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ATTEST TO POSTING:

C. H. Hamilton III

Hayden Hamilton
Secretary of the Board

3-30-17 @ 1:30 P.M.

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**MINUTES OF THE ENGINEERING SERVICES COMMITTEE MEETING
OF THE RAINBOW MUNICIPAL WATER DISTRICT
MARCH 1, 2017**

1. **CALL TO ORDER** – The Engineering Services Committee Meeting of the Rainbow Municipal Water District on March 1, 2017 was called to order by Chairperson Prince at 3:02 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 Taufer, Member Brazier, Member Ratican, Alternate Robertson, Alternate Marnett.

Also Present: General Manager Kennedy, Engineering Manager Kirkpatrick, Eng. Tech. Rubio.

Absent: Member Kirby.

One member of the public was present: Mr. Walker (Tory E. Walker Engineering).

4. **SEATING OF ALTERNATES**

Mr. Prince stated for the record that Mr. Marnett would be taking a voting seat.

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

Mrs. Kirkpatrick added two items to the agenda the Moosa Crest Pipeline Emergency and the Indirect Potable Reuse.

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

There were no public comments.

COMMITTEE ACTION ITEMS

*7. **APPROVAL OF MINUTES**

A. February 1, 2017

Mr. Stitle pointed out a typo correction.

Motion:

Accept the February 1, 2017 minutes pending correction.

Action: Approve, Moved by Member Brazier, Seconded by Member Stitle.

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

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Ayes: Member Prince, Member Stitle, Member Brazier, Member Taufer, Member Ratican, Member Robertson, Member Marnett.

8. DISCUSSION AND POSSIBLE ACTION REGARDING DISTRICT HEADQUARTERS' FLOODWAY ANALYSIS

Mr. Kennedy said the District has been pursuing the possibility of a new Headquarters' site. He mentioned having discussions with a developer regarding a site and selling the current site, in addition an architecture firm was hired to conduct an onsite space planning study that researched the floodway and floodplain definitions. He said these definitions conflicted with the Caltrans definitions and other information, therefore Tory R. Walker Engineering (TRWE) firm was hired to conduct a floodway analysis. He pointed out there was no construction allowed on a floodway. He stated prior to establishing the value of the District's property the floodways had to be defined.

Mr. Walker provided an overview regarding the floodway analysis. He said from a FEMA regulatory stand point the floodway fringe could be adjusted, excluding other potential constraints. He stated based on an analysis of updated floodway data TRWE established a new floodway identifying additional potential developable areas. He said based on the new floodway definition the District could submit a request through the County and FEMA identifying the new floodway line establishing the potential use of more area. He pointed out based on the additional area the value of the land would increase tenfold. Discussion ensued.

Mr. Kennedy said the District would work on perfecting the flood line prior to taking the next step. He proposes to move forward and asked for a consensus from the committee, there was a general consensus from the committee with Ms. Brazier attesting to the agreement to go forward with the floodway analysis.

Added Agenda Item

MOOSA CREST UPDATE

Mr. Kennedy said a pipe support for the Moosa Crest waterline was washed out during the January 2017 storms and staff was in the process of planning the repair. He continued during the recent rain there was an alarm from the SCADA system identifying a peak flow. He said it was discovered that the waterline was broken and when a visual inspection was conducted it was flooded and covered with debris. He pointed out two repair options to go under the creek or build a bridge to go higher. Discussion ensued regarding the waterline repair.

Mr. Kennedy said currently the District was supplying water by back filling the zone, although when spring/summer time arrive it would not be possible. He continued if the other transmission waterline were to go down it would not be possible to provide water to the zone. He mentioned the Board had declared this project an emergency. Discussion ensued.

9. CONDITION ASSESSMENT UPDATE

Mrs. Kirkpatrick said the master plan recommended conducting a condition assessment of the District's facilities. She continued the District's GIS database system scores these facilities, specifically pipelines based on age, material, and frequency of breaks summarizing which pipelines require replacing. She noted the District should be saving \$2M a year to pay for these replacements.

