

**MINUTES OF THE ENGINEERING COMMITTEE MEETING
OF THE RAINBOW MUNICIPAL WATER DISTRICT
APRIL 1, 2008**

1. **CALL TO ORDER** – The Engineering Committee Meeting of the Rainbow Municipal Water District on April 1, 2008 was called to order by Dave Vornberger at 1:38 p.m. in the Board Room of the District, 3707 Old Highway 395, Fallbrook, CA 92028. Vice Chair Vornberger presiding.
2. **ROLL CALL:** Committee Members present: Gerald Walson, Helene Brazier, Karl Fekete, Philip Astrolio and Vice-Chairperson Dave Vornberger. Alternates Richard Titus and Tom Taufer were invited to the table in lieu of the committee member absences. District staff present were Dave Seymour, District General Manager, Brian Lee, District Engineer; and the Finance and Budget Committee Chair, Larry Pearce was also in attendance. Steve Brannon and Jack Griffiths were absent (excused). Arthur Beckington and Sheri Rumble were absent (both unexcused). Public attendees were Maureen Rhyne and Mr. Smith DBE Psomas.
3. **PUBLIC COMMENT RELATING TO ITEMS ON THE AGENDA**

Mr. Lee requested Item 5 be moved after Item 10.

COMMITTEE ACTION ITEMS

4. **APPROVAL OF MINUTES - March 4, 2008**

Mr. Taufer noted that in the minutes the tanks and reservoirs were not being used correctly. Mr. Lee responded that in the future any discussion on steel tanks will be referred to as tanks and not reservoirs; however, the minutes would not be changed in regards to this terminology. Mr. Taufer also noted a typo on Page 4 of 6.

Action:

Moved by Mrs. Brazier to accept the minutes as amended. Seconded by Mr. Vornberger. Ayes: Brazier, Vornberger, Walson, Astrolio, Fekete, Taufer, Titus. Motion carried (7/0)

5. **DISCUSSION AND POSSIBLE ACTION REGARDING LIFT STATION 2 (LS2) OUTFALL**

Mr. Lee referred to the LS2 2008-09 CIP handout and pointed out the main items which, included Project Description, Budget, and Schedule as requested at the last Engineering Committee meeting.

Mr. Lee stated that the LS2 budget is approximately \$7M for the total cost, which includes construction costs, design and staff time. He also noted the proposed budget costs for 2008-2009 of \$1.9M. He said that the design will take approximately six months and the construction approximately one year. He said what is requested in the master plan is a 21" diameter pipeline approximately 14,100 linear feet. He noted that the pre-design report will determine whether the existing 21" line needs to be replaced or whether a dual line should be installed and continue to maintain the existing line in service. Director Walson inquired as to the size of the dual line. Mr. Lee responded that it could be a 15" or 18" line. Director Walson

asked for the size of the current line and how much flow was it capable of supporting. Mr. Lee responded that the current line is an 18" with portions of 15" line and that it was not capable of supporting the 1M flow during high peak flows. Mr. Lee explained that during high peak flows RMWD has backups in the line because of its size, so the gravity line is turned into a force line or there would be a surge charge during high flows. Director Walson asked what would be the impact. Mr. Lee responded that the impact was faster wear on the line, risk of overflowing the manholes in the street, blast out the caulking between the mainlines, and outflow from the cracks.

Mr. Seymour asked how it was determined that the line size was too small. Mr. Lee responded that RMWD used H2O Map Sewer software to do a search on the hydraulic model through the system to determine which lines were undersized per maximum build out; including physically entering some manholes to take a look at the pipes. Discussion ensued.

Mr. Lee pointed out that RMWD has the funds to cover the wastewater CIP projects. Mr. Titus asked what was RMWD requesting from the Engineering Committee. Mr. Lee responded that if the Engineering Committee was ready with the information provided he would like them to recommend that this project go forward to the Board in June 2008.

Director Walson asked about other pressing pending sewer projects. Mr. Lee responded that the lift stations needed to be rehabilitated on Via Monserate, Plant B, Campus Park Project, and one other lift station. He noted RMWD was currently working with the two largest lift stations first. Discussion ensued.

