

Water Samples for Veliger Enumeration at Lake Mead National Recreation Area July 2007

This is a summary of the results of water samples that were assessed for veliger enumeration by the US Bureau of Reclamation in July 2007 at Lake Mead National Recreation Area. The samples were collected from Sandy Point, Echo Bay, Temple Bar, and Hoover Dam, Placer Cove, Cottonwood Cove, Katherine Landing, and Willow Beach.

Results:

Location		Collection Date	Sample type	Total sample volume (liters)	Veliger count (average/liter)	Veliger change since June 2007
Sandy Point		July 16	4 x 30m plankton tow	2,120.6	0.2	-0.3
Echo Bay		July 18	4 x 30m plankton tow	2,120.6	0.1	-0.1
Temple Bar		July 18	4 x 30m plankton tow	2,120.6	0.2	-0.5
Hoover Dam	<i>Deep tow</i>	July 17	2 x 30m plankton tow	1,060.3	126.0	+97.3
	<i>Shallow tow</i>	July 17	6 x 10m plankton tow	1,060.3	36.5	+32.8
Willow Beach		July 18	1 x 60m horizontal tow	1,060.3	28.0	-7.9
Placer Cove		July 18	4 x 15m vertical tow	1,060.3	32.8	+7.9
Cottonwood Cove		July 17	2 x 30m plankton tow	1,060.3	22.7	+3.4
Katherine Landing		July 17	2 x 30m plankton tow	1,060.3	>462	+421.7

All samples were generally clear and contained some algae, a few organisms, and numerous cells that were either ostracods or veligers. This veliger count only reflects the positively identified veligers and questionable cells were not included in the count.