

## 33.1 Preparers by Affiliation

The tables in this section include the preparer information provided by each agency or consultant for the purposes of this chapter.

### 33.1.1 Lead Agencies

#### California Department of Water Resources

Name	Expertise
Derrick Adachi	Program Manager III
Mary Akens	Senior Staff Counsel
Rachel E. August	Environmental Scientist
Maninder Bahia	Water Resources Engineer
Katherine Bandy	Environmental Scientist
Jessica Barnes	Senior Environmental Scientist (Specialist)
Banafsheh Behnam	Supervising Water Resources Engineer
Gina Benigno	Environmental Scientist
Connor Block	Environmental Scientist
Dave Bogener	Environmental Program Manager I
Kenneth Bogdan	Senior Staff Counsel
Linda Bond	Engineering Geologist
Mike Bradbury	Program Manager II
Delores Brown	Environmental Program Manager II (retired)
Jody L. Brown	Senior Environmental Planner
Rich Breuer	Environmental Program Manager I
Steven M. Brumbaugh	Environmental Scientist
Analisa M. Canepa	Environmental Scientist
Jay Chamberlin	Environmental Program Manager I
Erin Chappell	Senior Environmental Scientist (Specialist)
Lori E. Clamurro Chew	Senior Environmental Scientist (Specialist)
Kevin Clark	Senior Environmental Scientist (Specialist)
Louise Conrad	Senior Environmental Scientist
Mark Cowin	Director
Barbara Cross	Environmental Program Manager I
Monica Cross	Fish and Wildlife Scientific Aid
Tony Danna	Senior Environmental Scientist (Specialist)
Nicole Darby	Program Manager II
Gina Skurka Darin	Senior Environmental Scientist
Allan Davis	Supervising Land Agent
Carol Digiorgio	Program Manager I
Chi Doan	Supervising Hydroelectric Power Utility Engineer

Name	Expertise
Gordon Enas	Principal Water Resources Engineer (2010–2015)
Teresa Engstrom	Principal Water Resources Engineer
Cassandra Enos-Nobriga	Program Manager, Executive Program Office (2010–2016)
Chris Enright	Senior Water Resources Engineer
Karen Enstrom	Program Manager II
Sergio Escobar	Principal Water Resources Engineer
Cliff Feldheim	Senior Environmental Scientist (Specialist)
Tom Filler	Program Manager II
Laura Flournoy	Senior Environmental Scientist (Specialist)
Teresa Fong	Water Resources Engineer
Mike Ford	Supervising Water Resources Engineer
Heather Fuller	Senior Environmental Scientist (Specialist)
Cindy Garcia	Environmental Program Manager I
Christopher Geach	Environmental Scientist
Kim Gazzaniga	Senior Environmental Scientist
Rebecca Gilbert	Environmental Planner
Marcos Guerrero	Associate Environmental Planner
Don Guy	Senior Environmental Scientist (Specialist)
Lesley Hamamoto	Senior Environmental Scientist (Specialist)
Bill Harrell	Executive Habitat Coordinator, DWR's EcoRestore Program
Brian Heiland	Supervising Water Resources Engineer
Paul Helliker	Deputy Director (2012–2014)
Adam Henderson	Senior Environmental Scientist (Specialist)
Mike Hendrick	Environmental Program Manager I
Veronica Hicks	Chief, State Water Project Power and Risk Office
Nick Hightower	Engineering Geologist
Ray Hoagland	Economic Research Program Manager III
Dale Hoffman-Floerke	Chief Deputy Director (retired)
Krista Hoffmann	Environmental Scientist
Nekane Hollister	Senior Water Resources Engineer
Gardner Jones	Program Manager II
Lauma Jurkevics	Senior Environmental Scientist (Specialist)
Kenneth Karcher	Senior Engineer, Water Resources
Joy Khamphanh	Environmental Scientist
Jason Kindopp	Senior Environmental Scientist
Laura King-Moon	Chief Deputy Director (2013–2015)
Marianne Kirkland	Supervising Water Resources Engineer
Margaret Kress	Environmental Planner
Gail Kuenster	Environmental Program Manager I
Ryon Kurth	Senior Environmental Scientist (Specialist)
Cynthia LeDoux-Bloom	Senior Environmental Scientist (Specialist)
John Leahigh	Principal Water Resources Engineer
Peggy Lehmen	Senior Environmental Scientist (Specialist)
Pamela Lindholm	Environmental Scientist
Katherine Marquez	Senior Environmental Scientist

Name	Expertise
Paul Marshall	Principal Water Resources Engineer
Zoltan Matica	Environmental Scientist
Barbara McDonnell	Chief, Division of Environmental Services (retired)
Dennis McEwan	Environmental Program Manager I
Michelle McGowan	Office Technician
Leah McNearny	Senior Environmental Scientist (Specialist)
Francine Mejia	Senior Environmental Scientist (Specialist)
Cindy Messer	Assistant Chief Deputy Director (2016)
Dean F. Messer	Chief, Division of Environmental Services
Aaron Miller	Senior Water Resources Engineer
Sonia Miller	Environmental Scientist
Javier Miranda	Senior Environmental Scientist (Specialist)
Jason Moore	Environmental Scientist
James Moose	Outside Counsel to DWR, Remy Moose Manley, LLP
Michelle Morrow	Assistant Chief Counsel
Rhiannon Mulligan	Environmental Scientist
Parviz Nader-Tehrani	Supervising Water Resources Engineer
Tim Nelson	Water Resources Engineer
James Newcomb	Senior Environmental Scientist
Murage Ngatia	Environmental Scientist
Bob Niblack	Senior Engineering Geologist
Robert Nozuka	Supervising Water Resources Engineer
Janis Offerman	Senior Environmental Planner
Eric Oppenheimer	Environmental Program Manager I
Mark Pagenkopp	Senior Engineering Geologist
Ganesh Pandey	Supervising Water Resources Engineer
Laura Patterson	Senior Environmental Scientist (Specialist)
Michael Perrone	Recreation and Wildlife Resources Advisor
David Perry	Engineering Geologist
Roy Peterson	Environmental Scientist (retired)
Michelle Phillips	Senior Environmental Scientist (Specialist)
Praba Pirabaroban	Supervising Water Resources Engineer
Kristina A. Reese	Senior Environmental Scientist
Erik Reyes	Supervising Water Resources Engineer
Jim Rich	Economic Research Program Specialist II (retired)
Dan Riordan	Senior Environmental Scientist
Doug Rischbieter	Senior Environmental Scientist (Specialist)
Heidi Rooks	Environmental Program Manager II
Arnold Sanchez	Supervising Water Resources Engineer (2010–2013)
Tiffany Schmid	Associate Environmental Planner
Brian Schreier	Environmental Scientist
Andrew Schwarz	Senior Water Resources Engineer
Alicia Seesholtz	Senior Environmental Scientist (Specialist)
Michelle Selmon	Senior Environmental Scientist (Specialist)
Maureen Sergent	Senior Engineer, State Water Project Analysis Office

Name	Expertise
Tim Smith	Program Manager II
Scott Sochar	Engineering Geologist
Ted Sommer	Program Manager III
Stephani Spaar	Environmental Program Manager II
Katherine Spanos	Senior Staff Counsel (retired)
Curtis Spencer	Principal Water Resources Engineer
Crystal Spurr	Staff Environmental Scientist
Russ Stein	Assistant Deputy Director
Jamie Suria	Environmental Scientist
Ted J. Swift	Senior Environmental Scientist (Specialist)
Jeff Tkach	Environmental Scientist
Danika Tsao	Senior Environmental Scientist (Specialist)
Ming-Yen Tu	Water Resources Engineer
Charles A. Tyson	Environmental Program Manager I
Al Vargas	Program Manager I
Wayne Verrill	Environmental Scientist
Katie Wadsworth	Senior Environmental Scientist (Specialist)
Jacqueline Wait	Senior Environmental Planner
Xiaochun Wang	Senior Water Resources Engineer
Chris Wilkinson	Environmental Program Manager I
Craig Williams	Environmental Scientist
Jean Witzman	Program Manager I
Marcus Yee	Program Manager, Executive Program Office (2016)

