

Annual Report for Plankton Sampling Under a Scientific Collectors Permit

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1 Permit Number	11-2014		
2 Permit Year	2014		
3 Water Name	Lake Kootenai		
4 Location	(See Attachments)		
5 Date	" "	Latitude, Longitude	MM/DD/YYYY
6 Observers	" "	Name of crew, first & last names	
7 Gear	30 cm / 64 micron	Mesh size, diameter of mouth, length of net, etc.	
8 Number of samples collected	40		
9 Method of collection	Plankton tow net		
10 Horizontal or Vertical tow?	Vertical		
11 Composite samples?	Y		Y/N
12 Target species?	Dreissena spp		
13 Method of sample analysis	Microscopy		microscopy, SEM, PCR, gene sequencing, visual, etc
14 Responsible party for analysis	Portland State University		
15 Date of results	2014		If analysis if not yet complete, anticipated date for results
16 Species found	None		
17 AIS found	NA		including but not limited to Dreissena and Corbicula
18 FWP notified of AIS?	N		Y/N; name of person contacted
19 Water quality data collected?			Y/N

2014 Dreissenid Sampling Inventory

Agency: U.S. Army Corps of Engineers
Staff Contact: Greg Hoffman
Sample Gear: Simple plankton net, 30 cm diameter, 64 micron

Address: 17877 Hwy 37, Libby, MT 59923
Email: gregory.c.hoffman@usace.army.mil
Phone: 406.293.7751.255

Collecting Agency	Site Selection	Water Name	Water Body (lake, reach, reservoir)	Sampling Location Description	County	State, Province	Date Sampled	Datum lat/long	Lat (Decimal degrees)	Long (decimal degrees)	Target	Method of Veliger/Adult Monitoring Collection	Type of tow
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Tobacco Plains	Lincoln	MT	6/21/2014		48.965496	-115.142142	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Rexford Bench	Lincoln	MT	6/21/2014		48.903196	-115.162511	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Mariner's Haven	Lincoln	MT	6/21/2014		48.878205	-115.204363	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Peck Gulch	Lincoln	MT	6/21/2014		48.727141	-115.305209	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Rocky Gorge	Lincoln	MT	6/21/2014		48.58809	-115.659653	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Koocanusa Marina	Lincoln	MT	6/21/2014		48.493048	-115.263019	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	McGillvray Campground	Lincoln	MT	6/21/2014		48.466259	-115.315941	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Souse Gulch	Lincoln	MT	6/21/2014		48.410813	-115.321748	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Tobacco Plains	Lincoln	MT	7/22/2014		48.965496	-115.142142	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Rexford Bench	Lincoln	MT	7/22/2014		48.903196	-115.162511	Adult	Plankton Tow	Vertical
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U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	McGillvray Campground	Lincoln	MT	7/22/2014		48.466259	-115.315941	Adult	Plankton Tow	Vertical
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U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Tobacco Plains	Lincoln	MT	8/16/2014		48.965496	-115.142142	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Rexford Bench	Lincoln	MT	8/16/2014		48.903196	-115.162511	Adult	Plankton Tow	Vertical
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U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	McGillvray Campground	Lincoln	MT	8/16/2014		48.466259	-115.315941	Adult	Plankton Tow	Vertical
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U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Tobacco Plains	Lincoln	MT	9/5/2014		48.965496	-115.142142	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Rexford Bench	Lincoln	MT	9/5/2014		48.903196	-115.162511	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Mariner's Haven	Lincoln	MT	9/5/2014		48.878205	-115.204363	Adult	Plankton Tow	Vertical
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U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Tobacco Plains	Lincoln	MT	10/2/2014		48.965496	-115.142142	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Rexford Bench	Lincoln	MT	10/2/2014		48.903196	-115.162511	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Mariner's Haven	Lincoln	MT	10/2/2014		48.878205	-115.204363	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Peck Gulch	Lincoln	MT	10/2/2014		48.727141	-115.305209	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Rocky Gorge	Lincoln	MT	10/2/2014		48.58809	-115.659653	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Koocanusa Marina	Lincoln	MT	10/2/2014		48.493048	-115.263019	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	McGillvray Campground	Lincoln	MT	10/2/2014		48.466259	-115.315941	Adult	Plankton Tow	Vertical
U.S. Army Corps of Engineers	Legacy	Lake Koocanusa/Koocanusa R	Lake Koocanusa/Koocanusa Reservoir	Souse Gulch	Lincoln	MT	10/2/2014		48.410813	-115.321748	Adult	Plankton Tow	Vertical

Water Quality Data												
Radius of sample net (m)	Length of tow (m)	Volume of tow (calculated)	Method of Veliger Sample Analysis	Name/location of analytical lab	Calcium Collected (Y/N)	Calcium	pH	Temperature_C	Conductivity _us/cm	DO_ %	DO_mg/L	Comments
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			15				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			22				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			19				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
0.15	15	47.12385	FlowCAM	Portland State University, Portland	N			16				
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Add any data columns you have collected and feel would be pertinent to regional