



LESLIE MOULTON

Director, ESA Water Group

Ms. Moulton, Director of ESA Water, has over 20 years of program management and technical assessment experience on a wide range of water resource and wastewater management programs. She has expertise in CEQA, NEPA, and regulatory compliance relevant to biological and water resources as well. Ms. Moulton directs environmental resource and impact assessments, public education and involvement programs, mitigation compliance monitoring, and permit assistance. She manages large, complex, multi-year and multi-service contracts, including oversight of multiple subconsultant firms. Ms. Moulton routinely coordinates with client and outside legal counsel on the more complex and controversial CEQA and water rights programs and has had three major water project EIRs legally challenged and successfully and fully upheld.

Relevant Experience

Education

B.A., Human Biology
(Environmental Planning and
Marine / Estuarine Science
Emphasis), Stanford
University

Professional Affiliations

Association of Environmental
Professionals

Water Environment
Federation

California Water Environment
Association

WaterReuse Association

Orange County Water District (OCWD) Santa Ana River Water Rights Application EIR. *Project Director.* Directed preparation of OCWD's PEIR for its application to the SWRCB to appropriate Santa Ana River Water. OCWD is requesting rights to divert up to 505,000 AFY. Directed the analysis of a complex set of water rights and diversion actions, water management program elements and specific facilities. The PEIR evaluates construction impacts of new recharge basins, assesses river flow trends, and identifies sensitive biological resources within each stretch of the river downstream of Prado Dam.

Pajaro Valley Water Management Agency's Basin Management Plan 2000 EIR/EIS. *Project Director.* Coordinated with USBR as the NEPA lead agency as well as several regulatory agencies: USFWS, NMFS, RWQCB, and CDFG. This plan addresses two alternative programs for long-term supplemental water supply development and management. Both alternatives involve an expanded conjunctive groundwater and surface water program, increased water recycling and water conservation elements. One alternative includes connection of the Valley to the federal Central Valley Project system to allow water transfers with other CVP contractors; the other alternative focuses on local development of supplies, through surface water diversions and groundwater recharge. Previously ESA completed a separate EIR on several local supply projects that are now being implemented.

City of Stockton Delta Water Supply Project Feasibility Study, EIR, and Permitting. *Project Manager.* ESA supported the City of Stockton in the development, feasibility assessment, CEQA EIR, and permitting for the Delta Water Supply Project. The project involves construction of a new delta water intake, transmission pipelines from the Delta inland to a new treatment plant, and new distribution pipelines to connect to the cities water system. The new surface water supply will be operated conjunctively with Stockton's existing groundwater resources - allowing for in-lieu recharge and expanded conjunctive use operations. Phase one of the project will serve Stockton water needs through

Relevant Experience (Continued)

approximately 2015. The EIR provided project-level review of these facilities and program-level review for build-out of future phases to meet long-term city water needs. Issues of concern included levee stability and flood hazard, special status species including giant garter snake and delta fish species, land use compatibility, loss of agricultural land, and growth inducement potential. Stockton certified the EIR and approved the project in summer 2005. ESA consulted with the San Joaquin County Multi-species Habitat Conservation plan team to develop mitigation measures consistent with the plan. ESA is now completing major environmental permitting and will provide construction monitoring services in the future.

SFPUC Water System Improvement Program EIR. *Project Director.*

Directing CEQA analysis of the proposed regional system improvements, including identification of the environmentally preferred program alternative. Aging facilities, susceptibility to earthquakes, increasingly stringent water quality regulations, and projected deficits in dependable water supply have combined to convince the citizens of San Francisco, Peninsula and South Bay to fund a capital improvement program at the cost of \$3.6 billion. The Program EIR is an extremely effective form of CEQA compliance that will address the "big picture" issues of the water system, clarify environmental issues and trade-offs, and build a foundation for and streamline CEQA review of subsequent projects. ESA is evaluating and comparing, at equal level of detail, a range of Program Alternatives and associated Project Bundles.

Davis-UC Davis Joint Water Supply Alternatives Project Analysis and Permitting. *Project Director.*

ESA worked with the City of Davis and University of California, Davis, to evaluate long-term water supply alternatives and develop an integrated CEQA/NEPA and regulatory compliance strategy, and plan. A range of project components were considered, including use of surface and groundwater sources, multiple potential diversions sites on the Sacramento River, pipeline alignments, procurement of a water rights permit from the State Water Resources Control Board, purchase and transfer of existing water rights, and water treatment alternatives.

