

**DRAFT**  
**TABLE 2**

**Seaside Basin Monitoring and Management Program**  
**MPWMD/ MCWRA and RBF Team Proposed Scope and Budget**

Task No.	Task Description	Lead	Mgmt (M) Impl (I)	Performed By			Labor Budget		Total
				MPWMD/ MCWRA	RBF Team	MPWMD	RBF Team		
<b>M. 1</b>	<b>Program Administration</b>	<b>MPWMD</b>	<b>M</b>						
M. 1. a.	Program Management Plan	MPWMD	M	x		\$ 2,376		\$ 2,376	
M. 1. b.	Preparation and Control of Detailed Primavera Schedule	MPWMD	M/I	x	RBF	\$ 4,752	\$ 40,000	\$ 44,752	
M. 1. c.	Preparation and Control of Detailed Project Budget	MPWMD	M	x	RBF	\$ 4,176	\$ 20,000	\$ 24,176	
M. 1. d.	Manage Consultant Contracts	MPWMD	M	x		\$ 9,504		\$ 9,504	
M. 1. e.	Review/ Approve Consultant Invoices	MPWMD	M	x		\$ 2,088		\$ 2,088	
M. 1. f.	Assist with Board and TAC Agendas	MPWMD	M	x		\$ 4,752		\$ 4,752	
M. 1. g.	Coordinate Project Team Meetings	MPWMD	M	x		\$ 3,168		\$ 3,168	
M. 1. h.	Prepare Board and TAC Reports	MPWMD	M	x		\$ 4,752		\$ 4,752	
M. 1. i.	Attendance of Meetings	MPWMD	M/I	x	RBF	\$ 5,940	\$ 60,500	\$ 66,440	
M. 1. j.	Status Updates	MPWMD	M/I	x	RBF	\$ 1,188	\$ 60,500	\$ 61,688	
M. 1. k.	Peer Review of Documents and Reports	MPWMD	M	x	RBF	\$ 7,128	\$ 8,000	\$ 15,128	
M. 1. l.	QA/QC	MPWMD	M	x		\$ 1,584		\$ 1,584	
					Subtotal	\$ 51,408	\$ 189,000	\$ 240,408	
<b>I. 1.</b>	<b>Monitor Well Construction</b>	<b>RBF</b>							
I. 1. a.	Oversight of Field Program	MPWMD	M/I	x		\$ 9,504		\$ 9,504	
I. 1. b.	New Well Site Selection and Acquisition	RBF	M/I	x	RBF	\$ 1,980	\$ 32,500	\$ 34,480	
I. 1. c.	Secure New Well Permits/ Environmental Review	RBF	I		RBF		\$ 32,500	\$ 32,500	
I. 1. d.	Basis of Design Report	RBF	I		RBF/ASRS/Pueblo		\$ 17,500	\$ 17,500	
I. 1. e.	Technical Specifications and Bid Documents	RBF	I		RBF/ASRS/Pueblo				
I. 1. e. 1.	Develop 90% Specs and Schedule	RBF	I				\$ 16,500	\$ 16,500	
I. 1. e. 2.	Final Specs, Bid Sheet, Engineer's Cost-Est	RBF	I				\$ 8,750	\$ 8,750	
I. 1. e. 3.	Assist in Permit Acquisition	RBF	I				\$ 9,050	\$ 9,050	
I. 1. f.	Bidding Support	RBF	I		RBF/ASRS/Pueblo				
I. 1. f. 1.	Addendum and Technical Support	RBF	I				\$ 9,900	\$ 9,900	
I. 1. f. 2.	Contractor Selection, Qualification	RBF	I				\$ 5,000	\$ 5,000	
I. 1. g.	Construction Management	RBF	M/I		RBF/ASRS/Pueblo				
I. 1. g. 1.	Submittal Review	RBF	I				\$ 8,100	\$ 8,100	
I. 1. g. 2.	Mobilization/ Contractor Coordination	RBF	I				\$ 11,200	\$ 11,200	
I. 1. g. 3.	Change Order Preparation	RBF	I				\$ 10,275	\$ 10,275	
I. 1. g. 4.	Monthly Progress Reports/ Pay-Estimates	RBF	I				\$ 21,600	\$ 21,600	
I. 1. h.	Monitoring Well Construction	RBF	I		RBF/ASRS/Pueblo				
I. 1. h. 1.	Drilling, Geophysical Surveys, Well Design	RBF	I				\$ 220,050	\$ 220,050	
I. 1. h. 1. 1.	Conductor Casing	RBF	I						
I. 1. h. 1. 2.	Pilot Borehole Drilling	RBF	I						
