

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

This is a summary of the results of water samples that were assessed for veliger enumeration by the US Bureau of Reclamation in August 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:

| <b>Location</b>   |                    | <b>Collection Date</b> | <b>Sample type</b>     | <b>Total sample volume (liters)</b> | <b>Veliger count (average/liter)</b> | <b>Veliger change since June 2007</b> |
|-------------------|--------------------|------------------------|------------------------|-------------------------------------|--------------------------------------|---------------------------------------|
| Sandy Point       |                    | August 16              | 4 x 30m plankton tow   | 2,120.6                             | 0.05                                 | -0.15                                 |
| Echo Bay          |                    | August 15              | 4 x 30m plankton tow   | 2,120.6                             | 1.2                                  | +1.1                                  |
| Temple Bar        |                    | August 16              | 4 x 30m plankton tow   | 2,120.6                             | 2.4                                  | +2.2                                  |
| Hoover Dam        | <i>Deep tow</i>    | August 14              | 2 x 30m plankton tow   | 1,060.3                             | 9.6                                  | -116.4                                |
|                   | <i>Shallow tow</i> | August 14              | 6 x 10m plankton tow   | 1,060.3                             | 3.3                                  | -33.2                                 |
| Willow Beach      |                    | August 15              | 1 x 60m horizontal tow | 1,060.3                             | 2.8                                  | -25.2                                 |
| Placer Cove       |                    | August 15              | 4 x 15m vertical tow   | 1,060.3                             | 3.0                                  | -29.8                                 |
| Cottonwood Cove   |                    | August 14              | 2 x 30m plankton tow   | 1,060.3                             | 0.0                                  | -22.7                                 |
| Katherine Landing |                    | August 14              | 2 x 30m plankton tow   | 1,060.3                             | >462                                 | No change                             |

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.