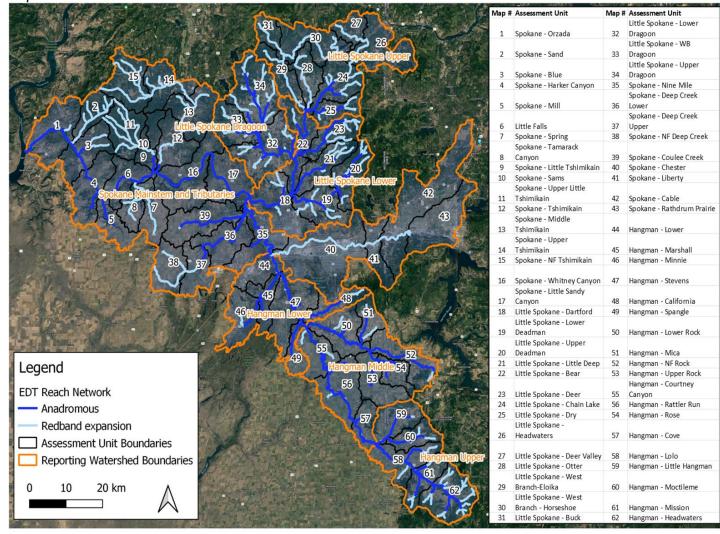
Assessment Unit Team Lead Entity Meeting

Recap

- Assessment Units
- STOI
 - AU 1-15
- Avista
 - AU 35, 40-43, 16, 17
- ECY/SCD
 - AU 20-34, 36-39, 44-57
- CDAT
 - AU 58-63

Spokane Watershed EDT Assessment Units



Protocol Draft

- Assigning Sample Sites
 - Identification of the longest contiguous portion or portion of the reach is necessary
 - Resort to subsampling reaches in subsequent field season if goal is not being met
- Methods recommended by Cramer in the data gaps report
 - Okanogan Basin Monitoring and Evaluation Program
 - May need to be slightly modified for the purposes of this project due to available resources (time, personnel, equipment, etc.)

Equipment

Habitat Surveys

Required	Nice to have
Waders/boots	Laser range finder
Clipboard/field notebook/pencils	Gravelometer
Metric hip chain	Camera
Metric reel tape measure	GPS unit
Convex densiometer	Compass
Clinometer	Flagging tape
Metric ruler	iOS/Android Tablet
Metric stadia rod	Drone
	Trimble GPS unit

Equipment

• Fish Community Surveys (Electrofishing)

Required	Nice to have
Backpack electrofisher equipment	Phototank
Buckets	Polarized sunglasses
Dipnets	Table
Fish measuring board	
Gloves	
Waders/boots	
Notebook/pencils	
Cooler	

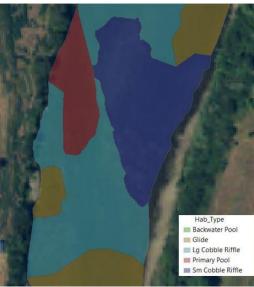
Data Storage and Input

Trimble GPS w/ Terrasync- OBMEP





Polyline Data Format collected with Trimble Unit



Polygon Data Format collected with Trimble Unit

Data Storage and Input

- iForm
 - Ability to integrate various data management software
 - Excel
 - SQL
 - Dropbox
 - ArcGIS
 - Multiple users share access to the same forms











Capacity of each agency

- Teams of 2-3 individuals for habitat data collection
- Assess what equipment each agency has at their disposal
- Time frame of the field season (June-Sep?)

Internship Support

- Eastern Washington University
- Whitworth University
 - Verbrugge Environmental Center (AU 26)
- Gonzaga University
- Spokane Community College



Data Collection

Category	EDT Attribute	Attribute Sensitivity
Channel Morphology	Channel Length	5
	Channel Width	5
	Gradient	5
Confinement	Confinement: Artificial	2
Comment	Confinement: Natural	1
Habitat Composition Habitat Composition Solution File Solution File Graph File Graph File Graph File Graph File File	Habitat type – Limnetic	5
	Littoral	5
	Backwater Pools	5
	Beaver Ponds	5
	Glides	5
	Large Cobble Riffles	5
	Pool Tails	5
	Scour Pools	5
	Small Cobble Riffles	5
	Side Channels	5
	Seasonally Inundated Floodplain	5
	Floodplain Ponds	5
	Groundwater Channels	5
Riparian & Channel Integrity	Bed Scour	4
	Riparian/Stream Interface	2
	Woody Debris	3
Substrate Fine Sediment Embeddedness		5
		5
Hydrology	Flow: Inter-Annual High Flow Variance	4
	Flow: Inter-Annual Low Flow Variance	4
	Flow: Intra-Annual Variation	4

Data Collection

Category	EDT Attribute	Attribute Sensitivity
Water Temperature	Temperature: Daily Maximum	5
	Temperature: Daily Minimum	5
	Temperature: Spatial Variation	4
	Temperature - Food Effect	4
Water Quality	Dissolved Oxygen	4
	Total Suspended Solids	3
	Alkalinity	4
Biological	Benthic Richness	1
	Fish Community Richness	3
	Fish Species Introduction	3
	Predation Risk	4
	Fish Pathogens	4
	Hatchery Fish Outplants	3
Withdrawals	Water Withdrawals	4