3.36	On			40.0
17-Aug-04	7:05:4			6.7									
	2		67.2	6.7	0.129	0.06		43.8	3.94	On			34.9
17-Aug-04	7:07:2			6.8									
	3		69.6	6.8	0.132	0.07		54.1	4.74	On			30.2
17-Aug-04	7:08:2			7.2									
	3		73.8	7.2	0.141	0.07		80.2	6.71	On			24.9
17-Aug-04	7:09:3			8.2									
	0		75.0	8.2	0.134	0.07		96.3	7.96	On			19.9
17-Aug-04	7:10:2			8.2									
			75.2	8.2	0.134	0.07		101.2	8.34	On			15.0

	0		9						
	7:11:2		8.2						
17-Aug-04	5	76.0	4	0.134	0.07	96.7	7.90	On	10.1
	7:12:2		8.2						
17-Aug-04	2	76.1	4	0.135	0.07	98.7	8.07	On	5.1
	7:13:0		8.2						
17-Aug-04	8	76.0	8	0.134	0.07	98.5	8.05	On	0.0

HYDROLAB QUANTA WATER MONITORING SYSTEM
 WATER QUALITY SYSTEM

Ports Open: 1546 1510

W.Q. Gate Setting :0.90 ft

Oct. 5, 2004

Lake Elev. 1581.6

FLOOD CONTROL
 SYSTEM

Gates Open:
 None

Gates Setting: 0.0 ft 0.0 ft.

PRE-MONITORING DATA

Time: 0800 hrs.

Air Temp. 46°

DOWNSTREAM GAGE
 DATA

Stage: 8.92

Discharge: 175.9 c.f.s.

Water Temp. 64.40°

POST MONITORING DATA

Time:

1206

Air

Temp. 59°

Date	Time	Temp- F	pH	SpC- mS/cm	Salin- PSS	DO%- Sat	DO- mg/L	Depth- ft
05-Oct-04	6:51:12	56.7	8.24	0.188	0.09	2.1	0.22	145.7
05-Oct-04	6:51:50	57.0	8.14	0.177	0.08	1.5	0.15	140.4
05-Oct-04	6:52:15	57.3	8.11	0.172	0.08	1.4	0.14	135.1
05-Oct-04	6:52:44	57.6	8.08	0.167	0.08	1.3	0.14	130.0
05-Oct-04	6:53:10	57.8	8.04	0.161	0.08	1.3	0.13	125.0
05-Oct-04	6:53:37	58.1	8.01	0.159	0.08	1.2	0.12	119.8
05-Oct-04	6:54:04	58.4	7.97	0.153	0.07	1.2	0.12	114.9
05-Oct-04	6:54:33	58.6	7.93	0.149	0.07	1.2	0.13	109.9
05-Oct-04	6:55:01	58.9	7.87	0.144	0.07	1.2	0.12	104.8
05-Oct-04	6:55:34	59.4	7.81	0.133	0.06	1.2	0.12	99.9
05-Oct-04	6:57:39	59.8	7.71	0.130	0.06	3.3	0.32	94.9
05-Oct-04	6:58:10	60.1	7.66	0.129	0.06	5.1	0.50	90.0
05-Oct-04	6:58:39	60.7	7.65	0.128	0.06	4.9	0.47	84.9
05-Oct-04	6:59:12	61.4	7.61	0.128	0.06	3.0	0.29	79.9
05-Oct-04	6:59:49	62.0	7.58	0.129	0.06	1.4	0.14	75.1
05-Oct-04	7:00:23	62.7	7.54	0.129	0.06	1.2	0.11	70.1
05-Oct-04	7:01:09	63.5	7.56	0.131	0.06	1.2	0.11	64.8
05-Oct-04	7:03:19	64.0	7.56	0.132	0.06	1.8	0.16	59.9
05-Oct-04	7:03:48	64.3	7.53	0.135	0.07	4.2	0.36	55.0
05-Oct-04	7:04:14	64.6	7.52	0.132	0.06	3.5	0.32	50.0
05-Oct-04	7:04:35	65.2	7.50	0.140	0.07	5.7	0.60	45.0
05-Oct-04	7:05:27	65.7	7.53	0.143	0.07	16.6	1.51	39.7
05-Oct-04	7:06:11	66.3	7.55	0.146	0.07	18.9	1.71	34.9
05-Oct-04	7:06:45	67.0	7.50	0.148	0.07	8.3	0.75	30.1
05-Oct-04	7:21:35	68.0	7.40	0.152	0.07	5.8	0.51	24.8
05-Oct-04	7:22:42	69.0	7.52	0.150	0.07	40.8	3.60	20.1
05-Oct-04	7:23:35	69.3	7.76	0.148	0.07	74.2	6.51	15.2
05-Oct-04	7:24:23	69.3	7.83	0.149	0.07	75.3	6.61	9.9
05-Oct-04	7:24:55	69.3	7.84	0.149	0.07	75.4	6.63	5
05-Oct-04	7:25:21	69.3	7.85	0.149	0.07	75.7	6.65	0.1

