## Monitoring and Management Plan Operations Budget

### For Tasks to be Undertaken in 2018

<table>
<thead>
<tr>
<th>Task</th>
<th>Subtask</th>
<th>Sub-Subtask</th>
<th>Cost Description</th>
<th>CONSULTANTS &amp; CONTRACTORS(21)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>MPWMD</td>
<td>Private Consultants</td>
<td>Contractors</td>
</tr>
</tbody>
</table>

### Labor

#### M.1 Program Administration

- **M.1.a** Project Budget and Controls
  - $0
  - $50,000
  - $0
  - $50,000
  - $60,000

- **M.1.b** Assist with Board and TAC Agendas
  - $0
  - $0
  - $0
  - $0
  - $0

- **M.1.c & M.1.d** Preparation for and Attendance at Meetings(22)
  - $0
  - $11,500
  - $0
  - $11,500
  - $7,000

- **M.1.e** Peer Review of Documents and Reports(23)
  - $0
  - $7,500
  - $0
  - $7,500
  - $7,376

- **M.1.f** QA/QC
  - $0
  - $0
  - $0
  - $0
  - $0

- **M.1.g** SGMA Documentation Preparation
  - $0
  - $1,900
  - $0
  - $1,900
  - $1,900

### M.1 Program Administration

**Technical Project Manager**

- $0

### M.1 Program Administration

- **M.1.a** Project Budget and Controls
  - $0

### M.1 Program Administration

- **M.1.b** Assist with Board and TAC Agendas
  - $0

### M.1 Program Administration

- **M.1.c & M.1.d** Preparation for and Attendance at Meetings(22)
  - $0

### M.1 Program Administration

- **M.1.e** Peer Review of Documents and Reports(23)
  - $0

### M.1 Program Administration

- **M.1.f** QA/QC
  - $0

### M.1 Program Administration

- **M.1.g** SGMA Documentation Preparation
  - $0

### I. 2. a. Database Management

- **I. 2. a. 1.** Conduct Ongoing Data Entry/ Database Maintenance/Enhancement
  - $14,604
  - $2,400
  - $0
  - $17,004
  - $13,452

### I. 2. a. Database Management

- **I. 2. a. 2.** Verify Accuracy of Production Well Meters
  - $0
  - $0
  - $0
  - $0
  - $0

### I. 2. b. Data Collection Program

- **I. 2. b. 1.** Site Representation and Selection(27)
  - $0

### I. 2. b. Data Collection Program

- **I. 2. b. 2.** Collect Monthly Water Levels(28)
  - $3,726
  - $0
  - $0
  - $3,726
  - $7,192

### I. 2. b. Data Collection Program

- **I. 2. b. 3.** Collect Quarterly Water Quality Samples(2,3)(28)
  - $24,542
  - $0
  - $26,586
  - $51,128
  - $55,520

### I. 2. b. Data Collection Program

- **I. 2. b. 4.** Update Program Schedule and Standard Operating Procedures.
  - $0
  - $0
  - $0
  - $0
  - $0

### I. 2. b. Data Collection Program

- **I. 2. b. 5.** Monitor Well Construction(27)
  - $0

### I. 2. b. Data Collection Program

- **I. 2. b. 6.** Reports
  - $3,576
  - $0
  - $0
  - $3,576
  - $2,688

### I. 2. b. Data Collection Program

- **I. 2. b. 7.** CASGEM Data Submittal for Watermaster's Voluntary Wells
  - $2,384
  - $0
  - $0
  - $2,384
  - $1,792

### I. 3. a. Enhanced Seaside Basin Groundwater Model

- **I. 3. a. 1.** Update the Existing Model(29)
  - $0

### I. 3. a. Enhanced Seaside Basin Groundwater Model

- **I. 3. a. 2.** Develop Protective Water Levels(22)
  - $0

### I. 3. a. Enhanced Seaside Basin Groundwater Model

- **I. 3. a. 3.** Evaluate Replenishment Scenarios and Develop Answers to Basin Management Questions(20)
  - $0

### I. 3. a. Enhanced Seaside Basin Groundwater Model

- **I. 3. b.** Complete Preparation of Basin Management Action Plan
  - $0

### I. 3. a. Enhanced Seaside Basin Groundwater Model

- **I. 3. c.** Refine and/or Update the Basin Management Action Plan
  - $0

### I. 3. a. Enhanced Seaside Basin Groundwater Model

- **I. 3. d.** Evaluate Coastal Wells for Cross-Aquifer Contamination Potential
  - $0

