

Mountain Lakes District Water Committee Projects

Version as of: December 8, 2011

Water System Documentation Project

Start Date: Project currently active

Current People assigned: Don, Ken, Tony

Background:

The current water system documentation consists of a series of maps with location information and some additional folders with other information such as curb stops. This is updated by hand as changes and additions are done. We need to decide if we have the needed information and look at the feasibility of going to a more automated system.

Status:

This project is currently on hold until we finish the Spillway Project and make progress on the Sources project.

New Water Sources Project

Start Date: Project currently active

Current People assigned: All

Background:

We currently have three sources of drinking water, a local bedrock well, a local sand/gravel well, and a connection to Woodsville Water & Light (WWL). The local sources are decreasing in production. We need to identify another source or increase our dependence on WWL.

We have held a series of meetings that looked at increasing the local sources or finding a new local source however the costs are significant and there is no guarantee of success.

Status:

The current focus is on getting a better understanding of the WWL connection and the Bulk Water agreement that governs it.

October 2011 Update:

We have sent a letter to WWL informing them that we want to renegotiate our contract and would like to see a minimum fee in place of our current standby fee. Based upon talks with Chuck Goodling and Scott Clang we gave WWL 50,000 GPD for our current total need and 150,000 GPD for our future maximum need.

We are working with the state to determine what role if any the infiltration well can play as a future water source.

November 2011 Update:

WWL did respond to our letter. We will be meeting with them in December to continue the discussion. We do plan on increasing the size of the pipe that connects us to WWL. We will be meeting with D&K to get a proposal from them to implement this project.

We are also continuing to work to develop a plan to expand our infiltration well. Ed did talk to Diana Morgan to verify that we do have the right to continue the use of this well as long as it continues to test out OK. We are going to have D&K help us understand what our options are here.

December 2011 Update:

We did meet with Chuck Golding and Shawn Patenaude (D&K) and Scot Clang (GSRWA) to discuss both the interconnection to WWL and the possibility of expanding the infiltration well. On the WWL interconnection the conclusion was that it is probably best to leave the current connection as it is and implement a new 4"-6" connection direct to the WWL 6" pipe. This will only be done after we know the status of our future use of WWL.

The infiltration well issue is more complex. The original lower dam design clearly indicates the possible implementation of several infiltration wells. Our current one is grandfathered but we were unable to determine the feasibility of expanding it. Another option, a gravel well, was considered previously but not pursued due to insufficient capacity from a test dig. Chuck Golding (D&K) will talk to Claude Cormier and get his opinion on expanding the infiltration well or adding a new gravel well. Again, once we have a better idea of our future use of WWL, we will return to this project..

Upper Lake Spillway Project

Start Date: Project currently active

Current People assigned: Don for the implementation phase

Background:

The area next to the District Office with the parking lot and beaches on both sides was designed to be a spillway to take the pressure off the causeway dam in times of very high lake levels. Over the years, we have made modifications to this area so that it no longer functions as it was designed. The overflowing water is confined to a small area and washes out the beach area. This has happened twice in the last year. The state wants this area modified to function as a spillway.

There were a series of meetings with the state and our engineering support firm (Dubois & King) to work out a design that provided protection from washouts but still allowed us to continue using the area.

The design was finished and approved by the state but implementation was put on hold until after the Summer Program was finished.

Status:

The implementation phase will start on Wednesday, September 14th.

October 2011 Update:

The construction phase of this project has been completed. We need to follow up to get the as-built drawings and the final state approval. The finished project looks great!

November 2011 Update:

We had a visit by Jeff Blaney (NH DES Dam Safety) and Shawn Patenaude (D&K) to review the completed project. Shawn will give us a letter of certification and the as-built plan for us to pass on the state.

Dry Hydrants Project

Start Date: Project currently active

Current People assigned: Ed, Don

Background:

We have two active dry hydrants. We wanted to correct a problem with one of these and consider adding one or two additional units.

We need input from the Woodsville Fire Dept on how to proceed and to look at possible cost sharing.

Status:

Ed will send another letter to the Woodsville Fire Dept to request their help.

Update of October 2011:

Input from Don Hammon, Fire Chief, to the Commissioners:

1. Relocate the dry-hydrant located near the mailboxes closer to the lake and create a roadway to the hydrant for fire trucks
2. Relocate dry-hydrant near Killer Hill to just off Roudebush loop into the lake just off dam
3. Place hydrant and pipe into the pond at old ski area
4. Consider the placement of a hydrant below the holding tanks

Lower Lake Outflow Project

Start Date: Fall, 2011

Current People assigned: Don

Background:

The pipes that provide the outflow from the lower dam are the original ones installed when the dam was built. They are approaching their expected lifetime and will have to be replaced in the next 5 to 10 years. We are working to develop an overall plan and timeframe as determined by both the state and our engineering consultants.

Update of October 2011:

The level of the lower lake was lowered to allow the Spillway Project to be completed. This allowed Shawn Patenaude (D&K) to examine the lower lake outlet. He thought it was in acceptable shape considering the age of the pipes. Jeff Blaney (NH DES) examined this area in 2006 and is not as optimistic.

We expect the timeframe for this project is about 5 years. We will continue to work on the overall plan and look at different options.

Update of November 2011:

We reviewed both the upper and lower lake outflows with Shawn and Jeff. They agreed that the time frame for the upper lake was 10 years and for the lower lake more like 5 years. Jeff said that a reline of the lower lake outflow would be treated as a repair and would not require a permit. We need to look at both projects and develop a ten year plan.

Update of December 2011:

There is an interaction between the lower dam outflow and the infiltration well. Once we know the long term relationship between WWL and Mountain Lakes, we will decide how to proceed in this area.