HYDROLAB QUANTA WATER MONITORING SYSTEM

WATER QUALITY SYSTEM

Ports Open: 1546 1510

W.Q. Gate Setting: .90 ft

Nov.2,2004

Lake Elev. 1581.9

FLOOD CONTROL SYSTEM

Gates Open: None

Gates Setting: 0.0 ft 0.0 ft.

PRE-MONITORING DATA

Time: 0800 hrs.

Air Temp. 53°

DOWNSTREAM GAGE DATA

Stage:8.93

Discharge:178.9 c.f.s.

Water Temp. 60.98°

POST MONITORING DATA

Time: 1140

Air Temp. 71°

Date	Time	Temp-F	pH	SpC-mS/cm	Salin-PSS	DO%-Sat	DO-mg/L	Depth-ft
02-Nov-04	7:51:08	56.2	7.53	0.200	0.09	2.5	0.26	144.9
02-Nov-04	7:51:51	56.5	7.35	0.188	0.09	2.3	0.24	140.1
02-Nov-04	7:52:13	56.6	7.38	0.184	0.09	2.2	0.23	135.0
02-Nov-04	7:52:35	56.8	7.37	0.179	0.08	2.1	0.21	129.9
02-Nov-04	7:53:02	57.0	7.39	0.177	0.08	2.0	0.20	125.1
02-Nov-04	7:53:34	57.4	7.40	0.173	0.08	1.9	0.19	120.0
02-Nov-04	7:53:53	57.6	7.38	0.172	0.08	1.8	0.18	115.1
02-Nov-04	7:54:13	57.7	7.40	0.169	0.08	1.7	0.17	109.9
02-Nov-04	7:54:36	57.9	7.39	0.166	0.08	1.7	0.17	104.9
02-Nov-04	7:54:58	58.2	7.37	0.160	0.08	1.6	0.16	99.8
02-Nov-04	7:55:18	58.7	7.34	0.148	0.07	1.6	0.16	94.8
02-Nov-04	7:55:41	59.0	7.28	0.143	0.07	1.6	0.16	89.8
02-Nov-04	7:56:04	59.3	7.26	0.144	0.07	1.5	0.15	84.9
02-Nov-04	7:56:39	59.5	7.24	0.142	0.07	1.6	0.16	79.8
02-Nov-04	7:57:31	59.7	7.28	0.146	0.07	15.5	1.52	74.7
02-Nov-04	7:59:19	60.2	7.22	0.138	0.07	3.5	0.34	69.6
02-Nov-04	7:59:51	60.5	7.18	0.135	0.07	2.0	0.20	65.1
02-Nov-04	8:00:14	60.9	7.16	0.140	0.07	1.5	0.14	59.9
02-Nov-04	8:00:41	61.5	7.16	0.141	0.07	1.5	0.14	54.9
02-Nov-04	8:01:39	61.8	7.28	0.146	0.07	38.4	3.67	49.8
02-Nov-04	8:02:15	61.8	7.33	0.146	0.07	42.5	4.06	44.8
02-Nov-04	8:02:51	61.8	7.35	0.146	0.07	48.5	4.64	40.1
02-Nov-04	8:03:21	61.9	7.35	0.146	0.07	51.2	4.89	35.0
02-Nov-04	8:03:40	62.0	7.42	0.145	0.07	54.8	5.23	29.8
02-Nov-04	8:04:09	62.0	7.43	0.145	0.07	62.2	5.94	24.8
02-Nov-04	8:04:31	62.0	7.37	0.145	0.07	59.8	5.76	20.2
02-Nov-04	8:04:52	62.1	7.43	0.144	0.07	58.6	5.62	14.7
02-Nov-04	8:05:19	62.2	7.41	0.144	0.07	64.5	6.11	10.1
02-Nov-04	8:05:41	62.3	7.48	0.146	0.07	67.2	6.39	5.0
02-Nov-04	8:06:13	62.3	7.50	0.146	0.07	68.6	6.52	0

