

Metropolitan Water District of Southern California

Templates Report by Organization Detail

Grouped By – Section

Filtered By – Engineering Services Group

Version 1

Memberships, Outside Services - Non Prof, Professional Services, Repairs & Maintenance - Outside Services, Sponsorships, Training, Travel

Engineering Services Group

Design Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	CDHS Treatment Operator/Distribution Operator	Certification renewal	1,000	1,000	1,000
	Hydraulics Institute	Provides staff with latest information related to technical knowledge of hydraulics and pump standards	2,200		
	IHS Global Standards	"Technical knowledge: On-Line service for ASME, AWWA, API, ANSI"	83,900		
	Institute of Electrical & Electronic Engineers (IEEE)	"Technical knowledge: system design methods, industrial standards, code changes,& trends in electronics,electrical power, computers & telecommunications"	500		
	Institute of Electrical & Electronic Engineers (IEEE)	Technical knowledge: system design methods, industrial standards, code changes,& trends in electronics,electrical power, computers & telecommunications		500	500
	National Fire Protection Association	For technical development in preparation for emergency response situations	200	200	200
	Professional Engineers License Renewals	Professional Licenses required by the District MOU and state law.	9,000	9,800	9,000
	Professional Licenses	Professional Licenses required by the District MOU and state law		500	500
	Professional Memberships	Include: ASCE, ASME, AAES		1,600	1,600
	Storm Water Pollution Preparation Plans (SWPPP)	Provides staff with latest codes related to the regulations required for design of storm water prevention pollution plans.	500	500	500
	Technical Subscriptions	"Include : Proceedings of the Institution of Mechanical Engineers,Tunneling, Modern Power Systems, Concrete Construction, Int'l Water Power & Dam Construction"	15,100	8,300	9,200
Technical Subscriptions	Include : Proceedings of the Institution of Mechanical Engineers,Tunneling, Modern Power Systems, Concrete Construction, Int'l Water Power & Dam Construction		9,200	8,400	
Total Memberships			112,400	31,600	30,900
Professional Services	Consultants - TBD	Provide support for State Water Project	30,000	30,000	30,000
	Various On-Call Consultants	Provide supporting technical services to assist updates to CAD platforms and BIM		15,000	15,000
	Various On-Call Design and Architectural Consultants	"Provide supporting engineering services to DWR, architectural, HSE (Health, Safety, Environmental) & unplanned O&M requests"	25,000	12,500	12,500
	Various On-Call Design and Architectural Consultants	Provide supporting engineering services to DWR, architectural, HSE (Health, Safety, Environmental) & unplanned O&M requests		12,500	12,500
Total Professional Services			55,000	70,000	70,000
Training	ASCE Technical Seminars	"Technical knowledge: latest codes and design information in tunneling, seismic retrofitting and codes,"	1,000	1,000	1,000
	ASME Piping Design	"Technical knowledge: piping code requirements, analysis techniques"	3,400		
	ASME Piping Design	Technical knowledge: piping code requirements, analysis techniques		3,400	3,400
	Allen-Bradley PLC Seminar	Technical knowledge: design of PLC based controlled systems	3,000	3,000	3,000
	American Concrete Institute	Technical knowledge of latest modifications to the existing concrete code	2,000	2,000	2,000
	American Society of Civil Engineers (ASCE)/WEB Seminar	Technical knowledge: latest modifications to the new ASCE7 requirements	1,000	1,000	1,000
	CAL/OSHA - Health & Safety	Technical knowledge: latest codes & design information in health & safety engineering	300	300	300
	California Fire Code Update Seminar	Technical knowledge: latest fire protection code regulations & requirements	700	700	700
	California Hazardous Waste Management Training	"Technical knowledge: latest hazardous material storage, handling and disposal requirements"	600		
	California Hazardous Waste Management Training	Technical knowledge: latest hazardous material storage, handling and disposal requirements		600	600
	International Building Code Web Seminars	Technical knowledge: latest modification to the existing concrete code	600	600	600
	Microsoft Inroad Training	Technical knowledge: latest civil design programming	4,000	4,000	4,000
	PSP/Physical Security Professional Training & Certification	Technical knowledge: design building security	2,000		
	SWPPP Preparation Seminar (Storm Water Prevention Pollution Plans)	Technical knowledge: latest codes related to regulations for approval - Storm Water Prevention Pollution Plans	400	400	400
	Technical Seminars	Technical knowledge: latest process/mechanical related products and services for treatment plant facility design & maintenance	1,000	4,000	9,000
Total Training			20,000	21,000	26,000
Travel	ASCE Pipeline & Tunnels Conferences	Technical knowledge: latest information on new technology	2,400	2,400	2,400
	AWWA Annual Conference & Exposition / Fluoride Standards Committee	Technical knowledge: Update information in water treatment technology and related equipment	2,700	2,700	2,700