I. 1. h. 1. 3.	Open Borehole Geophysical Surveys	RBF	I						
I. 1. h. 1. 4.	Well Construction and Development	RBF	I						
I. 1. h. 2.	Well Development	RBF	I				\$ 53,900	\$ 53,900	
I. 1. h. 3.	Install WL/WQ Probes at New Sites (16 new wells)	RBF	I				\$ 9,500	\$ 9,500	
I. 1. h. 4.	Baseline WQ Sampling	RBF	I				\$ 25,200	\$ 25,200	
I. 1. i.	Baseline Cased Well Geophysical Surveys	RBF	I		RBF/ASRS/Pueblo				
I. 1. i. 1.	Vertical Conductivity Profiles	RBF	I				\$ 9,475	\$ 9,475	
I. 1. i. 2.	Vertical Gamma/EM Profiles	RBF	I				\$ 9,475	\$ 9,475	
I. 1. j.	Well Completion Reporting	RBF	I		RBF/ASRS/Pueblo				
I. 1. j. 1.	Completion Reports, As-Built Well Diagrams	RBF	I				\$ 32,000	\$ 32,000	
I. 1. j. 2.	Lithologic, Geophysical Logs	RBF	I				\$ 13,800	\$ 13,800	
I. 1. j. 3.	Baseline WQ Data and Lab Analyses	RBF	I				\$ 19,500	\$ 19,500	
					Subtotal	\$ 11,484	\$ 575,775	\$ 587,259	
<b>I. 2.</b>	<b>Production, Water Level and Quality Monitoring</b>	<b>RBF</b>							
I. 2. a.	Basin Management Database Development	RBF	I						
I. 2. a. 1.	Coordination with Watermaster to Review Database	RBF	M/I	x	RBF	\$ 1,584	\$ 30,000	\$ 31,584	
I. 2. a. 1. 1.	Review of MPWMD Database to Catalog Historical Data	RBF	I						
I. 2. a. 1. 2.	Review of MPWMD Database to Catalog Ongoing Data Collection	RBF	I						
I. 2. a. 2.	Develop Scope to Enhance or Develop New Database	RBF	I		RBF		\$ 5,000	\$ 5,000	
I. 2. a. 3.	Create Basin Management Database	RBF	I	x	RBF	\$ 2,680	\$ 20,000	\$ 22,680	
I. 2. a. 4.	Populate Database with Data from all sources	RBF	I		RBF		\$ 20,000	\$ 20,000	
I. 2. a. 5.	Conduct ongoing data entry/ database maintenance	RBF	M/I	x	RBF	\$ 2,208	\$ 22,000	\$ 24,208	
I. 2. b.	Data Exchange and Collection	MPWMD	M						
I. 2. b. 1.	Establish Agreements and Schedule	MPWMD	M			\$ 1,128	\$ 7,000	\$ 8,128	
I. 2. b. 2.	Establish Data Types, Formats	MPWMD	M			\$ 5,640	\$ 7,000	\$ 12,640	
I. 2. b. 3.	Purchase Database Server Hardware	MPWMD	M			\$ 4,200		\$ 4,200	
I. 2. c. 1.	Develop Data Archiving Procedures	MPWMD	M	x	RBF	\$ 5,640	\$ 5,800	\$ 11,440	
I. 2. c. 2.	Purchase Data Archiving Hardware	MPWMD	M			\$ 3,676		\$ 3,676	
I. 2. d.	Develop Data QA/QC Procedures	MPWMD	M	x	RBF	\$ 1,808	\$ 7,350	\$ 8,958	
I. 2. e.	Review Existing Water Level Monitoring Program	MPWMD	I	x	RBF/ASRS/Pueblo	\$ 552	\$ 16,000	\$ 16,552	
I. 2. f.	Review Existing Water Quality Monitoring Program	MPWMD	I	x	RBF/ASRS/Pueblo	\$ 552	\$ 16,000	\$ 16,552	
I. 2. g.	Data Collection Program Enhancements	MPWMD	I	x					
I. 2. g. 1.	Site Representation, Selection	RBF	I	x	RBF/ASRS	\$ 276	\$ 16,000	\$ 16,276	
I. 2. g. 2.	Install Dedicated Transducers/Dataloggers (6 existing wells)	MPWMD	I	x		\$ 12,000		\$ 12,000	
I. 2. g. 3.	Collect Monthly Manual Water Levels	MPWMD	M	x		\$ 6,624		\$ 6,624	
I. 2. g. 4. 1.	Collect Quarterly Water Quality Samples	MPWMD	M	x		\$ 26,496		\$ 26,496	
