Shore Survey Summary Data 2006-2008

	Melissa	Sallie	Long	Wine	Sand	Big Det	Lit Det	Curfman	Glawe	Muskrat	Mill	Loon
	2008	2008	2007	2008	2006	2008	2008*	2007	2006	2007	2007	2006
Disturbance												
Natural	8	19		2	7	15		7	10	12	38	4
Minimal	17	16		2	2	8		16	4	5	11	4
Moderate	19	12		0	1	68		2	0	7	1	0
Great	338	176		0	0	227		0	0	2	5	0
Shore features												
wetland	0	1		0	0	0		0	0	0	0	0
emergent	11	0		0	8	94		25	12	27	6	6
bulrush	9	9		0	6	5		5	0	0	4	4
steep slopes	16	28		4	0	56		0	2	0	1	1
Restoration	1	1		0	0	0		0	0	0	0	0
SIZ structures												
boat hse	14	3		0	0	22		0	0	0	0	0
storage	12	19		0	1	15		0	0	0	0	0
boat launch	4	2		1	0	5		9	0	0	0	0
screen porch		0		0	0	0		0	0	0	0	0
deck	10	9		0	0	12		10	0	0	1	0
deck w/roof		0		0	0	0		5	0	0	0	0
paved area	3	7		0	0	3		0	0	0	0	0
residence struct	21	21		0	1	2		0	6	7	6	0
other struct	1	1		0	0	1		0	0	1	1	0
SIZ other												
rip-rap	160	131		0	0	128		3	0	0	3	0
sand blanket	191	58		0	0	107		7	0	0	0	0
retaining wall	57	19		0	0	56		0	0	0	0	0
Docks,boats												
docks	290	187		1	1	282		13	6	9	12	5
rafts	9	4		0	0	12		1	0	0	0	0
lift w/cover	113	86		0	1	207		5	0	4	3	0
lift w/o cover	171	199		0	0	182		1	0	0	2	1
PWC (jet ski)	53	201		0	0	79		0	0	0	0	1
Other motorized	191	49		0	2	319		3	0	4	4	7
non-motorized	74	42		0	0	76		3	0	1	4	0
weed roller	4	3		0	0	15		0	0	0	0	0

*Pictures only for Long and Little Detroit

arcels	502	227	207	4	57	329	260	29	24	39	61	69
el Length	36099	30172	36815	5383	11670	42594	25245	3922	4913	11361	15999	14428
rface Acres	1820	1260	407	34	90	2076	940	111	31	62	159	191
ine Length	38280	29300	32000	5120	9507	40900	25295	9239	4717	8982	18615	13755
t frontage	72	133	178	1346	205	129	97	135	205	291	262	209
ocks & Lifts	583	476		1	2	683		20	6	13	17	6
0 shoreline ft	1.6	1.6		0.0	0.0	1.6		0.5	0.1	0.1	0.1	0.0
al Boats	318	292		0	2	474		6	0	5	8	8
Surface Acres	1.7	2.3			0.2	2.3		0.5		0.8	0.5	0.4
ures in SIZ	65	62		1	2	60		24	6	8	8	0
atly disturbed	67%	78%		0%	0%	69%		0%	0%	5%	8%	0%
vith rip/rap	32%	58%		0%	0%	39%		10%	0%	0%	5%	0%
n sandblanket	38%	26%		0%	0%	33%		24%	0%	0%	0%	0%

The District's Shoreline Monitoring Program

The PRWD Managers are committed to obtaining sufficient data to characterize water quality and to ascertain those factors which influence water quality. Such information is used by Managers to make management choices about protecting or improving water quality, and to evaluate the outcomes of these choices.

One component of the District's monitoring program is to ascertain shoreline conditions around district lakes. Shoreline conditions are known to be influential in lake water quality, and are taken into account in preparing lake management plans. Information from shoreline surveys is also used in connection with implementing the District's water management rules concerning shore impact zone developments.

The District's *Shoreline Survey* approach has evolved since 1997 when data were obtained for a dozen of the main District lakes. Several more lakes were surveyed in 1998, and re-surveys of some took place in 2001 and 2003. In 2004 photography of shoreline properties became part of the survey protocol, and since 2006 the photos have been hyperlinked to taxpayer ID numbers contained in the surveys.

The data obtained by these surveys are not strictly comparable over time. In the earlier surveys, observers were asked to make judgments about certain shoreline conditions – amount of land alteration, and lake-bottom disturbance as examples; while this approach produced valid comparative results in a single survey year, changes in personnel in subsequent years reduced the validity of year-to-year comparisons. Later the emphasis was placed on more objective measures, the presence or absence of rip-rap or docks, and other structures in the shore impact zone.

Dick Hecock
September 18, 2008