HYDROLAB QUANTA WATER MONITORING SYSTEM
WATER QUALITY SYSTEM

Ports Open: 1570 1564 1552 1546

W.Q. Gate Setting: 1.50 ft

Nov.16 2004

Lake Elev. 1582.1

FLOOD CONTROL SYSTEM

Gates Open: None

Gates Setting: 0.0 ft 0.0 ft.

PRE-MONITORING DATA

Time: 0800 hrs.

Air Temp. 36°

DOWNSTREAM GAGE DATA

Stage: 9.28

Discharge: 299.3 c.f.s.

Water Temp. 57.20°

POST MONITORING DATA

Time:

1116

Air Temp.44°

Date	Time	Temp-F	pH	SpC- mS/cm	Salin-PSS	DO%-Sat	DO-mg/L	Depth-ft
16-Nov-04	7:59:01	55.3	7.51	0.152	0.07	78.2	8.09	145.1
16-Nov-04	8:00:09	55.3	7.58	0.153	0.07	78.3	8.10	140.0
16-Nov-04	8:01:15	55.3	7.65	0.153	0.07	77.2	7.97	135.0
16-Nov-04	8:02:11	55.3	7.68	0.152	0.07	77.0	7.96	130.1
16-Nov-04	8:03:04	55.3	7.71	0.153	0.07	76.6	7.92	125.0
16-Nov-04	8:04:04	55.3	7.75	0.153	0.07	76.1	7.86	120.1
16-Nov-04	8:05:38	55.3	7.74	0.152	0.07	76.9	7.95	114.9
16-Nov-04	8:06:25	55.4	7.74	0.152	0.07	76.5	7.90	110.1
16-Nov-04	8:07:27	55.4	7.76	0.152	0.07	76.9	7.94	105.2
16-Nov-04	8:08:19	55.4	7.78	0.152	0.07	76.6	7.91	100.2
16-Nov-04	8:08:59	55.6	7.78	0.151	0.07	76.7	7.90	95.1
16-Nov-04	8:09:39	55.7	7.75	0.151	0.07	76.2	7.84	89.8
16-Nov-04	8:10:24	55.8	7.75	0.151	0.07	76.4	7.85	85.1
16-Nov-04	8:11:06	55.9	7.75	0.151	0.07	75.9	7.79	80.2
16-Nov-04	8:11:42	56.2	7.77	0.150	0.07	75.5	7.73	75.2
16-Nov-04	8:12:20	56.6	7.75	0.150	0.07	74.3	7.56	70.1
16-Nov-04	8:12:56	57.0	7.75	0.148	0.07	72.6	7.36	65.1
16-Nov-04	8:13:38	57.2	7.78	0.149	0.07	73.2	7.39	60.0
16-Nov-04	8:14:10	57.3	7.77	0.149	0.07	72.7	7.33	55.1
16-Nov-04	8:14:43	57.3	7.77	0.149	0.07	71.6	7.22	50.0
16-Nov-04	8:15:31	57.3	7.79	0.149	0.07	71.1	7.17	45.0
16-Nov-04	8:16:08	57.3	7.76	0.149	0.07	71.5	7.22	40.1
16-Nov-04	8:16:46	57.3	7.75	0.150	0.07	70.9	7.15	35.1
16-Nov-04	8:17:24	57.3	7.75	0.149	0.07	70.9	7.15	30.0
16-Nov-04	8:18:00	57.3	7.74	0.150	0.07	70.6	7.12	25.0
16-Nov-04	8:18:33	57.3	7.75	0.150	0.07	70.1	7.07	20.0
16-Nov-04	8:19:04	57.3	7.75	0.150	0.07	69.8	7.03	15.1
16-Nov-04	8:19:47	57.3	7.73	0.150	0.07	70.1	7.07	10.0
16-Nov-04	8:20:33	57.3	7.75	0.149	0.07	70.4	7.10	5.1
16-Nov-04	8:21:36	57.2	7.75	0.150	0.07	69.8	7.05	0.1