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Design Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Travel	AWWA Annual Conference & Exposition / Fluoride Standards Committee	Technical knowledge: Update information in water treatment technology and related equipment		1,400	1,400
	Allen Bradley PLC Seminar	"Technical knowledge: PLC applications knowledge for in house expertise to ensure quality design, field supports & cost efficiency"	500		
	Allen Bradley PLC Seminar	Technical knowledge: PLC applications knowledge for in house expertise to ensure quality design, field supports & cost efficiency		500	500
	American Concrete Institute	Technical knowledge: latest information on concrete code	800	800	800
	California Hazardous Waste Management Training	"Technical knowledge: hazardous materials storage, handling & disposal requirements"	200		
	California Hazardous Waste Management Training	Technical knowledge: hazardous materials storage, handling & disposal requirements		200	200
	Chlorine Institute Annual Meeting	"Technical knowledge:latest information on improved chlorine safety through design, operations/maintenance practices"	4,100		
	Chlorine Institute Annual Meeting	Technical knowledge:latest information on improved chlorine safety through design, operations/maintenance practices		4,100	4,100
	DWR Support	Participation on Technical Advisory Committee for DWR planned refurbishment or replacement work	3,200	3,200	3,200
	Fire Protection Agency Seminar	Technical knowledge: fire protection and hazardous material information	800	800	800
	SWPPP (Storm Water Prevention Protection Plans)	Technical knowledge: latest codes related to regulations for approval - Storm Water Prevention Pollution Plans	500	500	500
	Technical Conferences	"Technical knowledge: seismic design, earthquake resistance design, structural, construction technologies"	3,300	9,800	9,800
	Technical Conferences	Technical knowledge: seismic design, earthquake resistance design, structural, construction technologies		30,000	30,000
	Water Environment Federation Annual Technical Conference	Technical knowledge: water quality and process design	1,500		
Total Travel			20,000	56,400	56,400
Total Design Section			207,400	179,000	183,300

