

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: 1/1/2009

RFS NO. 2009-01

(To be filled in by WATERMASTER)

TO: Derrick Williams
HydroMetrics LLC
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER


Services Needed and Purpose: See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2009, and shall be performed in accordance with the Schedule contained in Attachment 2.

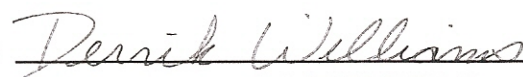
Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$ 78,920.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 3 for Detailed Breakdown of Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by:  Date: 12/10/08
WATERMASTER Technical Program Manager

Authorized by:  Date: 12/10/2008
WATERMASTER Chief Executive Officer

Agreed to by:  Date: 12-09-2008
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK

The scope includes providing professional consulting services to WATERMASTER for:

- Completing the Basin Management Action Plan (BMAP) and the Seawater Intrusion Response Plan (SIRP), the preparation of both of which was authorized under RFS No. 2008-01
- Providing hydrogeologic consulting services, as requested
- Preparing the 2009 Seawater Intrusion Analysis Report (SIAR).

A separate scope and cost proposal will be submitted for updating and running the groundwater model of the Seaside Groundwater Basin.

TASKS 1 & 2 COMPLETE BMAP AND SIRP

Under RFS No. 2008-01, work on the BMAP and SIRP started and was substantially completed in 2008. That work included providing a complete Final Draft of the SIRP to WATERMASTER in late November, 2008 for distribution to the Board in early December, 2008. The work under RFS No. 2008-01 will conclude with providing a complete Final Draft of the BMAP to WATERMASTER in late December, 2008 for distribution to the Board in early January, 2009.

Under this RFS No. 2009-01 the effort required to complete these two documents in early 2009 is limited to:

- Giving presentations to the Board
- Making edits based on comments received
- Preparing and producing 15 printed and bound copies of the Final BMAP, and a CD containing the entire document in MS Word
- Preparing and producing 15 printed and bound copies of the Final SIRP, and a CD containing the entire document in MS Word

TASK 3 PROVIDE HYDROGEOLOGIC CONSULTING SERVICES

On an ongoing and as-requested basis, PROFESSIONAL will provide general hydrogeologic consulting services to WATERMASTER on a variety of topics. These may include, but not be limited to, site selection and design considerations for new monitoring wells, interpretation of water level and water quality data collected by WATERMASTER, and BMAP and SIRP implementation issues.

Providing these services will likely involve attending certain of WATERMASTER's Technical

Advisory Committee (TAC) meetings, most of which will be attended telephonically. These TAC meetings do not include special TAC or other meetings which may be required as part of performing groundwater modeling for WATERMASTER. The separate scope and cost proposal that will be submitted to WATERMASTER for updating and running the groundwater model will incorporate costs for these meetings.

TASK 4

PRODUCE THE 2009 SEAWATER INTRUSION ANALYSIS REPORT (SIAR)

To promote efficiency, much of the text and graphics from the 2008 SIAR will be incorporated directly into the 2009 SIAR. Changes that will be incorporated into the 2009 SIAR will include:

- Updating charts, graphs, and maps to reflect the most recent sampling and water level data.
- Analyzing the quarterly electric induction logs (EM logs) from the newly installed sentinel wells to look for evidence of seawater intrusion.
- Incorporating data from new wells which may be added to WATERMASTER's enhanced monitoring well network.

Preparing the 2009 SIAR will involve analyzing all water quality data at the end of Water Year 2009 (October 1, 2008 to September 30, 2009) and producing semi-annual (2nd and 4th quarters 2009) chloride concentration maps for each aquifer in the Basin. Time series graphs, trilinear graphs, and stiff diagram comparisons will be updated with new data. Second and fourth quarter groundwater elevation maps will also be produced. The annual EM logs will be analyzed to identify changes in seawater wedge locations. A determination of whether there is any evidence of seawater intrusion will be made, and recommendations will be included as warranted.