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## 1 Bureau of Reclamation

Name	Education	Project Role	Experience	Expertise
Kaylee Allen	JD, 1997	Department of Interior, Regional Solicitor's Office	19 years	Legal Review
Stuart Angerer		Supervisory Physical Scientist		Hazards and Hazardous Materials
Junaid As-Salek		Modeler		Water Resources
Michelle Banonis		BDCP Program Manager		Program Management
Federico Barajas		BDCP Program Manager (2010-2013)		Program Management
Chester V. Bowling	BA, Civil Engineering	Civil Engineer	27 years	Water Supply Surface Water
Susan Black	BA, Economics	Social Science Analyst	31 years	Socioeconomics
Carolyn Bragg		Natural Resources Specialist		Socioeconomics Transportation Utilities and Public Services Hazards and Hazardous Materials Public Health
Brian Buttazoni		Natural Resources Specialist		Geology and Seismicity Soils Terrestrial Biological Resources Recreation Minerals Paleontological Resources
Randi Field		Hydraulic Engineer		Water Supply Climate Change
Thomas Fitzhugh	MS, GIS and Remote Sensing	Hydrologist	15 years	Water Supply Surface Water
Paul Fujitani		Supervisory Hydraulic Engineer		Water Supply Climate Change
Sue Fry		Bay Delta Office Manager (2010-2015)		Program Management
Jimmy Goodwin	BS, Civil Engineering	Civil Engineer	37 years	Alternatives
Margaret Gidding		Public Affairs Specialist		Public Outreach
Lenny Grimaldo	PhD, Ecology	Fish Biologist	18 years	Fish and Aquatic Resources
John Hannon	BS, Aquatic Ecology	Fish Biologist	25 years	Fish and Aquatic Resources
Lisa Holm	ME, Civil and Environmental Engineering	Civil Engineer	18 years	Water Supply Surface Water Water Quality Regulatory Compliance
Shane Hunt	Master of Marine Resources in Marine Resources Management	Regional Liaison Officer	13 years	NEPA Compliance
Patti Idlof	BS, Natural Resources Management	Supervisory Natural Resources Specialist	33 years	NEPA Review
Jason Hassrick		Fish Biologist		Fish and Aquatic Resources
Fred Holz		Civil Engineering		Engineering

Name	Education	Project Role	Experience	Expertise
Joshua Israel	PhD, Ecology BS, Biochemistry and Molecular Biology	Fish Biologist	14 years	Fish and Aquatic Resources
Liz Kiteck		Hydraulic Engineer		Water Supply Surface Water
Mary Lee Knecht		Assistant BDCP Program Manager		Program Management
Jobaid Kabir	BS, MS, PhD in Civil and Environmental Engineering	Water Resources	33 years	Water Resources Review
Leeyan Mao		Supervisory Physical Scientist		Water Quality
George Matanga	PhD, Civil Engineering	Hydraulic Engineer	38 years	Groundwater Geology and Seismicity Modeling
Mike McCulla	PhD, Geology	Geologist	28+ years	Geology and Seismicity Soils Minerals
Andrea Meier	MS, Public Policy and Administration BS, Environmental Toxicology	Natural Resource Specialist	11 years	Socioeconomics Recreation Transportation Hazards and Hazardous Materials Environmental Justice
Ron Milligan		Central Valley Operations Manager		Water Supply Climate Change
Greg Mongano				Geology, Minerals
Jim Monroe, Jr.	JD, 1992	Department of Interior, Regional Solicitor's Office	24 years	Legal Reviewer
Louis Moore		Public Affairs Specialist		Public Outreach
Barry Mortimeyer		Supervisory Electrical Engineer		Energy Resources
Michael Mosley	Master of Environmental Science and Management, Water Resources Management BS, Geological and Environmental Science	Water Quality Coordinator	8 years	Water Quality
Adam Nickels	MS, Cultural Resources Management BS, Anthropology	Archaeologist	19 years	Cultural Resources
Kirk Nelson	Ph.D., Civil & Environmental Engineering	Engineering Groundwater/ Environmental Engineering	14 years	Groundwater & Air Quality
Theresa Olson	MS. Environmental Policy	BDCP Acting Program Manager/Conservation and Conveyance Division Chief	26 years	Wildlife biology/Environmental Compliance

Name	Education	Project Role	Experience	Expertise
Michele Palmer	M.S., Biology	Fish Biologist	23 years	Fish and Aquatic Resources
Laureen Perry	M.A., Anthropology	Cultural Resources Management	28 years	Cultural Resources Review, National Historic Preservation Act Section 106 compliance and Native American consultation
Janice Pinero	MA, Organizational Leadership BA, Environmental Studies	Endangered Species Act Specialist	15 years	Endangered Species Resources
Patricia Rivera	MPA, JD BA, Sociology	Native American Affairs Specialist	10 years	Environmental Justice Cultural Resources
Ray Sahlberg				Water Rights
Andrew Shultz	M.S, B.S. Wildlife & Fisheries Science ; Ph.D. Ecology and Evolutionary Biology	Fisheries and Aquatic Ecology	23 years	Fish and Aquatic Resources
Scott Springer	BS, Wildlife Recreation Management	Outdoor Recreation Planner	24 years	Recreation
Ann Stine	MS, Natural Resources Management	NEPA Review Coordinator, Terrestrial Resources	33 years	Wildlife Biologist
Duane Stroup	PhD, Mineral Economics	Economist	22 years	Socioeconomics
Connie Svoboda	MS, Civil Engineering	Hydraulic Engineer	13 years	Surface Water Fish and Aquatic Resources
Michael Tansey		Special Projects Coordinator		Air Quality and GHG Climate Change
Becky Victorine	BS, Agricultural Systems and the Environment	Natural Resources Specialist	18 years	Groundwater Water Quality Agricultural Resources Cultural Resources Energy Resources Air Quality Climate Change Cumulative Effects NEPA
Travis Yonts	Agricultural Engineering	Water Resource Modeler	13 years	Water Resources

## 1 33.1.2 Responsible and Cooperating Agencies

### 2 California Department of Fish and Wildlife

Name	Education	Expertise	Experience	Project Role
Erin Aquino-Carhart	BS, Biological Conservation, 2008	Regulatory compliance, fish and wildlife biology	7 years	Introduction review coordination
Carol Atkins	Postgraduate research in soil physics MS, Soil Science, 1988 BS, Biological Sciences, 1984	Water quality; regulatory compliance; mercury, metals, and selenium in the environment	29 years	Water Quality
Carie Battistone	MS, Avian Science, 2005 BS, Wildlife Biology, 2001	Avian ecology	15 years	Terrestrial Biological Resources review coordination
Scott Cantrell	Masters of Public Policy and Administration, 2012 MS, Ecology, 1988 BS, Biology, 1986	CEQA compliance, regulatory compliance, fish and terrestrial wildlife	28 years	Alternative screening review coordination public outreach
Laura Cholodenko	MS, Conservation Biology, 2006 BA, Environmental Studies, 1992	Regulatory compliance, terrestrial biology	16 years	Terrestrial Biological Resources
Lori Clamurro	MBA, 2006 BS, Environmental Policy Analysis and Planning, 1997	Land use, water quality, terrestrial biology	17 years	Land Use Agricultural Resources
Neil Clipperton	MS, Biological Sciences, 2005 BS, Ecology and Systematic Biology, 1999	Conservation genetics, avian ecology, terrestrial biology	11 years	Terrestrial Biological Resources review coordination
Patrick Coulston	MS, Fisheries Science, 1977 BS, Fisheries Biology, 1974	SWP/CVP operations; fish ecology	33 years	Water Supply Fish and Aquatic Resources
Chad Dibble	BS, Biological Conservation, 2000	Water quality; fish ecology; SWP/CVP operations	15 years	Water Quality review coordination
Chandra Ferrari	JD, 2006 BA, Animal Science and Management, 2003	Regulatory compliance, legal review, CEQA compliance	9 years	Alternatives Purpose and Need Approach to Analysis
Terry Foreman	MS, Biology, 1985 BS, Zoology, 1975	Inland fisheries and ichthyology	23 years	Recreation
George Heise	BS, Civil Engineering, 1980	Water resources and fish facility engineering	26 years	Intake design and siting
Shannon Little	JD, 2008 BA, Journalism, 2000	NEPA/CEQA compliance, regulatory compliance	7 years	Agricultural Resources
Amber Pairis	PhD, Environmental Studies/Conservation Biology, 2005 BA, Environmental Studies, 1996	Climate change adaptation policy, conservation science	18 years	Climate Change
Jason Roberts	BS, Conservation Biology, 2006	Anadromous fish, SWP/CVP operations, floodplain restoration	11 years	Recreation Fish and Aquatic Resources Water Supply
Jim White	MS, Aquatic Ecology, 1978 BS, Wildlife and Fisheries Biology, 1974	SWP/CVP operations; fish ecology	36 years	Water Supply Surface Water



