

W09 - Mudge (New Hampshire)

Sample characteristics									
Sample elevation (NAVD88 ft)	382.6 (minimum)			382.8 (medium)			384.6 (maximum)		
Sample ID	W09-1			W09-1			W09-2		
Morphological feature	Beach			Beach			Bank		
D15 grain size (mm)	Unlisted*	Silt		Unlisted*	Silt		0.0386	Silt	
D50 grain size (mm)	0.1113	Fine sand		0.1113	Fine sand		0.0804	Fine sand	
D85 grain size (mm)	0.2038	Fine sand		0.2038	Fine sand		0.1412	Fine sand	
Stratigraphy	Not applicable - below bank			Not applicable - below bank			Colluvium		
Erosion features	None			None			Notching		
Presence/character vegetation	None			None			Moderate herbaceous cover		
Presence of seeps	None			None			None		
Other characteristics	Wood along bank			Wood along bank			Wood along bank		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	382.6			382.6			384.6		
Model flow (cfs)	700	5000	12000	700	5000	12000	700	5000	12000
Sample station (ft)	165	165	165	163	163	163	159	159	159
Near bank station (ft)	185	185	185	184	184	184	179	179	179
Velocity (ft/sec)	0.056	0.402	0.960	Dry	0.385	0.923	0.046	0.329	0.794
Shear stress (lb/ft ²)	0.000	0.003	0.014	Dry	0.002	0.013	0.000	0.002	0.010
Threshold analysis									
D15 Threshold velocity (ft/sec)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
D15 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
D50 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.028	0.028	0.028	0.028	0.028	0.028	0.021	0.021	0.021
D50 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	2.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9
D85 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.052	0.052	0.052	0.052	0.052	0.052	0.036	0.036	0.036
D85 Shear stress threshold passed	No	No	No	No	No	No	No	No	No

Notes:

* D15 grain size listed as "silt" in laboratory results; specific grain size for threshold analysis inferred from nearby samples.

W10 - Vaughn (Vermont)

Sample characteristics									
Sample elevation (NAVD88 ft)	382.6 (minimum)			382.8 (medium)			383.4 (maximum)		
Sample ID	W10-1			W10-1			W10-2		
Morphological feature	Beach			Beach			Bank		
D15 grain size (mm)	0.1033	Fine sand		0.1033	Fine sand		0.0001	Clay	
D50 grain size (mm)	0.2459	Fine sand		0.2459	Fine sand		0.0029	Clay	
D85 grain size (mm)	0.6058	Medium sand		0.6058	Medium sand		0.0073	Silt	
Stratigraphy	Not applicable - below bank			Not applicable - below bank			Glaciolacustrine varves*		
Erosion features	None			None			Notching		
Presence/character vegetation	Moderate aquatic vegetation			Moderate aquatic vegetation			None		
Presence of seeps	None			None			None		
Other characteristics	Shrubs along base of bank			Shrubs along base of bank			Shrubs along base of bank		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	382.6			382.6			382.6		
Model flow (cfs)	700	5000	12000	700	5000	12000	700	5000	12000
Sample station (ft)	569	569	569	569	569	569	571	571	571
Near bank station (ft)	548	548	548	548	548	548	550	550	550
Velocity (ft/sec)	0.039	0.280	0.670	0.039	0.280	0.670	Dry	Dry	0.638
Shear stress (lb/ft ²)	0.000	0.001	0.007	0.000	0.001	0.007	Dry	Dry	0.006
Threshold analysis									
D15 Threshold velocity (ft/sec)	1.8	1.8	1.8	1.8	1.8	1.8	3.75	3.75	3.75
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.026	0.026	0.026	0.026	0.026	0.026	0.3	0.3	0.3
D15 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	2.0	2.0	2.0	2.0	2.0	2.0	3.75	3.75	3.75
D50 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.063	0.063	0.063	0.063	0.063	0.063	0.3	0.3	0.3
D50 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	2.2	2.2	2.2	2.2	2.2	2.2	3.5	3.5	3.5
D85 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.062	0.062	0.062	0.062	0.062	0.062	0.04	0.04	0.04
D85 Shear stress threshold passed	No	No	No	No	No	No	No	No	No

Notes:

*Sample taken 1 foot below contact with coarse and medium sand unit above.