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Engineering Planning Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	"Means, Richardson and other Cost Engineering"	Publications that focuses on latest cost and productivity trends in he	3,000	3,000	3,000
	American Public Works Association	Provides the latest relevant public works laws, practices and regulations		600	600
	American Society of Professional Estimators	Technical knowledge & latest information construction cost estimating	700	700	700
	Association for the Advancement of Cost Engineering	Allows 2 staff members; for technical development of staff in this are	100	100	100
	Association of American Cost Engineers	Provides staff with the most current industry standards for project scheduling		2,000	2,000
	Basecamp	Provides real-time communications for staff and member agencies		1,000	1,000
	California Association of Public Procurement Officials, Inc.	Provides the exchange of knowledge in the field of procurement techniques		100	100
	California Department of Health	Renewal of certification for T2 Treatment License	100	100	100
	Climate Registry	"Provide access to industry recognized accurate, consistent and independently verified system to collect and report greenhouse gas emissions"	5,500	5,500	5,500
	Construction Claims Monthly	This specialized newsletter provides summaries of court decisions rela	400	400	400
	PlanetBids	Service provides vendor management, contract compliance, contract administration, off-site bidding system	13,000	10,900	10,900
	Professional Licenses	"Professional licenses, Water Treatment Distribution Certification, Land Surveyor licenses"	3,500	3,500	3,500
	Professional Licenses and other licenses	Professional Licenses required by the District MOU and state law.	2,000	2,000	2,000
	Society of Value Engineering	Technical knowledge & latest information in the field of value engineering	1,200	1,500	1,500
	Survey Monkey Subscption	Provides on-line survey development and analysis of survey information		400	400
	UndergroundServiceAlert	"Provide""Call before you dig""information service in order to comply with California State Law"	75,000	123,000	127,600
Total Memberships			104,500	154,800	159,400
Professional Services	Consultants TBD (Facility Planning)	Technical support in Energy Management Planning		100,000	75,000
	Consultants TBD (Facility Planning)	Technical support with MWD greenhouse gas reporting		15,500	16,000
	Consultants TBD (Facility Planning)	Technical support with dam inundation maps		200,000	200,000
	Consultants TBD (Facility Planning)	Technical support with development of asset management plan and database in the C & D system		60,000	60,000
	Consultants TBD (Facility Planning)	Technical support with evaluations of seismic resilience of MWD system and facilities		100,000	100,000
	Consultants TBD (Facility Planning)	Technical support with vulnerability, reliability and system flexibility assessments		100,000	100,000
	Consultants: TBD (Facility Planning)	Technical support for facility planning	495,000		
	Consultants: TBD (Hydraulics)	Technical support in in complex surge/transient analysis in distribution system	25,000		
	TBD	Technical support for Project Control Reporting System data warehouse, reports and dashboards		100,000	100,000
	TBD	Technical support for Project Control Reporting System software for intergrated Primavera with Oracle EBS		100,000	100,000
Total Professional Services			520,000	775,500	751,000
Training	AWWA	For technical development and latest information on water issues	500	500	500
	Local Seminars & Training: Construction Contract Development	"Training for maintenance & development related to spec development, advanced public works contracting strategies, contractual/regulatory construction issues for the state of California"	700	500	700
	Local Seminars: Construction Claims and Construction Contract Administration	"Training for maintenance & development related to administration of construction contracts, mitigation of exposure to construction claims"	800	500	800
	MOD I and MOD II Value Engineering Certification Training	Training for certification in value engineering	1,500	1,200	1,500
	Online Training in Project Controls	Training for maintenance & development related to project support/controls	1,000	700	1,000
	Online Training: Construction Cost Estimating	Training for maintenance & development related to construction contract estimating	600	500	600
	Technical Seminars/Hydraulics Issues	Technical knowledge: hydraulic related topics	1,800	1,300	1,800
	Technical Serminars/Various Topics	"Technical knowledge: maintenance of staff DHS certifications, desalination, microfiltration, sustainability, reliability, WTP design"	2,700	1,700	2,700
	Training: Certificate in Construction Estimating	Training for certification in construction estimating	2,000	1,000	2,000
Total Training			11,600	7,900	11,600
Travel	American Water Works Association (AWWA) Annual Conference	Technical knowledge on latest information in water and technology	2,000		

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Engineering Services Group

Engineering Planning Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Travel	Business Meetings w/State Agencies	Meetings w/DWR on operational and reliability issues w/State Water	4,300	4,300	4,300
	Clean 17	Technical knowledge on the latest information in water and technology	4,000	3,000	3,000
	Construction Superconference	"Technical knowledge: developments in the specialized area of construction claims & disputes, mitigation of exposure to construction disputes and unsubstantiated construction claims"	1,200	1,200	1,200
	Miscellaneous Travel Expenses	"Miscellaneous travel related expenses: mileage, parking, meals"	2,600	2,600	2,600
	SAVE MOD 1 & MOD II	Technical knowledge: latest information on various technical aspects of value engineering	2,000	2,000	2,000
	Society of Value Engineering	Technical knowledge on latest information in value engineering	2,000	2,000	2,000
	Technical Conferences	"Technical knowledge: developing & implementing new technologies, processes & products to enhance water reliability, water supply, water quality"	2,000	2,000	2,000
	Technical Seminars	"Technical knowledge: DHS operator certification, Intergrated Area Studies, facility planning, infrastructure reliability"	600	600	600
	Technical Seminars/Hydraulic Issues	"Technical knowledge: hydraulic related topics, turbulent flow, software improvements for hydraulic issues"	300	300	300
Total Travel			21,000	18,000	18,000
Total Engineering Planning Section			657,100	956,200	940,000

