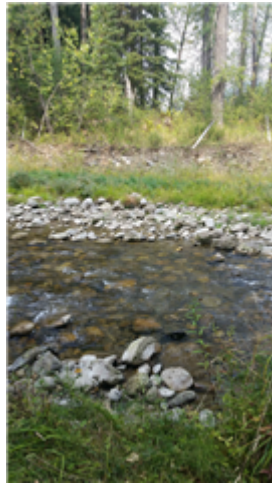


Site Description

Study Name	CBWQ-Elk
Site	Liz-01
Sampling Date	Sep 12 2017
Know Your Watershed Basin	Central Kootenay
Province / Territory	British Columbia
Terrestrial Ecological Classification	Montane Cordillera EcoZone Northern Continental Divide EcoRegion
Coordinates (decimal degrees)	49.47101 N, 115.07666 W
Altitude	992
Local Basin Name	Lizard Creek
	Elk River
Stream Order	3



Across Reach

Cabin Assessment Results

Reference Model Summary					
Model	Columbia-Okanagan Preliminary March 2010				
Analysis Date	November 21, 2018				
Taxonomic Level	Family				
Predictive Model Variables	Depth-Avg Latitude Longitude Reg-Ice Reg-SlopeLT30%				
Reference Groups	1	2	3	4	5
Number of Reference Sites	9	43	17	12	33
Group Error Rate	22.2%	24.5%	22.2%	25.0%	32.4%
Overall Model Error Rate	26.4%				
Probability of Group Membership	0.0%	0.6%	77.4%	20.2%	1.8%
CABIN Assessment of Liz-01 on Sep 12, 2017	Mildly Divergent				

