

PLUM CREEK WATER RECLAMATION AUTHORITY  
4255 N. US Hwy 85, Castle Rock, CO 80108  
REGULAR MEETING MINUTES  
\*Held Via GoToMeeting\*  
August 24, 2021

**CALL TO ORDER:**

7:32 a.m.

**ATTENDEES:**

Mark Marlowe, Jim Worley and Burt Knight, Board Members; Dick Munday, Alternate Board Member; Wes Martin, Authority Manager; Kirby Clark, Assistant Authority Manager; Lissa Oelkers, Director of Administrative Services; Natalie Hopkins, Administrative Assistant; Darryl Farrington, Semple, Farrington, Everall & Case, PC; Ron Redd, District Manager for Parker Water & Sanitation (exited 7:48 a.m.).

**ANNOUNCEMENT OF QUORUM:**

Quorum present.

**PUBLIC COMMENT:**

None.

**APPROVAL OF AGENDA:**

Dir. Knight moved to approve the agenda. Dir. Marlowe seconded the motion. The motion was unanimously approved.

**ACTION ITEMS:**

**MINUTES OF JULY 27, 2021, REGULAR BOARD MEETING:**

Dir. Knight moved to approve the minutes of the July 27, 2021, regular board meeting. Dir. Worley seconded the motion. Dir. Marlowe abstained. The motion was approved.

**PAYABLES FOR THE PERIOD ENDING JULY 31, 2021:**

Mr. Martin noted the following expenditures: Brown's Hill Engineering in the amount of \$14,209.65 for the installation of the new security camera system and updates to the effluent monitoring system for the Town of Castle Rock; and Radiation Pros in the amount of \$4,344.88 for the continuation of their TENORM study at the facility. Dir. Marlowe moved to approve the July 31, 2021, payables for PCWRA in the amount of \$295,908.53 and the 3.0 Capacity Expansion expenditures in the amount of \$164,366.33. Dir. Knight seconded the motion. The motion was unanimously approved.

**OTHER ACTION ITEMS:**

None.

**DISCUSSION ITEMS:**

**REGIONAL WASTEWATER UPDATE:**

Mr. Martin stated that there would be a meeting with Dominion today to discuss the regional wastewater project. There is potential for the facility to move forward with a full site approval and expansion as opposed to a pilot facility. Mr. Martin has been working with their engineers regarding permitting and design. Dir. Marlowe requested that Mr. Farrington develop an agreement between Dominion and PCWRA to compensate for Mr. Martin's time on this project. Discussion ensued among the Board.

## REUSE WATER INFRASTRUCTURE:

Mr. Martin requested an update regarding the reuse water infrastructure. Dir. Marlowe stated the Town of Castle Rock will be constructing a new pipeline to Rueter Hess and there would be no change to the reuse pipeline. Therefore, PCWRA will continue to supply reuse the same as it has been. As a result, the rehabilitation of the reuse reservoir will need to be revisited, however, due to the increase in cost for raw materials, Dir. Marlowe requested that this be considered for the 2023 budget.

Mr. Martin noted that the Ridge golf course has requested more water, as they no longer have access to well water due to equipment breakdown. The Ridge receives a portion of CPNMD's return flow for irrigation, Mr. Martin directed the Ridge to reach out to CPNMD regarding the request. Discussion ensued.

Dir. Knight asked Mr. Farrington if he would provide him a copy of the historical information that he found regarding the ownership of the reuse infrastructure. Mr. Farrington said he would forward Mr. Knight a copy.

## MANAGEMENT REPORT:

### 3.0 Expansion Update

Management anticipated final completion of the project this month, however, there was concern that in doing so, the filter, TWAS, and HVAC issues would not be resolved.

Staff has exhausted all options attempting to resolve issues with the TWAS pumps. It was recommended to run the pumps at a higher speed; however, this could compromise the warranty of the pumps. The contractor and engineer are collaborating to resolve the issue with a larger motor being considered for optimal performance. Burns & McDonnell is recommending a new pump, however, Mr. Martin noted that with this process, operations would prefer that the current pumps work properly. The Disc Flo pumps were chosen over a rotary lobe or positive displacement pump because of the reduction in maintenance and associated maintenance costs.

