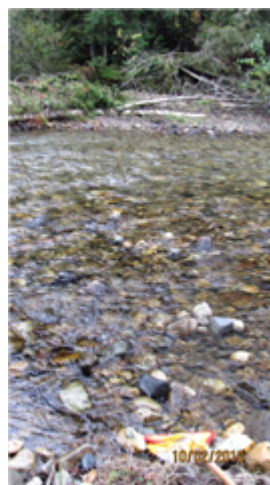


Site Description

Study Name	CBWQ-Arrow
Site	NESNO01
Sampling Date	Oct 03 2010
Know Your Watershed Basin	Central Columbia
Province / Territory	British Columbia
Terrestrial Ecological Classification	Montane Cordillera EcoZone Columbia Mountains and Highlands EcoRegion
Coordinates (decimal degrees)	49.96696 N, 117.88336 W
Altitude	1670
Local Basin Name	Snow Cr.
	Columbia River
Stream Order	5



Figure 1. Location Map

Across Reach
Aerial (No image found)



Down Stream

Field Sheet

Miscellaneous (No image found)



Substrate



Up Stream

Cabin Assessment Results

Reference Model Summary					
Model	Columbia-Okanagan Preliminary March 2010				
Analysis Date	August 11, 2017				
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	0.1%	3.9%	5.2%	71.9%	18.8%
CABIN Assessment of NESNO01 on Oct 03, 2010	Similar to Reference				

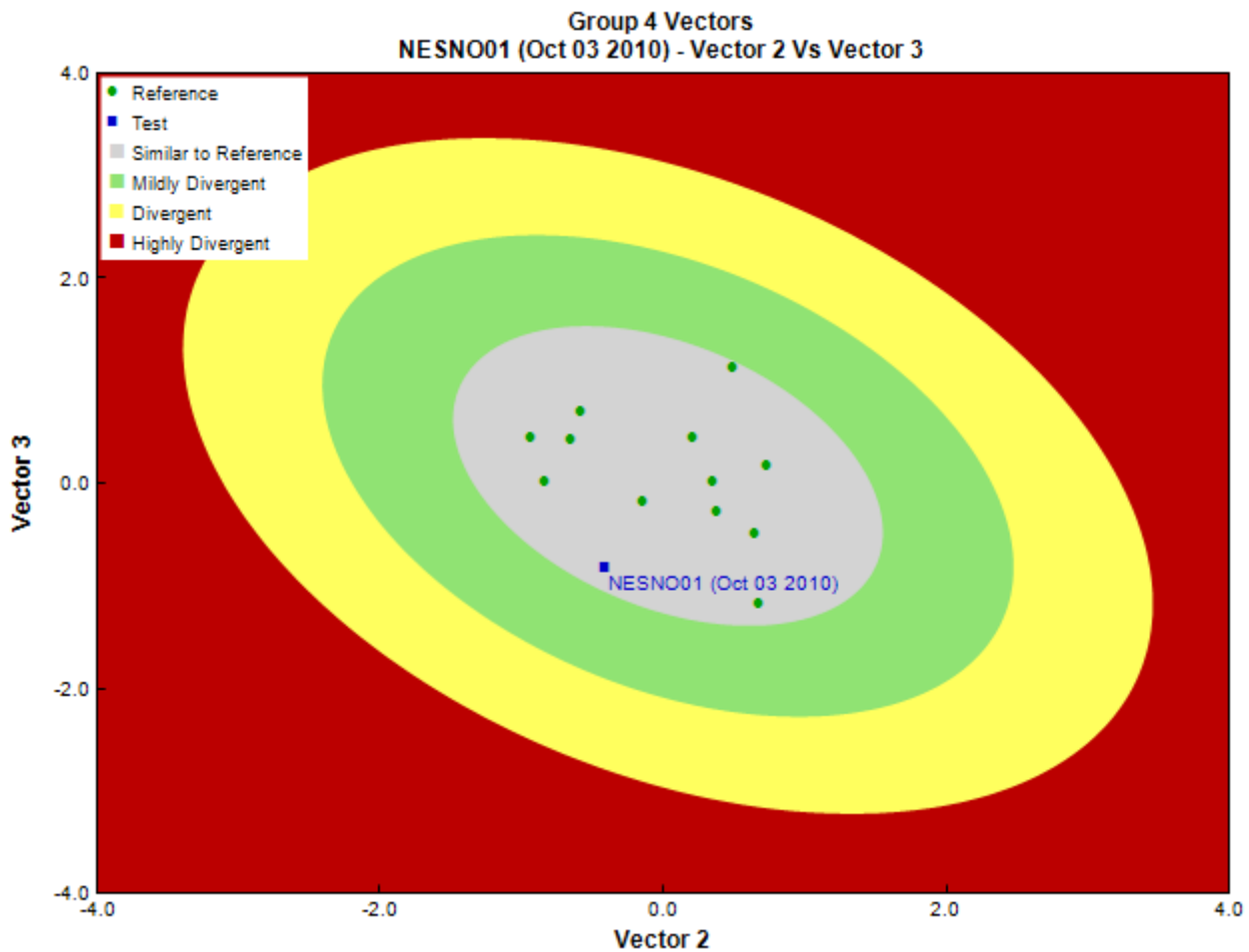


Figure 3. CABIN ordination assessment of the test site with the predicted group of reference sites. Each axis represents the relative abundance of the entire benthic invertebrate community with different organisms weighted differently on each axis.