Mojave Water Agency 2004 Regional Water Management Plan EIR. *Project Director.*

Directed the preparation of the EIR for Mojave Water Agency's Regional Water Management Plan Program to evaluate numerous projects designed to augment water supplies to meet future demands in the region. The EIR provides a basis for future assessment and approval of these projects. Key issues of the EIR included effects of water projects on the riparian habitats within the Mojave River, land use effects from recharge basins, water rights issues, flood control and storm water detention, and groundwater quality impacts from recharging SWP water. Ms. Moulton participated in an involved public outreach and stakeholder process that included bi-monthly presentations to a multi-agency (including service area cities, water and wastewater districts and regulatory agencies) technical advisory committee over the approximately 28

Relevant Experience (Continued)

month process, and scoping and hearing sessions in three locations throughout the large MWA service area.

South Joaquin Irrigation District South County Surface Water Supply Project EIR. *Project Director.* Directed completion of an initial environmental constraints and opportunities assessment to screen alternatives for supply diversion, conveyance and treatment site location. Managing preparation of an EIR to evaluate construction and operation of a new treatment plant to be 36 mgd in Phase 1 and 50 mgd in Phase 2, and delivery of up to 30,000 feet per year of treat water to the Cities of Lathrop, Manteca, Tracy and Escalon.

Zone 7 Water Agency's Long-Range Water Supply Planning Program EIR. *Project Director.* Directing preparation of the PEIR. The near-term project includes the acquisition of water transfers for up to 15,000 acre-feet per year from a combination of Byron Bethany Irrigation District and Kern County Water Agency, and the acquisition from the Department of Water Reuse of remaining capacity in the South Bay Aqueduct system. Import of this additional surface water may result in substantial seasonal water level fluctuations at Del Valle Reservoir, a state facility that provides for water supply, recreation, and flood management. The EIR also addresses Zone 7's evolving long-range program of increasing conservation, water imports, water recycling, conjunctive use and salt management within the Valley.

Alameda County Water District's Integrated Resources Plan (IRP) and Capital Improvements Program (CIP) Program EIR. *Project Director.* Directed environmental team and engineering staff on a siting study for a desalination plant and routing study for nine pipelines. The 5-10 mgd desal plant will employ reverse osmosis treatment to treat local groundwater for potable supply augmentation. Brine disposal is a key issue. The EIR also evaluates IRP program elements including conservation, recycled water and conjunctive use and arrangements for groundwater storage capacity in the Central Valley.

CALFED Los Vaqueros Reservoir Expansion Studies. *Project Director.* Spearheading the alternatives development and screening effort, which entails investigating multiple water supply sources, diversion point/intake, conveyance corridors, reservoir sizing, and distribution options. ESA is part of a team that provides comprehensive environmental planning and compliance services, including project definition, alternatives development and screening, environmental studies, public outreach, permitting, and CEQA, NEPA, and Federal Endangered Species Act compliance for the Los Vaqueros Reservoir expansion studies.

Project Manager for the **EIR/EIS on the Contra Costa Water District's Multi-Purpose Pipeline Project** featuring a 22-mile 36-inch diameter pipeline paralleling the Contra Costa Canal from Antioch to Concord. The U.S. Bureau of Reclamation is the NEPA Lead Agency. Ms. Moulton managed the

Relevant Experience (Continued)

evaluation of route alternatives including the canal right-of-way, public streets, and an active railroad corridor.

DWR South Bay Aqueduct Improvement and Enlargement Project EIR.

Principal-in-Charge. Providing contract schedule and budget control and staffing oversight and applying CEQA expertise to key project issues including growth inducement, cumulative effects and project alternatives. Provided CEQA guidance on how and the extent to which this DWR EIR could tier from the existing EIR on Zone 7's Water Supply Master Plan prepared previously by ESA. Works closely with biologists to provide DWR with responsive strategize and problem-solving during the complex regulatory, permit and mitigation development process now being completed.

California Department of Water Resources – On Call Environmental Planning Services for Upgrades to the California Aqueduct East Branch.

Project Director. Tasks Orders Include 1) East Branch Enlargement; 2) East Branch Extension Phase II; and 3) Perris Lake Dam Retrofit.

