

MEMORANDUM

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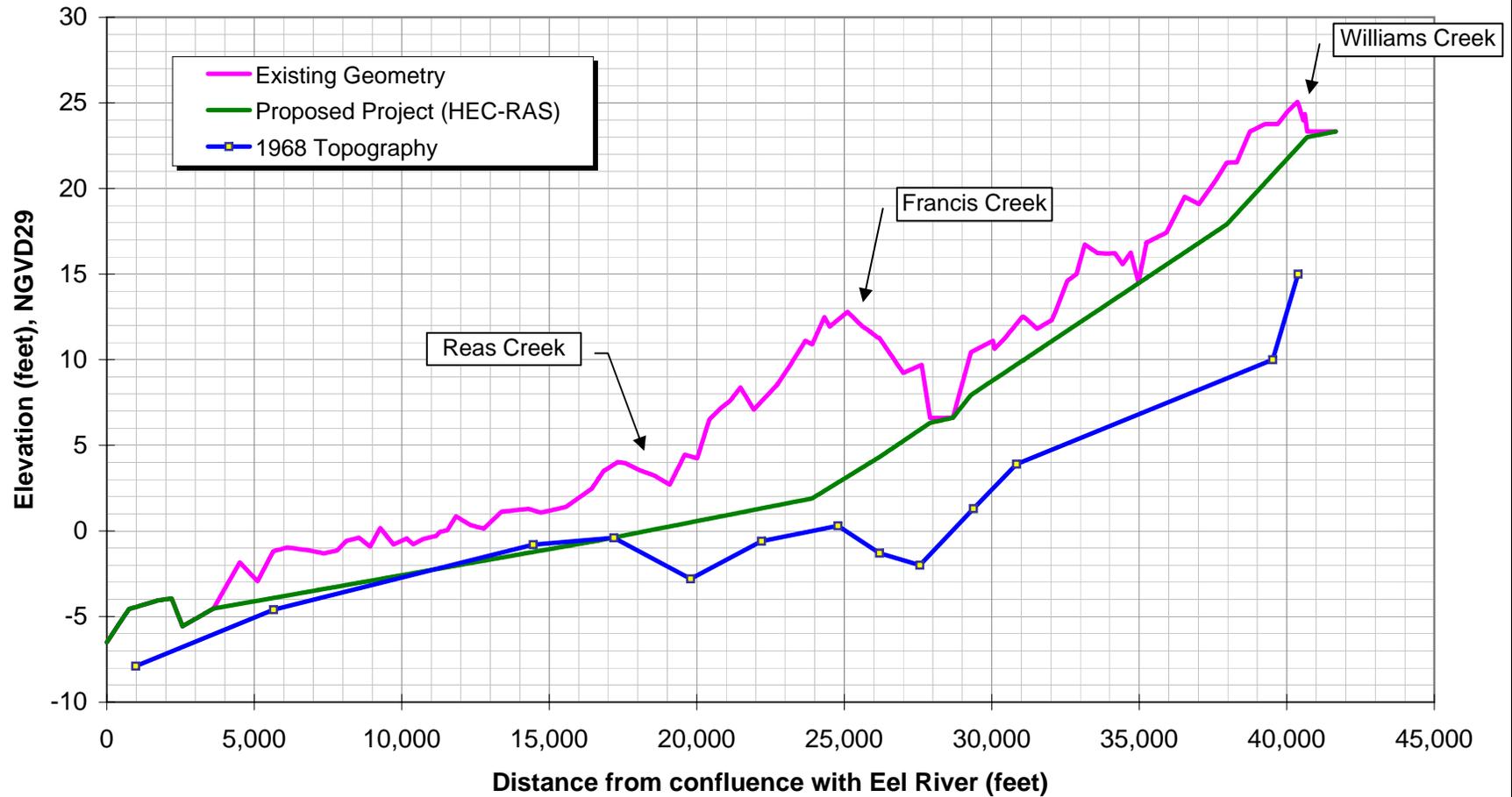
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Date: August 14, 2007
To: SRAG Technical Group
From: Shawn Higgins and Greg Kamman
Subject: Salt River longitudinal profile

During review of existing data sources for the Salt River Ecosystem Restoration Project Kamman Hydrology & Engineering, Inc. (KHE) digitized survey information from a 1968 U.S. Army Corps of Engineers topographic map series of the Eel River Delta. The series included 12 cross sectional profiles of the Salt River. Two additional data points were digitized upstream of the cross sections (vicinity of Williams Creek) where the 10- and 15-foot contour lines intersected the channel alignment. A longitudinal profile of the Salt River was then constructed from these data and compared to the longitudinal profiles of the existing (2005 survey by Spencer Engineering) and proposed project channel geometries in the HEC-RAS model for the Salt River system. The attached figure illustrates the relative differences between the three profiles. Extracting the difference between the 1968 channel and the existing channel reveals a range of 5 to 15 feet of aggradation upstream of the confluence with Reas Creek and slightly less downstream.



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& Engineering, Inc.



Longitudinal Profiles of the Salt River Channel, Humboldt County, California