

Attachment 1: Justification for choice of consultants for a single source contract

If the District chooses to pursue Proposition 1 funding through the Water Storage Investment Program, it will need the assistance of a qualified consulting firm because staff does not have the expertise or the staff availability required to prepare a comprehensive and compelling Proposition 1 application within the shortened time available. To address these time and resource limitations, staff recommends moving forward with a single source contract with a reputable consulting firm that is knowledgeable about the Proposition 1 funding application requirements and has experience with both proposed reservoir expansion projects. If negotiations with the best candidate for a single source contract are not successful, then staff has identified fallback consultants to provide for negotiations with a second choice and, if necessary, a third-choice candidate.

Justification for contracting with MWH

Review of Consultant firms for Proposition 1 Application and Reservoir expansion

Staff considered 6 firms' qualifications and expertise: 1) Montgomery Watson Harza (MWH) 2) CH2M Hill; 3) AECOM; 4) Black & Veatch; 5) CDM Smith and 6) Parsons. The firms were evaluated based on the following criteria: (a) knowledge of Proposition 1 application process, (b) expertise in planning and design of earth dams, (c) ability to complete feasibility studies and environmental documents that comply with State of California regulations, (d) CalSim modeling capability and (f) past experience and knowledge of Pacheco Reservoir and Anderson reservoir.

Staff's assessment is that MWH satisfies all of the requirements and is therefore is the highest ranked consultant, given the criteria assessed. MWD has extensive knowledge of the Prop 1 funding application process, is able to perform all of the necessary technical analyses, and has previous experience on both Anderson and Pacheco reservoirs. MWD's previous experience evaluating an enlarged Pacheco Reservoir and Anderson Reservoir is critical given the short time frame available to complete the application. Additional detail regarding MWH's qualifications are described below.

Staff's assessment is that CH2M Hill and AECOM are the second and third ranked consultants (see table below).

Firm	Experience						Rank
	Large Earth Dams	NEPA/CEQA Environmental	Prop 1 Application	Delta System Modeling	Anderson Dam	Pacheco Dam	
MWH	x	x	x	x	x	x	1
CH2M Hill	x	x	x	x			2
AECOM	x	x	xx				3
Black & Veatch	x	x			x		4
CDM Smith	x	x				x	5
Parsons	x	x					6

MWH's Proposition 1 Application Expertise:

MWH has been involved with the development of Proposition 1 guidelines since 2009 and is currently developing a Proposition 1 funding application for the Temperance Flat storage project. For the Los Vaqueros Reservoir expansion, MWH is assisting Contra Costa Water District with the Proposition 1 funding application. For Sites Reservoir, MWH is acting in a review and advisory role. MWH's immediate familiarity with the Proposition 1 requirements will enable it to prepare an application for enlargement of either Pacheco Reservoir or Anderson Reservoir, which would provide significant time savings and could be more cost effective than using another consultant with less familiarity. District staff will work closely with the Office of the District Counsel to ensure adequate language is provided in the contractual language to avoid conflict of interest with other Proposition 1 applicants.

MWH's experience evaluating Pacheco Reservoir expansion:

MWH previously performed research, geotechnical analysis, cost estimates, and modeling specifically for an enlarged Pacheco Reservoir. The District awarded a contract to MWH in 1999, through a competitive bid process, to prepare a feasibility study for the SLLPIP. The 2002 feasibility study was completed with approximately \$3M of work performed by MWH under a grant from Department of Water Resources (DWR) that evaluated a wide range of alternatives, including multiple enlargement options for Pacheco Reservoir that would allow for greater water storage for the District to avoid low-point conditions in San Luis Reservoir. This effort was used by the US Bureau of Reclamation (Reclamation) to prepare draft environmental documents, including several versions of a draft EIR/EIS. Staff understands that some of the key technical staff involved in the 2002 feasibility study, which includes the Pacheco Reservoir evaluation, are still employed by MWH and would be available to assist in the preparation of a Proposition 1 application.

MWH's experience evaluating Anderson Reservoir expansion:

MWH also previously researched an enlarged Anderson Reservoir as part of the 2002 feasibility study for the SLLPIP. To avoid low-point conditions in San Luis Reservoir, MWH looked at the alternative of raising Anderson Dam by 35 feet, which would increase storage capacity by 100 TAF. MWH's analysis included proposed dam modifications, conveyance system constraints, land purchase requirements, constructability issues (landslide and seismic), environmental effects, permitting and compliance requirements, cost estimates, an estimated project schedule, as well as project benefits and risks. Staff understands that some of the key technical staff involved in the 2002 feasibility study, which includes the Anderson Reservoir evaluation, are still employed by MWH and would be available to assist in the preparation of a Proposition 1 application.

MWH's expertise in Planning and Design of Dams and Reservoirs:

MWH has completed the planning and design of nearly 100 reservoir projects across the United States that are of similar scope and complexity to Anderson and Pacheco Reservoir enlargements. The firm has specialized expertise in embankment and concrete dams, and provide comprehensive services for geotechnical and structural

engineering, geology, hydrology, hydraulics, electrical, and mechanical equipment. MWH has centers of expertise for dam design in Walnut Creek, Chicago, Denver, and Belleville. It is expected that the MWH Walnut Creek and Sacramento offices will assist the District during this effort.

MWH's California Reservoir Feasibility Study Experience:

MWH has experience in preparing feasibility reports and associated NEPA and CEQA documents for new or enlarged reservoirs in California, including the enlargements of Shasta Lake, Los Vaqueros Reservoir, and Temperance Flat Reservoir. These feasibility studies involved multiple-purpose alternatives formulation and evaluation, including cost estimates and extensive numerical analysis. MWH also has expertise in the development and application of models that may be necessary to complete a Proposition 1 application, including CALSIM and other numerical models to evaluate hydraulics, reservoir and river water temperature and water quality, fishery and other ecosystem conditions, hydropower generation and energy use, recreation, flood operations, groundwater, and economics; all relevant components of the Proposition 1 Application.