

**Site Description**

<b>Study Name</b>	CBWQ-Elk
<b>Site</b>	ALX-03
<b>Sampling Date</b>	Sep 12 2017
<b>Know Your Watershed Basin</b>	Central Kootenay
<b>Province / Territory</b>	British Columbia
<b>Terrestrial Ecological Classification</b>	Montane Cordillera EcoZone Northern Continental Divide EcoRegion
<b>Coordinates (decimal degrees)</b>	49.65544 N, 114.73064 W
<b>Altitude</b>	1316
<b>Local Basin Name</b>	Alexander Creek
	Elk River Watershed
<b>Stream Order</b>	4



Across Reach

**Cabin Assessment Results**

<b>Reference Model Summary</b>					
<b>Model</b>	Columbia-Okanagan Preliminary March 2010				
<b>Analysis Date</b>	November 21, 2018				
<b>Taxonomic Level</b>	Family				
<b>Predictive Model Variables</b>	Depth-Avg Latitude Longitude Reg-Ice Reg-SlopeLT30%				
<b>Reference Groups</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Number of Reference Sites</b>	9	43	17	12	33
<b>Group Error Rate</b>	22.2%	24.5%	22.2%	25.0%	32.4%
<b>Overall Model Error Rate</b>	26.4%				
<b>Probability of Group Membership</b>	0.1%	0.2%	85.6%	12.6%	1.5%
<b>CABIN Assessment of ALX-03 on Sep 12, 2017</b>	Similar to Reference				