## 1 U.S. Fish and Wildlife Service

Name	Expertise
Craig Anderson	Hydrologist, San Francisco Bay-Delta Fish and Wildlife Office
Aondrea Bartoo	Fish and Wildlife Biologist, San Francisco Bay-Delta Fish and Wildlife Office
Barbara Beggs	Fish and Wildlife Biologist (NEPA Coordinator), San Francisco Bay-Delta Fish and Wildlife Office
Dan Castleberry	Region 8 Assistant Regional Director (Fisheries), Pacific Southwest Region
Mike Chotkowski	Field Supervisor, San Francisco Bay-Delta Fish and Wildlife Office
Jorie Clark	Regional Archaeologist/Regional Historic Preservation Officer, Pacific Region
Dan Cox	Region 8 Habitat Conservation Plan Coordinator, Pacific Southwest Region
Steve Culberson	Fish and Wildlife Biologist, San Francisco Bay-Delta Fish and Wildlife Office
Erin Gleason	Fish and Wildlife Biologist, San Francisco Bay-Delta Fish and Wildlife Office
Mary Grim	Region 8 Listing Coordinator, Pacific Southwest Region
Roger Guinee	Assistant Field Supervisor (Science, Modeling, and Water Operations), San Francisco Bay-Delta Fish and Wildlife Office
Derek Hilts	Hydrologist, San Francisco Bay-Delta Fish and Wildlife Office
Mike Hoover	Assistant Field Supervisor (Bay Delta Initiatives), San Francisco Bay-Delta Fish and Wildlife Office
Steve Martarano	Public Affairs Specialist, San Francisco Bay-Delta Fish and Wildlife Office
Matt Nobriga	Fish and Wildlife Biologist, San Francisco Bay-Delta Fish and Wildlife Office
Jenness McBride	Region 8 Habitat Conservation Plan Coordinator (former), Pacific Southwest Region
Bart McDermott	Project Leader, Stone Lakes National Wildlife Refuge
Jennifer Norris	Deputy Field Supervisor, San Francisco Bay-Delta Fish and Wildlife Office
Victoria Poage	Delta Native Fishes Recovery Biologist, San Francisco Bay-Delta Fish and Wildlife Office
Lori Rinek	Fish and Wildlife Biologist (Section 10 Coordinator), San Francisco Bay-Delta Fish and Wildlife Office
Beatrix Treiterer	Deputy Project Leader, Stone Lakes National Wildlife Refuge
Kim S. Turner	Assistant Field Supervisor (ESA-Regulatory Division), San Francisco Bay-Delta Fish and Wildlife Office
Heather Swinney	Fish and Wildlife Biologist (Section 10), San Francisco Bay-Delta Fish and Wildlife Office
Leanna Zweig	Fish and Wildlife Biologist, San Francisco Bay-Delta Fish and Wildlife Office

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## 1 National Marine Fisheries Service

Name	Education	Expertise	Experience	Project Role
Cathy Marcinkevage	PhD, Environmental Engineering MS, Environmental Engineering BS, Earth and Environmental Engineering	Biological and Hydrologic Modeling	9 years	Bay Delta Conservation Plan—Biomodeler
Shelby Mendez	BS, Biology MS, Master of Marine Affairs	NEPA	10 years	Regional NEPA Coordinator
Maria Rea				Central Valley Office Supervisor
Yvette Redler	BS, Environmental Science/Biology	NEPA, Salmonid and Sturgeon Biology	9 years	Bay Delta Conservation Plan—Fisheries Biologist
David Swank	PhD, Fisheries Ecology MS, Zoology BS, Biology	Steelhead and Salmon Biology, Population Biology, and Life-History Theory	16 years	Bay Delta Conservation Plan—Lead Biologist
Michael Tucker	BS, Wildlife Ecology	Endangered Species recovery/habitat restoration & regulatory process	21 years	Bay Delta Conservation Plan—Branch Chief
Beth Wrege	PhD, Fisheries and Wildlife Management MS, Fisheries Biology BS, Biology/Geology	Hydrology, Fisheries behavior and movement modeling, GW-SW interactions	26 years	Bay Delta Conservation Plan—Hydrologist
Ryan Wulff	MAS, Marine Biodiversity and Conservation Education BA, Biology	NEPA and ESA	7 years	Senior Policy Advisor/ Acting Chief of Delta Policy and Restoration

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## 1 33.1.3 Consultant Teams

### 2 ICF International

Name	Education	Expertise	Experience	Project Role
Gregg Roy	BS, Political Economy of Natural Resources, 1982	NEPA/ CEQA compliance, economics (natural resource), water resource planning	25 years	Project Director
Steve Centerwall	BS, Environmental Policy Analysis and Planning, 1986	NEPA/ CEQA compliance, regulatory compliance, water resource planning	29 years	Project Manager
Teresa Chan Dykstra	JD, Law, 2005 BA, Political Science, 2002	NEPA/CEQA compliance, regulatory compliance, legal review	10 years	Deputy Project Manager
Erin Gustafson	BA, Urban Studies and Planning, 2013	Land use planning, environmental law	2 years	Project Coordinator
Shay Humphrey	BA, Political Science and History, 2006	Communications, public involvement	9 years	Coordination, Public Involvement, and Consultation
Emily Setzer	MA, Interactive Environmental Journalism, 2007 BA, English, 2003	Technical writing, project coordination, publication management	12 years	Coordination, Executive Summary, Recreation, Environmental Justice
Kasey Allen	BA, Economics, 2003	Geographic Information Systems (GIS), database design and management, spatial analysis	11 years	GIS Coordinator
Alex Angier	AA, Computer-Aided Drafting and Design, 2006	Computer-Aided Drafting (CAD), GIS	9 years	GIS Support
Mike Aviña	JD, Law, 2005 BA, Anthropology, 1995	Cultural resources compliance, environmental planning	15 years	Cultural Resources and Environmental Justice
Victoria Axiaq	MA, English, 2002 BA, English, 1975	Project management, transportation and environmental analysis	29 years	Project Coordinator (2011–2012)
Alan Barnard		Graphic design, web design, multimedia design, and cartography	19 years	Graphics
Paola Bernazzani	MS, Ecosystem Science, 1999 BA, Environmental Studies and Anthropology, 1991	Endangered species compliance, impact assessments, conservation biology	23 years	Terrestrial Biological Resources
Russell Brown	PhD, Civil Engineering and Water Resources, 1978 MS, Ocean Engineering, 1974 BS, Civil and Environmental Engineering, 1972	Hydrologic and water quality modeling to support fisheries and other water resource investigations	36 years	Water Storage
David Buehler, PE	BS, Civil Engineering, 1980	Noise and vibration impact and mitigation assessment	32 years	Noise
William Bumback	MS, Environmental Science, 2003 BS, Natural Resources Planning, 1997	Local land use planning and policy development, environmental impact assessment	19 years	Land Use

Name	Education	Expertise	Experience	Project Role
Jillian Burns	BS, Environmental Management and Protection, California Polytechnic State University, San Luis Obispo, 2012	Field biology, research, planning, and regulatory permitting	3 years	Coordination
Joel Butterworth	MS, Geography, 1987 BA, Geography, 1985	Geology and soils impact assessment, soil resource evaluation, erosion and sediment control	26 years	Geology and Seismicity Soils
Saadia Byram		NEPA/ CEQA compliance, technical editing, document formatting and production, project coordination, and public involvement	23 years	Technical editor and publications specialist, and Section 508 compliance coordination
Daniel Cardoza	MS, Environmental Studies, 2011 BA, Environmental Science and Policy, 2009	CWA and California Fish and Game Code Regulatory Compliance, GIS	7 years	GIS Support
John Chadbourne	BS, Biology, 1999	GIS, spatial analysis, cartography	18 years	GIS Support
Brenda Chang	MS, Transportation Technology and Policy, 2009 BS, Mechanical Engineering, 2006	Air quality and climate change impact analysis and emissions inventory development	4 years	Air Quality and Greenhouse Gases
Kenneth Cherry	BA, English, 1980	Writing and editing	26 years	Editing
Bonnie Chiu	BA, Political Science/Public Service, 2002	Environmental justice analysis, land use analysis, project management	12 years	Environmental Justice, Public Services and Utilities
Lindsay Christensen	BS, Community and Regional Development, 2004	Planning and environmental impact analysis	11 years	Public Services and Utilities, Content Analysis Team Quality Control
Gary Clendenin, PG	MS, Geology, 1990 BS, Geology, 1984	Geology, hydrogeology, and hazardous waste management	29 years	Hazards and Hazardous Materials
Pat Crain	BS, Wildlife, 1999	Fisheries and fish ecology	22 years	Fish and aquatics
Becky Crosswhite	BS, Community and Regional Development, 1999	GIS, spatial analysis, cartography	14 years	GIS Support
Susan Davis	MS, English Literature, 1995 BA, English Literature, 1990	Content analysis, website development, programming, electronic publishing	17 Years	Coordination, Comment Analysis Team Lead
Edward Douglas	BA, Geography, 2006	GIS, GPS, CAD, map production	7 years	GIS Support
John Durnan	BS, Biochemistry, 1991	Cartography, graphical illustrations	12 years	Graphics
Nicholas Dreves	BA, Economics and Public Policy Analysis, 2004	Climate change, greenhouse gas mitigation markets, air quality impact assessment	10 years	Air Quality and Greenhouse Gases
Greg Ellis	BA, Geography, 1993	NEPA/CEQA compliance, water resources, ESA compliance	18 years	Fish and Aquatic Resources

