



Moss Landing Marine Laboratories

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HIGH-RESOLUTION, TOPOGRAPHIC SURVEY OF THE LOS PADRES RESERVOIR

Proposed Work

Dr. Ivano Aiello, Geological Oceanographer at the Moss Landing Marine Laboratories (MLML) proposes to provide a high-resolution, topographic model of the perimeter of the Los Padres Reservoir to the Monterey Peninsula Water Management District.

The survey area will include the slope of the embankment and the spillway, the walls on both sides of the reservoir's axis, and the upstream length of the Carmel River inundated by the reservoir's water.

Project Period

Field surveys will occur between October 21st and February 23rd, and survey data post-processing, data analysis and the report will be completed by March 23rd.

Project Deliverables

Detailed (scale 1:500 and larger), topographic maps of the reservoir's perimeter showing the location of the topographic stations and back-sights points used for the survey. The maps will be provided also as electronic files in a format compatible with most Geographic Information Systems (GIS).

A brief report will introduce site background, will explain the methods used in the field, the accuracy/resolution of the surveys, and will illustrate the methods used for post-processing the topographic data and the main results of the survey.

Budget

A total of \$16,000 is estimated to conduct the proposed work.

Personnel, including wages, benefits and overheads	\$14,000
Survey expendables	\$1,000
Travel costs	\$1,000

The budget was estimated presuming that:

Nine topographic base stations will be used for the survey.

A total of approximately eight days of field survey.

Reasonable access to base stations and backsights.

Survey points accuracy <1 cm and resolution 1 to 0.1 points per square meter.

Sincerely,
Ivano W. Aiello