W12 - Pine Park (New Hampshire)

Sample characteristics									
Sample elevation (NAVD88 ft)	382.6 (minimum and medium)			382.8 (maximum)			384.7 (maximum)		
Sample ID	W12-1			W12-1			W12-2		
Morphological feature	Beach			Beach			Bank		
D15 grain size (mm)	Unlisted*	Silt		Unlisted*	Silt		0.0461	Silt	
D50 grain size (mm)	0.0876	Fine sand		0.0876	Fine sand		0.1064	Fine sand	
D85 grain size (mm)	0.1420	Fine sand		0.1420	Fine sand		0.2168	Fine sand	
Stratigraphy	Not applicable - below bank			Not applicable - below bank			Interbedded sand		
Erosion features	None			None			None		
Presence/character vegetation	None			None			Moss		
Presence of seeps	None			None			None		
Other characteristics	Upstream of large tree and armor			Upstream of large tree and armor			Upstream of large tree and armor		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	382.6			382.6			384.6		
Model flow (cfs)	700	5000	12000	700	5000	12000	700	5000	12000
Sample station (ft)	71	71	71	71	71	71	68	68	68
Near bank station (ft)	92	92	92	92	92	92	89	89	89
Velocity (ft/sec)	0.039	0.276	0.663	0.039	0.276	0.663	0.035	0.251	0.603
Shear stress (lb/ft ²)	0.000	0.001	0.007	0.000	0.001	0.007	0.000	0.001	0.006
Threshold analysis									
D15 Threshold velocity (ft/sec)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027
D15 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
D50 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.022	0.022	0.022	0.022	0.022	0.022	0.027	0.027	0.027
D50 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0
D85 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.036	0.036	0.036	0.036	0.036	0.036	0.055	0.055	0.055
D85 Shear stress threshold passed	No	No	No	No	No	No	No	No	No

Notes:

* D15 grain size listed as "silt" in laboratory results; specific grain size for threshold analysis inferred from nearby samples.

WR01 - Hartford (Vermont)

Sample characteristics									
Sample elevation (NAVD88 ft)	324.9 (minimum)			328.8 (medium)			332.0 (maximum)		
Sample ID	WR01-1			WR01-2			WR01-3		
Morphological feature	Beach			Beach			Beach		
D15 grain size (mm)	0.1443	Fine sand		0.0805	Fine sand		0.0965	Fine sand	
D50 grain size (mm)	0.5373	Medium sand		0.1535	Fine sand		2.5331	Coarse sand	
D85 grain size (mm)	1.3695	Medium sand		0.4101	Medium sand		28.3358	Coarse gravel	
Stratigraphy	Not applicable - below bank			Not applicable - below bank			Not applicable - below bank		
Erosion features	None			None			Notching on beach		
Presence/character vegetation	None			None			None		
Presence of seeps	None			None			None		
Other characteristics	Trees downed and growing			Trees downed and growing			Trees downed and growing		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	290.2			290.2			290.2		
Model flow (cfs)	700	5000	12000	700	5000	12000	700	5000	12000
Sample station (ft)	594	594	594	604	604	604	607	607	607
Near bank station (ft)	574	574	574	584	584	584	587	587	587
Velocity (ft/sec)	0.287	1.683	2.541	Dry	1.543	2.414	Dry	Dry	2.346
Shear stress (lb/ft ²)	0.001	0.036	0.072	Dry	0.030	0.064	Dry	Dry	0.060
Threshold analysis									
D15 Threshold velocity (ft/sec)	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8
D15 Velocity threshold passed	No	No	Yes	No	No	Yes	No	No	Yes
D15 Critical shear stress (lb/ft ²)	0.037	0.037	0.037	0.021	0.021	0.021	0.025	0.025	0.025
D15 Shear stress threshold passed	No	No	Yes	No	Yes	Yes	No	No	Yes
D50 Threshold velocity (ft/sec)	2.2	2.2	2.2	1.9	1.9	1.9	2.8	2.8	2.8
D50 Velocity threshold passed	No	No	Yes	No	No	Yes	No	No	No
D50 Critical shear stress (lb/ft ²)	0.055	0.055	0.055	0.039	0.039	0.039	0.06	0.06	0.06
D50 Shear stress threshold passed	No	No	Yes	No	No	Yes	No	No	No
D85 Threshold velocity (ft/sec)	2.5	2.5	2.5	2.1	2.1	2.1	6.0	6.0	6.0
D85 Velocity threshold passed	No	No	Yes	No	No	Yes	No	No	No
D85 Critical shear stress (lb/ft ²)	0.05	0.05	0.05	0.042	0.042	0.042	0.42	0.42	0.42
D85 Shear stress threshold passed	No	No	Yes	No	No	Yes	No	No	No