Director Walson stated that he needs to know how LS2 Outfall will be implemented as far as installing a parallel line or not. Mr. Titus responded that it would be determine at the design level. Director Walson disagreed, stating that is was part of the cost and budget. Mr. Lee added that RMWD is budgeting and scheduling for the ultimate situation and during the design if it can be reduced then at that time it will be. Director Walson stated that he does not agree with budgeting for the ultimate, but prefers budgeting realistically. Mr. Seymour responded that the budget that the Board will approve will be at the worst case scenario and after the design the budget can be adjusted if necessary. Director Walson stated that as a Board member he does not feel comfortable in doing worse case budget approvals. Mr. Seymour responded to Director Walson that he would not be approving the expenditure, but the setting aside of the funds. Mr. Seymour continued that if RMWD only sets aside the funds for design and in the meantime RMWD spends the funds for construction then the project would not have the funds to be completed. He explained setting aside the maximum will ensure the project's completion. Director Walson stated what if the maximum is set aside for all the sewer projects RMWD would not have the funds. Mr. Seymour stated that RMWD does have the funds for the sewer system. Mr. Pearce stated that this is the reason for setting aside the funds to take care of the priority projects and if a new project comes up RMWD could determine whether there were any funds available. Discussion ensued.

Mr. Vornberger asked which consultant RMWD would propose for the pre-design. Mr. Lee responded that RMWD would solicit Request for Proposals and go through a selection process. He added that the Request for Proposals would state the milestones for the design of the project, which would be at 30%, 60%, 90% and at the 30% RMWD would have enough information prepared to determine whether RMWD would install a dual line or singular line replacement. Discussion ensued.

Mr. Seymour asked Director Walson if he had any other questions on the budgeting for worst case versus realistic on this project and why RMWD has to set aside a reasonable amount until an engineer can be hired to determine a more realistic amount. Mr. Walson stated that he still had a problem with the budgeting process. He stated that he does not want to set aside the funds until RMWD can tell him whether it will install a dual line or a singular line and the associated costs. Mr. Titus stated that the process gives you the answers wanted in a timely fashion, but in order to get these answers the District has to go forward. Mr. Vornberger recommended that the Engineering Committee propose to the Board that this project go forward for preliminary design only and not set aside the total \$7M. Mrs. Brazier stated that by doing this in steps RMWD has lost both funds and time. Mr. Lee recommends the Engineering Committee approve the complete project. Discussion ensued.

Mrs. Brazier called for the question.

Action:

Moved by Mrs. Brazier to recommend to the Board the authorization of the LS2 Outfall project for a total of \$7M. Seconded by Mr. Titus.

Discussion continued. Mrs. Brazier offered an amendment to the motion.

Action:

Moved by Mrs. Brazier to recommend to the Board the authorization of the LS2 Outfall project for a not to exceed budget of \$7M. Seconded by Mr. Titus. Ayes: Astrolio, Brazier, Titus, Taufer. Absent: Fekete. Abstain: Walson, Vornberger. Motion carried (4/0/1/2)

6. DISCUSSION AND POSSIBLE ACTION REGARDING OFFICE SPACE

Mr. Lee informed the committee that there are two projects regarding RMWD office space. He explained that there is the reconfiguration of this building that we are currently in and the other is the purchase of a modular office building for the Operations' staff. He added that the Board requested that these two projects be combined under one plan.

Director Walson asked how many new positions were being added. Mr. Lee responded there were three for engineering. Mr. Seymour added that for this year's budget there were a total of eight new positions of which five might need office space and the other three would be field positions. Director Walson would like to see a unified plan of how much office space is needed, how RMWD is going to provide the extra office space, and when this plan would be completed. Mr. Seymour responded that the plan would be available at the May 6th Engineering Committee meeting.

Mr. Vornberger asked who would prepare the plan. Mr. Lee responded that he will be working with Mr. Sneed to combine the office space plan.

