

Appendix 3C. Transect-scale stream-habitat data for Hogan Creek at SR 2038 near Siloam, North Carolina, 2004-2006. [SR; secondary road; %, percent; m³/s, cubic meter per second; <, less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in Appendix 3A]

August 26, 2004								
Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left edge of water	False	--	--	--	--	No Obs.
1	2	In stream	True	0.15	0.188	Sand (>0.063-2 mm)	--	True
1	3	In stream	False	0.12	0.308	Very coarse gravel (>32-64 mm)	10	True
1	4	In stream	False	0.09	0.866	Sand (>0.063-2 mm)	--	True
1	5	Right edge of water	False	--	--	--	--	No obs.
2	1	Left edge of water	False	--	--	--	--	No obs.
2	2	In stream	False	0.06	0.260	Small cobble (>64-128 mm)	30	True
2	3	In stream	False	0.12	1.03	Very coarse gravel (>32-64 mm)	30	True
2	4	In stream	True	0.24	0.366	Sand (>0.063-2 mm)	--	True
2	5	Right edge of water	False	--	--	--	--	No obs.
3	1	Left edge of water	False	--	--	--	--	No obs.
3	2	In stream	False	0.27	0.366	Small cobble (>64-128 mm)	40	True
3	3	In stream	True	0.34	0.288	Small cobble (>64-128 mm)	30	True
3	4	In stream	False	0.27	0.138	Sand (>0.063-2 mm)	--	--
3	5	Right edge of water	False	--	--	--	--	No obs.
4	1	Left edge of water	False	--	--	--	--	No obs.
4	2	In stream	False	0.18	0.511	Small cobble (>64-128 mm)	40	True
4	3	In stream	True	0.21	0.449	Sand (>0.063-2 mm)	--	True
4	4	In stream	False	0.12	0.216	Sand (>0.063-2 mm)	--	True
4	5	Right edge of water	False	--	--	--	--	No obs.
5	1	Left edge of water	False	--	--	--	--	No obs.
5	2	In stream	False	0.12	0.325	Sand (>0.063-2 mm)	--	True
5	3	In stream	False	0.21	0.383	Very coarse gravel (>32-64 mm)	--	True
5	4	In stream	True	0.27	0.493	Very coarse gravel (>32-64 mm)	--	True
5	5	Right edge of water	False	--	--	--	--	No obs.
6	1	Left edge of water	False	--	--	--	--	No obs.
6	2	In stream	False	0.12	0.131	Sand (>0.063-2 mm)	--	True
6	3	In stream	False	0.24	0.314	Sand (>0.063-2 mm)	--	True
6	4	In stream	True	0.34	0.146	Small boulder (>256-512 mm)	10	True
6	5	Right edge of water	False	--	--	--	--	No obs.
7	1	Left edge of water	False	--	--	--	--	No obs.
7	2	In stream	False	0.12	0.823	Small cobble (>64-128 mm)	40	True
7	3	In stream	True	0.20	0.500	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
7	4	In stream	False	0.15	0.095	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
7	5	Right edge of water	False	--	--	--	--	No obs.
8	1	Left edge of water	False	--	--	--	--	No obs.
8	2	In stream	True	0.12	2.59	Coarse gravel (>16-32 mm)	--	True
8	3	In stream	False	0.05	0.590	Coarse gravel (>16-32 mm)	--	True
8	4	In stream	False	0.06	0.511	Coarse gravel (>16-32 mm)	--	True
8	5	Right edge of water	False	--	--	--	--	No obs.
9	1	Left edge of water	False	--	--	--	--	No obs.
9	2	In stream	False	0.05	1.17	Coarse gravel (>16-32 mm)	--	True
9	3	In stream	True	0.06	1.86	Coarse gravel (>16-32 mm)	--	True
9	4	In stream	False	0.06	0.946	Small cobble (>64-128 mm)	50	True
9	5	Right edge of water	False	--	--	--	--	No obs.
10	1	Left edge of water	False	--	--	--	--	No obs.
10	2	In stream	True	0.17	0.271	Sand (>0.063-2 mm)	--	True
10	3	In stream	False	0.15	0.245	Sand (>0.063-2 mm)	--	True
10	4	In stream	False	0.09	0.245	Sand (>0.063-2 mm)	--	True
10	5	Right edge of water	False	--	--	--	--	No obs.
11	1	Left edge of water	False	--	--	--	--	No obs.
11	2	In stream	True	0.43	0.151	Sand (>0.063-2 mm)	--	True
11	3	In stream	False	0.18	0.094	Sand (>0.063-2 mm)	--	True
11	4	In stream	False	0.18	0	Sand (>0.063-2 mm)	--	True

