

Eldorado Springs LID Advisory Committee Minutes

January 17, 2019
Rocky Mountain Fire District Station 6
4390 Eldorado Springs Drive
Eldorado Springs

The meeting was called to order at approximately 6:30 pm.

Members Present: Vija Handley, Cathy Proenza, Jeff Mason, Ken Sheldon, Kevin Tone

Guests: Gabby Begeman, Tom Schubert, ORC; Doug Larson, Dave Bangs, Eldorado Artesian Springs; Scott Lehman, David Levin, residents

Staff: Joan Barilla, Mark Ruzzin

Approval of Minutes:

The board considered the minutes of the December 13, 2018 meeting:

ACTION: Ken moved to approve the minutes of the December 13, 2018 meeting, as presented; Jeff seconded the motion and it passed unanimously.

Plant Operations:

Gabby Begeman, ORC, began her report by discussing the monthly operator's report, specifically, the issue with the auto sampler's ability to auto sample and a higher than normal plant loading capacity calculation. Gabby discussed the remedy to this problem would be to purchase a new auto sampler rather than replacing parts on this piece of equipment. If the unit is not replaced, the process of collection will slow down, and overtime costs may be incurred to collect samples. Gabby will investigate the correct/most cost-effective sampler to purchase and report back to the board at the next meeting. Kevin also suggested that he could inquire as to whether there is a used sampler available for purchase from other entities.

A new auto sampler will cost approximately \$2,000-\$6,000. A new unit will provide the benefits of limited need for maintenance, but it's important to note that the equipment itself is impacted by the corrosive environment that exists in the WWTF building; equipment stored in the plant will eventually degrade. That said, the existing unit has been in operation for ten years, and given that ventilation at the plant has been improved and fewer chemicals will be stored in the plant now that the UV system is in operation, a new unit may last quite a bit longer. Gabby will provide an estimated cost for a new unit for the board to consider.

The emergency action plan was discussed in detail. Gabby has created a draft outline to be completed with information from the board and the county's email list of LID customers.

Four possible ways of communicating to the entire district or those within an impacted area were discussed, including contact at the physical residence, email, telephone calls, and updates posted on the ESLAC website. Gabby and the board feel a combination of some of these methods

should be implemented but will discuss further at the next meeting. The board would like to see a written plan to include who is accountable for what and the timeframe for notification. Gabby will provide a draft document at the next meeting.

The UV unit has been installed and is fully operational. An acceptance letter was sent to CDHPE in January. The unit is working in auto mode and has been running approximately six hours per day. This new unit has reduced the need for significant amounts of chemicals to be stored at the plant. Chlorine and sodium bisulfate are no longer needed.

The plant has been enrolled in the voluntary incentive program, but no success this month as the influent numbers were high due to the problem with the auto sampler.

Gabby discussed a problem with the collection system at the triple address sharing a grinder pump. Investigation into this problem will need to continue as it remains unclear as to what is contributing to this issue. The board requested that Gabby report back at the next meeting.

TIN testing results are problematic for January 2019 and are in violation of the permit standards. Kevin strongly suggested the county must set up a meeting with CDHPE, the county health department, and Tod Smith as soon as possible to sit down and again discuss base flows in South Boulder Creek. Members of the board requested an outline of a plan be drafted at the next meeting to include who will be at the meeting and what will be discussed. Gabby will communicate with CDHPE about this violation to discuss what is happening and the remedies.

Committee Updates:

Eldorado Artesian Springs Resort

The board began this agenda item by taking up the topic of the equivalency rating for the Eldorado Artesian Springs pool and ballroom project.

Mark noted that on Wednesday he forwarded to the board the Trail Ridge Engineering report shortly after Dave had emailed it to him. Mark also noted that he provided the board with copies of the relevant pages of CDPHE Regulation 43, including Table 6-2, which was referenced extensively at the December board meeting.

Dave walked the board through the report. As discussed in December, the engineering team has evaluated the project in relation to the historic use of the property and the guidance provided by CDPHE regulations.

The team has analyzed two distinct sources of discharge from the project: 1) the pool and operations and maintenance activities associated with the pool, and 2) the ballroom and snack bar. The team attempted to quantify peak flow rates based on Table 6-2 and historic use of the facility.

