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Coastal and Marine Fish Ecology Lab Intern

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COLLEGE OF THE ENVIRONMENT



Internship Title:

Organization Worked For:

Student Name:

Internship Dates:

Faculty Advisor Name

Department

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STUDENT SIGNATURE 

DATE: _____

Date	Start Time	Stop Time	Time Elapsed	Description	Takeaways	Fun Fact	Side Stories
12-Apr	7:30 AM	4:30 PM	9:00	Safety orientation, Orientation to area, Clarified terminology, Took surface water samples for invertebrates at Heron Point (at sample site and upstream) and Qwuloolt (at sample site) using a neuston net, Used YSI probe to measure temperature, DO, and salinity, Tested flow meter at Qwuloolt	I gained first-hand experience with seeing undisturbed estuary at Heron Point in comparison to the emergent marsh at Qwuloolt, increasing my knowledge about the effect dikes have on estuarine ecology and teaching me about the restoration projects in the Snohomish estuary. I also learned how to use a YSI probe and record field measurements. I also was able to observe some isopods and other salmonoid food sources.	A group of river otters is called a romp	Saw bald eagles, seals, river otters, and jumping fish (possibly smolt) at Heron Point. Originally there were two river otters and one of them tried to intimidate us by bobbing its head in the water while looking at us and making vocalizations. They kept swimming closer and the one continued its behavior, being joined by two more otters. They continued to watch us until they swam past the channel.
3-May	12:30 PM	8:40 PM	8:10	Sampled invertebrates, water quality parameters, and flow rate at updated sampling site at Heron Point. Used YSI probe for DO, salinity, and temperature measurements. Made field recordings of relevant conditions at the sampling site as well as data measurements. Most of the samples collected were at the bottom due to wind and low flow rates.	I learned about maintaining field equipment after usage and how to label samples for easy cataloguing/organization later. I also learned about the importance of water flow to the success of the sampling method.		Saw a very curious seal. There was also a small, mystery herbivore eating grass about 3 ft from where we were sampling. A school of fish was also swimming up the channel.
10-May	7:00 AM	1:50 PM	6:50	Sampled invertebrates and measured water quality parameters including DO, salinity, and temperature at Heron Point using YSI probe. I also recorded the flow rate and relevant field conditions at the sampling site. All of the samples collected were at the surface due to negligible bottom water flow. We bushwacked over to a different channel containing the old boat to see if the flow rate was higher and evaluate if it would be a suitable alternative to the Heron Point site.	I learned about other parts of the estuary along with factors to consider when choosing research sites. I learned that Sean didn't choose the other channel because of the boat affecting the channel's natural morphology and the difficulty accessing the site.	Voles can swim and the European water voles can swim up to 50ft underwater	We saw what we think is a small vole swim across the channel above the beaver dam.
24-May	6:00 AM	2:45 PM	8:45	Sampled invertebrates, water quality parameters, and flow rate at Marysville and Ebey Island sampling sites. Used YSI probe for DO, salinity, and temperature measurements. Made field recordings of relevant conditions at the sampling site as well as data measurements. Conducted vegetation survey on left bank of Marysville site by taking three transects. Applied aquaseal to holes in waders	I visited the Marysville and Ebey Island sites for the first time. I also learned how to conduct vegetation surveys and take transects. I also learned about the different plants found in the estuary.		When we returned to the Marysville site after Ebey Island many juvenile salmon were jumping out of the water right next to the boats.
29-May	12:30 PM	1:00 PM	0:30				
31-May	11:30 AM	8:00 PM	8:30	Sampled invertebrates, measured water quality parameters and flow rate, and conducted vegetation survey at Qwuloolt. Water quality parameters were measured using a YSI probe. Three transects were taken for the vegetations surveys, using a random number generator to determine which 1mx1m square would be sampled. Made field observations of wind affecting surface flow.	The vegetation around Qwuloolt grew significantly since I was there on April 12th. There was significant variation in the temperature and DO readings, so the average value was recorded. I learned more about the vegetation found in the estuary. There were fewer invertebrates collected compared to other days at the site, potentially indicating that many of the invertebrates had been consumed by fish.		Another river otter showed up! This one just chittered at us before swimming away.
7-Jun	6:30 AM	1:00 PM	6:30	Sampled invertebrates, measured water quality parameters and flow rate, and conducted vegetation surveys at Heron Point. Water quality parameters were measured using a YSI probe. Two transects were taken for the vegetations surveys, using a random number generator to determine which 1mx1m square would be sampled.	It was really impressive to see just how many more columns were needed to record all of the different plants during the vegetation surveys at Heron Point in comparison to the other sites. I learned more about the types of vegetation found in the estuary and how to identify them. Even though there was a really steep tidal drop, the flow rate still wasn't that high so I'm guessing that it has to do with the channel morphology and being located on the main channel's curve.		
total hrs			48:15:00				