

Appendix B. Particle-Size Analysis of Streambed Samples in the Dudley Reach, Coeur d'Alene River, Idaho

SIEVE ANALYSIS

Sample ID: D1 (Cross Section 157.067)
 Location: Coeur d'Alene River near Dudley
 Date/Time: 5/4/05 @ 1354

Analyzed by: Andy Tranmer
 Date/Time: June 14, 2005

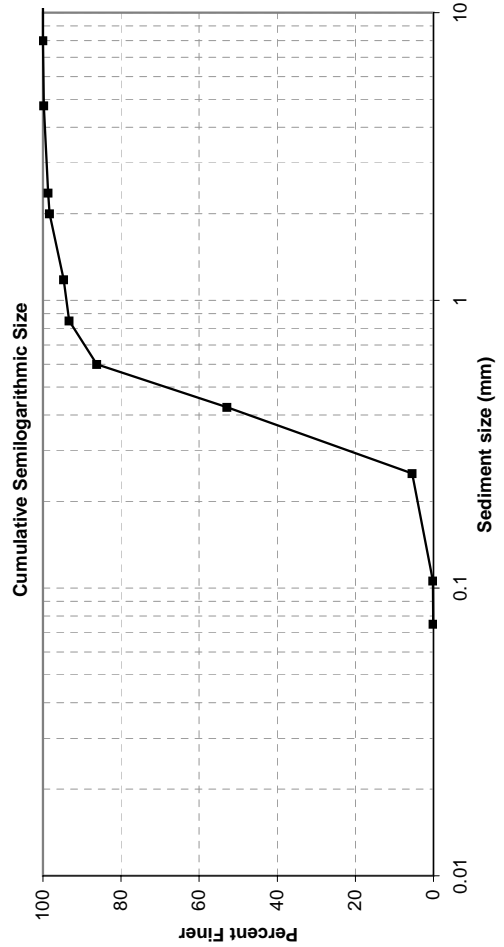
Gross weight: 2319.8 g
 Tare weight: 829.4 g
 Net weight: 1490.4 g

Gravel weight: 79.1 g
 Sand weight: 1410.0 g

Portion analyzed: 14690.4 g

Remarks: Ponar dredge sample collected by Russ Christensen and John Gralow.
 Some larger particles with woody debris

Sieve Size (mm)	Weight (g)	Percent Finer	Cumulative Percent Finer	Size Class	Remarks
		0.00	100.00		
		0.00	100.00		
		0.00	100.00		
512		0.00	100.00	Boulders	
256		0.00	100.00	Cobble	
128		0.00	100.00		
64		0.00	100.00		
32		0.00	100.00		
16		0.00	100.00	gravel	
8		0.00	100.00		
4.75	3.7	0.25	99.75		
2.36	16.1	1.08	98.67		
2	5.6	0.38	98.29		
1.18	53.7	3.60	94.69		
0.85	20.8	1.40	93.29		
0.6	105.8	7.10	86.20		
0.425	496.8	33.33	52.87	Coarse sand	
0.25	707.3	47.44	5.43	Medium sand	
0.106	78.4	5.26	0.16	Fine sand	
0.075	0.9	0.06	0.10	Very fine sand	
<0.075	1.5	0.10	0.00	Silt & clays	
TOTAL	1490.7				



