**L – Cumberland Oxbow**

5/10/2021

* Accessed via Skagit Land Trust trail from S. Skagit Hwy
* General – From SLT trails, take first viewpoint option (it has a wood duck box and a decent sized alder overhead) on left then skirt pond heading downstream for a couple hundred feet to the first [mostly] pond-spanning tree, branchy, with loose bark.
* Solinst level logger 2136261 with t-post and PVC housing installed at 17:13 on LB side behind the tree and lily pads to shield it from view from the viewpoint, waypoint 101, 48.51549 -122.00660
* Also temperature logger 20772086 in solar shield wired around same log described above at same lat/long, circled in yellow:

A picture containing outdoor, tree, grass, person

Description automatically generated



5/11/2021

* Snorkel survey and time lapse camera installed
* Survey temp loggers died at the end of survey in House Slough so no longitudinal temperature recordings of Cumberland Oxbow
* Time lapse camera installed WPT 30 (48.514227, -122.007367) at downstream end of oxbow pond where narrows into two channels – camera in right channel (if facing toward Skagit) where narrows and dries with large wood fallen across channel

5/12/2021

* Boat reconnaissance
* No apparent outlets from mainstem – steep incline from mainstem water surface

A picture containing tree, outdoor, nature, forest

Description automatically generated

* 48.512414, -122.008392 bank along Skagit near apparent outlet of Cumberland oxbow

A picture containing tree, water, outdoor, river

Description automatically generated

* WPT 31 (48.510703, -122.00784) Cumberland Creek outlet – connected

6/21/2021

* All loggers present (level, temp), level logger submerged too deeply for checking string length.
* Barologger 2136290 installed at 48.51562 -121.00637, hanging just above eye level in the suckering 2” branches on the south side of an alder at the back of a clump of alders as the spur trail that runs down pond from the oxbow trail dead ends in blackberry detritus and trees.

A person holding a frisbee in the woods

Description automatically generated



A picture containing tree, outdoor, person, plant

Description automatically generated

A picture containing tree, outdoor, wood, forest

Description automatically generated



* Yellow dots show access via main trail and water’s edge to Cumberland level and temp loggers (yellow circle). Yellow X shows new barologger installation.

Text

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8/16/2021

* Cumberland Creek consists of isolated pools at this time

A picture containing tree, ground, outdoor, nature

Description automatically generated

* Attempted snorkel survey but visibility terrible and not able to snorkel
* Hundreds of 20-30 mm sticklebacks
* Thick vegetation throughout
* Western toads seen
* Took four habitat points with temps high and DO very low (DO may not be accurate because of silty bottom)
* No difference in temp/DO between top and bottom of water column

A picture containing tree, outdoor, plant

Description automatically generated

10/12/2021

* Logger retrieval
* Temperature logger retrieved 1:22 pm, submerged
* Level logger retrieved 1:27 pm, submerged
* Barologger retrieved 1:36 pm
* Site likely not connected