Name	Education	Expertise	Experience	Project Role
Lesia Erecius	MS, Pharmacology and Toxicology BS, Physiology	Water resources, aquatic toxicology, environmental impact assessment, project management	8 years	Hazards and Hazardous Resources Public Health Agricultural Resources Project Coordinator (2011–2012)
Matilda Evoy-Mount	BA, Environmental Studies, 2009	Water resource planning, NEPA/CEQA compliance, ESA compliance	6 years	Coordination
Yonnel Gardes	MS, Transportation Engineering, 1991 BS, Civil Engineering, 1989	Transportation planning, traffic engineering, environmental compliance	23 years	Transportation
Rachel Gardiner	MS, Candidate, Wildlife Ecology BS, Biology, 2001	Avian monitoring, data analysis, scientific writing	13 years	Terrestrial Biological Resources
Teresa Giffen		Technical editing, writing, graphic design	16 years	Graphics Coordination
Paul Glendenning	BA, Geography, 1999	GIS, cartography, spatial analysis	15 years	GIS Support
Lawrence Goral		Managing editor, technical writing, CEQA and NEPA document development	15 years	Managing Editor, Graphics Coordination (2011–2013)
Joanne Grant, RPA	MA, Classical Archaeology, 2002 BA, Humanities, 1996	Prehistoric and historic archaeology, cultural resource management	10 years	Cultural Resources
Marin Greenwood	PhD, Fish Ecology, 2002 MS, Applied Fish Biology, 1997 BS, Aquatic Bioscience, 1996	Aquatic ecology, impact assessment, restoration benefit assessment	11 years	Fish and Aquatic Resources
Jennifer Haire	BS, Biology, 1995	Wildlife biology, special-status species surveys, environmental document preparation	18 years	Terrestrial Biological Resources
Kathryn Haley	MA, History (Public History), 2004 BA, History, 2001	Cultural resources management, historic resource inventories and evaluations	12 years	Cultural Resources
Erica Hall	BA, Biological Sciences, 2000	Wetland biology, natural resources impact assessment	14 years	GIS Coordination
Leila Harris	BA, Environmental Studies and English	Special-status species surveys, wildlife habitat assessments	20 years	Terrestrial Biological Resources
Shannon Hatcher	BS, Environmental Science, 2000 BS, Environmental Health and Safety, 2000	Air quality and greenhouse gas chapters review	14 years	Air Quality and Greenhouse Gases
Erin Healy	MS, Marine Science, 1988 BA, Geology/Biology, 1983	Water quality, hydrology, and contaminants analysis	23 years	Fish and Aquatic Resources

Name	Education	Expertise	Experience	Project Role
Anthony Held	PhD, Civil and Environmental Engineering, 2001 MS, Civil and Environmental Engineering, 1998 BS, Civil Engineering, 1994	Air pollution dispersion modeling, climate action planning, air quality modeling, health exposure and risk assessment analysis	20 years	Air Quality and Greenhouse Gases, Climate Change
Erin Hitchcock	BS, Wildlife, Fisheries, and Conservation Biology, 2002	Special-status species surveys and environmental document preparation	11 years	Terrestrial Biological Resources
Robin Hoffman	BA, Anthropology, 2002 MA, Latin American and Iberian Studies, 2010	Prehistoric archaeology, historical archaeology, history, GIS	12 years	Cultural Resources
Andrew Horn, PG	MS, Geological Sciences, 1997 BS, Geology, 1990	Environmental assessment of hazardous waste sites, environmental and water resource investigations	20 years	Hazards and Hazardous Materials
John Howe	MS, Environmental Biology, 2001 BS, Biology, 1993	Aquatic and wildlife ecology, wildlife surveys, habitat assessments	18 years	Terrestrial Biological Resources
Jessica Hughes	MS, Botany and Plant Pathology, 2004 BS, Biology, 2000	Botanical surveys, wetland delineation, habitat-based site assessment	10 years	Terrestrial Biological Resources
Michelle Jerman, RPA	MA, Anthropology, 2005 BA, Anthropology, 2000	Cultural resources management; archaeological identification, evaluation, and data recovery	14 years	Cultural Resources
Deborah Jew	A.A. General Education 1992 C.A. Graphic Communication 2013	Word processing and document coordination	34 years	Production
Jody Job		Word processing and document coordination	36 years	Lead Production
Laura Johnson	BS, Environmental Technology and Management MS, Environmental Science	Water Quality, Aquatic Chemistry, Biogeochemistry	5 years	Executive Summary
Melissa Johnson	BS, Design MA, History PhD, Higher Education		5 years	Data Entry
Monte Kim	PhD, History, 2005 MA, History, 1999 BA, History, 1996	Historic resource surveys, architectural resource evaluation	13 years	Cultural Resources
Jeff Kozlowski	MS, Ecology, 2004 BS, Natural Resources Management, 1986	Fish biology and fisheries management	12 years	Fish Biologist
Alexa La Plante	MS, Civil and Environmental Engineering, 2008 BA, Environmental Studies, 2001	Water quality permitting compliance, water resources planning, climate change	13 years	Climate Change
Margaret Lambright	BSC, Finance	Planning and environmental impact analysis	8 years	Data Entry Lead; Quality Control and Reporting
David Lemon	BA, US History, 2001 MA, Public History, 2005	Architectural History	14 years	Cultural Resources

Name	Education	Expertise	Experience	Project Role
Leo Lentsch	MS, Fishery and Wildlife Biology, 1985 BS, Fishery and Biology and Zoology, 1979	Conservation planning and management, species status assessments, endangered species recovery planning	27 years	Fish and Aquatic Resources
Eric Link	MS Candidate, Conservation Biology BS, Ecology	GIS, spatial data analyses, assessment modeling, conservation biology	7 years	GIS Support
Stefanie Lyster	MPA, 2003 BA, Journalism, 1998	Communications, public outreach, project management	17 years	Public Involvement, Consultation, and Coordination
Donna Maniscalco	BS, Wildlife, Fish, and Conservation Biology, 2000	Fisheries impact assessment, fish population surveys, fish sampling	15 years	Fish and Aquatic Resources
Christine Martin	BA, Anthropology, 2008	GIS, archaeological survey, sampling, excavation	12 years	Cultural Resources GIS Support
Tanya Matson	BA, Environmental Studies, 1996	Natural resources management, water resource planning, watershed management	16 years	Recreation
Cory Matsui	BA, Earth and Planetary Science, 2009 AA, Physics, 2007	Air quality and climate change environmental impact analysis	7 years	Air Quality and Greenhouse Gases
Matthew McFalls	BA, Public Administration and Urban Studies, 2003 MS, Geography, 2007	Air Quality and Greenhouse Gases	10 years	Air Quality and Greenhouse Gases
Dana McGowan, RPA	MA, Anthropology, 1990 BA, Anthropology, 1984	Cultural resource practice leader, cultural resource identification and evaluation	24 years	Cultural Resources
Tiffany Mendoza	BA, Political Science, 2004	Public involvement, community affairs	12 years	Public Involvement, Consultation, and Coordination
Timothy Messick	MA, Biology, 1982 BA, Botany, 1980 AA, Natural Resources, 1977	Graphic design, illustration, cartography, botany	32 years	Graphics
Tami Mihm	BS, Environmental Policy Analysis and Planning, 1988	Editing, NEPA/CEQA, project management	23 years	Recreation, Executive Summary, Editing
Casey Mills	MA, Political Science and Communications, 2005 BA, Psychology, 2001	Environmental justice analysis, land use analysis	10 years	Climate Change
Martin Minkoff	MS, Urban and Regional Planning, 1982 BA, Geography, 1976	Transportation planning and management, environmental review	33 years	Transportation
Bill Mitchell	MS, Fisheries Biology, 1988 BS, Biology, 1980	Fisheries and biology	32 years	Fish biologist
Dan Moreno	MA, Geography, 1979 BA, Geography, 1976	GIS	39 years	GIS
Stephanie Monzon	MA, English, 2000 BA, English, 1998	Editing and publishing	9 years	Editing
Jennifer Mosher	AA, Social Sciences BA, Economics (in progress)		5 years	Data Entry