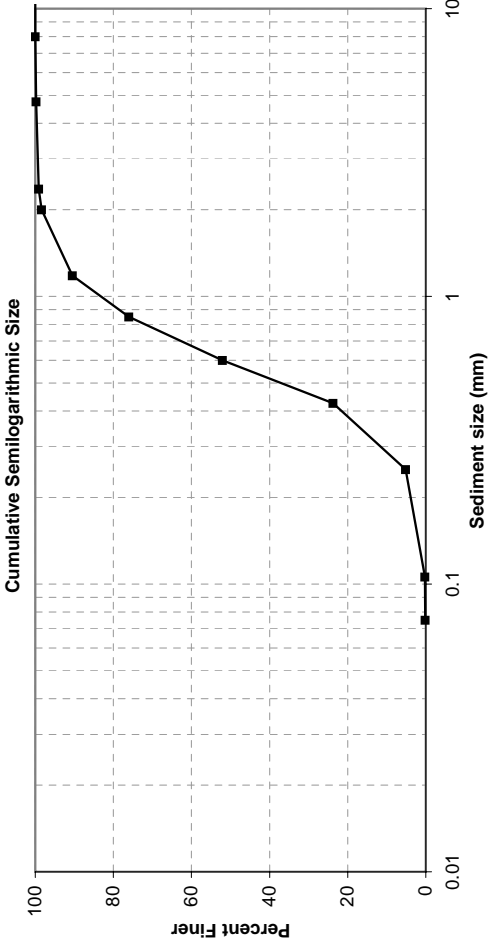


Sample D1

SIEVE ANALYSIS

Sample ID: D2 (Cross Section 156.686)
Location: Coeur d'Alene River near Dudley
Date/Time: 5/4/05 @ 1412
Analyzed by: Andy Tranmer
Date/Time: June 14, 2005
Gross weight: 1987.9 g
Tare weight: 327.9 g
Net weight: 1660.1 g
Gravel weight: 158.5 g
Sand weight: 1500.0 g
Portion analyzed: 1660.1 g
Remarks: Ponar dredge sample collected by Russ Christensen and John Gralow. Some larger particles with woody debris Insect larval casing

Sieve Size (mm)	Weight (g)	Percent Finer	Cumulative Percent Finer	Size Class	Remarks
		0.00	100.00		
		0.00	100.00		
		0.00	100.00		
512		0.00	100.00	Boulders	
256		0.00	100.00	Cobble	
128		0.00	100.00		
64		0.00	100.00		
32		0.00	100.00		
16		0.00	100.00	gravel	
8		0.00	100.00		
4.75	3.8	0.23	99.77		
2.36	11.5	0.69	99.08		
2	11.4	0.69	98.39	Very coarse sand	
1.18	131.8	7.93	90.46	Granule	
0.85	239.1	14.39	76.06		
0.6	398.6	24.00	52.06	Coarse sand	
0.425	470.2	28.31	23.75	Medium sand	
0.25	308.8	18.60	5.15	Fine sand	
0.106	81.4	4.90	0.25	Very fine sand	
0.075	1.9	0.11	0.13		
<0.075	2.2	0.13	0.00	Silt & clays	
TOTAL	1660.7				



Particle Characteristics	
d ₉₀ =	1.17 mm
d _{84.1} =	1.02 mm
d ₆₅ =	0.72 mm
d ₅₀ =	0.59 mm
d ₃₅ =	0.49 mm
d _{15.9} =	0.34 mm
d _g =	0.59 mm
σ _g =	1.73 mm
G =	0.93



Sample D2

SIEVE ANALYSIS

Sample ID: D3 (Cross Section 156.213)
 Location: Coeur d'Alene River near Dudley
 Date/Time: 5/4/05 @ 1328

Analyzed by: Andy Tranmer
 Date/Time: June 15, 2005

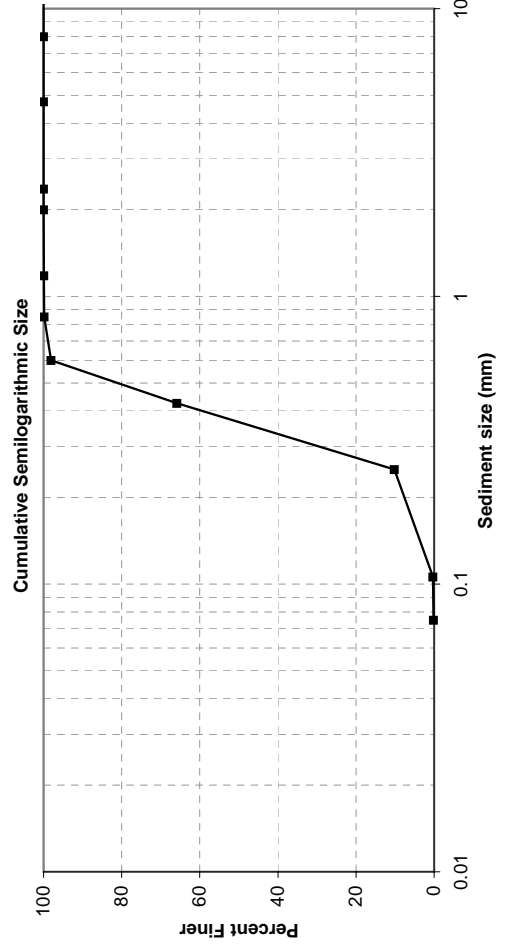
Gross weight: 1700.7 g
 Tare weight: 378.9 g
 Net weight: 1321.8 g

Gravel weight: 0.6 g
 Sand weight: 1319.3 g

Portion analyzed: 1321.8 g

Remarks: Ponar dredge sample collected by Russ Christensen and John Gralow. Fairly uniform sand particles

