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December 18, 2015

As part of the Atlantic Salmon Federation's (ASF) and the Sheepscot Valley Conservation Association (SVCA) proposal to remove the Coopers Mills Dam we are proposing to construct three new hydrants. Our goal has always been to come up with an equal or better dry hydrant system than currently exist in Coopers Mills for the Whitefield Fire Department. Over the past ten months, ASF has worked with the town chartered Dam Committee and various consultants to design a new dry hydrant system that would be constructed by ASF at no cost to the Town in the event the town chose to remove the Coopers Mills Dam. These engineering consultants are the James W. Sewall Company, Interfluve Inc., NOAA Fisheries (Matt Bernier), and the State of Vermont Dry Hydrant Engineer, Troy Dare. These consultants believe that the commitment outlined below provides represents an improvement over the current dry hydrant in front of the dam. If the town chooses to accept ASF's and the Sheepscot Valley Conservation Association (re-named Mid-Coast Conservancy) overall proposal, ASF agrees to the following:

- 1) Construction of ramp and two dry hydrants as detailed in the design prepared by the James W. Sewall Company of Old Town Maine titled, Coopers Mill Dam, Plan and Profile, dated 12-1-15 (Exhibit A). The major components of this design include:
 - a. A new ramp extending approximately 100 feet upriver with a six percent slope;
 - b. An underground pipe extending upriver to point in the river that results in no more than a 10 foot lift to the pumper truck. At this point in the river a metal screened intake will emerge and draw in water. The river bottom and adjoining bank will be sculpted to increase the velocity of the river through this section to minimize any chance of sediment accumulation. The intake will be located on the near side of the river channel to minimize any potential damage of the metal water intake screen and to facilitate periodic monitoring. This intake will function twelve months of the year.
 - c. An underground pipe extending approximately 20 feet from the end of the ramp into the river channel where a screened metal intake head will emerge. This intake is intended to primarily function during the higher water months of the year and serve as a second source or backup source of water.
 - d. The two dry hydrant pipes will be located approximately eight feet apart at the end of the ramp.
 - e. An underground pipe will then run from the dry hydrants to a stand pipe on Main Street so fire trucks will not need to back down Basin Lane.



- 2) Construction of a new lane and deeded Right of Way to the Town of Whitefield (Exhibit B) on a parcel of land in Windsor on the northeast side of the Route 17 bridge on the West Branch of the Sheepscot River.
- 3) A new dry hydrant with an elevation difference of 5 feet will be constructed as detailed in a design prepared by the James W. Sewall Company of Old Town Maine titled, West Branch Hydrant, Plan and Profile, dated 1-7-15 (Exhibit C)
- 4) ASF will transfer the sum of \$30,300 to the Town of Whitefield to be held in a restricted account for the Fire Department to be used for future maintenance of the three dry hydrant systems detailed in this proposal. The potential maintenance items are attached as Exhibit D.
- 5) ASF will secure Town of Whitefield approval for final, stamped, and ready for construction design drawings prepared by Sewall Engineering.
- 6) ASF will be responsible for all permitting associated with the construction of the dry hydrants.
- 7) ASF will be responsible for all construction and construction oversight costs for the dry hydrants.
- 8) For a period of three years after the initial operation of the new installations ASF will pay for any work necessary to insure the full operation of the three dry hydrant installations.
- 9) ASF will have two of the hydrants ISO certified. The current hydrant we do not believe could be certified due to unavailability in dry summer months.