Name	Education	Expertise	Experience	Project Role
Stephanie Myers	MS, Avian Sciences, 1987 BA, Biology, 1983	Special-status species surveys, wildlife habitat evaluation, impact assessment	28 years	Terrestrial Biological Resources
Richard Oestman	MS, Fisheries, 1991 BS, Fisheries, 1983	Fisheries and water quality, regulatory analysis, NEPA/CEQA compliance	29 years	Fish and Aquatic Resources
Corrine Ortega	AA, Communications, 1996	Document production and publication	25 years	Document Production
Bill Parker	MA, Geography, in progress BA, Anthropology, 2002 GIS Certification of Completion, 2008	GIS and habitat conservation plans	9 years	GIS
Jennifer Pierre	BS, Environmental Biology and Management, 2003	CEQA, NEPA, Water-related projects	15 years	CEQA/NEPA Project Manager
Robert Preston	PhD, Botany, 1990 MA, Botany, 1983 BA, Biological Sciences and Chemistry, 1981	Botanical surveys, wetlands delineations, wetlands permitting	24 years	Terrestrial Biological Resources
Lisa Randall	MS, Landscape Architecture, 1978 BA, English, 1974	Technical editor for CEQA and NEPA documents	36 years	Editing
Alisa Reynolds	MA Candidate, Anthropology BA, Anthropology, 1995	Cultural resources compliance for NEPA/CEQA and mitigation procedures	19 years	Cultural Resources
Robert Rivasplata	BA, History, 2008	Content analysis, Content analysis training, technical studies	8 years	Lead Coder
Diana Roberts	MA, Linguistics, 1991 BS, Applied Psychology, 1982	Environmental planning, preparation of CEQA/NEPA documents	11 years	Public Services and Utilities
Ian Rock	BA, Earth and Ocean Sciences, 2015	Environmental science, communications	1 year	Executive Summary
Anthony Rodgers-Wright	MA, Community Planning, Environmental Science, and Public Policy, 2002 BA, Environmental Science and Policy, 1999	Wetland delineation permit preparation, environmental site assessments	13 years	Hazards and Hazardous Materials
Lucy Rollins	BS, Environmental Policy Analysis and Planning	Environmental planning, preparation of CEQA/NEPA documents	1 year	Coordination
Michael Rushton	MA, Geography, 1972 BA, Geography, 1968	NEPA/CEQA compliance, natural resources management planning, environmental permitting	42 years	Terrestrial Biological Resources Paleontological Resources
Meg Scantlebury	MA, Historic Preservation, 2003 BS, Environmental Design, 1981	Section 106 implementation, cultural resources compliance	16 years	Cultural Resources
Dan Schiff	BA, Geography, 2002	GIS, geospatial database design and management	10 years	GIS Support



Name	Education	Expertise	Experience	Project Role
Brian Schuster	BS, Atmospheric, Oceanic, and Environmental Science, 2007	Air quality and climate change studies and permitting	10 years	Air Quality and Climate Change
Sacha Selim	BA, Economics/Business Management	GIS, spatial analysis, geodatabase design and topology	8 years	GIS Support
Steven Seville, PE	BS, Civil Engineering, 1997	Hydrologic modeling, topographic and bathymetric survey, hydrological data analysis	17 years	Energy
Ryan Sharpe	BA, Government	Content analysis, publications specialist	1 year	Content Analysis Team
Jessie Shen	MA, Urban Planning, New York University, 2014 BS, Environmental Policy Analysis and Planning, University of California, Davis, 2009	CEQA/NEPA	5 years	Coordination
Paul Shigley	BA, Government Journalism	Writing and editing, land use planning, environmental regulation	27 years	Managing Editor, Executive Summary, Land Use
Logan Sholar	BS, Biology, 2006	Environmental compliance documents, GIS data analysis	8 years	GIS Support
Adam Smith	MS, Urban and Regional Planning, 2011 MPA, Public Affairs, 2011 BA, Political Science, 2007	Land use planning, policy analysis, technical writing	5 years	Deputy Project Manager (2011–2015)
Tom Stewart	PhD, Geography, 1988 MS, Geography, 1981 BA, Geography, 1974	Energy and hydroelectric development, watershed analysis	38 years	Minerals
Jennifer Stock, LA	BLA, Landscape Architecture, 1999	Visual resources and shade/shadow analysis, habitat restoration projects	15 years	Aesthetics and Visual Resources
Jenny Tanphanich	BS, Environmental Engineering, 2009	Ozone depletion, emissions analysis	6 years	Air Quality and Greenhouse Gases
Silas Toms	MS Candidate, GIS BA, Geography, 2006	GIS, GPS, digital cartography	7 years	GIS Support
Roger Trott	MS, Agricultural Economics, 1983 BA, Economics, 1981	Socioeconomic assessments	32 years	Socioeconomics
Sophie Unger	PhD, Aquatic Ecology, University of Colorado, Boulder, 1985 BA, Biology, Harvard University, 1970	Environmental impact assessment and permitting, aquatic and fisheries ecology, fisheries modeling, limnology, water quality, and statistical sampling design	38 years	Biologist
Ellen Unsworth	MS, Interdisciplinary Studies (geology, biology, and technical communication), 1997 BA, Geology, 1989	Geology and paleontology sections for NEPA/CEQA documents	15 years	Paleontological Resources

Name	Education	Expertise	Experience	Project Role
Jason Volk	BS, Mechanical Engineering, 2000	Noise modeling and analysis, air quality modeling and analysis	14 years	Noise
Jennifer Wallis	MEM, Environmental Economics and Policy, 2010 BS, Environmental Conservation Studies, 2008	Marine coastal planning, ocean and coastal policy, water resource planning, fisheries policy	7 years	Public Health
Richard Walter	MA, International Relations/Energy, Environment, Science, and Technology, 1993 BA, History, 1985	Municipal climate action planning, environmental planning and compliance strategy	23 years	Climate Change
Terri Washington	AS, Mathematics/Physical Science BS, Information Systems		17 years	Comment Analysis Team, Database Support
Paul Weller, RLA, ISA, LEED AP	BLA, Landscape Architecture, 1998	Landscape architecture, arboriculture	16 years	Recreation
Alan Whipple	BA, Social Sciences, 2009	Content analysis	1 year	Content Analysis Team
Margaret Williams	PhD, Marine and Atmospheric Chemistry, 2003 BA, Environmental Science, 1997	Criteria pollutant and GHG inventories, climate change analysis	11 years	Air Quality and Greenhouse Gas Emissions Climate Change
Nicole Williams	MEM, Environmental Management, 2003 BA, Environmental Analysis and Design and Criminology, 2000	Preparation of environmental documents, project management and coordination	14 years	Public Health
Rick Wilder	PhD, Ecology, Evolution, and Marine Biology, 2003 BS, Biology, 1994	Fisheries biology	20 years	Fish and Aquatic Resources
Danielle Wilson	Business and Management, 1986	Stakeholder engagement, public education	29 years	Appendices
Rita Wilson	BA, Environmental Studies, 2013	Environmental, conservation/restoration, biological sciences	1.5 years	Executive Summary, Fish and Aquatic Resources
Barbara Wolf	MA, Anthropology, 2003 BA, Geography and Anthropology, 1997	Editing, formatting, publishing	17 years	Editing
Andrew Wones	MS, General Science (Biological Science), 1988 BS, Biology, 1984	Ecological studies, environmental impact assessments, permit applications	32 years	Fish and Aquatic Resources
Laura Yoon	MS Candidate, Environmental Management BA, Environmental Studies, 2009	Air quality impact studies, conformity analysis, dispersion modeling	5 years	Air Quality and Greenhouse Gases Climate Change
Teal Zeisler	BA, Environmental Studies, 2006	GIS, spatial analysis, mapping	8 years	GIS Support

1 **CH2M Hill**

Name	Education	Expertise	Project Role
Christine Arenal		Water Resources Engineering	Water Supply Surface Water
Lucas Bair	MS, Agricultural and Resource Economics, 2001 BS, Forestry, 1997	Resource Economics	Socioeconomics
Jeanne Brantigan, PE	MS, Civil and Environmental Engineering, 2002; BS, Mechanical Engineering, 1999	Water Resources Engineering	Water Supply Surface Water Groundwater
Nathan Brown, PG, CHg	MS, Hydrogeology, 1995 BS, Geology, 1993	Hydrogeology	Groundwater
Gwendolyn Buchholz, PE	MS, Civil Engineering, 1976 BA, Physics, 1974	Water Resources Engineering CEQA/NEPA Physical Science	Water Supply Surface Water Groundwater Socioeconomics
Earl Byron, Senior Ecologist	PhD, Ecology and Limnology BA, Marine Biology,	Environmental Science	Surface Water Quality
Chandra Chilmakuri, PE	PhD, Hydrodynamics and Environmental Modeling, 2005 MS, Civil and Environmental Engineering, 2002 BS, Civil Engineering, 2000	Water Resources Engineering	Water Supply Surface Water Groundwater Quality
Dillon Cowan, PE	MS, Cornell University, 2008 BS, Colorado State University, 2005	Water Resources Engineering	Water Supply Surface Water
Rosemarie Dimacali	MS, Civil Engineering, 2012 BS, Civil Engineering, 2009	Water Resources engineering	Water Supply Surface Water
Steven Hatchett	PhD, Agricultural Economics, 1984 MA, Administration, 1980 BS, Forestry, 1977	Resource Economics	Socioeconomics
Wendy Haydon	MS, Recreation Administration BA, Environmental Studies	Environmental Planning	Water Supply
Allan Highstreet	MS, Agricultural Economics BS, Agricultural Business Management	Resource Economics and Financial Management	Socioeconomics
Justin LaNier	MS, Civil Engineering, 2006 BS, Civil Engineering, 2002	Hydrogeology	Groundwater
Peter Lawson, PG, CHg	MS, Hydrology, 1988 BS, Geology, 1985	Hydrogeology	Groundwater
Robert Leaf, PE	MS, Civil Engineering, 1994 BS, Civil Engineering, 1992 BS, Forest and Resource Management, 1987	Water Resources Engineering	Water Supply Surface Water
Duncan Mac Ewan	PhD, Economic Geography, 2011 MS, Agricultural and Resource Economics, 2008 BS, Mathematical Economics and Economic Theory, 2006	Resource Economics	Socioeconomics
Armin Munevar, PE	MS, Civil and Environmental Engineering, 1997 BS, Civil Engineering, 1991	Water Resources Engineering	Water Supply Surface Water