### I. 3. a. Enhanced Seaside Basin Groundwater Model

- **I. 3. e.** Seaside Basin Geochemical Model(23)(24)
  - $0

### I. 4. a. Seawater Intrusion Contingency Plan

- **I. 4. a.** Oversight of Seawater Intrusion Detection and Tracking
  - $0

### I. 4. a. Seawater Intrusion Contingency Plan

- **I. 4. b.** Provide focused area hydrogeologic investigation for Sand City Public Works
  - $0

### I. 4. a. Seawater Intrusion Contingency Plan

- **I. 4. c.** Annual Report- Seawater Intrusion Analysis
  - $1,192

### I. 4. a. Seawater Intrusion Contingency Plan

- **I. 4. d.** Complete Preparation of Seawater Intrusion Response Plan(2)
  - $0

### I. 4. a. Seawater Intrusion Contingency Plan

- **I. 4. e.** Refine and/or Update the Seawater Intrusion Response Plan(2)(9)
  - $0

### I. 4. a. Seawater Intrusion Contingency Plan

- **I. 4. f.** If Seawater Intrusion is Determined to be Occurring, Implement Contingency Response Plan(2)
  - $0

### TOTALS CONSULTANTS & CONTRACTORS

- $50,024
- $263,820
- $26,586

- SUBTOTAL not including Technical Program Manager = $290,430
- $183,706

- Contingency (not including Technical Program Manager) @ 10% = $29,043
- $12,091

- Technical Program Manager = $50,000
- $60,000

- TOTAL = $369,473
- $255,797
Footnotes:

(1) Under this Subtask the Watermaster will directly contract with an outside contractor to perform the Sentinel Well induction logging work, and to also collect and analyze water quality samples in conjunction with doing the induction logging. MPWMD will perform the other portions of the work of this Subtask.
(2) The response plan would only be implemented in the event sea water intrusion is determined to be occurring.
(3) Within the context of this document the term “Consultant” refers either to a Private Consultant providing professional engineering or other types of technical services, or to the Monterey Peninsula Water Management District (MPWMD). The term “Contractor” refers to a firm providing construction or field services such as well drilling, induction logging, or meter calibration.
(4) Due to the uncertainties of the exact scopes of some of the larger Tasks listed above at the time of preparation of this Budget, e.g. Tasks I.3.a.1, I.3.c, and I.3.e, it is recommended that a Contingency of approximately 10% be included in the Budget.
(5) Includes $1,000 to maintain equipment previously installed for this purpose. Also includes lab costs to analyze for barium and iodide ions in certain of these wells as was done in preceding years beginning in 2012.
(6) Does not include costs for MPWMD to collect water level data or water quality samples from wells other than those that are part of the basic monitoring well network, i.e. for private well owners who have requested that the Watermaster obtain this data for them. Costs to obtain that data are to be reimbursed to the Watermaster by those well owners, so there should be no net cost to the Watermaster for that portion of the work under these Tasks. Includes the purchase and installation of four new and/or replacement dataloggers at a price of $680, plus $50 for installation parts for each datalogger.
(7) No additional monitoring well is expected to be constructed in 2018.
(8) For HydroMetrics and Todd Groundwater to provide hydrogeologic consulting assistance to the Watermaster, beyond that associated with performing other specified Tasks, when requested to do so by the Technical Program Manager. This work may include participation in conference calls and reviewing documents prepared by others.
(9) If work under this Task is found to be necessary, it will be funded through the Contingency line item in this Budget.
(10) Since the Model and BMAP will be updated under Tasks I.3.a.1 and I.3.c respectively, this Task would only be used if there were other issues the Board wished to evaluate and which were not covered in the updated BMAP.
(11) It is anticipated that the costs to perform this Task will be shared by the Watermaster, MPWMD, and One Water Monterey (formerly MRWPCA). It is expected that the Watermaster's share of these costs will be 50% and that the other 50% will be funded by those other entities.
(12) If new protective water levels are warranted, that work will be included in Task I.3.a.1.
(13) This is a new Task proposed for 2018. It is anticipated that the Watermaster will be reimbursed for the costs to perform this work by the three proponents of the projects that intend to inject new sources of water into the Basin. These are California American Water, MPWMD, and One Water Monterey (formerly MRWPCA). Therefore, there should be no net cost to the Watermaster for the work of this Task.
(14) The work for this Task is described in the M&MP as consisting of two Steps. The dollar amount shown in this budget only covers the estimated cost of Step 1. After Step 1 is completed, if the Board determines to pursue Step 2, funding for that work will likely be provided by the Contingency line item, or from other tasks that have unused funds.