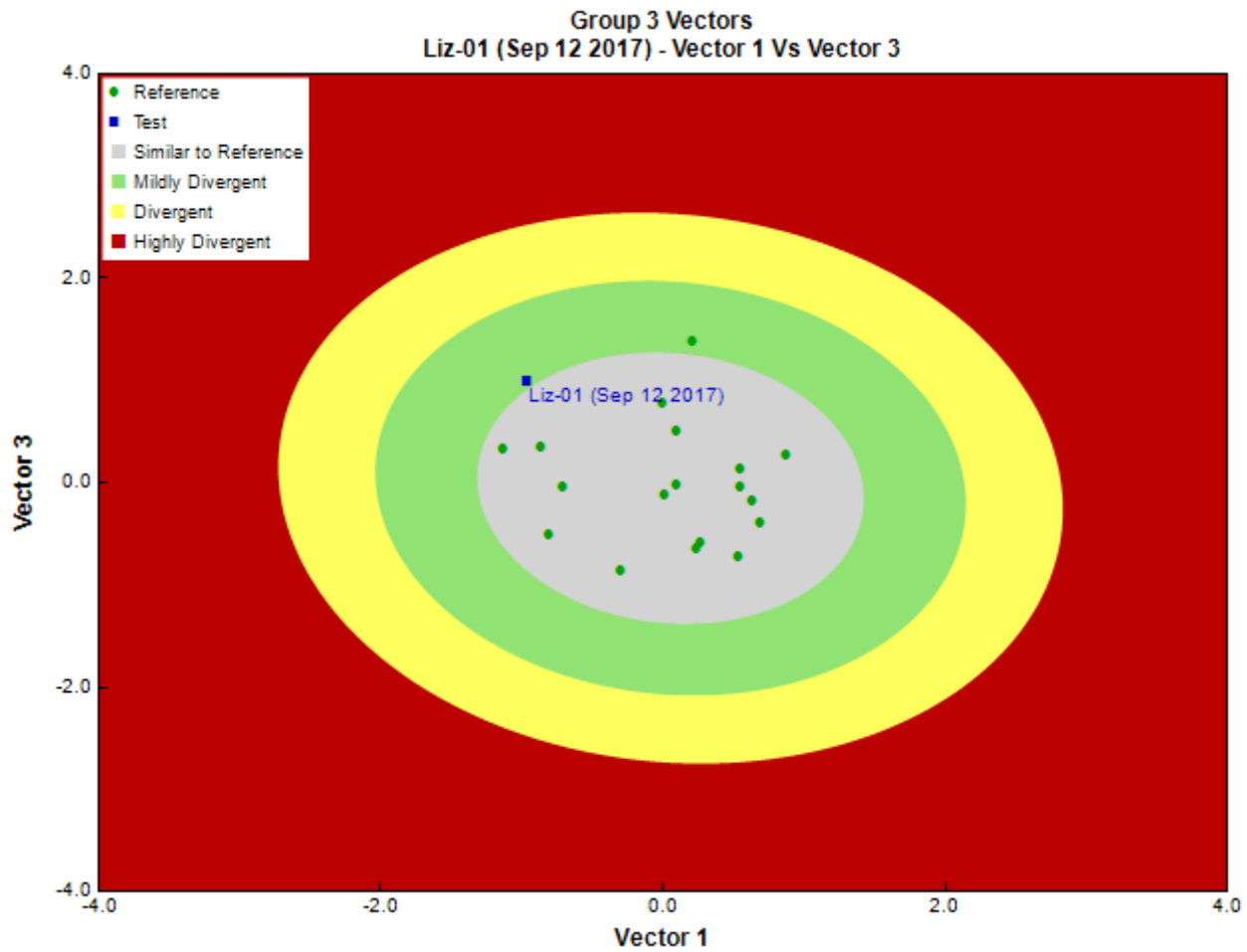


Figure 3. CABIN ordination assessment of the test site with the predicted group of reference sites. Each axis represents the relative abundance of the entire benthic invertebrate community with different organisms weighted differently on each axis.

Sample Information

Sampling Device	Kick Net
Mesh Size	400
Sampling Time	3
Taxonomist	Pina Viola, Consultant
Date Taxonomy Completed	March 18, 2018
	Marchant Box
Sub-Sample Proportion	6/100

Community Structure

Phylum	Class	Order	Family	Raw Count	Total Count	
Annelida	Clitellata	Tubificida	Naididae	18	300.0	
Arthropoda	Arachnida	Trombidiformes	Lebertiidae	12	200.0	
			Torrenticolidae	2	33.4	
	Insecta	Coleoptera	Elmidae	13	216.7	
			Diptera	Chironomidae	9	150.0
				Empididae	2	33.4
		Ephemeroptera	Baetidae	Psychodidae	10	166.7
				Simuliidae	4	66.7
				Tipulidae	4	66.7
				Baetidae	236	3,933.3
				Ephemerellidae	11	183.4
				Heptageniidae	4	66.7
		Plecoptera	Capniidae	Capniidae	5	83.3
				Chloroperlidae	4	66.7
				Nemouridae	36	600.0

Community Structure

Phylum	Class	Order	Family	Raw Count	Total Count
			Perlidae	4	66.7
			Perlodidae	2	33.4
			Taeniopterygidae	3	50.0
		Trichoptera		1	16.7
			Brachycentridae	1	16.7
			Hydropsychidae	29	483.3
			Lepidostomatidae	3	50.0
			Rhyacophilidae	6	100.0
			Uenoidae	1	16.7
			Total	420	7,000.5

Metrics

Name	Liz-01	Predicted Group Reference Mean \pm SD
Bray-Curtis Distance	0.75	0.4 \pm 0.2
Number Of Individuals		
% Chironomidae	2.1	6.9 \pm 11.3
% EPT Individuals	82.3	83.1 \pm 12.6
% of 2 dominant taxa	64.9	53.1 \pm 12.3
Total Abundance	7000.0	4956.1 \pm 4202.8
Richness		
Total No. of Taxa	23.0	20.0 \pm 4.2

Habitat Description

Variable	Liz-01	Predicted Group Reference Mean \pm SD
Channel		
Depth-Avg (cm)	14.1	22.5 \pm 10.5
Velocity-Avg (m/s)	0.63	0.50 \pm 0.25
Landcover		
Substrate Data		
%Boulder (%)	6	6 \pm 7
%Cobble (%)	40	61 \pm 27
%Gravel (%)	7	1 \pm 2
%Pebble (%)	47	31 \pm 28
%Sand (%)	0	0 \pm 0
%Silt+Clay (%)	0	0 \pm 1
Topography		
Water Chemistry		