



MEMORANDUM

To: Nederland Board of Trustees
From: Jason Morrison
Date: August 13, 2014
Re: Staff Report -- Public Works

Collections, Distribution, and Water Treatment Plant

We've moved forward on many projects during the month of July. Run-off has slowed down and ground water has subsided, allowing normal operations at both treatment plants. We've also added new member Daniel Pollock to fill a vacancy as utilities assistant, which has allowed us to continue various projects around town.

Raw Water Diversion

For the most part, creek levels have gone down; however, levels have fluctuated quite a bit with all the rain, making it difficult to continue our project. Nonetheless, we have had the opportunity to install the next piece of the project, which is the perforated infiltration manhole, bringing us one step closer to completion. This manhole gets surrounded with various sizes of aggregate (rock), creating a natural filter that will eventually be connected to the pump station and act as a sort of pre-filter for water before entering the water plant.



Water Plant

With run-off coming to an end, the creek has cleared up quite a bit. This allows us to use less chlorine and have better water quality. The Clearlogx addition is moving forward, as JVA has begun the permitting process, and State review typically takes 6 or 8 weeks. We have also completed rough electrical for the lab remodel and hope to have more progress in the coming weeks.



Distribution

Since utilities has been understaffed for much of July, we haven't had a lot of time to work out in the field; however, we did repair a hydrant on East Pine Street that had been out of service for nearly a year. We are eager to pursue an aggressive flushing schedule next month.

Waste Water Plant

The waste water plant has been running very well. Since ground water levels have subsided, flow to the plant has gone down and operations have normalized. As you may be aware, odors have been an issue lately. As part of normal operations, it is necessary to discharge excess waste from the plant to the remaining pond on site. Several thousand pounds of waste are produced every day and since this



waste is of an anaerobic nature, it is very stinky. In order to mitigate this problem, rather than storing it on site, it may be necessary to haul it off on a weekly or bi-weekly schedule. To further aid us in this decision moving forward, a biosolids study will help us to explore all of our options. A previous estimate of \$19,000 for the study will be used to include the study in the 2015 budget. To speed the process along, more money should be budgeted for the design phase the same year, so that construction of a facility to handle our solids can happen in 2016. In the meantime, utilities staff will visit other facilities to

better understand different methods of handling solids and help to make a decision that best fits our community. Fortunately, the remaining pond was cleaned out, and approximately 550,000 gallons of sludge was dewatered and removed, buying us a little time to continue the planning process. It has been around 15 years since the last time this happened, so this should help until we come up with a more permanent solution. Other than that, the plant has been producing a very clear effluent, and has been able to meet all of the State's requirements for nutrient removal.

Collections

Repairs of the collection system have been on hold because of high ground water, causing contractors to question the integrity of their product. Engineers JVA has been instrumental in ensuring that Nederland gets the best repairs possible and holding contractors to their original proposals. After several contractors have backed out, JVA has secured a new process through Layne Inliners that can be used for Nederland's unique circumstances. This process will not only seal each tap but will also pressure test each repair to ensure a proper seal. This is positive news and repairs should be completed during the month of August.

Streets and Drainage



Music festivals have been attended, vacations taken, and with NedFest only weeks away, it means summer

(Left) Hard surfacing on Big Springs Drive, before and after

is coming to a close. Most of the Streets Division's planned projects are wrapping up, with only a couple of minor projects left. This means the summer is going as fast as it came and winter prep is just around the corner. I will not speculate on the

rains or how we fared until the snow starts flying. The erosion control rails along Big Springs Drive have been hard surfaced with about 12 tons of asphalt, which will prevent undercutting of the road in these areas. Saws and Slaws and weed pull volunteer projects have kept us busy with more than 12 dump truck loads of chips and 4 dump truck loads of bagged weeds. I have been speaking with Boulder County Weed Specialist (insert your own joke here) Kurt Roy, about the Town piggybacking on the county's weed control program for next year. We have come up with a solid number for the budget that he feels would make great strides for our noxious weed mitigation. Kurt would be available to come up and answer questions about weed spraying in the area.

Parks

Two new bear-proof containers have been added in Town, one at the skate park and the other at the entrance to Guercio Field. The parks and other town property slated for FEMA-funded fire mitigation have been flagged and are ready to be mitigated. Grass is beginning to sprout in the new performance space.