WR09 - Hartwell (New Hampshire)

Sample characteristics									
Sample elevation (NAVD88 ft)	290.5 (minimum)			293.7 (medium)			297.0 (maximum)		
Sample ID	WR09-1			WR09-2			WR09-3		
Morphological feature	Beach			Bank			Bank		
D15 grain size (mm)	0.0139	Silt		0.0042	Clay		0.0093	Silt	
D50 grain size (mm)	0.0547	Silt		0.0130	Silt		0.0221	Silt	
D85 grain size (mm)	0.1195	Fine sand		0.0403	Silt		0.0557	Silt	
Stratigraphy	Not applicable - below bank			Colluvium			Colluvium		
Erosion features	None			Topples block			Topples block		
Presence/character vegetation	None			Moderate herbaceous cover			Thick herbaceous cover		
Presence of seeps	Dry, upslope seepage			Dry, upslope seepage			Dry, upslope seepage		
Other characteristics	Abundant tree roots			Abundant roots			Abundant roots		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	290.2			290.2			290.2		
Model flow (cfs)	700	5000	12000	700	5000	12000	700	5000	12000
Sample station (ft)	186	186	186	181	181	181	172	172	172
Near bank station (ft)	207	207	207	202	202	202	192	192	192
Velocity (ft/sec)	0.123	1.471	3.023	Dry	1.414	2.952	Dry	Dry	2.605
Shear stress (lb/ft ²)	0.0002	0.025	0.092	Dry	0.024	0.088	Dry	Dry	0.069
Threshold analysis									
D15 Threshold velocity (ft/sec)	3.5	3.5	3.5	3.75	3.75	3.75	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.04	0.04	0.04	0.3	0.3	0.3	0.04	0.04	0.04
D15 Shear stress threshold passed	No	No	Yes	No	No	No	No	No	Yes
D50 Threshold velocity (ft/sec)	2.0	2.0	2.0	3.5	3.5	3.5	3.5	3.5	3.5
D50 Velocity threshold passed	No	No	Yes	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.032	0.032	0.032	0.04	0.04	0.04	0.04	0.04	0.04
D50 Shear stress threshold passed	No	No	Yes	No	No	Yes	No	No	Yes
D85 Threshold velocity (ft/sec)	1.8	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0
D85 Velocity threshold passed	No	No	Yes	No	No	Yes	No	No	Yes
D85 Critical shear stress (lb/ft ²)	0.031	0.031	0.031	0.024	0.024	0.024	0.033	0.033	0.033
D85 Shear stress threshold passed	No	No	Yes	No	No	Yes	No	No	Yes

B07 - Charlestown (New Hampshire)

Sample characteristics						
Sample elevation (NAVD88 ft)	290.2 (minimum and medium)			290.4 (maximum)		
Sample ID	B07-1			B07-2		
Morphological feature	Beach			Bank		
D15 grain size (mm)	0.0241	Silt		0.0241	Silt	
D50 grain size (mm)	0.0624	Silt		0.0619	Silt	
D85 grain size (mm)	0.1118	Fine sand		0.1331	Fine sand	
Stratigraphy	Not applicable - below bank			Colluvium		
Erosion features	None			Planar slip/topple block		
Presence/character vegetation	None			Thick herb and shrub cover		
Presence of seeps	None			None		
Other characteristics	Large slip block along bank			Large slip block along bank		
Model parameters and outputs						
Dam elevation (NAVD88 ft)	290.2			290.2		
Model flow (cfs)	2000	5000	12000	2000	5000	12000
Sample station (ft)	114	114	114	112	112	112
Near bank station (ft)	135	135	135	133	133	133
Velocity (ft/sec)	0.123	0.307	0.730	Dry	Dry	0.692
Shear stress (lb/ft ²)	0.0002	0.001	0.005	Dry	Dry	0.005
Threshold analysis						
D15 Threshold velocity (ft/sec)	3.5	3.5	3.5	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.04	0.04	0.04	0.04	0.04	0.04
D15 Shear stress threshold passed	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	2.0	2.0	2.0	2.0	2.0	2.0
D50 Velocity threshold passed	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.037	0.037	0.037	0.036	0.036	0.036
D50 Shear stress threshold passed	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	1.8	1.8	1.8	1.9	1.9	1.9
D85 Velocity threshold passed	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.029	0.029	0.029	0.034	0.034	0.034
D85 Shear stress threshold passed	No	No	No	No	No	No