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August 18, 2005								
Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
1	2	In stream	False	0.15	0.31	Sand (>0.063-2 mm)	--	True
1	3	In stream	True	0.23	0.353	Fine/medium gravel (>2-16 mm)	--	True
1	4	In stream	False	0.17	0.285	Fine/medium gravel (>2-16 mm)	--	True
1	5	Right edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
2	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
2	2	In stream	True	0.29	0.293	Sand (>0.063-2 mm)	--	True
2	3	In stream	False	0.24	0.752	Sand (>0.063-2 mm)	--	True
2	4	In stream	False	0.15	0.565	Fine/medium gravel (>2-16 mm)	--	True
2	5	Right edge of water	False	--	--	Fine/medium gravel (>2-16 mm)	--	True
3	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
3	2	In stream	True	0.33	0.516	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	30	True
3	3	In stream	False	0.27	1.09	Very coarse gravel (>32-64 mm)	40	True
3	4	In stream	False	0.22	.126	Very coarse gravel (>32-64 mm)	40	True
3	5	Right edge of water	False	--	--	Coarse gravel (>16-32 mm)	40	True
4	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
4	2	In stream	True	0.21	.272	Fine/medium gravel (>2-16 mm)	40	True
4	3	In stream	False	0.21	.571	Fine/medium gravel (>2-16 mm)	40	True
4	4	In stream	False	0.11	.472	Fine/medium gravel (>2-16 mm)	40	True
4	5	Right edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
5	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
5	2	In stream	True	0.35	0	Sand (>0.063-2 mm)	--	True
5	3	In stream	False	0.34	.117	Sand (>0.063-2 mm)	--	True
5	4	In stream	False	0.27	0.453	Sand (>0.063-2 mm)	--	True
5	5	Right edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
6	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
6	2	In stream	True	0.53	.223	Very coarse gravel (>32-64 mm)	20	True
6	3	In stream	False	0.36	.362	Sand (>0.063-2 mm)	--	True
6	4	In stream	False	0.18	.231	Sand (>0.063-2 mm)	--	True
6	5	Right edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
7	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
7	2	In stream	False	0.32	0.22	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
7	3	In stream	True	0.62	.305	Sand (>0.063-2 mm)	--	True
7	4	In stream	False	0.33	.144	Sand (>0.063-2 mm)	--	True
7	5	Right edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
8	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
8	2	In stream	True	0.10	1.59	Fine/medium gravel (>2-16 mm)	--	True
8	3	In stream	False	0.05	1.30	Coarse gravel (>16-32 mm)	40	True
8	4	In stream	False	0.03	.505	Coarse gravel (>16-32 mm)	40	True
8	5	Right edge of water	False	--	--	Fine/medium gravel (>2-16 mm)	--	True
9	1	Left edge of water	False	--	--	Fine/medium gravel (>2-16 mm)	--	True
9	2	In stream	False	0.03	1.46	Fine/medium gravel (>2-16 mm)	60	True
9	3	In stream	False	0.04	0.12	Coarse gravel (>16-32 mm)	60	True
9	4	In stream	True	0.05	2.59	Coarse gravel (>16-32 mm)	60	True
9	5	Right edge of water	False	--	--	Coarse gravel (>16-32 mm)	--	True
10	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
10	2	In stream	False	0.16	.427	Fine/medium gravel (>2-16 mm)	--	True
10	3	In stream	True	0.17	.462	Fine/medium gravel (>2-16 mm)	--	True
10	4	In stream	False	0.13	0.354	Fine/medium gravel (>2-16 mm)	--	True
10	5	Right edge of water	False	--	--	Fine/medium gravel (>2-16 mm)	--	True
11	1	Left edge of water	False	--	--	Sand (>0.063-2 mm)	--	True
11	2	In stream	True	0.50	.075	Sand (>0.063-2 mm)	--	True
11	3	In stream	False	0.24	0.232	Sand (>0.063-2 mm)	--	True
11	4	In stream	False	0.17	0.250	Sand (>0.063-2 mm)	--	True
11	5	Right edge of water	False	--	--	Small cobble (>64-128 mm)	--	True

