

Appendix C – HEC-6 Model Results

STREAM SEGMENT # 1: HEC-6 MODEL FOR FOSSIL CREEK DAM SEDIMENTATION EVALUATION RESULTS FOR 43 CFS BASEFLOW CONDITION - 9 MONTH DURATION

SECTION NUMBER	TOP 6 FEET OF DAM REMOVED			COMPLETE DAM REMOVAL		
	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)
1200	-0.29	4280.35	4279.71	-0.29	4280.35	4279.71
1125	0.04	4277.61	4276.04	0.04	4277.57	4276.04
1050	-0.02	4277.38	4275.98	-0.02	4277.34	4275.98
960	-0.07	4276.43	4275.93	-0.07	4276.43	4275.93
860	0.03	4276.44	4268.03	0.03	4276.41	4268.03
825	0.21	4276.44	4270.21	0.21	4276.4	4270.21
800	0	4276.44	4270	0	4276.4	4270
700	-0.06	4276.38	4274.94	-0.06	4276.35	4274.94
600	-0.39	4274.29	4273.61	-0.39	4274.28	4273.61
550	0.06	4271.03	4270.06	-0.19	4270.91	4269.81
475	0.14	4270.58	4269.14	0.02	4270.51	4269.02
370	-0.71	4270.1	4269.29	-1.07	4269.37	4268.93
350	0.05	4268.27	4268.05	0.08	4254.35	4254.08
325	1.32	4236.04	4225.32	2.41	4236.04	4226.41
310	2.38	4236.04	4225.38	3.48	4236.04	4226.48
265	0	4236.04	4226	0	4236.04	4226
250	0	4235.81	4235	0	4235.81	4235
225	0	4234.74	4234	0	4234.74	4234
190	0	4230.07	4226	0	4230.07	4226
175	0	4230.07	4220	0	4230.07	4220
150	0	4230.07	4222	0	4230.07	4222
130	-0.01	4230.07	4222.99	-0.01	4230.07	4222.99
75	-0.02	4230	4228.98	-0.02	4230	4228.98
50	-0.02	4229.91	4227.98	-0.02	4229.91	4227.98
0	0.02	4229.88	4228.02	0.02	4229.88	4228.02

Appendix C – HEC-6 Model Results

STREAM SEGMENT # 1: HEC-6 MODEL FOR FOSSIL CREEK DAM SEDIMENTATION EVALUATION RESULTS FOR 2 YEAR - 3 HR STORM EVENT

SECTION NUMBER	TOP 6 FEET OF DAM REMOVED			COMPLETE DAM REMOVAL		
	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)
1200	-0.29	4280.35	4279.71	-0.29	4280.35	4279.71
1125	0.09	4277.7	4276.09	0.09	4277.69	4276.09
1050	0.21	4277.31	4276.21	0.21	4277.27	4276.21
960	-0.59	4275.98	4275.41	-0.62	4275.92	4275.38
860	1.49	4276.02	4269.49	1.53	4275.96	4269.53
825	0.22	4276.02	4270.22	0.22	4275.96	4270.22
800	0.1	4276.02	4270.1	0.1	4275.96	4270.1
700	-0.39	4275.91	4274.61	-0.39	4275.81	4274.61
600	-1.18	4273.51	4272.82	-1.74	4272.95	4272.26
550	0.86	4271.94	4270.86	-1	4269.89	4269
475	0.38	4270.37	4269.38	-4.9	4265.01	4264.1
370	-1.29	4269.38	4268.71	-11.29	4259.04	4258.71
350	0	4268.32	4268	0.03	4254.4	4254.03
325	1.62	4236.04	4225.62	15.3	4239.79	4239.3
310	3.01	4236.04	4226.01	15.81	4239.22	4238.81
265	0.87	4236.04	4226.87	10.88	4237.59	4236.88
250	0	4235.81	4235	0.65	4236.31	4235.65
225	0	4234.74	4234	0	4234.74	4234
190	0	4230.04	4226	4.16	4230.88	4230.16
175	0.43	4230.05	4220.43	6.88	4229.81	4226.88
150	0.01	4230.04	4222.01	6	4230.05	4228
130	0	4230.04	4223	1.55	4230.07	4224.55
75	-0.09	4229.98	4228.91	-0.06	4230	4228.94
50	-0.09	4229.91	4227.91	-0.01	4229.92	4227.99
0	-0.08	4229.88	4227.92	0.07	4229.88	4228.07

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STREAM SEGMENT # 1: HEC-6 MODEL FOR FOSSIL CREEK DAM SEDIMENTATION EVALUATION RESULTS FOR 2 YEAR - 12 HR STORM EVENT