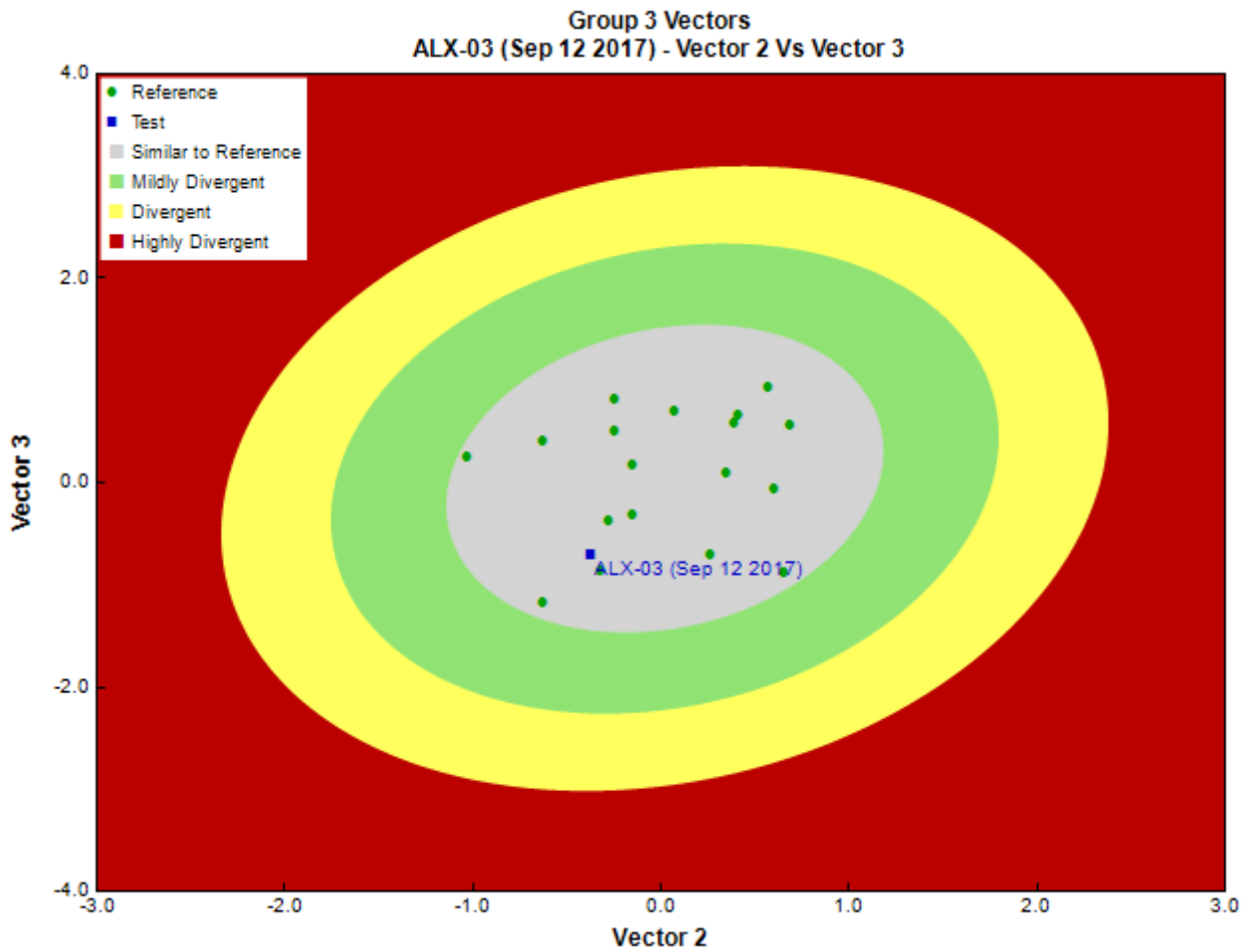


Figure 3. CABIN ordination assessment of the test site with the predicted group of reference sites. Each axis represents the relative abundance of the entire benthic invertebrate community with different organisms weighted differently on each axis.

**Sample Information**

<b>Sampling Device</b>	Kick Net
<b>Mesh Size</b>	400
<b>Sampling Time</b>	3
<b>Taxonomist</b>	Pina Viola, Consultant
<b>Date Taxonomy Completed</b>	December 16, 2017
	Marchant Box
<b>Sub-Sample Proportion</b>	5/100

**Community Structure**

Phylum	Class	Order	Family	Raw Count	Total Count	
Arthropoda	Insecta	Coleoptera	Elmidae	6	120.0	
			Diptera	Ceratopogonidae	3	60.0
			Chironomidae	51	1,020.0	
			Empididae	1	20.0	
			Pelecorhynchidae	1	20.0	
			Psychodidae	11	220.0	
			Simuliidae	2	40.0	
			Tipulidae	1	20.0	
			Ephemeroptera	Ameletidae	2	40.0
			Baetidae	97	1,940.0	
			Ephemerellidae	96	1,920.0	
			Heptageniidae	54	1,080.0	
			Plecoptera	Capniidae	3	60.0
				Chloroperlidae	2	40.0
				Leuctridae	1	20.0

**Community Structure**

Phylum	Class	Order	Family	Raw Count	Total Count
			Nemouridae	63	1,260.0
			Perlodidae	3	60.0
			Taeniopterygidae	34	680.0
		Trichoptera		3	60.0
			Apataniidae	2	40.0
			Glossosomatidae	16	320.0
			Hydropsychidae	9	180.0
			Rhyacophilidae	13	260.0
			Uenoidae	2	40.0
			Total	476	9,520.0

**Metrics**

Name	ALX-03	Predicted Group Reference Mean $\pm$ SD
<b>Bray-Curtis Distance</b>	0.55	0.4 $\pm$ 0.2
<b>Number Of Individuals</b>		
<b>% Chironomidae</b>	10.8	6.9 $\pm$ 11.3
<b>% EPT Individuals</b>	83.9	83.1 $\pm$ 12.6
<b>% of 2 dominant taxa</b>	40.8	53.1 $\pm$ 12.3
<b>Total Abundance</b>	9520.0	4956.1 $\pm$ 4202.8
<b>Richness</b>		
<b>Total No. of Taxa</b>	23.0	20.0 $\pm$ 4.2

**Habitat Description**

Variable	ALX-03	Predicted Group Reference Mean $\pm$ SD
<b>Channel</b>		
<b>Depth-Avg (cm)</b>	32.8	22.5 $\pm$ 10.5
<b>Velocity-Avg (m/s)</b>	0.67	0.50 $\pm$ 0.25
<b>Landcover</b>		
<b>Substrate Data</b>		
<b>%Boulder (%)</b>	10	6 $\pm$ 7
<b>%Cobble (%)</b>	66	61 $\pm$ 27
<b>%Gravel (%)</b>	1	1 $\pm$ 2
<b>%Pebble (%)</b>	23	31 $\pm$ 28
<b>%Sand (%)</b>	0	0 $\pm$ 0
<b>%Silt+Clay (%)</b>	0	0 $\pm$ 1
<b>Topography</b>		
<b>Water Chemistry</b>		