



MEMORANDUM

To: Nederland Board of Trustees
From: Jason Morrison
Date: March 11, 2014
Re: Staff Report -- Public Works

Collections, Distribution, and Water Treatment Plant

The Utilities Division is focusing on completing a number of projects before spring runoff occurs. A major priority is repairing our pipes within our collections system. We are excited to announce that Layne Inliner, LLC has been chosen for this project and that the work will be started soon. The purpose for repairing these lines is to reduce the flow of I&I (inflow & infiltration) into our plant. I&I is a combination of surface and ground water that enters our collections system through holes and cracks in the lines. These high levels cause upset for our plant. We hope to see I&I levels greatly reduced after this project's completion.



Left: An example of an offset collection pipe, several of which are to be repaired in the project. This pipe is at Conger Street.



Right: Footers being poured for the upgrade of the raw water intake.

This month, we also expect to complete the replacement of our Valleyview PRV (Pressure Regulating Valve) facility. We appreciate the patience of residents in this area as we complete this project. Now that the weather is warming up we have been able to resume work on our raw water diversion structure. The concrete for the structure has been poured and work is underway to prepare for snowmelt this spring.

For improvements in our treatment process we are researching a new tool that will help us to be more efficient. This technology monitors the water's conductivity and helps us to adjust chemical levels throughout the day based on the changes. It basically measures the dirtiness of the water. By adjusting our treatment we expect to see a reduction in our chemical usage. This will save money on chemicals and also preserve our filter membranes. This equipment has been approved in this year's Capital Improvement Program (CIP).

Wastewater Treatment Plant

The wastewater plant is running well and most mechanical issues have been resolved. We are now able to focus on streamlining our operations with the goal of conserving energy. We are working with the City of Boulder to set up to run an in-house program for phosphorus tests that are required weekly by our Intergovernmental Agreement with them (which also results in the City's contribution to these costs). Representatives from the City of Boulder will visit this month to evaluate our methods and equipment for this testing.

Streets and Drainage

We have been extremely busy with snow recently and with the heavy wet snow, we will be busy for quite a while. This has also taken a toll on our machinery and trucks, nothing major but a lot of little repair issues. It seems mud season has started early this year. Pulling snow from the south sides of roads and pushing over the north side to expose and defrost ditches will be a major focus for the next few weeks to aid in efficient runoff. The sooner this can be accomplished the sooner the roads will dry out. Training of the new crew members has been going well and everyone is working well as a team.

Parks

At this time a full assessment of Chipeta Park after the recent Frozen Dead Guy Days event has not yet been completed, due to snow covering the ground. However, it is apparent that the machinery used to build the coffin race course did a bit of damage to the park but until the snow melts, we will not have a full assessment of damage. I would expect additional damage to the sprinkler system, but until we are able to turn on the water to the park we will not know for sure. Guercio Field, on the other hand, was left in extremely poor condition due to snow melt and mud.

Other Items

The Christmas lights will be coming down this week, as they were requested to remain up in support of the Frozen Dead Guy Days event.

Now that the lights are off the bridge, we hope to finally see the repair of the bridge cap, which was damaged last fall by a National Guard truck carrying soldiers aiding in flood recovery. We have been in touch with the Colorado National Guard to facilitate the repairs.



Finally, but the most important part of this report, Utilities trainee Nicole Bratsos has passed both her Water and Wastewater D tests. What I find very impressive is she took both tests back-to-back, something most people would not do. So, please congratulate her when you see her.