Parkson was onsite the first week of August because the filters are still failing to meet the guaranteed specifications. Staff has made several operational changes at the recommendation of Parkson; however, these have failed to yield the desired result. Once the sampling data is received from Parkson, action may need to be taken against Parkson for liquidated damages due to the inability to resolve the issue and meet the performance guarantee.

The amplifier system required by the fire department for radio communication in the new building is scheduled for installation next week. Once that is complete, the final completion and certificate of occupancy can be issued.

The effluent flume insert has been removed allowing measurement of higher flows and a representative from the CDPHE came onsite to calibrate their equipment. Additionally, Brown's Hill has now been able to relay effluent flows to Castle Rock Water's SCADA system.

There continue to be HVAC issues in the building 8b electrical room with it not cooling the room as it should. After meeting with the electrical and civil engineers, staff believes that a new unit is needed. There have been additional resolutions proposed, however, Mr. Martin does not feel that these will resolve the issue because the system is producing so much heat.

Programming is being finalized for the SNDR blowers which will allow for better control.

Dir. Knight inquired about the back-flow building up in the main line from Castle Pines due to its engineering. In response, Mr. Martin stated there is still a concern with accurate flow measurement because of the line's positioning and the only fix would be to build a ramp to increase the elevation of incoming flows, however, this could result in additional water backing into the lines before the flumes. Dir. Knight suggested that the engineer should confirm a ramp will not create this issue before moving forward.

### Plant Update

Operations staff was notified that acquiring polymer currently has a 2-month lead time. Staff is confident that there is enough polymer onsite that this will not disrupt operations. However, the potential for another shutdown for COVID-19 poses a threat to acquiring chemicals.

Boulder was recently denied a chemical approval for a new type of polymer. There is potential for PCWRA to use ferric in the future and could require a site modification and engineering performed in order to get approval from the Division.

There will be a joint operations meeting tomorrow among PCWRA, Castle Rock Water, CPNMD and CPMD to discuss Regulation 100 and future plans for all operations.

In 2021, CDPHE enacted a requirement to develop an Operations and Delegation Plan. Staff is currently working on developing plans for PCWRA.

There has been difficulty getting a replacement non-pot cooling pump for the ATAD, as the pump failed after the warranty period. Replacement parts were ordered but they were lost in transit. While staff is working on locating new parts, they are also attempting to purchase a back-up pump to avoid this situation in the future.

The PCWRA Safety Committee has been working with the SDA pool and T. Charles Wilson on a safety evaluation of the plant. They will be providing recommendations for a safer workplace at PCWRA.

Operations staff identified a strong minty and chemical odor from the Castle Pines combined flume on August 13, 2021, which was traced north to the Daniel's Park. Additionally, there was a white substance seen coming from the Lagae flume at the same time but could not be traced any further. While there were no negative effects on the plant, with the anticipation of DPR at the facility, robust agreements will need to be created to ensure that harmful substances do not make it into the plant. Discussion ensued among the Board.

Mr. Martin noted that PFAS testing will likely be required at least once per month and studies will have to be performed at all collections systems. Staff will be budgeting for this testing in 2022.

Mr. Martin announced that the final payment on the 2001 SRF loan was transferred and a letter from CWRPDA notifying the cancellation of the bond had been received.

CDPHE Update

Nicole Rowan is now the Director of the Water Quality Control Division, replacing Pat Pfaltzgraff.

Apprenticeship Program

Matt Spooner, the apprentice through the Castle Rock Water Apprenticeship Program, started on August 6, 2021. He will continue to work with PCWRA operations for the next 6 months. Mr. Martin expressed thanks to Castle Rock Water for such a great program as this brings individuals into the field and creates interest in wastewater and water operations.

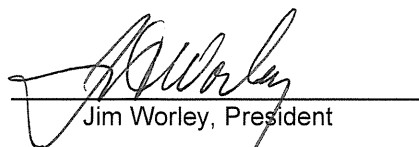
Mr. Martin discussed staffing issues while informing the board that he will likely be requesting budget for two additional operators starting in 2022.

**OTHER DISCUSSION ITEMS:**

None.

**ADJOURNMENT**

There being no further business to come before the board, Dir. Worley declared the regular meeting adjourned at 8:35 a.m.

  
Jim Worley, President