



# On-Site Lake Evaluation Record

Lake Name: Budd Lake

County: Clare

Evaluated by: Salvatore Adams

Reviewed by: Bre Grabill

Date: October 2017

Purpose of evaluation: Biobase Mapping

## SUMMARY

Budd Lake was surveyed in October 2017 in order to collect new bathymetric and vegetation data of the waterbody. Using the Biobase technology; data was collected in order to produce precise depth data of the lake. In addition to the bathymetric map, bottom composition and vegetation composition data was collected. These maps and survey results are attached. Budd was surveyed at 183 acres and a water volume of 2297 acre ft.

### Budd Lake

Generated: 10/18/2017 1:20:22 PM (UTC)

Waterbody Size: 74,18 ha (183,31 acres)

[report link](#)



<b>Data Collector</b>	Bre Grabill
<b>Data Collection Date</b>	10/9/2017 8:04:05 PM (UTC)
<b>Average Water Temperature</b>	18,77° C (65,79° F)
<b>Location</b>	Start: 44,01621612, -84,78828581 End: 44,02063661, -84,79159371

<b>Survey Size</b>	Area: 74,06 ha (183,01 acres)
	Percent: 99,84% of waterbody
	Volume: 2634038,99 cu. m (2297,60 acre ft)
<b>Est. Waterbody Volume</b>	2638658,38 cu. m (2301,34 acre ft)

<b>Settings</b>	Track Buffer: 40 m
	Grid Cell Size: 8,0 m
	Min. BV Detect: 5%
	Min. Veg Depth Detect: 0,73 m

To see a more detailed report of Budd Lake follow this link-  
<http://www.cibiobase.com/Trip/CreateReportDownload?t=652549&c=61856>

## Summary of Maps/Survey:

**Bathymetric Map:** The deepest spot on Budd is about 32'. Budd Lake is 183 acres and has a volume of 2297 acre feet. The map shows depth going from light blue (more shallow) to dark blue (deepest point).

**Bottom hardness/composition Map:** Red/Brown Maps showing the hardness of the bottom of Budd Lake. Red indicates hard bottom (sand, rock and/or gravel) while light brown indicates soft bottom (muck). Lighter red/darker brown colors are indicative of medium values including clay or a thin layer of muck over hard bottom. Budd has mostly a hard outside perimeter on the main part of the lake with a soft bottom in the coves. There are a few softer areas along the outside, but a majority of the littoral zone is hard bottom.



## PLM Lake & Land Management Corp.

### Northern Division

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**Vegetation Map:** Blue/Green to Red Maps showing vegetation density of Budd Lake. The blue area is indicative of little to no plant coverage. On Budd Lake, a majority of the lake shows very little vegetation. The green color is shaded from dark (few plants) to light green (plants dominate in this area) to yellow and then orange, light red and dark red being 100% density in entire water column (bottom to top). There are areas along the shoreline that have high density plants.

Please feel free to contact me with questions on your maps and survey results of Budd Lake. Thank you for choosing to work with PLM on this project!

Respectfully,

A handwritten signature in cursive script that reads "BreAnne Grabill".

BreAnne Grabill, Environmental Scientist  
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