B09 - North Walpole (New Hampshire)

Sample characteristics						
Sample elevation (NAVD88 ft)	290.2 (min, med, max)			291.2 (maximum)		
Sample ID	B09-1			B09-2		
Morphological feature	Beach			Bank		
D15 grain size (mm)	0.2842	Fine sand		0.0077	Silt	
D50 grain size (mm)	0.5276	Medium sand		0.0233	Silt	
D85 grain size (mm)	6.9090	Fine gravel		0.0597	Silt	
Stratigraphy	Not applicable - below bank			Colluvium		
Erosion features	None			Notching		
Presence/character vegetation	None			Thick herb. and shrub cover		
Presence of seeps	None			None		
Other characteristics	Shrubs along base of bank			Shrubs along base of bank		
Model parameters and outputs						
Dam elevation (NAVD88 ft)	290.2			291.2		
Model flow (cfs)	2000	5000	12000	2000	5000	12000
Sample station (ft)	75	75	75	71	71	71
Near bank station (ft)	95	95	95	91	91	91
Velocity (ft/sec)	0.040	0.099	0.237	0.034	0.084	0.201
Shear stress (lb/ft ²)	0.000	0.0001	0.001	0.000	0.0001	0.0004
Threshold analysis						
D15 Threshold velocity (ft/sec)	2.0	2.0	2.0	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.073	0.073	0.073	0.04	0.04	0.04
D15 Shear stress threshold passed	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	2.2	2.2	2.2	3.5	3.5	3.5
D50 Velocity threshold passed	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.054	0.054	0.054	0.04	0.04	0.04
D50 Shear stress threshold passed	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	4.0	4.0	4.0	2.0	2.0	2.0
D85 Velocity threshold passed	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.12	0.12	0.12	0.035	0.035	0.035
D85 Shear stress threshold passed	No	No	No	No	No	No

BR01 - Walpole Beach (New Hampshire)

Sample characteristics									
Sample elevation (NAVD88 ft)	224.4 (minimum)			226.3 (medium)			229.6 (maximum)		
Sample ID	BR01-1			BR01-2			BR01-3		
Morphological feature	Beach			Bank			Bank		
D15 grain size (mm)	0.0344	Silt		0.0298	Silt		0.0223	Silt	
D50 grain size (mm)	0.0720	Silt		0.0557	Silt		0.0519	Silt	
D85 grain size (mm)	0.1356	Fine sand		0.0948	Fine sand		0.0863	Fine sand	
Stratigraphy	Not applicable - below bank			Silt loam*			Silt loam		
Erosion features	None			Overhang			None		
Presence/character vegetation	None			None			Thick shrub cover		
Presence of seeps	None			None			None		
Other characteristics	None			Abundant roots			None		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	217.6			217.6			217.6		
Model flow (cfs)	2000	5000	12000	2000	5000	12000	2000	5000	12000
Sample station (ft)	137	137	137	132	132	132	123	123	123
Near bank station (ft)	158	158	158	153	153	153	143	143	143
Velocity (ft/sec)	0.106	0.286	0.672	Dry	0.267	0.646	Dry	Dry	0.568
Shear stress (lb/ft ²)	0.0002	0.001	0.006	Dry	0.001	0.005	Dry	Dry	0.004
Threshold analysis									
D15 Threshold velocity (ft/sec)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
D15 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
D50 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.042	0.042	0.042	0.033	0.033	0.033	0.03	0.03	0.03
D50 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8
D85 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.035	0.035	0.035	0.024	0.024	0.024	0.022	0.022	0.022
D85 Shear stress threshold passed	No	No	No	No	No	No	No	No	No

Notes:

*Sample taken 0.4 ft above contact with clay loam.

