

## **Narrative Development Plan-Spring 9 Warm Springs Bay 1/23/18 1:27 PM**

The purpose is to obtain an easement and eventually hot water rights from Spring 9 to our cabin Lot1 Block 7 Ptn Warm Springs Bay.

Spring 9 pool is located just to the side of Baranof River under a couple of rocks and a couple small crevices in the rocks. The primary source of hot water is the pool at the side under the rocks. This pool has good potential as a nice source of hot water.

Spring 9 was developed in approximately July of 2014 by placing a 1in hose (red handle valve) into a crevice with hot water. Another 1.5 inch line (blue handle valve) was placed in a different nearby crevice with hot water along with a 2 inch cold water drain off line. Please note although the 1.5 inch line has a blue handle it is not for cold water. The cold water drain off line slopes slightly down hill and drains off any cold water back into the river. Concrete was placed to secure the 3 lines into the crevices. The square footage of concrete used is approximately 29 square feet. The 3 lines join together immediately and are supported by 3 crossed aluminum 1.5 in angle across sloping rocks. The aluminum angle is rock bolted into the rocks. At the end of the run which is approximately 20 feet the cold water drain off line ends and the hot water line is joined by a 1 in line that comes from the main Spring 9 pool.

The level of the water in Spring 9 was raised by adding about 6 inches wide foot by 3 feet long of concrete for a total of approximately 1.5 sf.

Above the pool there is a concrete wall 6 in wide by about 3 feet at the bottom and about 7 feet at the top for a total of about 3.5 sf. It was used during the construction phase to allow time for the concrete to dry.

As the lines join together they become a single 1.5 in line for 100 feet around a cliff and then become a 1.25 in line for around 1400 feet as it travels down hill through the woods to our cabin (Lot 1, Block 7,Ptn). The line lays on the ground. All lines are made of HDPE or PVC with some joints with hose clamps.

Location of the line follows:

Start Spring 9, 57 degrees 5' 12" N 134 degrees 50' 25" W.

The next point at the bottom of the cliff 57 degrees 5'14"N 134 degrees 50' 22"W.

Where our line meets the other hot water lines is 57 degrees 5'16"N 134 degrees 50'19"W.

Behind the Morris cabin is 57 degrees 5'20"N 134 degrees 50'12"W.

End is at our cabin 57 degrees 5'21"N 134 degrees 50'07"W.

The hot water line serves as domestic bathing and heating for our cabin. It is a continuous flow system, the exiting water flows onto the ground at our cabin.

Maintenance of the line primarily consists of reconnecting lines with hose clamps any that have come apart, removing debris such as twigs, rocks, sand from the lines and clearing the intake at the pool.

Please note measurements and locations noted are as accurate as possible and to the best of our ability.

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