Sample Information

Sampling Device	Kick Net
Mesh Size	400
Sampling Time	3
Taxonomist	Gary Lester, Ecoanalysts Inc.
Date Taxonomy Completed	March 09, 2011

Sample Information

	Marchant Box
Sub-Sample Proportion	24/100

Community Structure

Phylum	Class	Order	Family	Raw Count	Total Count
Arthropoda	Arachnida	Trombidiformes	Lebertiidae	5	20.8
			Torrenticolidae	1	4.2
	Insecta	Coleoptera	Elmidae	1	4.2
		Diptera	Ceratopogonidae	1	4.2
			Chironomidae	35	145.8
			Psychodidae	3	12.5
			Tipulidae	4	16.7
		Ephemeroptera	Baetidae	149	620.8
			Ephemerellidae	12	50.0
			Heptageniidae	68	283.3
		Plecoptera	Chloroperlidae	17	70.8
			Nemouridae	5	20.8
			Perlidae	1	4.2
			Perlodidae	7	29.2
			Taeniopterygidae	20	83.3
		Trichoptera	Rhyacophilidae	12	50.0
			Uenoidae	1	4.2
			Total	342	1,425.0

Metrics

Name	NESNO01	Predicted Group Reference Mean \pm SD
Bray-Curtis Distance	0.55	0.4 \pm 0.1
Biotic Indices		
Hilsenhoff Family index (North-West)	3.7	3.2 \pm 0.3
Intolerant taxa	--	
Long-lived taxa	2.0	2.1 \pm 1.0
Tolerant individuals (%)	--	0.8 \pm 0.3
Functional Measures		
% Filterers	--	2.2 \pm 1.8
% Gatherers	28.9	38.4 \pm 12.4
% Predatores	23.1	19.0 \pm 8.5
% Scrapers	75.1	63.2 \pm 19.7
% Shredder	8.8	27.6 \pm 15.2
No. Clinger Taxa	11.0	23.2 \pm 6.3
Number Of Individuals		
% Chironomidae	10.2	7.4 \pm 6.4
% Coleoptera	0.3	1.5 \pm 3.9
% Diptera + Non-insects	14.3	10.8 \pm 7.6
% Ephemeroptera	67.0	51.7 \pm 18.8
% Ephemeroptera that are Baetidae	65.1	40.6 \pm 30.0
% EPT Individuals	85.4	87.7 \pm 7.4
% Odonata	--	0.0 \pm 0.0
% of 2 dominant taxa	63.5	57.9 \pm 14.2
% of 5 dominant taxa	84.5	81.6 \pm 7.9
% of dominant taxa	43.6	39.8 \pm 14.9
% Plecoptera	14.6	31.4 \pm 15.4
% Tribe Tanyatarisini	--	
% Trichoptera that are Hydropsychida	0.0	27.0 \pm 26.2
% Tricoptera	3.8	4.5 \pm 2.8
No. EPT individuals/Chironomids+EPT Individuals	0.9	0.9 \pm 0.1
Total Abundance	1424.9	587.4 \pm 299.1
Richness		
Chironomidae taxa (genus level only)	1.0	1.0 \pm 0.0
Coleoptera taxa	1.0	0.4 \pm 0.5
Diptera taxa	4.0	3.3 \pm 1.0
Ephemeroptera taxa	3.0	3.8 \pm 0.8

Metrics

Name	NESNO01	Predicted Group Reference Mean \pm SD
EPT Individuals (Sum)	1216.6	526.0 \pm 285.8
EPT taxa (no)	10.0	13.3 \pm 2.7
Odonata taxa	--	0.0 \pm 0.0
Pielou's Evenness	0.7	0.7 \pm 0.1
Plecoptera taxa	5.0	6.3 \pm 1.1
Shannon-Wiener Diversity	1.8	1.9 \pm 0.4
Simpson's Diversity	0.8	0.8 \pm 0.1
Simpson's Evenness	0.2	0.3 \pm 0.1
Total No. of Taxa	17.0	19.3 \pm 3.7
Trichoptera taxa	2.0	3.2 \pm 1.4

Frequency and Probability of Taxa Occurrence

Reference Model Taxa	Frequency of Occurrence in Reference Sites					Probability Of Occurrence at NESNO01
	Group 1	Group 2	Group 3	Group 4	Group 5	
Baetidae	100%	100%	100%	100%	97%	0.99
Capniidae	78%	55%	50%	92%	68%	0.84
Chironomidae	100%	100%	100%	100%	95%	0.99
Chloroperlidae	78%	88%	94%	100%	100%	0.99
Ephemereididae	78%	100%	100%	100%	100%	1.00
Heptageniidae	100%	100%	100%	100%	100%	1.00
Hydropsychidae	11%	92%	78%	92%	86%	0.90
Nemouridae	100%	100%	100%	100%	100%	1.00
Perlidae	11%	84%	33%	100%	3%	0.77
Perlodidae	78%	78%	89%	92%	81%	0.89
Rhyacophilidae	100%	92%	100%	100%	95%	0.99
Taeniopterygidae	89%	49%	100%	92%	97%	0.91

RIVPACS Ratios

RIVPACS : Expected taxa P>0.50	13.66
RIVPACS : Observed taxa P>0.50	11.00
RIVPACS : O:E (p > 0.5)	0.81
RIVPACS : Expected taxa P>0.70	11.28
RIVPACS : Observed taxa P>0.70	10.00
RIVPACS : O:E (p > 0.7)	0.89

Habitat Description

Variable	NESNO01	Predicted Group Reference Mean \pm SD
Bedrock Geology		
Channel		
XSEC-VelMethod (Category (1-3))	1	1 \pm 0
Climate		
Hydrology		
Landcover		
Substrate Data		
Topography		
Water Chemistry		