Sieve Size (mm)	Weight (g)	Percent Finer	Cumulative Percent Finer	Size Class	Remarks
		0.00	100.00		
		0.00	100.00		
		0.00	100.00		
512		0.00	100.00	Boulders	
256		0.00	100.00	Cobble	
128		0.00	100.00		
64		0.00	100.00		
32		0.00	100.00		
16		0.00	100.00	gravel	
8		0.00	100.00		
4.75	0.0	0.00	100.00		
2.36	0.1	0.01	99.99		
2	0.1	0.01	99.99		
1.18	0.4	0.03	99.96	Very coarse sand	
0.85	1.3	0.09	99.86	Granule	
0.6	23.2	1.76	98.10	Coarse sand	
0.425	426.7	32.28	65.82	Medium sand	
0.25	735.4	55.63	10.19	Fine sand	
0.106	130.5	9.87	0.32	Very fine sand	
0.075	2.3	0.17	0.15		
<0.075	1.9	0.15	0.00	Silt & clays	
TOTAL	1321.8				



Particle Characteristics

d ₉₀	=	0.55	mm
d _{84.1}	=	0.52	mm
d ₆₅	=	0.42	mm
d ₅₀	=	0.37	mm
d ₃₅	=	0.32	mm
d _{15.9}	=	0.26	mm
d _g	=	0.37	mm
σ _g	=	1.41	mm
G	=	0.84	



Sample D3

SIEVE ANALYSIS

Sample ID: D4 (Cross Section 155.739)
 Location: Coeur d'Alene River near Dudley
 Date/Time: 5/4/05 @ 1216

Analyzed by: Andy Tranmer
 Date/Time: June 15, 2005

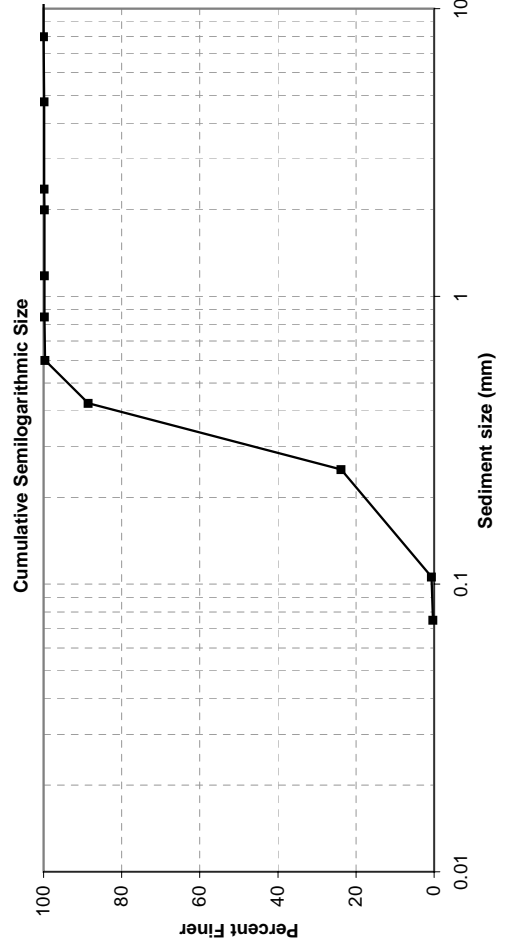
Gross weight: 1095.3 g
 Tare weight: 376.4 g
 Net weight: 719.0 g

Gravel weight: 1.5 g
 Sand weight: 715.4 g

Portion analyzed: 1465.4 g

Remarks: Ponar dredge sample collected by Russ Christensen and John Gralow.
 Some larger particles with woody debris

Sieve Size (mm)	Weight (g)	Percent Finer	Cumulative Percent Finer	Size Class	Remarks
		0.00	100.00		
		0.00	100.00		
		0.00	100.00		
512		0.00	100.00	Boulders	
256		0.00	100.00	Cobble	
128		0.00	100.00		
64		0.00	100.00		
32		0.00	100.00		
16		0.00	100.00	gravel	
8		0.00	100.00		
4.75	0.9	0.13	99.87		
2.36	0.3	0.04	99.83		
2	0.1	0.02	99.81	Very coarse sand	
1.18	0.1	0.02	99.80	Granule	
0.85	0.1	0.01	99.78		
0.6	0.9	0.12	99.66	Coarse sand	
0.425	79.6	11.08	88.59	Medium sand	
0.25	465.6	64.77	23.82	Fine sand	
0.106	166.2	23.13	0.69	Very fine sand	
0.075	2.9	0.41	0.28		
<0.075	2.0	0.28	0.00	Silt & clays	
TOTAL	718.9				





Sample D4

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