I. 2. g. 4. 2.	WQ Lab Analyses (new wells, Baseline not included)	MPWMD	M	x		\$ 22,500		\$ 22,500	
I. 2. g. 5. 1.	Update Program Schedule and SOP	MPWMD	M	x		\$ 1,656		\$ 1,656	
I. 2. g. 5. 2.	Reduced Cost Due to Existing MPWMD Monitoring Program	MPWMD	M	x		\$ (15,698)		\$ (15,698)	
I. 2. h.	Annual Maintenance: Transducers, Dataloggers, and Sampling Pumps	MPWMD	M				\$ 4,000	\$ 4,000	
I. 2. i.	Annual Geophysical Survey (4 wells)	MPWMD	M	x		\$ 552		\$ 552	
I. 2. i. 1.	Vertical Conductivity Profiling	MPWMD	M	x		\$ 4,000		\$ 4,000	
I. 2. i. 2.	Vertical Gamma/EM Profiling	MPWMD	M	x		\$ 4,000		\$ 4,000	
I. 2. j.	Existing Monitor Well Evaluation	RBF	I	x	RBF/ASRS/Pueblo	\$ 792		\$ 792	
I. 2. j. 1.	Del Monte Test Well for Sentinel Well	RBF	I		RBF/ASRS/Pueblo		\$ 10,400	\$ 10,400	
I. 2. j. 2.	Key Laguna Seca Subbasin Locations	RBF	I		RBF/ASRS/Pueblo		\$ 15,600	\$ 15,600	
I. 2. j. 3.	Key S-Coastal Subbasin Locations	RBF	I		RBF/ASRS/Pueblo		\$ 12,475	\$ 12,475	
I. 2. j. 4.	Summary Technical Memorandum with Recommendations	RBF	I		RBF/ASRS/Pueblo		\$ 16,475	\$ 16,475	
I. 2. k.	Laguna Seca Water Quality Investigation	RBF	I		RBF/ASRS/Pueblo		\$ 18,875	\$ 18,875	
I. 2. l.	Provide Training on Monitor Program (new wells)	RBF	I		RBF/ASRS/Pueblo		\$ 21,250	\$ 21,250	
I. 2. m.	Reports	RBF	I		RBF/ASRS		\$ 42,300	\$ 42,300	
I. 2. m. 1.	Water Quality and Water Level Quarterly Reports	RBF	I						
I. 2. m. 2.	Annual Reports	RBF	I						
					Subtotal	\$ 96,566	\$ 309,525	\$ 406,091	

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MPWMD/ MCWRA and RBF Team Proposed Scope and Budget									
Task No.	Task Description	Lead	Mgmt (M) Impl.(I)	Performed By		Labor Budget			
				MPWMD/ MCWRA	RBF Team	MPWMD	RBF Team	Total	
<b>I. 3 Basin Management</b>									
I. 3. a.	Develop Criteria and Protocol for Management Actions	RBF/MPWMD	M/I	x	RBF/MPWMD	\$ 3,280	\$ 6,000	\$ 9,280	
I. 3. b.	Enhanced Seaside Basin Groundwater Model	RBF/MPWMD	M	x	RBF/MPWMD	\$ 4,920	\$ -	\$ 4,920	
I. 3. b. 1.	Oversight of Groundwater Model Development Program				RBF/ HydroMetrics	\$ -	\$ 20,500	\$ 20,500	
I. 3. b. 2.	Identify Questions, Concerns, and Issues for Model- Develop Watermaster Goals	RBF	M/I		RBF/ HydroMetrics	\$ -	\$ 20,500	\$ 20,500	
I. 3. b. 3.	Develop Scope to and Costs for Model	RBF	I		RBF/ HydroMetrics	\$ -	\$ 15,000	\$ 15,000	
I. 3. b. 4.	Develop an Agreeable Basin Water Budget	RBF	I		RBF/ HydroMetrics	\$ -	\$ 9,700	\$ 9,700	
I. 3. b. 5.	Extract Info from Other Models	RBF	I		RBF/ HydroMetrics	\$ -	\$ 14,100	\$ 14,100	
I. 3. b. 6.	Import All Data into Model Environment	RBF	I		RBF/ HydroMetrics	\$ -	\$ 14,100	\$ 14,100	
I. 3. b. 7.	Calibrate Model to Measured Data	RBF	I		RBF/ HydroMetrics	\$ -	\$ 34,250	\$ 34,250	
I. 3. b. 8.	Run Model to Enhance Basin Management/ Address Questions	RBF	I		RBF/ HydroMetrics	\$ 6,560	\$ -	\$ 6,560	