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continued

August 18, 2005									
Transect number	Point on transect	Presence of habitat cover							
		Natural woody debris	Overhanging vegetation (terrestrial)	Undercut banks	Boulders	Aquatic macrophytes (emergent, submergent,	Manmade structure	Too turbid to determine	None
1	1	False	False	False	False	False	False	False	True
1	2	False	False	False	False	False	False	False	True
1	3	False	False	False	False	False	False	False	True
1	4	True	False	False	False	False	False	False	False
1	5	True	False	False	False	False	False	False	False
2	1	True	False	False	False	False	False	False	False
2	2	True	False	False	False	False	False	False	False
2	3	True	False	False	False	False	False	False	False
2	4	False	False	False	False	False	False	False	True
2	5	False	False	False	False	False	False	False	True
3	1	False	True	True	True	False	False	False	False
3	2	False	True	False	True	False	False	False	False
3	3	False	False	False	False	False	False	False	True
3	4	False	False	False	False	False	False	False	True
3	5	False	False	False	False	False	False	False	True
4	1	False	True	True	False	False	False	False	False
4	2	False	False	False	False	False	False	False	True
4	3	False	False	False	False	False	False	False	True
4	4	False	False	False	False	False	False	False	True
4	5	False	False	False	False	False	False	False	True
5	1	True	True	False	False	False	False	False	False
5	2	True	True	False	False	False	False	False	False
5	3	True	True	False	False	False	False	False	False
5	4	True	True	False	False	False	False	False	False
5	5	True	True	False	False	False	False	False	False
6	1	False	False	False	False	False	False	False	True
6	2	False	False	False	False	False	False	False	True
6	3	False	False	False	False	False	False	False	True
6	4	False	False	False	False	False	False	False	True
6	5	False	True	True	False	False	False	False	False
7	1	False	False	False	False	False	False	False	True
7	2	False	False	False	False	False	False	False	True
7	3	False	False	False	False	False	False	False	True
7	4	False	False	False	False	False	False	False	True
7	5	True	False	False	False	False	False	False	False
8	1	True	False	False	False	False	False	False	False
8	2	True	False	False	False	False	False	False	False
8	3	False	False	False	False	False	False	False	True
8	4	False	False	False	False	False	False	False	True
8	5	False	False	False	False	False	False	False	True
9	1	False	False	False	False	False	False	False	True
9	2	False	False	False	True	False	False	False	False
9	3	False	False	False	True	False	False	False	False
9	4	False	False	False	False	False	False	False	True
9	5	False	False	False	False	False	False	False	True
10	1	False	False	False	False	False	False	False	True
10	2	False	False	False	False	False	False	False	True
10	3	False	False	False	False	False	False	False	True
10	4	False	False	False	False	False	False	False	True
10	5	False	False	False	False	False	False	False	True
11	1	False	True	False	False	False	False	False	False
11	2	False	False	False	False	False	False	False	True
11	3	False	False	False	False	False	False	False	True
11	4	False	False	False	False	False	False	False	True
11	5	False	True	False	False	False	False	False	False