BR05 - Malnati (New Hampshire)

Sample characteristics									
Sample elevation (NAVD88 ft)	218.8 (minimum)			220.8 (medium)			224.0 (maximum)		
Sample ID	BR05-1			BR05-2			BR05-3		
Morphological feature	Beach			Bank			Bank		
D15 grain size (mm)	0.0709	Silt		0.0398	Silt		0.0341	Silt	
D50 grain size (mm)	0.1278	Fine sand		0.0801	Fine sand		0.0786	Fine sand	
D85 grain size (mm)	0.2208	Fine sand		0.1597	Fine sand		0.1733	Fine sand	
Stratigraphy	Not applicable - below bank			Colluvium			Colluvium		
Erosion features	None			Planar slip/topple block			Planar slip/topple block		
Presence/character vegetation	None			None			Thick herbaceous cover		
Presence of seeps	Yes, from lower bank			Yes, from lower bank			Yes, from lower bank		
Other characteristics	Large wood, abundant roots			Large wood, abundant roots			Large wood, abundant roots		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	217.6			217.6			217.6		
Model flow (cfs)	2000	5000	12000	2000	5000	12000	2000	5000	12000
Sample station (ft)	163	163	163	156	156	156	145	145	145
Near bank station (ft)	184	184	184	176	176	176	166	166	166
Velocity (ft/sec)	0.711	1.331	2.273	Dry	1.111	2.014	Dry	Dry	1.583
Shear stress (lb/ft ²)	0.008	0.025	0.065	Dry	0.018	0.052	Dry	Dry	0.036
Threshold analysis									
D15 Threshold velocity (ft/sec)	2.0	2.0	2.0	3.5	3.5	3.5	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	Yes	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.041	0.041	0.041	0.04	0.04	0.04	0.04	0.04	0.04
D15 Shear stress threshold passed	No	No	Yes	No	No	Yes	No	No	No
D50 Threshold velocity (ft/sec)	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8
D50 Velocity threshold passed	No	No	Yes	No	No	Yes	No	No	No
D50 Critical shear stress (lb/ft ²)	0.033	0.033	0.033	0.020	0.020	0.020	0.020	0.020	0.020
D50 Shear stress threshold passed	No	No	Yes	No	No	Yes	No	No	Yes
D85 Threshold velocity (ft/sec)	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9
D85 Velocity threshold passed	No	No	Yes	No	No	Yes	No	No	No
D85 Critical shear stress (lb/ft ²)	0.056	0.056	0.056	0.041	0.041	0.041	0.044	0.044	0.044
D85 Shear stress threshold passed	No	No	Yes	No	No	Yes	No	No	No

V02 - River View Farm US (Vermont)

Sample characteristics									
Sample elevation (NAVD88 ft)	217.6 (minimum)			218.0 (medium)			219.7 (maximum)		
Sample ID	V02-1			V02-1			V02-2		
Morphological feature	Beach			Beach			Bank		
D15 grain size (mm)	Unlisted*	Silt		Unlisted*	Silt		0.0399	Silt	
D50 grain size (mm)	0.0903	Fine sand		0.0903	Fine sand		0.0956	Fine sand	
D85 grain size (mm)	0.1422	Fine sand		0.1422	Fine sand		0.2042	Fine sand	
Stratigraphy	Not applicable - below bank			Not applicable - below bank			Colluvium		
Erosion features	None			None			Planar slip/topple block		
Presence/character vegetation	Thick aquatic vegetation			Thick aquatic vegetation			Thick herbaceous cover		
Presence of seeps	None			None			None		
Other characteristics	None			None			None		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	217.6			217.6			217.6		
Model flow (cfs)	2000	6000	15000	2000	6000	15000	2000	6000	15000
Sample station (ft)	755	755	755	757	757	757	760	760	760
Near bank station (ft)	735	735	735	737	737	737	739	739	739
Velocity (ft/sec)	0.183	0.543	1.260	Dry	0.514	1.207	Dry	Dry	1.151
Shear stress (lb/ft ²)	0.001	0.004	0.022	Dry	0.004	0.020	Dry	Dry	0.019
Threshold analysis									
D15 Threshold velocity (ft/sec)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
D15 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
D50 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024
D50 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0
D85 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.036	0.036	0.036	0.036	0.036	0.036	0.052	0.052	0.052
D85 Shear stress threshold passed	No	No	No	No	No	No	No	No	No

Notes:

* D15 grain size listed as "silt" in laboratory results; specific grain size for threshold analysis inferred from nearby samples.