I. 3. c.	Prepare Basin Management and Action Plan	RBF	I	x	RBF/ASRS	\$ -	\$ 13,300	\$ 13,300	
I. 3. c. 1.	Supplemental Water Supplies	RBF	I			\$ -	\$ 13,600	\$ 13,600	
I. 3. c. 1. 1	Review Of Monterey Peninsula Water Supply Projects Distribution and Delivery System/ End Use Consumer	RBF	I			\$ -	\$ 14,700	\$ 14,700	
I. 3. c. 1. 2	Improvements and Mandatory Conservation Efforts	RBF	I			\$ -	\$ 18,200	\$ 18,200	
I. 3. c. 1. 3	Non-Potable Water Resources	RBF	I			\$ -	\$ 18,200	\$ 18,200	
I. 3. c. 1. 4	Out-of-Basin Imports	RBF	I			\$ -	\$ 18,200	\$ 18,200	
I. 3. c. 1. 5	Develop Technical Memorandum	RBF	I			\$ -	\$ 50,000	\$ 50,000	
I. 3. c. 2.	Pumping Redistribution Strategies	RBF	I		RBF/ HydroMetrics/ASRS	\$ -	\$ 5,700	\$ 5,700	
I. 3. c. 2. 1	Basin overdrift, mandatory GW reduction	RBF	I			\$ -	\$ 5,700	\$ 5,700	
I. 3. c. 2. 2	Salinity detection, mandatory GW reduction	RBF	I			\$ -	\$ 20,400	\$ 20,400	
I. 3. c. 2. 3	Reduced GW delivery impacts and solutions	RBF	I			\$ -	\$ 12,900	\$ 12,900	
I. 3. c. 2. 4	In Lieu, Voluntary pumping reductions	RBF	I			\$ -	\$ 13,500	\$ 13,500	
I. 3. c. 2. 5	Water Banking	RBF	I			\$ -	\$ 13,500	\$ 13,500	
I. 3. c. 2. 6	Salinity barrier system	RBF	I			\$ -	\$ 20,750	\$ 20,750	
I. 3. c. 2. 7	Develop TM on pumping variability	RBF	I			\$ -	\$ 50,000	\$ 50,000	
I. 3. d.	Plan Preparation	RBF	I			\$ -	\$ 50,000	\$ 50,000	
					Subtotal	\$ 14,760	\$ 354,600	\$ 369,360	
<b>I. 4. Seawater Intrusion Contingency Plan</b>									
I. 4. a.	Oversight of Seawater Intrusion Detection and Tracking	RBF	M/I			\$ 3,648	\$ -	\$ 3,648	
I. 4. a.		MCWRA	M	x					
I. 4. b.	Develop Seawater Intrusion Analysis Protocol	RBF	M		RBF/ HydroMetrics/ASRS	\$ 3,648	\$ 11,500	\$ 15,148	
I. 4. c.	Identify and Locate Wells	RBF	I	x	RBF/ HydroMetrics	\$ 912	\$ 18,500	\$ 19,412	
I. 4. d.	Compile and QA Historical Data	RBF	I	x	RBF/ HydroMetrics	\$ 1,824	\$ 17,000	\$ 18,824	
I. 4. e.	Prepare Baseline Water Level Contour Mapping	RBF	I			\$ 912	\$ 12,500	\$ 13,412	
I. 4. e.		MCWRA							
I. 4. f.	Prepare Mapped Representation of Baseline Basin Pumping	RBF	I		RBF/ HydroMetrics	\$ 912	\$ 12,500	\$ 13,412	
I. 4. g.	Graph and Map Historical Data/Establish Baseline Water Quality	RBF	I	x	RBF/ HydroMetrics	\$ 1,824	\$ 16,800	\$ 18,624	
I. 4. h.	Analyze and Map Water Quality from Coastal Monitoring Wells	RBF	I	x	RBF/ HydroMetrics	\$ 1,824	\$ 17,500	\$ 19,324	
I. 4. i.	Annual Report- Seawater Intrusion Analysis	RBF	I	x	RBF/ HydroMetrics	\$ 3,648	\$ 20,050	\$ 23,698	
I. 4. j.	(Contingency) Develop Response Plan	RBF	I	x	RBF/ HydroMetrics/ASRS	\$ 2,736	\$ 23,050	\$ 25,786	
					Subtotal	\$ 21,888	\$ 149,400	\$ 171,288	
					TOTAL	\$ 196,106	\$ 1,578,300	\$ 1,774,406	
Notes: x- indicates work performed by									
M- Indicates Management									
I- indicates Implementation									