While the filter equipment improvements should significantly reduce discharge from the pool, the team is proposing that the pool EQR remain as is, at 7.0. Regarding the ballroom and snack

bar, based on occupancy levels and the expected seasonal use of these facilities, the team is proposing an EQR of 3.5, bringing the total EQR for the entire set of uses to 10.5.

The board and the applicant agreed to discuss the report and proposal this evening and identify additional information that may be needed in order to reach a decision at the February meeting.

Vija asked if the occupancy numbers attached to the project have been vetted by the county Land Use Department; Dave clarified that this is indeed the case.

Doug explained that his understanding of the discussion in December was that 7.0 EQR was agreed to be the correct EQR for the pool based on historic use and discharge data.

Kevin asked for additional clarification regarding the proposal of an EQR of 3.5 for the ballroom/snack bar component of the project. In his view, the current pool and office uses are discharging about 2,000 gallons per day. Using the occupancy number of 376 at 5 gallons/person/day per Table 6-2, this leads to additional discharge of 1,880 gallons per day. Kevin asked if the new EQR should be set closer to the existing EQR. Dave explained that, in assessing the historical use of the property, the maximum occupancy of the ballroom and snack bar of 376 is about one-half of the highest attendance the pool has ever seen, which is 750. Thus, it made sense to the engineering team to apply an EQR of 3.5 to the ballroom and snack bar.

The board discussed agreeing to set aside the pool EQR of 7 and coming to agreement on a number for gallons/person/day for the ballroom/snack bar use.

Jeff stated that he believes, between the analysis provided by Dave and the discussion tonight, he has all the information he needs to make a decision at the February meeting.

Kevin asked to see a cut sheet or other information regarding the upgraded filter system that would be included in the rebuilt pool to reduce discharge to the collection system. He stated that looking at an occupancy of around 368 and a 5 gallons/person/day usage number seemed reasonable to him as a way to back into an EQR for the ballroom and snack bar.

Kevin asked if it would be smart to have a dedicated E-one for the ball room to lend a level of comfort in respect to being sure that the pump won't get overwhelmed, and to assist with metering the amount of discharge from the ballroom.

Cathy would like to understand how the project will impact the total capacity of the waste water treatment facility and the ability to accommodate future potential EQR increases that the community may see from residents of the district. Cathy would also like to understand the mechanism that will be used for measuring the discharge flow from the pool and the ballroom. She would also like to understand options for adjusting the EQR over time once data has been collected, to properly adjust the EQR to actual use.

The board discussed the concept of developing a “provisional EQR” for the project, to be set with the best information available at this point in time, and then adjusting that EQR in the future

after data and other information has been collected. Mark suggested that a conversation with the LID's attorney would be helpful in this regard.

Vija would like to understand how the occupancy numbers were analyzed and set by the county Land Use Department.

Doug asked Gabby if there were times when additional water in the system is helpful. Gabby answered that yes, it can be helpful, to help with treatment, but once the flow gets too high, it causes problems. That said, there is never a time when the system is water starved.

The board complimented Doug and Dave on the information they presented and for the opportunity to talk in detail about their proposal.

Boards & Commissions Update

Mark noted that Vija had reapplied for her seat on ESLAC, and he will be recommending that the county commissioners reappoint Vija to a second five-year term. Mark stated that he greatly appreciated Vija's willingness to serve another term.

Invoices and Budget Update:

Mark provided a year to date budget review document and noted that the county will be closing out the 2018 books over the next couple of months. The LID will run approximately \$13,000 over budget in 2018, and money will need to be drawn from the reserve to cover these expenses.

Mark will reach out to ORC to clear up some questions about invoices from November and December.

McDonald Farm invoices were substantial because of the large amount of sludge that has built up since June 2018. Multiple trips were needed to haul the sludge to a larger truck that cannot access the plant.

Public Comment:

Scott Lehman address the board about the easement his family and his neighbor's family donated to the county which moved access closer to their front door to maintain several large trees on their properties along the access road. He reminded the board, as the Spring Clean-Up approaches, that any work done in the area around his property must be done by him. The board discussed tree maintenance along the access road and the entrance to and within the plant.

The meeting was adjourned at approximately 8:40 p.m.