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August 21, 2006

Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left edge of water	False	--	--	--	--	No obs.
1	2	In stream	True	0.38	0.369	Sand (>0.063-2 mm)	--	True
1	3	In stream	False	0.30	0.093	Fine/medium gravel (>2-16 mm)	--	True
1	4	In stream	False	0.14	1.42	Very coarse gravel (>32-64 mm)	--	True
1	5	Right edge of water	False	--	--	--	--	No obs.
2	1	Left edge of water	False	--	--	--	--	No obs.
2	2	In stream	True	0.59	0.08	Sand (>0.063-2 mm)	--	True
2	3	In stream	False	0.46	.020	Sand (>0.063-2 mm)	--	True
2	4	In stream	False	0.37	.040	Sand (>0.063-2 mm)	--	True
2	5	Right edge of water	False	--	--	--	--	No obs.
3	1	Left edge of water	False	--	--	--	--	No obs.
3	2	In stream	True	0.24	.204	Sand (>0.063-2 mm)	--	True
3	3	In stream	False	0.08	.122	Sand (>0.063-2 mm)	--	True
3	4	In stream	False	0.16	.232	Small cobble (>64-128 mm)	50	True
3	5	Right edge of water	False	--	--	--	--	No obs.
4	1	Left edge of water	False	--	--	--	--	No obs.
4	2	In stream	True	0.22	.761	Sand (>0.063-2 mm)	--	True
4	3	In stream	False	0.21	.624	Sand (>0.063-2 mm)	--	True
4	4	In stream	False	0.16	.321	Sand (>0.063-2 mm)	--	True
4	5	Right edge of water	False	--	--	--	--	No obs.
5	1	Left edge of water	False	--	--	--	--	No obs.
5	2	In stream	True	0.24	0.272	Sand (>0.063-2 mm)	--	True
5	3	In stream	False	0.15	.327	Sand (>0.063-2 mm)	--	True
5	4	In stream	False	0.19	0	Sand (>0.063-2 mm)	--	True
5	5	Right edge of water	False	--	--	--	--	No obs.
6	1	Left edge of water	False	--	--	--	--	No obs.
6	2	In stream	True	0.13	0.71	Sand (>0.063-2 mm)	--	True
6	3	In stream	False	0.08	0.493	Very coarse Large cobble (>128-256 mm)	70	True
6	4	In stream	False	0.12	0	Small cobble (>64-128 mm)	30	True
6	5	Right edge of water	False	--	--	--	--	No obs.
7	1	Left edge of water	False	--	--	--	--	No obs.
7	2	In stream	False	0.15	0.31	Fine/medium gravel (>2-16 mm)	--	True
7	3	In stream	True	0.24	0.272	Sand (>0.063-2 mm)	--	True
7	4	In stream	False	0.18	0.126	Fine/medium gravel (>2-16 mm)	--	True
7	5	Right edge of water	False	--	--	--	--	No obs.
8	1	Left edge of water	False	--	--	--	--	No obs.
8	2	In stream	False	0.06	1.85	Very coarse gravel (>32-64 mm)	--	True
8	3	In stream	False	0.16	0.761	Very coarse gravel (>32-64 mm)	--	True
8	4	In stream	False	0.06	0.128	Sand (>0.063-2 mm)	--	True
8	5	Right edge of water	False	--	--	--	--	No obs.
9	1	Left edge of water	False	--	--	--	--	No obs.
9	2	In stream	False	0.05	1.93	Small cobble (>64-128 mm)	50	True
9	3	In stream	True	0.08	2.74	Small cobble (>64-128 mm)	40	True
9	4	In stream	False	0.03	1.25	Small cobble (>64-128 mm)	40	True
9	5	Right edge of water	False	--	--	--	--	No obs.
10	1	Left edge of water	False	--	--	--	--	No obs.
10	2	In stream	False	0.12	0.321	Very coarse gravel (>32-64 mm)	--	True
10	3	In stream	True	0.14	0.285	Very coarse gravel (>32-64 mm)	--	True
10	4	In stream	False	0.09	0.195	Very coarse gravel (>32-64 mm)	--	True
10	5	Right edge of water	False	--	--	--	--	No obs.
11	1	Left edge of water	False	--	--	--	--	No obs.
11	2	In stream	True	0.43	.033	Very coarse gravel (>32-64 mm)	40	True
11	3	In stream	False	0.22	0.089	Fine/medium gravel (>2-16 mm)	--	True
11	4	In stream	False	0.13	.142	Fine/medium gravel (>2-16 mm)	--	True
11	5	Right edge of water	False	--	--	--	--	No obs.

