

LAKE: CLARK COVE P (VLMP 15)
 TOWN: SOUTH BRISTOL
 COUNTY: LINCOLN

MIDAS: 35
 TRUE BASIN: 1
 SAMPLE STATION: 1

WHOLE LAKE INFORMATION

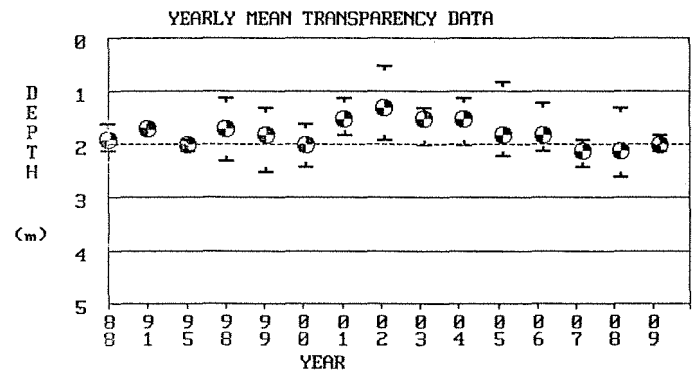
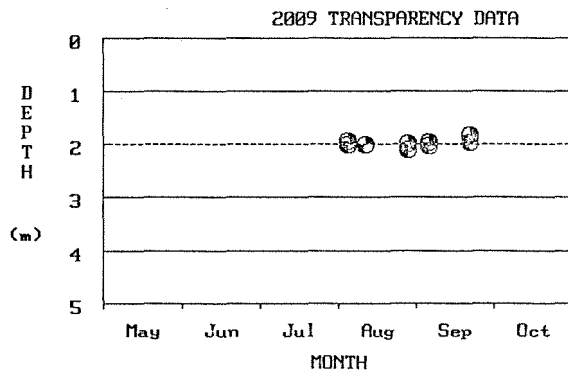
MAX. DEPTH: 3 m. (11 ft.)
 MEAN DEPTH: 2 m. (5 ft.)
 DELORME ATLAS #: 07
 USGS QUAD: BRISTOL
 IFW REGION B: Belgrade Lakes (Augusta)
 IFW FISH. MANAGMENT: None

TRUE BASIN CHARACTERISTICS

SURFACE AREA: ~12.0 ha. (29.7 a.)
 FLUSHING RATE: ~26.92 flushes/yr.
 VOLUME: ~138414.4 cu. m. (112 ac.-ft.)
 DIRECT DRAINAGE AREA: ~6.24 sq. km. (2.41 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. CLARK COVE P has 1 True Basin.

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2009 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A (ppb)			TROPHIC STATE INDICES			
	(SPU)		(mg/l)	(uS /cm)	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	EPI PHOS			
					CORE	GRAB	GRAB	GRAB								C	G	SEC	CHL
1988	-	-	-	-	-	-	-	-	1.6	1.9	2.1	6	3.3	3.3	3.3	-	-	-	-
1991	90	6.32	8.0	310	-	22	-	-	1.7	1.7	1.7	1	3.0	3.0	3.0	-	-	-	-
1995	-	-	-	-	-	-	-	-	1.9	2.0	2.1	3	-	-	-	-	-	-	-
1998	-	-	-	-	-	-	-	-	1.1	1.7	2.3	6	-	-	-	-	-	-	-
1999	55	-	11.5	197	49	-	-	-	1.3	1.8	2.5	5	13.0	13.0	13.0	-	-	-	-
2000	-	-	-	-	-	-	-	-	1.6	2.0	2.4	6	-	-	-	-	-	-	-
2001	131	6.96	6.0	76	-	-	-	-	1.1	1.5	1.8	6	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-	-	0.5	1.3	1.9	5	-	-	-	-	-	-	-
2003	82	-	13.0	75	-	-	62	-	1.3	1.5	2.0	5	5.7	5.9	6.1	-	-	-	-
2004	-	-	-	-	-	-	-	-	1.1	1.5	2.0	6	-	-	-	-	-	-	-
2005	-	-	-	-	-	-	-	-	0.8	1.8	2.2	6	-	-	-	-	-	-	-
2006	-	-	-	-	-	-	-	-	1.2	1.8	2.1	6	-	-	-	-	-	-	-
2007	90	6.96	9.0	100	-	25	-	-	1.9	2.1	2.4	5	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	1.3	2.1	2.6	6	-	-	-	-	-	-	-
2009	-	-	-	-	-	-	-	-	1.8	2.0	2.1	2	-	-	-	-	-	-	-

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YEAR	MEAN	MEAN	MEAN	MEAN	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	COLOR	pH	ALK	COND.	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
	(SPU)		(mg/l)	(uS	/cm)	CORE	GRAB	GRAB	GRAB										
SUMMARY:	89	6.63	9.5	152	49	24	62	-	0.5	1.8	2.6	15	3.0	6.3	13.0	-	-	-	-

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE									
	08/22/88		08/27/91		08/12/99		08/23/01		08/18/03	
m	°C	pdm	°C	pdm	°C	pdm	°C	pdm	°C	pdm
0.0	16.0	6.7	20.8	7.1	24.7	8.1	23.5	6.0	27.2	6.5
1.0	16.0	7.0	20.0	7.0	22.0	7.0	22.5	5.8	24.8	6.4
2.0	14.0	0.4	20.9	0.2	20.8	3.8	20.0	0.2	19.9	0.1
3.0	12.0	0.2	-	-	14.7	0.9	13.0	0.2	14.2	0.1

WATER QUALITY SUMMARY

CLARK COVE POND, South Bristol

Midas: 0035, Basin 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate present water quality, track algae blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Clark Cove Pond have been collected sporadically since 1988. During this 17 year period, 3 years of basic chemical information was collected, in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Clark Cove Pond is considered to be below average, based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Clark Cove Pond is high.

Water Quality Measures: Clark Cove Pond is a colored lake (average color 89 SPU) with an average SDT of 1.7m (5.8ft). Colored lakes have low SDT readings, caused by the lack of light penetration due to the high color. Water column TP for Clark Cove Pond is approximately 17 ppb, and Chla is 6.3 ppb, which are considered moderate. Recent dissolved oxygen (DO) profiles show low to moderate DO depletion in the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is moderate to high.

Although the water quality of Clark Cove Pond is below average for a Maine lake, it is average for a small, shallow, highly colored pond. High conductivity levels (197 uS/cm) indicate that the lake is influenced by salt spray, a condition common to coastal ponds.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the World Wide Web at <http://www.pearl.maine.edu> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: CLAR0035, Revised: 3/06, By: JP