Name	Education	Expertise	Project Role
Harry Ohlendorf, CWB, Senior Ecologist	PhD, Wildlife Science, 1971 MS, Wildlife Science, 1969 BS, Wildlife Science, 1962	Ecological Risk Management	Surface Water Quality
Heather Perry	MS, Hydrogeology, 2001 BS, Geology, 1996	Hydrogeology	Groundwater
Lisa Porta, PE	MS, Environmental Science and Engineering, 2007 BS, Biological Systems Engineering, 2004	Water Resources/ Hydrogeologic Engineering	Groundwater Water Supply Surface Water
Ashraf Shaqadan	PhD, Civil and Environmental Engineering–Water Resources, 2008 MS, Biological and Irrigation Engineering– Wastewater Treatment, 2003 BS, Soils and Irrigation, 1995	Water Resources Engineering	Water Supply Surface Water
Derya Sumer, PE	PhD, Civil Engineering–Water Resources, 2007 MS, Civil Engineering–Water Resources, 2002 BS, Civil Engineering, 1999	Water Resources Engineering	Water Supply Surface Water
Robert Tull, PE	MSE, Environmental Engineering, 1986 BS, Environmental Planning, 1981	Water Resources Engineering	Water Supply Surface Water
Fatuma Yusuf	PhD, Agricultural Economics, 2000 MS, Statistics, 1999 MA, Agricultural Economics, 1994 BSc, Range Management, 1990	Resource Economics	Socioeconomics

## 1 **RBI Consulting, Inc.**

Name	Education	Expertise	Experience	Project Role
Paul Bedore	MS, Environmental Earth Systems Science, 2009 MS, Natural Resources and Environmental Sciences, 2007 BS, Chemistry, 2005	Environmental fate and transport, water quality and water resources studies and impact assessments	10 years	Water Quality
Michelle Brown, PE	MS, Civil Engineering, 1996 BS, Civil Engineering, 1993	Water quality and water resources assessments related to CEQA compliance and NPDES permitting	19 years	Water Quality
Michael Bryan	PhD, Environmental Toxicology and Fisheries Biology, 1993 MS, Fisheries Biology, 1989 BS, Fisheries	Water quality, fisheries biology, aquatic toxicology research and CEQA/NEPA assessments	29 years	Water Quality
Casey Fallon	MBA, Business Administration, 2010 BBA, Finance Operations, 2004	Energy and power use data organization and analysis	11 years	Water Quality
Satya Gala, PE	PhD, Civil Engineering, 2006	Hydrology modeling, water quality modeling, wetland delineation	10 years	Water Quality
Ben Giudice	PhD, Environmental and Water Resources Engineering, 2012 MS, Environmental Engineering, 2007 BSE, Civil Engineering, 2005	Water quality, environmental fate and transport, risk assessment, ecotoxicology	10 years	Water Quality
Brant Jorgenson	PhD Candidate, Agricultural and Environmental Chemistry BS, Environmental Toxicology, 1995	Water quality analysis and characterization, contaminated sediments, water suitability assessments	17 years	Water Quality
Jeff Lafer	MS, Environmental Science, 1992 BS, Environmental Science, 1985	Water quality and water resources studies and impact assessment	25 years	Water Quality
Joan McHale	BS, Soil and Water Science, 1982	Technical editor, format and design	23 years	Water Quality
Andrew Sayers-Fay	PhD, Environmental Chemistry, 2006 BS, Chemistry, 1992	Environmental fate and transport, ecotoxicology research and technical assistance	14 years	Water Quality
Keith Whitener	BS, Wildlife and Fisheries Biology, 1988	Aquatic studies, biological assessments, land stewardship operations	20 years	Water Quality

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## 1 Fehr & Peers

Name	Education	Expertise	Experience	Project Role
Joe Anderson, EIT	BS, Civil Engineering, 2008	Traffic signal design, lighting design	6 years	Transportation
Gloria Brill		Contract administration, project coordination	23 years	Transportation
Carrie Carsell	BA, Geography and Environmental Studies, 2003	GIS, GPS, graphic design, cartography	11 years	Transportation
David Carter	MCRP, City and Regional Planning, 2008 BS, International Affairs, 2003	Transportation planning, environmental impact studies	6 years	Transportation
Fred Choa	MS, Civil Engineering, 1995 BS, Civil Engineering, 1992	Caltrans, CEQA, Transportation planning	20 years	Transportation
Daleingrid Domingo	BS, Civil Engineering, 2011	Transportation planning	4 years	Transportation
Robert Hananouchi	BS, City and Regional Planning, 2009	Traffic operations and impact analysis	2 years	Transportation
Ronald Milam	BS, Environmental Policy Analysis and Planning	Travel demand modeling, traffic operations analysis, transportation impact studies	20 years	Transportation
David Robinson, PE	BS, Civil Engineering	Traffic operations, travel demand analysis, environmental analysis	19 years	Transportation
Steven Rhyne		GIS, visual communications	23 years	Transportation
Kyle Shipley	BS, Landscape Architecture, 2010	GIS, Data visualization	5 years	Transportation
Amy Smith	MA, Geography and Regional Studies, 2009 BA, Geography and Regional Studies, 2006	GIS, visual communications	5 years	Transportation
JoLynn Souto	BS, Accounting, 1993	Administrative and accounting support	12 years	Transportation
Lindsay Soza		Accounting support	13 years	Transportation

## 2

1 **AECOM**

Name	Education	Expertise	Experience	Project Role
Nasrin Behmanesh	PhD/Chemical Engineering/ 1990/University of California, Los Angeles MS/Chemical Engineering/ 1987/University of California, Los Angeles	Air quality and greenhouse gases	21 years	Senior Air Quality Engineer
Patti Boundy	BA/English/1984/ University of the Pacific, Stockton 2007/URS Certified Project Administrator	Project/contract administration	8 years	Project Controls Specialist
Madeline Bowen	MA, History, 1992 BA, Liberal Studies, 1987	Historian, cultural resources assessment	15 years	Cultural Resources
Jennifer Burt	PhD, Restoration Ecology, 2009 MS, Conservation Biology, 2000 BS, Biology, 1999	Terrestrial ecology	10 years	Terrestrial Biology
Rudy Calderon	MA, Urban Planning, 1998 BA, Anthropology, 1992	Visual/aesthetics analysis and assessment	10 years	Visual Resources
Tiffany Carrasco- Cabana	BA/Geography/2006/ California State University, Sacramento	Computer mapping and graphics production	6 years	GIS Specialist
Tin Cheung	BA/UC Santa Barbara/1993/Geography and Environmental Studies	Air quality and greenhouse gases	22 years	Senior Environmental Scientist
Phil Dunn	MS, Fisheries Biology, 1981 BS, Zoology, 1979	CEQA/NEPA compliance, project management	30 years	AECOM project director (2009–2011)
Anne Ferguson	MS, Environmental Sustainability, 2002 BS, Natural Resource Recreation and Tourism, 2001	Recreation analysis and assessment	8 years	Recreation
Steve Heipel	BS, Anthropology, 1978	Archaeology, cultural resources	32 years	Cultural Resources
Richard Hunn	MS, Natural Resource Planning, 1979 BS, Conservation of Natural Resources, 1975	CEQA/NEPA compliance, project management, water resources planning	31 years	AECOM project manager
David Joe	MS/Civil and Environmental Engineering/2013/University of California at Davis BS/Civil and Environmental Engineering/2009/University of California at Davis	Air quality and greenhouse gases	2 years	Air Quality Engineer
Jay Kamine	BS/Chemical and Civil Engineering/1982/ University California Davis	Environmental and civil engineering planning and compliance	30 years	Senior Civil Engineer