A Draft 2009 SIAR will be provided to WATERMASTER in electronic (not printed) form for review. WATERMASTER will provide its review comments and those of its TAC members through direct discussions with PROFESSIONAL at a TAC meeting. In addition to these oral comments, some TAC members may also provide recommended editorial changes electronically directly to PROFESSIONAL. These comments will be addressed in a Final 2009 SIAR. A CD containing an electronic version of the entire Final 2009 SIAR in MS Word and 15 printed and bound copies of the Final 2009 SIAR will be provided to WATERMASTER.

ATTACHMENT 2

SCHEDULE

Seaside Basin WaterMaster Monitoring and Management Program 2009 Work Schedule

ID	Task Name	2009																		
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	F	
1	CRITICAL PROJECT MILESTONES ASSOCIATED WITH TAC, BOARD, AND/OR CONSULTANT WORK																			
2	2009 Administration, Operations and Replenishment Budgets Due					◆	Completed													
3	2010 Administration, Operations and Replenishment Budgets																			
4	Prepare M&MP Draft Budgets																			
5	TAC Approves M&MP Budgets																			
6	Board Approves M&MP Budgets																			
7	Watermaster Prepares Quarterly Water Production, Water Level, and Water Quality Reports					◆		◆												
32	Replenishment Assessment Unit Costs for Water Year 2010																			
33	Develop Replenishment Assessment Unit Cost for 2010 Water Year																			
34	TAC Approves 2010 Water Year Replenishment Assessment Unit Cost																			
35	Board Adopts and Declares 2010 Water Year Replenishment Assessment Unit Cost																			
36	Replenishment Assessments for Water Year 2010																			
37	Watermaster Prepares Replenishment Assessments for Water Year 2010																			
38	Watermaster Board Approves Replenishment Assessments for Water Year 2009																			
39	Watermaster Levies Replenishment Assessment for 2009																			

Seaside Basin WaterMaster Monitoring and Management Program 2009 Work Schedule

ID	Task Name	2009																	
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	F
55	Board Approval of Consultant Contracts for 2009				◆ 12/3														
56	IMPLEMENTATION																		
57	I.2.a DATABASE MANAGEMENT																		
58	I.2.a.1 Conduct Ongoing Data Entry/Database Maintenance																		
59	Perform Data Entry (Production, Level, and Quality)																		
60	Select New Database Host Site and Database Maintenance Firm				◆ 11/21														
61	Prepare and Issue Contract to New Database Maintenance Firm				◆ 11/26														
62	Install Database on New Host Site																		
63	Correct Deficiencies in Existing Database																		
64	I.2.a.2 Verify Accuracy of Production Meters																		
65	Determine Which Meters Require Calibration																		
66	Select Contractor to Perform Meter Calibration																		
67	Perform Meter Calibration and Report Results																		
68	I.2.b DATA COLLECTION PROGRAM																		
69	I.2.b.1 Site Selection for New Monitoring Well																		

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ID	Task Name	2009																	
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	F
70	I.2.b.5 Monitor Well Construction																		
71	Design, Permits, CEQA. And Approvals																		
72	Construction																		
73	I.3.a ENHANCED SEASIDE BASIN GROUNDWATER MODEL																		
74	I.3.a.1 Update the Existing Model																		
75	TAC Identifies Questions to be Answered by Updated Model																		
76	Board Concurs with Questions to be Answered by Updated Model, or Adds Additional Questions																		
77	Develop Scope of Work and Costs to Update the Model and Use it for Basin Management Purposes																		
78	TAC Approves Scope of Work and Costs to Update the Model and Use it for Basin Management Purposes																		
79	Board Approves Scope of Work and Costs to Update the Model and Use it for Basin Management Purposes																		
80	HydroMetrics Updates the Model																		
81	HydroMetrics Makes Summary Report to TAC on Updating of the Model																		
82	I.3.a.2 Develop Protective Water Levels																		
83	HydroMetrics Develops Protective Water Levels																		
84	HydroMetrics Makes Summary Report to TAC on Protective Water Levels																		

ATTACHMENT 3

DETAILED BREAKDOWN OF ESTIMATED COSTS

Note: Regardless of the use of the term "Estimated Cost" in this RFS, if the work of this RFS is to be compensated for using Lump Sum Payment method, it is understood and agreed to by PROFESSIONAL that the Total Price listed on page 1 of this RFS is binding and limiting as defined in Section V of the Agreement.