

**MINUTES OF THE ENGINEERING COMMITTEE MEETING  
OF THE RAINBOW MUNICIPAL WATER DISTRICT  
NOVEMBER 2, 2016**

1. **CALL TO ORDER** – The Engineering Committee Meeting of the Rainbow Municipal Water District on October 5, 2016 was called to order by Chairperson Prince at 3:00 p.m. in the Board Room of the District, 3707 Old Highway 395, Fallbrook, CA 92028. Chairperson Prince, presiding.

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL:**

**Present:** Member Prince, Member Stitle, Member Brazier, Member Taufer, Member Murray, Member Kirby, Member Ratican, Alternate Marnett.

**Also Present:** General Manager Kennedy, Engineering Manager Kirkpatrick, Associate Engineer Powers, Eng. Tech Rubio.

**Absent:** Alternate Robertson.

**Members of the public present:** Mr. Goldman and Mr. Erickson (RMC).

4. **SEATING OF ALTERNATES**

Quorum was met no alternates were seated.

5. **ADDITIONS/DELETIONS/AMENDMENTS TO THE AGENDA (Government Code §54954.2)**

There were no additions/deletions/amendments to the agenda.

6. **PUBLIC COMMENT RELATING TO ITEMS NOT ON THE AGENDA**

There were no public comments.

**COMMITTEE ACTION ITEMS**

\*7. **APPROVAL OF MINUTES**

A. October 5, 2016

Mr. Stitle pointed out a typo for correction.

**Motion: Accept the minutes pending correction.**

**Action: Approve, Moved by Member Prince, Seconded by Member Taufer.**

**Vote: Motion carried by unanimous roll call vote (summary: Ayes = 7).**

**Ayes: Member Prince, Member Stitle, Member Brazier, Member Taufer, Member Murray, Member Kirby, Member Ratican.**

**8. UPDATE AND DISCUSSION WITH OCEANSIDE REGARDING THE INDIRECT POTABLE REUSE STUDY**

Mr. Kennedy introduced Mr. Goldman a consultant from RMC Water and Environment. He said Mr. Goldman was hired by the City of Oceanside to prepare an Indirect Potable Reuse Study (IPR). He explained Mr. Goldman would be providing information on the IPR Study and how the District may be able to participate.

Mr. Goldman said RMC has been working with the City of Oceanside on the IPR project for two years. He summarized the goals and objectives of the project as follows: to establish feasibility of IPR water of approximately 5K AF in the Mission Basin, improve groundwater basin reliability, optimize recycled water from San Luis Rey Wastewater Recycle Facility (WRF), increase local water supplies and maximize opportunities for outside funding.

Mr. Goldman pointed out that the groundwater basin levels have been decreasing and the goal was to recharge the groundwater. He summarized the scope of work tasks as follows:

- Task 1. Regulatory Requirements: Two state agencies primarily involved are the California Division of Drinking Water and the Regional Water Quality Control Board.
- Task 2. Groundwater Technical Assessment: Use of updated predictive model to analyze the basins regarding spreading versus injection; with and without additional extraction. Evaluate several alternatives – water levels rise in all scenarios, retention times determined and return water contribution.
- Task 3. San Luis Rey WRF Assessment: Current flow of 9.7 mgd and La Salina Wastewater Treatment Plant current flow of 2.8 mgd with a total projected flow of 12.5 mgd. The San Luis Rey Plant will need to be upgraded in the next few years.
- Task 4. Advance Water Treatment Facilities: Proposing to fit plant onsite - 3 mgd.
- Task 5. Brine Disposal Alternatives: Two pipes available for disposal the San Luis Rey Plant and Fallbrook Outfall.
- Task 6. Project Alternatives Development and Evaluation: Identify the preferred project proposed injection and spreading. Near-Term - 3 mgd to Injection Wells, expand Plant 2 and Long-Term - 1.5 mgd to Spreading Basins, expand Advance Water Treatment to 5.4 mgd, Conveyance/Pumping, Spreading Basins.

Mr. Goldman discussed the IPR Project costs as follows:

Near Term – Injection Wells \$42.7M Capital costs plus an annual \$2.9M O&M costs.

Long Term – Spreading Basins, \$17.2M Capital costs plus an annual \$2.2M of O&M costs.

He said the total IPR Project costs would be \$60M Capital costs and \$5M O&M costs. Discussion ensued.

Mr. Goldman closed by listing the next steps for the City of Oceanside's Groundwater Recharge Program as follows: Facilities Plan (Dec. 2016), Exploratory Borings, Engineering Report, CEQA, Permitting, SRF Applications. (Jan. 2017- Mar. 2018), Design, Construction, and Testing.

**9. DISCUSSION REGARDING PROGRESS OF THE PUMP STATION 1 REHABILITATION PROJECT**

Mr. Powers provided a brief summary status of the Pump Station 1 Rehabilitation Project. He went over the original scope of work, which was to replace the two natural gas motors with electrical motors to comply with Air Pollution Control regulations. He explained the requirement of recent potential scope changes to include building rehabilitation and electrical relocation requirements.

Mr. Powers said if the District includes the scope changes it would increase the project costs for the design by approximately \$61K and the construction by \$400K. Mr. Kennedy said this increase would be taken to the Board for approval. He mentioned this item was brought to the Engineering Committee to obtain other opinions regarding the potential contract changes. Mr. Marmett pointed out the security reasons alone would justify the change. Discussion ensued.

Mr. Powers mentioned the Consultant was currently in the 30% design phase. Discussion ensued.

**Motion: The Engineering Committee recommends to go forward to the Board with the change order.**

**Action: Approve, Moved by Member Murray, Seconded by Member Kirby.**

**Vote: Motion carried by unanimous roll call vote (summary: Ayes = 7).**

**Ayes: Member Prince, Member Stitle, Member Brazier, Member Taufer, Member Murray, Member Kirby, Member Ratican.**

**10. LIST OF SUGGESTED AGENDA ITEMS FOR THE NEXT SCHEDULED ENGINEERING COMMITTEE MEETING**

The following item was suggested for the next Engineering Committee meeting: Asset Capacity Study.

**11. ADJOURNMENT**

The meeting adjourned at 5:00 p.m.

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**Timothy Prince, Committee Chairperson**

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**Dawn M. Washburn, Board Secretary**