**AK – False Lucas Slough**

5/10/2021

* Accessed via Sierra Pacific Road gate on Martin Ranch) 5/10/2021
* General – talked to Russ Dalton and Richard from the Martin Road neighborhood who were on the trail system near the SPI boundary, which is currently marked with pink flagging. Walked to the corner of the oxbow scallops, where the trail system most closely approaches Lucas on the north side, followed a dry channel 20+ hard minutes out into water with downed trees, reed canary, beaver channels, reeds, mud, and dense spirea (blue track on Gaia screenshot below), scouting both directions a little, including up to the old rail line dike across the upper oxbow of False Lucas. No fish seen.
* Solinst level logger 2136243 with t-post and PVC housing installed at 14:25 (waypoint 100 GPS 1) in a deep beaver channel along the cattail semi-berm separating the two scallops of the oxbow, within 50’ of the promontory, at 48.47534 -121.56828, gage at 1.21 m. Logger at the red pin marked with the yellow arrow below. Wading access in blue, road/trail access in magenta. No temp logger here. Hard to access and few obvious anchors.

Map

Description automatically generated



A picture containing tree, plant

Description automatically generated



* Spirea thickets on the way to logger site yellow arrow approx. location of logger.

A picture containing tree, outdoor, plant, forest

Description automatically generated

* Up-pond from logger site, standing on the railroad dike looking further up-pond. >2 m deep off the edge here and no fish seen.

A picture containing tree, outdoor, nature

Description automatically generated

* Looking down pond from near the logger, at the cattail line (not a barrier) separating upper and lower oxbow scallops.

A picture containing outdoor, tree, water, river

Description automatically generated

* Level logger, looking down pond akin to the photo just above.

5/13/2021

* Accessed via boat on mainstem
* Main outlet disconnected (48.480600, -121.576500)

A picture containing tree, outdoor, rock, plant

Description automatically generated

* WPT 37 – Chinook in mainstem pool at outlet, opportunistic snorkel survey on way back to boat at 14:15
* WPT 38 – end of wetted area, after this point followed “main” channel back to boat
* Time lapse camera installed ~30 ft into site in the dry channel – WPT 39 (48.48041, -121.576402)

6/22/2021

* Temperature logger from SRSC installation at culvert on Sierra Pacific Road present.
* Level logger downstream in pond measured with tape measure, gage 1.24 m. Later conversion from 55.5 inches = string length 1.41 m.

Letter

Description automatically generated with medium confidence

7/15/2021

* Boat reconnaissance
* Site still disconnected, didn’t get out of the boat but could see from mainstem

8/17/2021

* AK ACCESS – new site outlet identified

Map

Description automatically generated

**AK1**

**AK ACCESS**

* Site disconnected at AK ACCESS with thick blackberry so couldn’t explore further into site
* Looks from REM that this may be good disconnected site but not possible to access

A picture containing outdoor, grass, plant, tree

Description automatically generated

* AK1 still disconnected, didn’t get out of the boat but could see from mainstem

A picture containing tree, outdoor, plant, surrounded

Description automatically generated

10/7/2021

* Logger retrieval
* Retrieved timelapse camera, camera in good working condition
* Expect lots of photos of people because location high traffic area
* Channel is hard packed sand and gravel, looks like it was recently wetted or heavy rain inundated the channel
* Site disconnected at time of visit
* Retrieved level logger 2:45 pm, submerged, gage height 1.03 m
* Retrieved temperature logger 3:47 pm, logger half out of water, log rolled over and exposed logger
* Water murky, fairly cold, thick vegetation
* No fish seen other than sticklebacks
* Marked better trail, marsh exit marked as WPT 429 (48.47605, -121.56858)
* Entrance from trail marked at WPT 431 (48.47774, -121.56747)
* Much preferred, much quicker – roughly follows a small channel
* Culvert at Sierra property crossing is dry/clogged

10/13/2021

* Logger reinstallation
* Temperature logger reinstalled 10:00 am and moved from previous spot
* New location is on a 45 degree angle log pointing toward the shore about 6 in diameter that is sticking out of the channel on the left hand side, approximately 20 m downstream of the culvert

A picture containing letter

Description automatically generated

* Level logger reinstalled 10:32 am, used same path through woods (much better than previous path), gage height 1.04 m

10/19/2021

* Second snorkel survey coming from Sierra trail in amphibian training area
* Water very clear, no salmonids observed, several sticklebacks observed
* Visible upwelling, clear bubbles, like Barnaby and Harrison pattern
* Lots of decomposing leaves, could be the reason for low DO

A creek in the woods

Description automatically generated with low confidence