

*Submitted by staff
under item 2*

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August 11, 2014

Mr. Larry Hampson
District Engineer
Monterey Peninsula Water Management District
5 Harris Court, Building G
Monterey, CA 93940

RE: Carmel River Thalweg Profile Survey

Dear Larry,

The purpose of this letter is to review and summarize our discussions and emails regarding the above referenced survey project and to propose surveying services that would meet the needs of the District.

Central Coast Surveyors has recently obtained a set of GPS survey hardware which, when applied to applications such as overhanging riparian vegetation on riverbeds, represents a significant improvement in data collection capability. This is due largely to inclusion of the GLONASS constellation of satellites into the position solution. We have also obtained a laser range-finder with clinometer and azimuth output capability, which, when combined with the new GPS hardware, allows for real-time mapping of "hidden points" such as many of those defining the Thalweg.

Based on previous survey budgets, both for Central Coast Surveyors directly and as subconsultants to GMA Hydrology, and adjusting for inflation and the proposed methodologies, an estimated cost per mile of \$2,800 might be reasonable. We would obviously know more after the first mile or so. At this rate, we would expect to map from the mouth to about Robinson Canyon Bridge, possibly further, within the current budget allocation.

Should you have any questions, please contact me directly. I look forward to working with you on this project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Dave Edson", with a horizontal line extending to the right.

Dave Edson, PLS 4974