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Infrastructure Reliability Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	ACI International	Membership provides monthly periodicals regarding recent materials testing	200	500	300
	AWS CWI License Renewals	License renewals and recertification	500	2,100	500
	American Society for Non-Destructive Testing/ASNT	"Provides updates on technology, codes, and processes"	100	100	100
	American Society of Mechanical Engineering (ASME)	"Membership provides monthly periodicals regarding latest information on welding applications, methods"	200	500	200
	American Welding Society	American Welding Society	600	900	500
	Association of State Dam Safety Officials	Provides technical knowledge related to dam safety	400		
	California Land Surveyors Association	"Latest knowledge and updates on issues related to land surveying, processes, county fees and legislative information"	1,600	2,700	2,700
	Digital Map Products, Data Tree	Provides property and assessor data including maps for surveying		19,800	19,800
	Int'l Right of Way Association	Provides latest in right of way information	500	800	800
	League of California Surveying Organizations	"Provides updates on current county fees, processes, legislative changes in Land Surveyor's Act"	100	100	100
	National Association of Corrosion Engineers ("Required to provide inspection on DWR and MSU inspection work and updates on technology, codes, and processes. Membership dues."	600	600	600
	NearMap	Provides high resolution aerial imagery for GIS and land surveying		5,000	5,000
	PE License Renewals	P.E. License renewals	500	1,600	700
	Professional Licenses Fees	Professional License required by the District MOU and state law.	4,300	3,200	3,000
	Society for Protective Coatings SSPC	"Provides updates on technology, codes, and processes"	300	300	300
Urban & Regional Information Systems Assoc / URISA	Provides latest information in the use of and integration of spatial information technology	200	200	200	
Total Memberships			10,100	38,400	34,800
Outside Services - Non Prof	"Various Counties (San Bernardino, Orange, Ventura, Yolo, Sacramento, Contra Costa, Solano, San Joaquin, San Diego"	County tract/parcel/record of survey. Purchase of maps to support Core business functions.	300	300	300
	A-A Enterprises	Annual calibration of concrete compression testing equipment.	1,200		
	A-A Enterprises	Calibrate Louis Harness Tester used in Materials Testing Lab. Calibrate EPOCH portable field hardness tester.	300	300	300
	Atlas Manufacturing	Maintain and calibrate the Atlas accelerated weathering machine. Time for preventive maintenance and new light calibrations.	12,800	10,000	10,000
	Calibration Services	Calibrate reference (calibration) equipment	1,200		
	California Real Time Network (CRTN)	Real time GPS network service provider		15,000	15,000
	Fritz Instruments	Maintain operation and visual acuity of laboratory microscopes	700	500	500
	Instron Corp.	Maintain and calibrate the Instron Universal Tinseling Testing machine used to conduct physical performance tests.	4,500	3,000	3,000
	Micro Precision Calibration Inc.	Annual calibration of lab & field scales.	2,200	2,200	2,200
	NDT Equipment Maintenance/Calibration	Equipment maintenance and calibration	1,200	800	800
	Rayne Water	"Deionize water service for weatherometer, high humidity testing chamber and general laboratory use."	8,200	6,000	6,000
	Sy Nielson	Maintain operation and calibration of laboratory scales	200	200	200
	TBD: Calibration and Service of Hand Held Digital Electrical Meters	"Calibration & service of hand held digital electrical meters (multimeters, meggers, amp meters)."	400		
	TBD: Calibration and Service of Hand Held Digital Electrical Meters	Calibration & service of hand held digital electrical meters (multimeters, meggers, amp meters)		400	400
	TBD: Calibration and Service of Large Electrical Test Equipment	"Calibration& service of large electrical test equipment (low resistance ohmmeters, high voltage meggers, hipot, transformer turns ratiometer)."	600		
	TBD: Calibration and Service of Large Electrical Test Equipment	Calibration& service of large electrical test equipment (low resistance ohmmeters, high voltage meggers, hipot, transformer turns ratiometer).		600	600
	TBD: Calibration and Service of Mechanical Test Equipment	"Calibration & service of mechanical test equipment (torque wrenches, skidmore bold tension indicator, vibration meter)."	400		
	TBD: Calibration and Service of Mechanical Test Equipment	Calibration & service of mechanical test equipment (torque wrenches, skidmore bold tension indicator, vibration meter).		400	400
	TBD: Soils/Concrete Lab Equipment Calibration	Annual calibration of concrete compression testing equipment.		1,500	
	TBD:Soils/Concrete Lab Equipment Calibration	Annual calibration of concrete compression testing equipment.			1,500
Various Counties-Review for Record Survey Mapping	Record of survey mapping recordation	6,000	4,000	4,000	