Appendix C Virginia State Standards for Water Quality

The Jackson River is classified as a Class ii (DGIF Class) or Class VI (State Water Control Board) waterway for Natural Trout Waters on page 105 of 9 VAC 26-260-430 by State Water Control Board September 11, 2007. These waters are useful for swimming, boating and maintenance of aquatic life.

9 VAC 26-260-60. Numerical criteria for dissolved oxygen, pH, and maximum temperature.***

CLASS	DESCRIPTION OF WATERS	DISSOLVED OXYGEN (mg/L)****		pH	Maximum Temp. (°C)
		Min.	Daily Avg.		
I	Open Ocean	5.0	--	6.0-9.0	--
II	Tidal Waters in the Chowan Basin and the Atlantic Ocean	4.0	5.0	6.0-9.0	--
II	Tidal Waters in the Chesapeake Bay and its tidal tributaries	see 9 VAC 26-260-185		6.0-9.0	
III	Nontidal Waters Coastal and Piedmont Zones	4.0	5.0	6.0-9.0	32
IV	Mountainous Zones Waters	4.0	5.0	6.0-9.0	31
V	Stockable Trout Waters	5.0	6.0	6.0-9.0	21
VI	Natural Trout Waters	6.0	7.0	6.0-9.0	20
VII	Swamp Waters	"	"	4.3-9.0*	**

*This classification recognizes that the natural quality of these waters may fall outside of the ranges for D.O. and pH set forth above as water quality criteria; therefore, on a case-by-case basis, criteria for specific Class VII waters can be developed which reflect the natural quality of the waterbody. Virginia Pollutant Discharge Elimination System limitations in Class VII waters shall meet pH of 6.0 - 9.0.

**Maximum temperature will be the same as that for Classes I through VI waters as appropriate.

***The water quality criteria in this section do not apply below the lowest flow averaged arithmetic mean over a period of seven consecutive days that can be statistically expected to occur once every 10 climatic years (a climatic year begins

April 1 and ends March 31.)

****See 9 VAC 26-260-55 for implementation of these criteria in waters naturally low in dissolved oxygen.

***** For a thermally stratified man-made lake or reservoir in Class III, IV, V or VI waters that are listed in 9 VAC 26-260-187, these dissolved oxygen criteria apply only to the epilimnion in the lacustrine portion of the water body. When these waters are not stratified, the dissolved oxygen criteria apply throughout the water column.

DGIF STREAM CLASS DESCRIPTIONS.

Wild natural trout streams.

Class i. Stream of outstanding natural beauty possessing wilderness or at least remote characteristics, an abundance of large deep pools, and excellent fish cover. Substrate is variable with an abundance of coarse gravel and rubble. Stream contains a good population of wild trout or has the potential for such. Would be considered an exceptional wild trout stream.

Class ii. Stream contains a good wild trout population or the potential for one but is lacking in aesthetic quality, productivity, and/or in some structural characteristic. Stream maintains good water quality and temperature, maintains at least a fair summer flow, and adjacent land is not extensively developed. Stream would be considered a good wild trout stream and would represent a major portion of Virginia's wild trout waters.

Chlorophyll and total phosphorous in Lake Moomaw are limited to 10 ug/l per 9 VA 25-260-187.