

Lake Water Quality 2006 Annual Report

Bayfield County
Waterbody Number:

Lake Type:
DNR Region: NO
GEO Region: NW

Site Name	Storet #
DIAMOND LAKE - DEEP HOLE-SOUTH	043126

Date	SD (ft)	SD (m)	Hit Bottom	CHL (SD)	TP (CHL)	TSI (SD)	TSI (CHL)	TSI (TP)	Lake Level	Clarity	Color	Perception
05/23/2006	14.5	4.4	N			41	39	57	HIGH	CLEAR	GREEN	2
06/14/2006	15.5	4.7	N	1.6	8	38	38	44	NORMAL	CLEAR	GREEN	2
07/04/2006	15.5	4.7	N			38			LOW	CLEAR	GREEN	2
07/12/2006	15.5	4.7	N			38			LOW	CLEAR	GREEN	2
07/20/2006	15.5	4.7	N			38			LOW	CLEAR	GREEN	2
07/25/2006	15	4.6	N	1.9	14	38	40	49	LOW	CLEAR	GREEN	2
08/21/2006	15.5	4.7	N			38			NORMAL	CLEAR		2
08/23/2006	15.5	4.7	N	2.41	11	38	41	47	NORMAL	CLEAR	GREEN	2
09/06/2006	15	4.6	N			38			LOW	CLEAR	GREEN	2

05/23/2006		
Depth	Temp.	D.O.
FEET	DEG C	mg/l
0	14	9.99
5	13.6	10.09
10	12.8	10.16
15	12.2	10.17
20	11.9	10.12
25	11	9.76
30	9.6	9.1
35	8.7	8.48
40	7.7	7.9
45	7	7.39
50	6.8	7.23
55	6.6	7.15
60	6.3	7.01
65	6.1	6.66
70	6	6.3
75	5.9	4.22

06/14/2006		
Depth	Temp.	D.O.
FEET	DEG C	mg/l
0	20.8	8.52
5	20.4	8.5
10	20.2	8.49
15	19.4	8.48
20	13.6	10.05
25	11.3	9.27
30	9.8	8.19
35	8.3	7.03
40	7.8	6.8
45	7.5	6.71
50	7	6.42
55	6.9	6.16
60	6.7	5.83
65	6.5	5.45
70	6.3	4.91
75	6.1	4.33
80	6	3

07/25/2006		
Depth	Temp.	D.O.
FEET	DEG C	mg/l
0	24.9	7.68
5	24.9	7.67
10	24.8	7.65
15	24.3	7.68
20	20.9	8.95
25	12.7	9.93
30	10.1	7.26
35	8.9	5.27
40	8.3	4.62
45	7.7	4.59
50	7.3	4.77
55	7	4.15
60	6.8	3.54
65	6.6	2.92
70	6.5	2.5
75	6.4	1.93

08/23/2006		
Depth	Temp.	D.O.
FEET	DEG C	mg/l
0	0	0
5	22.9	7.56
10	22.9	7.56
15	22.8	7.54
20	22.3	7.35
25	16.5	8.23
30	11.5	6.38
35	9.1	3.8
40	8.3	3.5
45	7.5	3.6
50	7.4	3.22
55	7.1	2.7
60	6.9	2.16
65	6.7	1.8
70	6.7	1.41
75	6.6	1

Date	Collector Comments
05/23/2006	breezy- slight haze
06/14/2006	sunny- breezy
07/04/2006	sunny- light clouds
07/12/2006	sunny- light clouds
07/20/2006	sunny- light clouds- lake very low
08/21/2006	sunny- light clouds
09/06/2006	sunny- slight breeze- low water level

Date	Data Collectors	Project
05/23/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
06/14/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
07/04/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
07/12/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
07/20/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
07/25/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
08/21/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
08/23/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH
09/06/2006	Larry Sanderson	CLMN AT DIAMOND LAKE; DEEP HOLE-SOUTH

SD = Secchi depth measured in feet converted to meters; Chl = Chlorophyll a in micrograms per liter(ug/l); TP = Total phosphorus in ug/l, surface sample only; TSI(SD), TSI(CHL), TSI(TP) = Trophic state index based on SD, CHL, TP respectively; Depth measured in feet.

Wisconsin Department of Natural Resources Wisconsin Lakes Partnership

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