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Infrastructure Reliability Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Outside Services - Non Prof	Various Title Companies	Preliminary title reports required for MWD knowledge of encumbrances impacting property potentially hazardous to future MWD facilities. Costs have increased.	14,000	9,000	9,000
Total Outside Services - Non Prof			54,200	54,200	54,200
Professional Services	"Consultant: Digital Map Products, First American Core Logic"	Provide property ownership and assessor data as well as recorded documents.	24,800		
	Consultant Services - TBD	DAM EAP Outreach support	100,000		
	Consultant Services - TBD	DAM EAP Training and exercise	100,000		
	Professional Laboratory Services	Provide specialized laboratory services	3,000	3,000	3,000
Total Professional Services			227,800	3,000	3,000
Repairs & Maintenance - Outside Services	TBD: Service Provider	"Lab Equipment repairs, maintenance and calibration of equipment not covered by maintenance contract"	3,000	3,000	3,000
	TBD: Service Provider	"Provides funds to call in a service person to maintain fax machines, printers, miscellaneous equipment not covered by a maintenance contract."	1,000	1,000	1,000
	TBD: Service Provider	"Surveyors services and other specialty vendors to maintain, repair and calibrate electronic survey equipment not covered by maintenance contract"	3,000	3,000	3,000
	TBD: Service Provider	"Surveyors services and other specialty vendors to maintain, repair and calibrate electronic survey equipment"	10,000	10,000	10,000
	TBD: Service Provider	ADAS equipment not covered by maintenance contract	10,000		
Total Repairs & Maintenance - Outside Services			27,000	17,000	17,000
Training	"Technical Seminar: Corrosion, Material Performance, Infrastructure Protection"	"Technical knowledge of latest technologies in corrosion, coating & maintenance technologies related to infrastructure protection"	4,000	4,000	4,000
	"Technical Seminar: Dam Safety, Dam Design , Geotechnical Engineering"	"Technical knowledge of latest technologies in dam safety, dam design, geotechnical engineering"	4,000		
	ACI Certification	Technical certification from American Concrete Institute		8,000	
	CMU Training and Seminars	Technical based convention/seminars		4,000	4,000
	CWI/AWS (Certified Welding Inspector/American Welding Society)	Seminar and Exam	2,200		
	CWI/AWS(Certified Welding Inspector/American Welding Society)	Seminar and exam		5,000	2,800
	Local Training and Seminars	Technical development training	11,000	6,000	6,000
	Technical Seminars/Conferences	Technical development training	2,500	2,500	2,500
Total Training			23,700	29,500	19,300
Travel	Annual Conference for US Society of Dams	Technical knowledge of latest information in dam safety surveillance	6,000		
	California Land Surveyors Association (CLSA) Conference	"Conference focuses on western regional issues related to surveying and mapping practices. Knowledge of legal issues affecting survey procedures, policies, boundary and title."	2,000	3,000	3,000
	Division of Safety of Dams (DSOD) Meetings	"Technical knowledge of latest information on mandated surveillance requirements, operation certificate conditions and dam fees"	3,500		
	Local Technical Seminars, Training and Conferences	Technical knowledge in latest technologies in the fields of corrosion, materials testing, PCCP, forensic investigation, GPS, dam safety, surveying and mapping	7,000	8,500	8,500
	Mileage Reimbursements	Mileage reimbursements	1,000	1,000	1,000
	Miscellaneous Travel Expenses	"Miscellaneous travel expenses: i.e. Metrolink, mileage."	4,500	4,500	4,500
	Semi Annual MWD Dam Inspections (Desert)	Lodging and meals during semi-annual inspections of MWD dams in the desert	1,000		
	Technical Seminars, Training and Conferences	Technical knowledge in latest technologies in the fields of corrosion, materials testing, PCCP, forensic investigation, GPS, dam safety, surveying and mapping	7,800	16,700	16,700
Total Travel			32,800	33,700	33,700
Total Infrastructure Reliability Section			375,600	175,800	162,000

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Office of Engineering Serv Group Manager