The East Branch Aqueduct is the southern most reach of the California Aqueduct conveying Sacramento Delta water from northern California to southern California. ESA has contracted with DWR to conduct up to \$7 million of environmental planning services in the Southern California Division. The principal project is the preparation of an EIR for the enlargement of 100 miles of the aqueduct from the Tehachapi split through the Antelope Valley and Mojave River Basin to Silverwood Reservoir. The project would increase conveyance capacity to Southern California State Water Contractors served by the aqueduct including Metropolitan Water District of Southern California, Mojave Water Agency and the San Geronio Pass Agency. Metropolitan has seen Colorado River water and Owens Valley water supplies reduced over the last few years, heightening the importance of the State Water Project's California Aqueduct. Construction costs for full implementation are estimated at over \$270 million. The project will involve raising the canal impoundments by two feet for the length of the aqueduct, requiring over-chutes, bridges, and utility crossings to be raised for the length of the aqueduct. In addition, new pumps will be installed and siphon barrels installed across water ways. ESA will conduct technical studies to complete the EIR and negotiate permit requirements with resource agencies including the USACE, RWQCB, and USFWS. ESA is also preparing an EIR for the East Branch Extension Phase II that will install 6 miles of pipeline across the Santa Ana River east of the City of San Bernardino through highly sensitive habitat conservation areas. The new pipeline will increase water delivery capacity to the San Geronio Pass Water Agency serving the cities of Banning and Beaumont. ESA is also preparing an EIR for the Perris Lake dam retrofit and emergency outfall expansion. The EIR will evaluate geotechnical solutions to the proposed seismic retrofit of the dam that will include substantial earth movement near new residential areas in western Riverside County.

Project Manager for the Dublin San Ramon Services District Water Recycling for Groundwater Replenishment Project EIR. The EIR evaluates

Relevant Experience (Continued)

11 injection well sites and multiple injection scenarios in three groundwater sub-basins, several miles of pipeline route alternatives, and the two-treatment/reuse scenarios at equal level of detail. Water quality and protection of potable groundwater supplies and public health are the central issues analyzed. Ms. Moulton played a central role in the District's proactive public information program; she made presentations at several public forums and the technical advisory committee, contributed to District newsletters, and coordinated a public workshop on the Draft EIR televised for the local community cable program.

Brightwater Regional Wastewater System Program– Siting Task Leader for *King County (Metropolitan Seattle), WA Wastewater Division's North Treatment Facilities Project*. Leading the Siting Task for a new regional system including a 54 mgd tertiary wastewater treatment facility, conveyance system, and new marine outfall to Puget Sound to serve 13 cities and unincorporated areas in King and Snohomish County. The plant site needs to be selected by 2003 with the plant in operation by 2010. Lead goals assessment and siting criteria development effort. Designed and directing three year, three-phase siting process, coordinating input from multi-disciplinary technical teams in engineering, environmental, land acquisition, public/community acceptance, mitigation, and permitting into a comprehensive evaluation of over 70 possible plant site candidates, plus conveyance pipelines corridors and outfall sites.

Lancaster Water Reclamation Plant 2020 Facilities Plan Alternatives Development and Program EIR. Project Director. Directed alternatives siting, evaluation and screening studies and preparation of a Program EIR to address both near- and long-term projects for expanding and upgrading the treatment and substantially expanding an agricultural reuse program to address current and future wastewater disposal. The Lahontan RWQCB ordered the District to reduce its current wastewater discharge to Amargosa Creek and Piute Ponds because it causes unauthorized seasonal overflow on to Rosamond Dry Lake within the Edwards Air force Base property. Key issues include water quality, the effects of siting new storage ponds on land uses and biological resources in the area (including the Mohave ground squirrel and the Mariposa lily), potential effects on Edwards Air Force Base, and community effects. Ms. Moulton led ESA's involvement in an extensive public outreach program for the controversial project and lead ESA's effort to respond to extensive public comment and legal challenge. **200481**

Project Director for the *Livermore Amador Valley Water Management Agency Export Pipeline Facilities Project Program EIR*. Project includes relining of existing export pipeline and installation of a second parallel pipeline from Livermore to San Francisco Bay. Directed analysis of increase secondary effluent discharge via the EBDA system to San Francisco Bay, wet weather flows and potential discharge to Alameda and San Lorenzo Creek, and growth inducement potential and secondary effects of growth.