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Mrs. Kirkpatrick said a Request for Proposals was sent out to qualified firms to prepare a condition assessment of the waterlines. She explained experience has shown failures happen at joints, nozzles, laterals and not necessarily the pipe.

Mr. Kennedy said there was better technology to identify actual pipelines requiring replacements and not just go by probable reasons such as age and estimates. Discussion ensued.

Mr. Kennedy invited two committee members to evaluate the proposals. Mr. Stitle and Mr. Ratican volunteered.

10. DISCUSSION AND POSSIBLE ACTION REGARDING ADMINISTRATIVE CODE UPDATES

Mr. Kennedy asked for feedback on the draft administrative code updates provided at the last committee meeting.

Mr. Ratican provided comments to be discussed and included with the updates. He pointed out typo corrections and recommended word replacements. He asked if the District had a standard Reimbursement Agreement. Mr. Kennedy responded no, the District’s legal counsel would need to prepare one. He pointed out these type of agreements were not used often. Mr. Ratican also recommended changing the per acre cost for the extension connection fee to be per EDU cost explaining that the per acre was mostly for agriculture. Discussion ensued.

Mr. Kennedy suggested looking into other options on reimbursement agreements such as providing capacity credits instead. Discussion ensued.

11. AMI UPDATE

Mr. Kennedy said the contract was still being developed and as soon as it was completed the pilot testing of 300 meters would begin.

12. METER TESTING RESULTS UPDATE

Mr. Kennedy said the results have not been completed. He stated by next month there should be some results.

Added Agenda Item

INDIRECT POTABLE REUSE UPDATE

Mr. Kennedy provided a brief update and discussion regarding the alternatives and associated costs of the Indirect Potable Reuse (IPR) Preliminary Evaluation Study. (Summary below):

Alternative	Description	Total Project Cost	Total AF	*Cost AF
Baseline	Desalter / No IPR Project	\$56,575,000	3,326	1,203
Option A	Advanced Water Treatment (AWT) delivered from San Luis Rey Water Recycle Facility (WRF)	\$91,550,000	4,435	1,460
Option B	Non-potable water from San Luis Rey WRF	\$106,393,750	4,435	1,697
Option C	Advanced Water Treatment at RMWD WRF	\$88,325,000	4,435	1,435
Option C	RMWD WRF & AWT No Sellback	\$95,825,000	4,435	1,527

*Note: RMWD Currently Pays \$1,600 AF

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Mr. Kennedy mentioned the consultant would be attending next month's committee meeting to present the revised report. He would send out the revised report two weeks prior to the next committee meeting for review.

Mr. Marnett said previously he had asked what would happen if power grid was lost and felt he was not given an answer. He said the idea was to develop a plan if the water from Orville was cut. He briefly outlined an emergency contingency plan for water supply interruptions. Mr. Kennedy went over various methods on how the Emergency Storage Project would ensure water deliveries. He pointed out the District also has portable generators. Discussion ensued.

Mr. Marnett said since the District has emergency plans in place he recommended informing the customers in the newsletter.

13. LIST OF SUGGESTED AGENDA ITEMS FOR THE NEXT SCHEDULED ENGINEERING SERVICES COMMITTEE MEETING

The following items were suggested for the next scheduled Engineering Committee Meeting:

- Reimbursement Agreements
- AMI Update
- Meter Testing Results Update
- IPR Final Draft Update
- Capacity Fees
- Pump Station 1 Update

14. ADJOURNMENT

Motion:

To adjourn the meeting.

Action: Adjourn, Moved by Member Prince, Seconded by Member Brazier.

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

Ayes: Member Prince, Member Stitle, Member Brazier, Member Taufer, Member Ratican, Member Robertson, Member Marnett.

The meeting adjourned at 5:18 p.m.

Timothy Prince, Committee Chairperson

Dawn M. Washburn, Board Secretary