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	American Academy of Environmental Engineers and Scientists	Provides staff with latest technical knowledge of environmental issues	200	200	200
	Engineering News Record	On-line construction cost/price index & technical knowledge of engineering advancements	300	300	300
	International Ozone Association	"International Ozone Association (G. Johnson, J. Bednarski)"	500		
	PE Licenses	Professional Licenses required by the District MOU and state law	500		
	PE Licenses	Professional Licenses required by the District MOU and state law for Safety of Dams		1,900	1,900
	PE Licenses	Professional Licenses required by the District MOU and state law.	1,400	1,400	1,400
	SME	UC Assoc of the Society for Mining & Metallurgy & Exploration	1,800	1,800	1,800
	Water Desalination Report	This newsletter is produced on a weekly basis and includes updates on	2,000	2,000	2,000
Total Memberships			6,700	7,600	7,600
Professional Services	Consultant Services - TBD	Technical support for Dam Safety Initiatives		175,000	175,000
	Consultants: TBD	Technical support for the California WaterFix	250,000	250,000	250,000
	Consultants: TBD	Technical support for the regional recycled program	500,000	500,000	500,000
Total Professional Services			750,000	925,000	925,000
Repairs & Maintenance - Outside Services	TBD: Service Provider	ADAS equipment not covered by maintenance contract		1,000	1,000
Total Repairs & Maintenance - Outside Services				1,000	1,000
Training	Colorado School of Mines and Microtunneling	Technical knowledge in the field of tunneling	4,000		
Total Training			4,000		
Travel	Annual Conference for US Society of Dams	Technical knowledge of latest information in dam safety surveillance		3,000	3,000
	Clean 17	Technical knowledge on the latest information in water and technology	4,000	4,000	4,000
	Colorado School of Mines and Microtunneling	Technical knowledge in the field of tunneling	2,000	8,500	8,100
	Cutting Edge Conference	Technical knowledge on advances in tunneling technology	2,500	2,500	2,500
	Division of Safety of Dams (DSOD) Meetings	Technical knowledge of latest information on mandated surveillance requirements, operation certificate conditions and dam fees		3,500	3,500
	North American Tunneling Society	Technical knowledge on the latest information in tunneling and underground construction	2,500	2,500	2,500
	Offsite Field Meetings	"Travel for field inspections, member agency meetings, DWR/SWC"	7,500	7,500	7,500
	Offsite Meetings	"Travel for field inspections, member agencies, technical conferences, AWWA, ASCE"	15,000	15,000	15,000
	Offsite Travel	Travel in support of the California WaterFix	50,000		
	Semi Annual MWD Dam Inspections (Desert)	Lodging and meals during semi-annual inspections of MWD dams in the desert		1,000	1,000
	State Water Contractor's Meeting	Meetings in Northern California dealing with State Water Contractor issues	7,500	7,500	7,500
Total Travel			91,000	55,000	54,600
Total Office of Engineering Serv Group Manager			851,700	988,600	988,200

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Program Management Section

Template Type	Org/Vendor/Provider	Description	Budget	Proposed	Proposed Plus One
Memberships	Professional License	Professional Licenses required by the District MOU and state law.	3,300	4,600	4,800
Total Memberships			3,300	4,600	4,800
Training	Online Training in Project Management	Training for development related to project management	3,000	4,000	5,200
Total Training			3,000	4,000	5,200
Travel	American Membrane Technology Association Conference (AMTA)	Technical knowledge: membrane technologies	1,000	1,200	1,200
	American Society of Civil Engineers Pipelines Conference	Technical knowledge: pipelines technologies	900	1,200	1,200
	American Society of Civil Engineers: Electrical Transmission & Substation Conference	Technical knowledge: latest information on electrical transmission and substation technologies	900	1,200	1,200
	California-Nevada Section Fall AWWA Conference	"Technical knowledge: state of the art information on current and future water treatment processes that may impact MWD infrastructure, latest equipment and technologies"	1,300	800	800
	California-Nevada Section Fall AWWA Conference	Technical knowledge: state of the art information on current and future water treatment processes that may impact MWD infrastructure, latest equipment and technologies		800	800
	California-Nevada Section Spring AWWA Conference	"Technical knowledge: state of the art information on current and future water treatment processes that may impact MWD infrastructure, latest equipment and technologies"	1,400	800	800
	California-Nevada Section Spring AWWA Conference	Technical knowledge: state of the art information on current and future water treatment processes that may impact MWD infrastructure, latest equipment and technologies		800	800
	International Ozone Association World Congress	"Technical knowledge: ozone technology, new technical approaches & concepts in information-sharing with ozone authorities"	1,800		
	Technical Seminars/Conferences	Technical knowledge: latest information on construction processes and project management		2,200	2,600
Total Travel			7,300	9,000	9,400
Total Program Management Section			13,600	17,600	19,400
Total Engineering Services Group			2,105,400	2,317,200	2,292,900