Mr. Seymour would like the committee to consider the possibility of adding a modular for the Board room and using the current Board room for office space. He stated that this would provide more room during Board meetings, extra restrooms, and also allow other public group use after hours. Mr. Vornberger and Mrs. Brazier agreed that this is something worth considering. Mr. Lee said he would include this idea in the plan.

Mr. Titus asked about the standards for the size of office space for individuals. Mr. Lee responded that it would be difficult to develop a standard since the space for engineers would be different than that of a field or office staff. Mr. Titus explained that there could be a standard for each category, such as, engineers, field, and office. Mr. Lee said that it is difficult to use standards with the building configuration. Discussion ensued.

Director Walson asked about building a second story building. Mr. Lee responded that the current footing could not support a second story on any of the buildings.

Mr. Lee stated that currently RMWD is working to divide the space based on the reconfiguration of the building and by adding space. He added that this is affecting the hiring needs of RMWD; therefore he would like to go forward with this plan as quickly as possible. He stated that once the plan is approved it will take months to execute. Discussion ensued.

No action taken on this item as Mr. Lee will work with Mrs. Sneed and Mr. Seymour on a final plan to present at next month's Engineering Committee meeting.

7. DISCUSSION AND POSSIBLE ACTION REGARDING MORRO ULTRA VIOLET REPORT

Mr. Lee referred to the two handouts: Sheet 1 - 50 Year Life Cycle Cost Comparison between Floating Cover and Ultraviolet Treatment Morro Reservoir and the Planning Level Cost Analysis report. The Board has tasked the Engineering Committee to review the cost differences between the floating cover and the UV system at Morro Reservoir

Mr. Lee reported stated that for installation costs the floating cover is approximately \$2.5M and the UV system is approximately \$3.2M. He noted that the Yearly O&M costs for the floating cover is about \$35K and the UV system is \$129K, which includes the staff time for maintenance, replacement of bulbs, and electrical costs. He stated that the 50 Year O&M costs associated with the two systems shows a significant difference between the two systems for the floating cover it is about \$730K and the UV system is about \$2.8M. He said that the 50 Year Construction Cost for the floating cover is about \$3.2M to replace the cover after 25 years and the UV system is about \$4.6M to replace the components. He said that the 50 Year Life Cycle cost for a floating cover is about \$3.9M and for the UV system is about \$7.4M. He concluded by stating that the floating cover in reference to the 50 Year Life Cycle cost is the better option. Discussion ensued.

Mr. Taufer referenced the Dudek report which stated that RMWD had received a citation from the Department of Health Services for open water reservoirs, which required RMWD to cover these reservoirs by 2009. Mr. Taufer continued by asking how did the UV system become an option. Mr. Lee stated that by law RMWD does not have to cover the reservoir, but just have to treat the water. He said that there are a number of treatment options that can be done and the decision by RMWD two years ago was to cover North/Northside/Morro reservoirs. He noted that Beck was being reviewed by the ad hoc committee.

Mr. Seymour asked the Engineering Committee to consider that RMWD already has 90% design for the Morro floating cover, which cost approximately \$700K, and if the District chooses not to proceed with the floating cover, this work would be wasted and RMWD would have to spend more funds for the UV system design. Mr. Lee stated that there is no water system in the State of California that has been approved for use of a UV system. Discussion ensued.

Mr. Titus stated that in evaluating the UV system option it probably would not meet the requirements because it cannot be tested, scheduling would be at least a year behind and the costs are double. Mr. Seymour added that in consideration of the citation, RMWD would be ready to proceed in 6 months and be in compliance with Morro and North reservoirs, but only if RMWD proceeds soon. Discussion ensued.

Mr. Vornberger recommended that the summary sheet include all the construction costs for the Board report. Mr. Lee replied that he would expand on the summary sheet to include the ammonia, piping, liner, and the engineering costs. Discussion ensued.

Director Walson asked some questions about the 50 Year O&M calculations. Mr. Lee will clarify the calculations for the Board report.

Mr. Fekete excused himself from the meeting at 2:00 p.m.