V06 - LaCroix (New Hampshire)

Sample characteristics									
Sample elevation (NAVD88 ft)	217.6 (minimum)			217.7 (medium)			219.6 (maximum)		
Sample ID	V06-1			V06-1			V06-2		
Morphological feature	Beach			Beach			Bank		
D15 grain size (mm)	0.8317	Medium sand		0.8317	Medium sand		Unlisted*	Silt	
D50 grain size (mm)	3.0297	Coarse sand		3.0297	Coarse sand		0.6387	Medium sand	
D85 grain size (mm)	30.4925	Coarse gravel		30.4925	Coarse gravel		2.4180	Coarse sand	
Stratigraphy	Not applicable - below bank			Not applicable - below bank			Stratified sand and gravel		
Erosion features	None			None			Notching		
Presence/character vegetation	None			None			Moderate herb and shrub cover		
Presence of seeps	None			None			None		
Other characteristics	None			None			None		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	217.6			217.6			219.6		
Model flow (cfs)	2000	6000	15000	2000	6000	15000	2000	6000	15000
Sample station (ft)	33	33	33	33	33	33	30	30	30
Near bank station (ft)	53	53	53	53	53	53	50	50	50
Velocity (ft/sec)	0.093	0.279	0.696	0.093	0.279	0.696	0.084	0.251	0.629
Shear stress (lb/ft ²)	0.0001	0.001	0.005	0.0001	0.001	0.005	0.0001	0.001	0.004
Threshold analysis									
D15 Threshold velocity (ft/sec)	2.2	2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.0
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.086	0.086	0.086	0.086	0.086	0.086	0.03	0.03	0.03
D15 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D50 Threshold velocity (ft/sec)	3.0	3.0	3.0	3.0	3.0	3.0	2.2	2.2	2.2
D50 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D50 Critical shear stress (lb/ft ²)	0.08	0.08	0.08	0.08	0.08	0.08	0.066	0.066	0.066
D50 Shear stress threshold passed	No	No	No	No	No	No	No	No	No
D85 Threshold velocity (ft/sec)	6.3	6.3	6.3	6.3	6.3	6.3	2.8	2.8	2.8
D85 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D85 Critical shear stress (lb/ft ²)	0.45	0.45	0.45	0.45	0.45	0.45	0.06	0.06	0.06
D85 Shear stress threshold passed	No	No	No	No	No	No	No	No	No

Notes:

* D15 grain size listed as "silt" in laboratory results; specific grain size for threshold analysis inferred from nearby samples.

VR02 - Stebbins Island (New Hampshire)

Sample characteristics									
Sample elevation (NAVD88 ft)	180.9 (minimum)			182.0 (medium)			184.8 (maximum)		
Sample ID	VR02-1			VR02-1			VR02-2		
Morphological feature	Beach			Beach			Bank		
D15 grain size (mm)	0.0109	Silt		0.0109	Silt		0.0139	Silt	
D50 grain size (mm)	0.0473	Silt		0.0473	Silt		0.0439	Silt	
D85 grain size (mm)	0.0885	Fine sand		0.0885	Fine sand		0.0841	Fine sand	
Stratigraphy	Not applicable - below bank			Not applicable - below bank			Sandy silt*		
Erosion features	None			None			Notching		
Presence/character vegetation	None			None			Moss/sparse herbaceous cover		
Presence of seeps	None			None			None		
Other characteristics	None			None			Abundant roots		
Model parameters and outputs									
Dam elevation (NAVD88 ft)	180.6			180.6			180.6		
Model flow (cfs)	2000	6000	15000	2000	6000	15000	2000	6000	15000
Sample station (ft)	50	50	50	47	47	47	43	43	43
Near bank station (ft)	71	71	71	67	67	67	64	64	64
Velocity (ft/sec)	1.256	2.166	2.333	Dry	2.043	2.249	Dry	Dry	2.149
Shear stress (lb/ft ²)	0.029	0.080	0.082	Dry	0.072	0.077	Dry	Dry	0.072
Threshold analysis									
D15 Threshold velocity (ft/sec)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
D15 Velocity threshold passed	No	No	No	No	No	No	No	No	No
D15 Critical shear stress (lb/ft ²)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
D15 Shear stress threshold passed	No	Yes	Yes	No	Yes	Yes	No	No	Yes
D50 Threshold velocity (ft/sec)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
D50 Velocity threshold passed	No	Yes	Yes	No	Yes	Yes	No	No	Yes
D50 Critical shear stress (lb/ft ²)	0.028	0.028	0.028	0.028	0.028	0.028	0.026	0.026	0.026
D50 Shear stress threshold passed	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes
D85 Threshold velocity (ft/sec)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
D85 Velocity threshold passed	No	Yes	Yes	No	Yes	Yes	No	No	Yes
D85 Critical shear stress (lb/ft ²)	0.023	0.023	0.023	0.023	0.023	0.023	0.021	0.021	0.021
D85 Shear stress threshold passed	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes

Notes:

*Sample taken 1.1 ft below contact with sand loam.