Name	Education	Expertise	Experience	Project Role
Jenifer King	BS, Wildlife Biology, 1995	Land use planning and assessment	15 years	Land Use
Dennis Larson	MA, Economics, 2003 BA, Geography, 2001	Economic planning, assessment	7 years	Socioeconomics Environmental Justice
Thomas Leeman	MS, Natural Resources (Wildlife Option), 2000 BS, Biological Science, 1992	Wildlife biology	18 years	Terrestrial Biology
George Lu	BS, Environmental Resources and Science, 2005	Air quality	5 years	Greenhouse Gas Emissions
Brian Ludwig, Ph.D.	PhD, Anthropology, 1999 MA, Anthropology, 1992 BA, Anthropology, 1985	Archaeology, cultural resources	28 years	Cultural Resources
Jim Merk	MA, English, 1989 BA, English, 1983	Writing, editing, document production management	21 years	Technical Editor
Janis Offerman	MA/Anthropology/1981/ University of California, Davis BA/Anthropology/1977/ Sonoma State College, CA	Cultural resources management	37 years	Senior Cultural Resources Specialist
Molly Owens	BA/Environmental Studies/1996/ California State University, Sacramento 2006/URS Certified Project Manager	Project/contract administration	15 years	Project Controls Specialist
Gerrit Platenkamp	PhD, Ecology, 1989 MS, Animal and Plant Ecology, 1982 BS, Biology, 1978	Terrestrial biology, ecology	20 years	Terrestrial Biology
Chandra Purmasetty	MS/2001/Environmental Studies/Lamar University, Beaumont, Texas MS/1998/Environmental Sciences/Nagarjuna University, Guntur, Andhra Pradesh, India BS/1996/Microbiology/Osmania University, Hyderabad, Andhra Pradesh, India	Emissions Inventories Fugitive Dust Monitoring	10 years	Staff Scientist
Alexander Quinn	MA, City Planning, 1998 BA, Politics, 1994	Economic planning, assessment	14 years	Socioeconomics
Dave Rader	MA, Business Economics, 1991 BA, Print Journalism, 1984	CEQA/NEPA Compliance, Air quality	7 years	Greenhouse Gas Emissions
Barry Scott	MS, Anthropology, 1988 BA, Anthropology, 1983	Archaeology, cultural resources assessment	20 years	Cultural Resources
Ben Sigman	MS, Agricultural and Resource Economics, 2003 BA, Economics, 1999	Economic planning, assessment	10 years	Socioeconomics
Jessica Sisco	BA, Environmental Sciences, 1998	Planning, public outreach, environmental justice	10 years	Environmental Justice



Name	Education	Expertise	Experience	Project Role
Natalie Smith	BS, Environmental Science, 2002	CEQA/NEPA Compliance	9 years	Recreation, Environmental Justice, Socioeconomics
Petra Unger	MS, Botany (minors in Soil Science and Zoology), 1994	Terrestrial ecology	18 years	Terrestrial Biology
Jim Vogel	MS, Forest Recreation Resource Management, 1993 BS, Forest Recreation Resource Management, 1987	Recreation analysis and assessment	18 years	Recreation
David Weaver	PhD/Chemical Engineering/2005/Stanford University MS/Chemical Engineering/2002/Stanford University BS/Chemical Engineering, Minor in Economics/1999/Massachusetts Institute of Technology	Air quality and greenhouse gases	8 years	Air quality and greenhouse gas specialist
Stev Weidlich	MS, Anthropology, 2006 BA, Anthropology, 2003	Ethnography, social sciences	5 years	Environmental Justice
Mark Winsor, Ph.D.	PhD, Physical Geography/Geomorphology, 1985 BA, Geography, 1968	Visual/aesthetics analysis and assessment	25 years	Visual Resources

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## 2 Apple One

Name	Education	Expertise	Experience	Project Role
Sokhom Curry	AA Language and Literature, 1997	Data entry	8 years	Air Quality and Greenhouse Gases
James Lee		Administrative support	7 years	Air Quality and Greenhouse Gases
John Lee		Data entry	6 years	Air Quality and Greenhouse Gases
Stella Reyes	BS, Commerce	Financial analysis and accounting	19 years	Air Quality and Greenhouse Gases
Hannah Wasserman	BA, Sociology, 2010	Data entry and administrative support	7 years	Air Quality and Greenhouse Gases

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## 4 Black & Veatch

Name	Education	Expertise	Experience	Project Role
Steve Brockhoff	BS, Geography	Geographic Information Systems	8 Years	GIS Analyst Mapbooks
Diana Cregar	BS, Urban and Regional Planning and Historic Preservation	Geographic Information Systems	15 Years	GIS Implementation Mapbooks
Crystal Schiffbauer-Bowles	MS, Environmental Information Systems and Project Management BS, Environmental Science and Environmental Biology	Geographic Information Systems	7 Years	GIS Analysis Mapbooks

## 1 Cardno Entrix

Name	Education	Expertise	Experience	Project Role
Ramona Swenson	Ph.D., Integrative Biology, 1995 B.A., Biology, 1986	Adaptive management & monitoring, conservation biology, fisheries biology, project management	23 years	Fish and aquatic resources
Daniel Huang	MESM, Environmental Science and Management, 2011 B.S., Aquatic Biology, 2007	Aquatic ecology, natural resources management, water resources	5 years	Fish and aquatic resources
Michael Aceuituno	M.S., Biological Sciences, 1974 B.S., Biologic Sciences, 1971	Aquatic ecology, biological assessments, Endangered Species Act, fish habitat assessments and analyses	43 years	Fish and aquatic resources
Tom Taylor	M.S., Aquatic Ecology, 1978 B.A., Biology, 1970	Aquatic ecology, fishery biology, water resources development, aquatic habitat assessment, restoration of aquatic systems	37 years	Fish and aquatic resources
Melissa Klungle	B.S., Fisheries and Wildlife Management, 2004	Aquatic and terrestrial ecological risk, data analysis, database management, Endangered Species Act, habitat conservation plans	13 years	Fish and aquatic resources
Lorraine Woodman	Ph.D., Anthropology, 1981 M.A., Anthropology, 1978 B.A., Anthropology, 1975	CEQA/NEPA, project management, water resources, habitat conservation, ports and harbors	28 years	Water supply
Duane Paul	Ph.D., Agricultural Economics, 1976 M.S., Agricultural Economics, 1969 B.S., Agricultural Management, 1968	Agricultural economics, natural resources economics, benefit-cost analysis	38 years	Water supply
Rob Thomson	M.S., Ecology, 1977 B.S., Zoology, 1973	Endangered Species Act, permitting and compliance, water restoration	33 years	Water supply
Laurie Warner Herson	B.A., Anthropology, 1977	CEQA/NEPA permitting, transportation projects, regulatory specialist, cultural resources compliance	33 years	Water supply
Mark Horne	B.A., Geography-Ecosystems, 1980	Integrated water resource management, watershed planning, CEQA/NEPA analysis	34 years	Water supply

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1 **egret, inc.**

Name	Education	Expertise	Experience	Project Role
Joan Lynn		Technical writing, editing, and document production	28 years	Editing

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3 **ESA**

Name	Education	Expertise	Experience	Project Role
Leslie Moulton	BA, Human Biology	Water resource management; CEQA/NEPA compliance	27 years	Growth Inducement
Catherine McEfee	MS, Water Science, 1988 BS, Environmental Policy Analysis and Planning, 1983	Water resource management; drainage, surface, groundwater quantity and quality	23 years	Growth Inducement
Bradley Allen	BA, Geography	GIS, geography, aerial photography	13 years	Growth Inducement
David Beecroft	BA, Geography	GIS, GPS, spatial analysis	8 years	Growth Inducement
Allison Chan	BS, Environmental Biology and Management	Water resources, CEQA document preparation	8 years	Growth Inducement
Nisha Chauhan	BA, Environmental Studies	Environmental document preparation	13 years	Growth Inducement
Shana DeClercq	BA	Technical support		Growth Inducement
Josh Ferris	BA, Environmental Studies and Anthropology	Project planning, alternatives analysis, agency coordination	11 years	Growth Inducement
Paul Garcia	BS, Environmental Policy Analysis and Planning	Land use planning and compatibility, hydrology and water quality	9 years	Growth Inducement
Todd Gordon	BS, Animal Science and Management	Data sampling, QA/QC, data review	5 years	Growth Inducement
Jill Hamilton	BS, Political Science, 1989	Water supply, recycled water, and wastewater projects	21 years	Growth Inducement
Mariah Mills	MESM, Environmental Science and Management BA, Environmental Studies	Water quality, stormwater management, wetland permitting and mitigation		Growth Inducement
Christine Mueller	MCP, Environmental Policy and Planning BA, Earth Sciences and Environmental Studies	Growth inducement, water supply and demand analysis	16 years	Growth Inducement
Victor Mullins	MLS, Library and Information Science BA, English Literature	Administrative and library support		Growth Inducement
Logan Sakai	AS, Electronics Technology	Desktop publishing and editing		Growth Inducement
Andrea Thorpe	BA Candidate, Interdisciplinary Studies	Administrative and technical support	16 years	Growth Inducement
Thomas Wyatt	AA, Art and Photography	Graphics, web site design		Growth Inducement