SECTION NUMBER	TOP 6 FEET OF DAM REMOVED			COMPLETE DAM REMOVAL		
	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)
1200	-0.29	4280.35	4279.71	-0.29	4280.35	4279.71
1125	0.45	4278.18	4276.45	0.44	4278.16	4276.44
1050	0.72	4277.69	4276.72	0.71	4277.69	4276.71
960	-0.16	4276.57	4275.84	-0.33	4276.27	4275.67
860	4.7	4276.14	4272.7	4.44	4275.65	4272.44
825	3.25	4276.11	4273.25	3.18	4275.57	4273.18
800	1.52	4276.12	4271.52	1.66	4275.59	4271.66
700	-0.25	4275.89	4274.75	-0.9	4275	4274.1
600	-1.6	4273.13	4272.4	-4.09	4270.62	4269.91
550	0.82	4271.94	4270.82	-3.09	4267.77	4266.91
475	0.17	4270.09	4269.17	-6.07	4263.83	4262.93
370	-1.64	4269.16	4268.36	-12.13	4258.19	4257.87
350	0	4268.32	4268	0.03	4254.41	4254.03
325	5.45	4236.04	4229.45	16.97	4241.46	4240.97
310	5.17	4236.04	4228.17	17.52	4240.95	4240.52
265	0.94	4236.04	4226.94	12.64	4239.32	4238.64
250	0	4235.81	4235	2.47	4238.15	4237.47
225	0	4234.74	4234	2.11	4236.88	4236.11
190	0	4230.03	4226	8.87	4235.63	4234.87
175	0.07	4230.03	4220.07	11.65	4234.37	4231.65
150	0	4230.03	4222	9.55	4232.41	4231.55
130	0	4230.03	4223	7.61	4231.75	4230.61
75	-0.12	4229.97	4228.88	0.6	4230.32	4229.6
50	-0.15	4229.91	4227.85	0.6	4229.98	4228.6
0	-0.11	4229.88	4227.89	0.4	4229.88	4228.4

Appendix C – HEC-6 Model Results

STREAM SEGMENT # 1: HEC-6 MODEL FOR FOSSIL CREEK DAM SEDIMENTATION EVALUATION RESULTS FOR 10 YEAR - 24 HR STORM EVENT

SECTION NUMBER	TOP 6 FEET OF DAM REMOVED			COMPLETE DAM REMOVAL		
	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)
1200	2.24	4283.08	4282.24	2.16	4283	4282.16
1125	4.19	4281.42	4280.19	4.02	4281.24	4280.02
1050	3.35	4280.06	4279.35	3.11	4279.86	4279.11
960	1.36	4278.01	4277.36	0.87	4277.45	4276.87
860	6.2	4276.64	4274.2	5.38	4275.73	4273.38
825	4.63	4276.24	4274.63	3.62	4275.21	4273.62
800	4.02	4276.22	4274.02	3.46	4275	4273.46
700	-0.51	4275.57	4274.49	-2.87	4273.14	4272.13
600	-2.5	4272.24	4271.5	-6.1	4268.58	4267.9
550	-0.2	4270.86	4269.8	-4.7	4266.18	4265.3
475	-0.62	4269.43	4268.38	-7.22	4262.77	4261.78
370	-2	4268.92	4268	-12.31	4258.02	4257.69
350	0	4268.32	4268	0.04	4254.41	4254.04
325	12.06	4236.91	4236.06	20.97	4245.48	4244.97
310	13.12	4236.61	4236.12	21.42	4244.86	4244.42
265	9.07	4236.26	4235.07	16.51	4243.19	4242.51
250	0	4235.81	4235	6.25	4241.89	4241.25
225	0	4234.74	4234	5.77	4240.51	4239.77
190	0.99	4230.01	4226.99	12.3	4239.02	4238.3
175	4	4229.98	4224	15.02	4237.66	4235.02
150	1.86	4229.99	4223.86	13.66	4236.51	4235.66
130	1.03	4229.99	4224.03	11.63	4235.69	4234.63
75	-0.28	4229.94	4228.72	3.82	4233.46	4232.82
50	-0.46	4229.91	4227.54	2.69	4231.44	4230.69
0	0.06	4229.88	4228.06	1.25	4229.88	4229.25

Appendix C – HEC-6 Model Results

STREAM SEGMENT # 1: HEC-6 MODEL FOR FOSSIL CREEK DAM SEDIMENTATION EVALUATION RESULTS FOR 50 YEAR - 24 HR STORM EVENT

SECTION NUMBER	TOP 6 FEET OF DAM REMOVED			COMPLETE DAM REMOVAL		
	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)	BED CHANGE (ft)	WS ELEV (ft)	THALWEG (ft)
1200	4.63	4285.27	4284.63	4.58	4285.22	4284.58
1125	5.19	4282.51	4281.19	5.14	4282.42	4281.14
1050	4.66	4281.43	4280.66	4.48	4281.21	4280.48
960	2.16	4278.7	4278.16	1.39	4277.87	4277.39
860	6.35	4276.7	4274.35	5.03	4275.33	4273.03
825	4.64	4276.37	4274.64	3.23	4274.84	4273.23
800	4.47	4276.28	4274.47	3.17	4274.61	4273.17
700	-0.67	4275.5	4274.33	-3.47	4272.42	4271.53
600	-2.53	4272.14	4271.47	-6.56	4268.14	4267.44
550	-0.33	4270.84	4269.67	-5.35	4265.46	4264.65
475	-0.49	4269.59	4268.51	-7.6	4262.32	4261.4
370	-1.85	4269	4268.15	-12.55	4257.78	4257.45
350	0	4268.32	4268	0.02	4254.4	4254.02
325	12.26	4237.38	4236.26	24.14	4248.61	4248.14
310	13.65	4237.26	4236.65	24.76	4248.2	4247.76
265	9.83	4236.7	4235.83	19.91	4246.56	4245.91
250	0.2	4235.94	4235.2	9.55	4245.19	4244.55
225	0	4234.74	4234	8.98	4243.71	4242.98
190	3.17	4230.49	4229.17	15.46	4242.17	4241.46
175	5.97	4230.3	4225.97	18.07	4240.7	4238.07
150	5.93	4230.32	4227.93	16.43	4239.24	4238.43
130	4.74	4230.3	4227.74	14.21	4238.2	4237.21
75	0.16	4230.05	4229.16	5.56	4235.15	4234.56
50	0.15	4229.93	4228.15	3.98	4232.65	4231.98
0	0.25	4229.88	4228.25	1.35	4229.88	4229.35