Relevant Experience (Continued)

Project Manager for the *Program EIR on the Napa Sanitation District's Sewer System Master Plan*. Analyzed treatment plant expansion, Title 22 reclamation programs, collection system rehabilitation and expansion, and sludge disposal. Key issues included discharge to the Napa River, reclamation, impacts to wetlands, streams, and special status species, and growth inducement potential. Responsible agencies included the Regional Water Quality Control Board, the Department of Fish and Game, the U.S. Fish and Wildlife Service, and the U.S. Corps of Engineers. Project Director for subsequent Negative Declaration and Corps 404 wetlands permit on the *Los Carneros Recycled Water Pipeline* to provide tertiary treated water to local agricultural users.

Orange County Sanitation District 2020 Strategic Plan Program EIR. *Project Director*. Directing preparation of a program EIR for the Orange County Sanitation District's (OCS) strategic plan. The Strategic Plan will identify the Districts' wastewater infrastructure needs for collection, treatment, and discharge to serve a growing population. Of particular concern is the need to add more peak flow discharge capacity in the form of a new ocean outfall or near shore discharge alternative and the potential to reliably discharge through a joint water reclamation program with the Orange County Water District. The major issues in the Program EIR are potential impacts to the marine environment, public health, population growth, air quality, and community impacts.

Project Manager for the Program EIR on Roseville Regional Wastewater System Master Plan. Analysis addresses two distinct regional system alternatives to handle up to 54 mgd, including expansion of the existing Dry Creek Wastewater Treatment Plant (WWTP) and/or development of a new WWTP and new surface water discharge. Agricultural and urban water programs reclamation are also analyzed. Ms. Moulton presented the EIR findings to the City's Public Utilities Commission and City Council.

Project Director for the *Program EIR on the Sacramento Regional County Sanitary District (SRCSD) Master Plan*. SRCSD proposes expansion of treatment facilities over 20 years to handle 240 mgd. The EIR will analyze increase discharges to the Sacramento River, air toxins and pollutant emissions, odors, flooding potential, and expansion of biosolids handling facilities.

San Francisco Recycled Water Master Plan and Groundwater Master Plan EIR. *Project Manager*. Worked jointly with the San Francisco PUC, under direction of the City's Office of Environmental Review. Analyzed the site-specific impacts of proposed water recycling and groundwater use facilities, water reuse and user issues, and the local and regional effects of supplementing City water supply with groundwater and recycled water. Specific projects addressed include a 15-mgd tertiary treatment plant, three 10-mg storage tanks, and many miles of transmission and distribution pipeline, pump stations, and wells. The tertiary plant includes UV disinfecting, and will ultimately provide up to 12,000 acre-feet per year of recycled water. Recycled water uses include landscape irrigation, fire fighting, toilet flushing, and industrial processes.

Relevant Experience (Continued)

Groundwater management issues under investigation include water quality, safe yield, salt water intrusion, subsidence, conjunctive use, and interagency coordination. Directed public information newsletters and participated in public workshops.

SFPUC Hetch Hetchy Treatment Project-Chloramine Conversion CEQA Review. *Project Director.* ESA, in a joint venture with Orion, is conducting the CEQA review for the San Francisco Public Utilities Commission (SFPUC) chloramine conversion project. ESA prepared the Initial Study / Notice of Preparation, conducted public outreach for the project, and is currently developing the DEIR and conducting agency coordination. The project involves conversion of the disinfection method for the water supply system from chlorine to chloramine. The project would improve the reliability of the SFPUC drinking water supply system to meet water quality requirements of the federal Stage 1 Disinfectant/ Disinfection By-Products Rule.

SFPUC Hetch Hetchy Watershed Management Strategic Plan. *Project Director.* Assisted in prioritizing water quality concerns and potential sources of contamination, and in identifying programmatic recommendations and long-term strategies. Drinking water supplied from the SFPUC Hetch Hetchy system does not require filtration to meet drinking water standards. However, to ensure that source water protection continues, regulatory agencies require the SFPUC to develop a watershed management strategic plan.

Soquel Creek Water District Environmental Services. *Project Director.* ESA has assisted the Soquel Creek Water District in the management, alternatives development, and evaluation process to identify a preferred water supply alternative to meet its future projected need of approximately 2,000 acre-feet. Initially the District focused on a surface water diversion from Soquel Creek, and ESA provided environmental evaluation of the proposed site and facilities and coordinated a multi-consultant team of experts to address fisheries, stream hydrology and groundwater issues. Subsequently the District expanded its review of potential supply options and ESA developed an alternative concept for a District-only desalination project and conducted a preliminary feasibility and environmental assessment.