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## 1 Estep Environmental Consulting

Name	Education	Expertise	Experience	Project Role
James Estep	BS, Wildlife and Fisheries Biology, 1984	Resource conservation and wildlife management planning	31 years	Terrestrial Biological Resources

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## 3 Loren Bottorff

Name	Education	Expertise	Experience	Project Role
Loren Bottorff				Water Supply Groundwater

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## 5 SAIC

Name	Education	Expertise	Experience	Project Role
Vanessa Emerzian	MS Natural Resources Planning, 2008 BS, Natural Resources Planning, 1997	Conservation ecology	16 years	Fish and Aquatic Resources
Juan Pablo Galván	MS Sustainable Development and Conservation Biology 2008 BS, Ecology, Behavior, and Evolution, 2005	Ecology and conservation biology	10 years	Fish and Aquatic Resources
Chris Hunt	MS Environmental Science, 2001 BS, Biology, 1998	Fisheries biology	15 years	Fish and Aquatic Resources
Monica Stillman	MS Earth Science/Oceanography, 1991 BS, Geology, 1985	NEPA coastal ecology	24 years	Fish and Aquatic Resources

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## 1 33.2 Preparers by Resource

### **Project Management Team**

Steve Centerwall  
Teresa Chan Dykstra  
Erin Gustafson  
Gregg Roy  
Emily Setzer

### **Water Supply**

Christine Arenal  
Loren Bottorff  
Gwendolyn Buchholz  
Earl Byron  
Chandra Chilmakuri  
Dillon Cowan  
Rosemarie Dimacali  
Wendy Haydon  
Robert Leaf  
Armin Munevar  
Harry Ohlendorf  
Ashraf Shaqadan  
Derya Sumer  
Robert Tull

### **Surface Water**

Christine Arenal  
Gwendolyn Buchholz  
Earl Byron  
Chandra Chilmakuri  
Dillon Cowan  
Rosemarie Dimacali  
Wendy Haydon  
Robert Leaf  
Armin Munevar  
Harry Ohlendorf  
Ashraf Shaqadan  
Derya Sumer  
Robert Tull

### **Groundwater**

Loren Bottorff  
Gwendolyn Buchholz  
Jeanne Brantigan  
Nathan Brown  
Justin LaNier  
Peter Lawson  
Heather Perry  
Lisa Porta

### **Soils**

Joel Butterworth

### **Fish and Aquatic Resources**

Pat Crain  
Gregg Ellis  
Matilda Evoy-Mount  
Marin Greenwood  
Erin Healy  
Jeff Kozlowski  
Leo Lentsch  
Stefanie Lyster  
Donna Maniscalco  
Bill Mitchell  
Rick Oestman  
Jennifer Pierre  
Tom Stewart  
Bob Sullivan  
Sophie Unger  
Rick Wilder  
Andrew Wones

### **Terrestrial Biological Resources**

James Estep  
Rachel Gardiner  
Jennifer Haire  
Leila Harris  
Erin Hitchcock  
John Howe  
Jessica Hughes  
Stephanie Myers  
Robert Preston  
Michael Rushton  
Paul Shigley

### **Land Use**

William Bumback  
Lesia Erecius  
Emily Setzer  
Paul Shigley  
Adam Smith

### **Agricultural Resources**

Lesia Erecius  
Adam Smith

**Water Quality**

Paul Bedore  
Michelle Brown  
Michael Bryan  
Earl Byron  
Casey Fallon  
Satya Gala  
Ben Giudice  
Brant Jorgenson  
Jeffrey Lafer  
Joan McHale  
Andrew Sayers-Fay  
Keith Whitener

**Geology and Seismicity**

Joel Butterworth  
Teresa Chan

**Socioeconomics**

Lucas Bair  
Gwendolyn Buchholz  
Stephen Hatchett  
Allan Highstreet  
Duncan Macewan  
Emily Setzer  
Adam Smith  
Roger Trott  
Fatuma Yusuf

**Aesthetics and Visual Resources**

Tami Mihm  
Jennifer Stock  
Paul Weller

**Cultural Resources**

Mike Aviña  
Joanne Grant  
Kathryn Haley  
Michelle Jerman  
Monte Kim  
Christine Martin  
Dana McGowan  
Alisa Reynolds  
Meg Scantlebury

**Recreation**

Russell Brown  
Tanya Matson  
Tami Mihm  
Emily Setzer  
Paul Weller

**Noise**

Victoria Axiaq  
David Buehler  
Jason Volk

**Hazards and Hazardous Materials**

Gary Clendenin  
Lesia Erecius  
John Horn  
Anthony Rodgers-Wright  
Adam Smith

**Public Health**

Lesia Erecius  
Jennifer Wallis  
Nicole Williams

**Mineral Resources**

Teresa Chan  
Tom Stewart

**Paleontological Resources**

Teresa Chan  
Tom Stewart  
Ellen Unsworth

**Environmental Justice**

Mike Aviña  
Bonnie Chiu  
Emily Setzer

**Climate Change**

DWR  
Victoria Axiaq  
Anthony Held  
Alexa La Plante  
Casey Mills  
Richard Walter  
Margaret Williams  
Laura Yoon

**Transportation**

Joe Anderson  
 Victoria Axiaq  
 Gloria Brill  
 Rodney Brown  
 Carrie Carsell  
 David Carter  
 Fred Choa  
 Daleingrid Domingo  
 Yonnel Gardes  
 Robert Hananouchi  
 Ronald Milam  
 Martin Minkoff  
 Steve Rhyne  
 Robert Rivasplata  
 David Robinson  
 Emily Setzer  
 Kyle Shipley  
 Adam Smith  
 JoLynn Souto  
 Lindsey Soza  
 Laura Yoon

**Public Services and Utilities**

Teresa Chan  
 Bonnie Chiu  
 Lindsay Christensen  
 Diana Roberts

**Energy Resources**

Russell Brown  
 Gregg Roy  
 Steve Seville  
 Laura Yoon

**Air Quality and Greenhouse Gases**

Victoria Axiaq  
 Brenda Chang  
 Sokhom Curry  
 Nicholas Dreves  
 Shannon Hatcher  
 Anthony Held  
 David Joe  
 James Lee  
 John Lee  
 Cory Matsui  
 Matthew McFalls  
 Stella Reyes  
 Brian Schuster  
 Adam Smith  
 Jenny Tanphanich  
 Hannah Wasserman

**Growth Inducement**

Bradley Allen  
 David Beecroft  
 Russell Brown  
 Allison Chan  
 Teresa Chan  
 Nisha Chauhan  
 Shana DeClercq  
 Joshua Ferris  
 Paul Garcia  
 Todd Gordon  
 Jill Hamilton  
 Karen Lancelle  
 Catherine McEfee  
 Mariah Mills  
 Leslie Moulton  
 Christine Mueller  
 Victor Mullins  
 Logan Sakai  
 Andrea Thorpe  
 Thomas Wyatt

**Other CEQA/NEPA Required Sections**

Victoria Axiaq  
 Steve Centerwall  
 Lesa Erecius  
 Emily Setzer  
 Adam Smith  
 Ellen Unsworth

**Public Involvement, Consultation and Coordination**

Shay Humphrey  
 Stefanie Lyster  
 Tiffany Mendoza  
 Ingrid Norgaard

**List of Preparers**

Teresa Chan Dykstra  
 Shay Humphrey  
 Emily Setzer

**Glossary**

Lawrence Goral  
 Paul Shigley

**Graphics**

Alan Barnard  
 John Durnan  
 Teresa Giffen  
 Timothy Messick  
 Senh Saelee

**Air Quality and Greenhouse Gases—Continued**

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Angela Woodward  
Laura Yoon

**GIS**

Kasey Allen  
Alex Angier  
Steve Brockhoff  
Daniel Cardoza  
John Chadbourne  
Diana Creager  
Becky Crosswhite  
Edward Douglas  
Paul Glendening  
Erica Hall  
Eric Link  
Christine Martin  
Dan Moreno  
Bill Parker  
Sacha Selim  
Dan Schiff  
Crystal Schiffbauer-Bowles  
Logan Sholar  
Silas Toms  
Teal Zeisler

**Editors**

Deb Bartley  
Kenneth Cherry  
Teresa Giffen  
Lawrence Goral  
Joan Lynn  
Tami Mihm  
Stephanie Monzon  
Lisa Randall  
Paul Shigley  
Barbara Wolf

**Production**

Saadia Byram  
Susan Davis  
Lawrence Goral  
Shay Humphrey  
Deborah Jew  
Jody Job  
Corinne Ortega