Action:

Moved by Mrs. Brazier that RMWD choose the floating cover option. Seconded Mr. Astrolio. Ayes: Brazier, Astrolio, Walson, Vornberger, Taufer, Titus. Absent: Fekete. Motion carried (6/0/1)

8. DISCUSSION AND POSSIBLE ACTION REGARDING U1 PUMP STATION

Mr. Lee suggested that discussion and questions on the U1 Pump may continue, although he recommends deferring any action until RMWD can determine what is causing the inefficiencies with the pump system. He stated that the reasons behind the inefficiencies may impact the option selected. He added RMWD knows there is something wrong with the pumps, but does not know what is causing the inefficiencies. He provided an explanation of how a pump curve is determined. Discussion ensued.

Mr. Titus asked for an explanation as to why it was originally determined to replace the U1 Pump Station. Mr. Lee responded that he felt that at that time RMWD had believed that there was something wrong with the control valves, although the inefficiencies that DBE Psomas found are actually the real problem. Mr. Lee also stated that the electrical components are out of date and need to be replaced plus there are security issues with vandalism. Director Walson added that the pumps and valves need replacement. Mr. Titus asked if the problem that is being addressed the main issue or is it to replace the U1 Pump Station. Mr. Lee stated that these are the issues found and could still be a problem even if the U1 Pump Station is replaced.

9. UPDATE ON AD-HOC COMMITTEE

Mr. Lee stated that the purpose of the ad hoc committee was to determine what to do with the Beck reservoir. He continued that currently the best plan of action is to reactivate Pala Mesa reservoir, which is an 8.8 million gallon reservoir. He stated that the committee is checking on permitting requirements and is waiting for a response from the California Division of Safety of Dams on whether Pala Mesa reservoir falls within their jurisdiction. He said that Pala Mesa reservoir should be able to handle the operational storage needs for this zone, although the distribution system has to be reviewed to make sure that the Pala Mesa water can be sent out into the zone.

Director Walson asked whether Pala Mesa reservoir could fill the tanks. Mr. Lee responded that it should be able to provide the water operational to fill the tanks, although it does not have the capacity for emergency storage. He stated that some emergency storage options are to have an agreement with Fallbrook Public Utility District, the City of Oceanside, the Twin Oaks Treatment Plant, or reactivate Beck. He said that the ad hoc committee's final recommendation should be available at the June 2008 Engineering Committee meeting.

10. DISCUSSION AND POSSIBLE ACTION REGARDING MEMBER ABSENCES AND VACANCIES

Mr. Vornberger announced that Mr. Titus is resigning on April 23, 2008. Mr. Titus stated that he appreciated the opportunity to assist and that although RMWD has a lot of challenges it is heading in the right direction.

Mr. Lee addressed member absentees specifically Mrs. Rumble and Mr. Beckington. He pointed out that they have not submitted their 700 Forms, which are due today; and that both have been contacted twice and have not responded. Mrs. Rumble has not attended these meetings and Mr. Beckington's attendance has been sporadic. It was decided that Mr. Lee will send a letter to Mrs. Rumble and Mr. Beckington informing them of the action taken to remove them as alternates due to failure to comply with the requirements.

Mr. Vornberger asked if we still had a list of other individuals interested in being a part of the Engineering Committee. Mr. Lee responded that there was a list and that RMWD would contact those individuals.

Action:

Moved by Vice Chair Vornberger to remove alternates Mrs. Rumble and Mr. Beckington for not submitting the required 700 Form. Seconded by Mrs. Brazier. Ayes: Vornberger, Brazier, Astrolio, Taufer, Titus. Absent: Fekete. Abstain: Walson. Motion carried (5/0/1/1)

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

It was noted the office space plan and presentation on the status of North and Northside Reservoirs would be on the May 6th Engineering Committee Meeting.

Mr. Lee requested that committee members please not contact the consultants directly; questions should be directed to Rainbow Staff.

12. ADJOURNMENT

The meeting was adjourned with a motion made by Mr. Vornberger to the next meeting May 6, 2008 at 1:30 p.m.

The meeting was adjourned at 5:00.

Steve Brannon, Committee Chairperson

Dawn M. Washburn, Board Secretary