

**North Branch Fire District #1
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**THESE MINUTES ARE NOT OFFICIAL UNTIL APPROVED BY THE
PRUDENTIAL COMMITTEE**

Minutes of the Special Meeting of the North Branch Fire District #1, Prudential Committee, October 24, 2018.

This Meeting, having been duly warned, was called to order at 9:58 a.m. by Chairperson, Cyndee Frere.

Members Present: Cyndee Frere, Karl Braunbach, Edward Barber and Thomas Ferrazza.

Absent: Brendan Ryan.

Also Present: Edward Floyd, Rebecca Snow, Bart Howes and Linda Holland.

Public Comment: None.

Project Update/Ed Floyd: Floyd reported that on Sunday, October 21, 2018 RTD Enterprises, LTD of Madison, Maine arrived at the site for a pre-mobilization inspection. The on-going concern about the soft subbase due to saturated soils was discussed in length and the following options were discussed;

1. Installing a sacrificial thin liner over the geotextile stockpiled at the site.
2. Requesting permission to subsurface dispose well beyond permit limits to alleviate spray and stop seepage causing the west side stability issues.
3. Construct a rock road through the pond bottom to support equipment and liner installation.
4. Fill the pond bottom with sand to above saturation depths, and construct an interceptor ditch along the west side to intercept seepage from the west bank.
5. Install a woven geotextile with stitched panels to protect the sand and install the liner in July/August 2019.
6. Installing several layers of the non-woven geotextile that is on site over soft areas until a firm surface is obtained to weld the seams.
7. Installing geogrid over soft areas.
8. Install 6' sock pipe along the west slope. (Pipe wrapped with filter fabric).

Another option of solidifying the bottom with a soil/cement mix was done on a trial basis ten days ago and found to be an estimated cost of more than \$50,000.00 without

accounting for the access needed to deliver bottom dump trailers with cement to the pond.

RTD Enterprises, Vice President, Robbie Emery stated at the pre-mobilization meeting that he feels that four layers of fabric still isn't going to stop the water from coming up when you step. If you are still sinking, when you walk, I will not be able to weld the liner. It needs to be stable and that will not happen until the water has stopped saturating the subgrade. A stable subgrade for the liner is such that you should not sink more than 3/4" into the surface, this is to support the integrity of the liner. You cannot weld the liner through water or mud. The price for a 12 mil. woven coated liner installed is \$76,350.00.

Solution pros and cons:

1. Using the Holding Pond this winter will cause sludge to settle in the bottom where it will contaminate the sand if left as is and the sand will need to be removed.
2. Installing the non-woven geotextile stockpiled on site is not an option. The soft soil will get intermixed with the non-woven fabric and the fabric will not be a viable drainage path. It would need to be removed and disposed of next year.
3. Constructing drainage or rock stabilization will take time and make a lot of disturbance. The liner needs to be welded in the dry and in weather above freezing.
4. Requesting to use the subsurface beyond permit limits would entail disposal activities that could not be guaranteed to runoff with all the rain forecasted and it would likely not solve the seepage problem.
5. Installing a sacrificial liner was discounted as having a high potential for failure.
6. Placing the liner over the soft subbase will cause localized settlement during the first fill and when it does settle the liner will likely develop shear stress failure across seams. That will lead to sand being washed and sloughing of side slopes because the liner will float and water will migrate underneath.
7. Usually wrinkles are built into a liner if it is installed in hot weather to account for cold weather shrinkage but that would not solve the settlement failures because the weight of water and the friction of the fabric against the textured liner and the fabric against the soil. The liner will not slide and accommodate the settlement area but instead the wrinkles will likely fold over and could develop shear stress failures at the folds due to weight and cold temperatures. The potential that any material placed on the surface would sink into the soft subbase rendering it unfit to weld.
8. The probability that drainage would need to be closely spaced causing more disturbances to recover from than progress towards completion.

Howes stated that he wants to get the drainage system working this year. Floyd suggests using an auger to dig holes on the drainage that is in place and fill the holes with some type of material, such as rocks. Floyd estimates the cost to do the holes at about \$10,000.00 and feels it will make the underdrain work more effectively. Kingsbury had

an estimate of over \$206,000.00 to do a better underdrain system. Floyd wants to do something in between. Braunbach instructed Floyd “that as the engineer, the design of the better drainage was left to him, but he was to ensure it worked properly. It will be more than \$10,000.00 just for holes. The Committee discussed freeing up \$125,000.00 so the District could afford the whole \$206,000.00 if necessary.

The Prudential Committee all agree that if the pond liner does not come with a warranty, they will wait until 2019 to have it installed.

Ferrazza moved to use the Reserve Account and the SS Account for reduced linear drainage on the back side of the Holding Pond. Seconded by Braunbach. Passed unanimously. The Committee asked Holland to wait until the Regular Meeting of November 8, 2018 before Warning a Special Annual Meeting for the possible expenditure of the Reserve Funds.

Sitzmark/60 Acre Parcel: Holland will seek a forester to appraise the 60 acres in Wilmington.

Other Business: Holland asked the Committee what to do with meters that have not yet been activated, some since last May. The Committee responded to bill the consumer the minimum bill of \$60.00 plus the bond.

Frere moved to adjourn the meeting at 10:59 a.m.

November 8, 2018 Next Regular Prudential Committee Meeting at 12:00 noon.
December 4, 2018 Board of Abatement at 7:00 p.m.

Respectfully Submitted:

Linda L. Holland,
Administrative Manager

cc: C. Frere, K. Braunbach, T. Ferrazza, E. Barber, B. Ryan, E. Floyd, B. Howes, H. Terhune, D. Facilla, J. Mahon, A. Pritcher, A. Palmiter, M. Himelson, L. Anelli, A. Levine, J. Flanagan, C. Helmstetter, Gray Ghost Inn, J. Desrochers, J. Gooch, Town of Dover, J. Densmore,, J. Redd, M. Garber, P. Fisher, R. Reed, S. Dupries, S. Meade, V. Czechorowski, Y. Strus, L. Fraser, A. Perkins, L. Newton, R. Rubin, C. Turpin, R. Parker-Houghton, G. Golet, S. MacDougall, L Harkawik, R. William, P. Fitzpatrick S. Joyce-Albano, R. Caplan, G. Henry, Deerfield Valley News and the Brattleboro Reformer.

Posted: North Branch Fire District #1, Wastewater Treatment Facility & Administrations Building. Dover Town Office.