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continued

August 21, 2006									
Presence of habitat cover									
Transect number	Point on transect	Natural woody debris	Overhanging vegetation (terrestrial)	Undercut banks	Aquatic macrophytes		Manmade structure	Too turbid to determine	None
					Boulders	(emergent, submergent, and floating)			
1	1	False	False	False	False	False	False	False	True
1	2	False	False	False	False	False	False	False	True
1	3	False	False	False	False	False	False	False	True
1	4	True	False	False	False	False	False	False	False
1	5	True	False	True	False	False	False	False	False
2	1	True	False	False	False	False	False	False	False
2	2	True	False	False	False	False	False	False	False
2	3	False	False	False	False	False	False	False	True
2	4	True	False	False	False	False	False	False	False
2	5	False	False	False	False	False	False	False	True
3	1	True	True	True	False	False	False	False	False
3	2	False	False	False	False	False	False	False	True
3	3	False	False	False	False	False	False	False	True
3	4	False	False	False	False	False	False	False	True
3	5	False	False	False	False	False	False	False	True
4	1	True	True	True	False	False	False	False	False
4	2	False	False	False	False	False	False	False	True
4	3	False	False	False	False	False	False	False	True
4	4	False	False	False	False	False	False	False	True
4	5	False	False	False	False	False	False	False	True
5	1	True	True	False	False	False	False	False	False
5	2	False	False	False	False	False	False	False	True
5	3	False	False	False	False	False	False	False	True
5	4	False	False	False	False	False	False	False	True
5	5	False	False	False	False	False	False	False	True
6	1	True	True	False	False	False	False	False	False
6	2	False	False	False	False	False	False	False	True
6	3	False	False	False	False	False	False	False	True
6	4	False	False	False	False	False	False	False	True
6	5	False	False	True	False	False	False	False	False
7	1	False	False	False	False	False	False	False	True
7	2	False	False	False	False	False	False	False	True
7	3	False	False	False	False	False	False	False	True
7	4	False	False	False	False	False	False	False	True
7	5	True	True	False	False	False	False	False	False
8	1	False	False	False	False	False	False	False	True
8	2	False	False	False	False	False	False	False	True
8	3	False	False	False	False	False	False	False	True
8	4	False	False	False	False	False	False	False	True
8	5	False	False	False	False	False	False	False	True
9	1	True	False	False	False	False	False	False	False
9	2	False	False	False	True	False	False	False	False
9	3	False	False	False	True	False	False	False	False
9	4	False	False	False	False	False	False	False	True
9	5	False	False	False	False	False	False	False	True
10	1	False	False	False	False	False	False	False	True
10	2	False	False	False	False	False	False	False	True
10	3	False	False	False	False	False	False	False	True
10	4	False	False	False	False	False	False	False	True
10	5	False	False	False	False	False	False	False	True
11	1	False	True	False	False	False	False	False	False
11	2	False	False	False	False	False	False	False	True
11	3	False	False	False	False	False	False	False	True
11	4	False	False	False	False	False	False	False	True
11	5	False	True	False	False	False	False	False	False