

## *Find Your Way* *Mapping Exercise Answer Key*

### *Icicle Creek Watershed Map*

Use the Cashmere Mountain Township and Icicle Creek Watershed maps to find the following:

1. What is the Leavenworth National Fish Hatchery's elevation? *1200 ft.*  
Describe features of the area around it.

*It is not U.S. Forest Service land (it is owned by the U.S. Fish & Wildlife Service and private landowners); the area is flat to mildly sloping; there's a road nearby; Icicle Creek splits at the hatchery; building outside the flood plain is possible on the site.*

2. Find the road that switches back more than six times. Why was it constructed that way?

*There are many possible reasons: a) switching back is a way to gain elevation fast while keeping the road gradient suitable for logging truck mobility; b) the landowner may have wanted or needed to keep the road on his/her own property, so as to avoid trespassing on neighboring land; or c) access was limited by topographic features like rocks, cliffs, etc. How would steep switchback roads such as these impact the hillside and Icicle Creek aquatic life? There could be an erosion problem leading to siltation that affects fish, macroinvertebrates and other organisms. Stormwater may also be directed to structures below, with a potential for serious damage.*

3. List all the areas that would be suitable for building. Consider riparian areas, avalanche and debris flows, flooding, etc

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### *Cashmere Mountain Township Map*

1. What is the highest point and elevation?

*Cashmere Mountain, 8501 ft.*

2. Find a flat area. What is the elevation? (check answer against map)

3. What is the elevation of Trout Lake? *4800 ft.*

Little Caroline Lake? *5800 ft.*

What is the elevation difference? *1000 ft.*

4. Find Eightmile Creek. Describe its course. Think of the type of land it flows through, the elevations, any tributaries, etc.

*Eightmile Creek flows through Eightmile Lake and Little Eightmile Lake. Pioneer Creek and Mountaineer Creek are its tributaries; it flows into Icicle Creek; it begins at 5400 ft. and flows down to 3400 ft.; the terrain immediately adjacent to the creek is mildly sloped with some flat areas; there is a road at its lowest point.*

5. On the map, draw Pioneer Creek's watershed boundaries.