

**APPENDIX H**  
**RAW DATA: SEDIMENT AND METALS**



**Table H-1. Sediment and habitat raw data for the Middle and Lower Big Hole TPA.**

Stream Segment	Sample Site	Sample Date	% of Fine Sediment <6mm	% of Fine Sediment <2mm	Channel Width/Depth Ratio	Bank Erosion Hazard Index	Existing Stream Type	Potential Stream Type	Greenline Transect (% Shrubs)	PFC Rating
Big Hole River between Divide Cr and Pintlar Cr	behind Fishtrap School	1990	--	--	--	--	MFWP data, recent aerial photo data	--	--	34% FAR or NF
	upstream Hwy 43 Bridge	1990	--	--	--	--		--	--	
	Mudd Creek Bridge	2002	--	--	--	--		--	--	
	Dickie Bridge	2002	--	--	--	--		--	--	
	Jerry Creek Bridge	2002	--	--	--	--		--	--	
	BH-16,17,20,21,22,26, 33,34,37 & DL-1,6,8,18,29	1998-2002	--	--	--	--	--	--	--	
	Middle Big Hole 1	9/19/2006	26	19	97.1	27.9	C4	C4	10	FAR
			21	14	--	23.2	--	--		
			--	--	--	24.4	--	--		
			--	--	--	22.2	--	--		
	Middle Big Hole 2	9/20/2006	16	10	86.1	20.9	C4	C4	39	FAR
			16	13	--	26.5	--	--		
			--	--	--	22.8	--	--		
			--	--	--	12.9	--	--		
Big Hole River from Divide Cr to the mouth (Jefferson River)	Maiden Rock	2001, 2002	--	--	--	--	recent aerial photo data	--	--	38% FAR or NF
	Kalsta Bridge	2002	--	--	--	--		--	--	
	Notch Bottom	2001, 2002	--	--	--	--		--	--	
	High Road	2002	--	--	--	--		--	--	
	SB-26,27	1995-2001	--	--	--	--		--	--	
	Lower Big Hole 1	10/1/2006	7	4	84.3	25.1	C4/B4c	C4	50	PFC
			5	2	--	17.9	--	--		
			--	--	--	26.6	--	--		
			--	--	--	11.2	--	--		
	Lower Big Hole 2	10/15/2006	5	4	65.3	37.6	C4	C4	41	PFC
			6	5	--	30.3	--	--		
			--	--	--	33.9	--	--		
			--	--	--	39.9	--	--		
				--	--	--	29.6	--	--	

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Birch Creek headwaters to the National Forest Boundary	Birch	9/9/1991	10	8	28.1	--	B2c/B3c	B3	--	PFC
	Birch 2	7/1/1994	5	5	13.8	19.1	B3	B3	--	PFC
	B-6	2000	--	--	--	--	--	--	--	--
	Birch 1	9/21/2005	3	2	16.8	37.9	B3a	B3a/B3	70	FAR
			7	3	10.9	26.1	B3a	B3a/B3		
			5	5	13.9	29.1	B3a	B3a/B3		
			--	--	19.4	27.3	B3a	B3a/B3		
			--	--	15.3	34.9	B3a	B3a/B3		
	Birch 2	9/20/2005	6	4	13.1	28.7	C3b	B3	78	PFC
			5	5	12.2	27.0	C3b	B3		
			3	3	9.1	32.8	C3b	B3		
			--	--	9.8	37.6	C3b	B3		
			--	--	11.4	41.2	B3	B3		
	Birch Creek from National Forest Boundary to mouth (Big Hole R)	B-10	2000	--	--	--	--	--	--	--
Birch 3		10/14/2005	15	9	18.9	42.6	B3c	C3	62	FAR
			12	6	16.6	26.7	B3c	C3		
			16	11	17.4	16.6	C3	C3		
			--	--	14.5	38.4	B3c	C3		
--	--	10.0	40.0	C3	C3					
California Creek from headwaters to mouth (French Cr-Deep Cr)	CF-7	2000	--	--	--	--	--	--	--	--
	California 1	7/24/2006	35	28	9.4	22.7	E4	E4	52	FAR
			28	18	8.8	40.6	B4c	E4		
			16	13	8.0	29.5	E4	E4		
			--	--	17.3	--	F4/B4c	E4		
			--	--	6.4	--	G4c	E4		
	California 2	7/24/2006	15	11	15.6	22.8	E4	E4	48	FAR
			12	9	11.5	25.8	E4	E4		
			14	13	18.8	36.3	C4	E4		
			--	--	11.5	30.9	E4	E4		
	--	--	7.9	31.1	E4	E4				

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Stream Segment	Sample Site	Sample Date	% of Fine Sediment <6mm	% of Fine Sediment <2mm	Channel Width/Depth Ratio	Bank Erosion Hazard Index	Existing Stream Type	Potential Stream Type	Greenline Transect (% Shrubs)	PFC Rating
Camp Creek from headwaters to mouth (Big Hole R)	M03CAMPC01	9/14/2003	72	58	--	--	--	--	--	44% FAR
	M03CAMPC02	9/15/2003	68	58	--	--	--	--	--	
	M03CAMPC03	9/15/2003	40	35	--	--	--	--	--	
	RO-2, 3,46 and SB-5,6	1995-2003	--	--	--	--	--	--	--	
	Camp 1	9/30/2005	41	27	18.8	42.5	B4c	C4	76	FAR
			17	12	31.8	32.9	F4	C4		
			33	23	10.3	32.2	C4	C4		
			--	--	15.0	42.0	B4c	C4		
	Camp 2	9/8/2006	39	35	12.4	26.4	C4	B4c	51	FAR
			27	19	17.0	37.9	B4c	B4c		
32			21	31.8	15.0	B4c/F4	B4c			
--			--	12.7	33.1	B4c	B4c			
Canyon Creek from headwaters to mouth (Big Hole R)	Canyon Dn	9/7/1994	6	3	8.8	29.4	G3c	B3c		NF
	Canyon Mid	5/25/1994	13	13	25.9	23.8	C4	C4		FAR
	Canyon Up	8/2/1994	13	8	9.1	19.2	B3c	B3c		PFC
	Canyon 1	9/23/2005	11	9	14.2	34.3	C4	C4	76	PFC
			17	14	7.6	27.4	E4	C4		
			6	4	12.9	15.9	C4	C4		
--			--	10.2	23	E4	C4			
Charcoal Gulch tributary of the Big Hole River	M03CHRC01	7/23/2003	60	59	--	--	A2	--	--	--
	SB-8	1999	--	--	--	--	--	--	--	FAR
Corral Creek from headwaters to mouth (Deep Cr)	M03CORLC01 (C-1)	7/10/2001	--	--	--	--	--	--	--	--
	M03CORLC04 (C-4)	7/10/2001	--	--	--	--	--	--	--	--
	Corral 1	9/5/2006	32	21	5.6	40.0	E4a	A4	6	FAR
			22	13	9.6	38.6	B4a	A4		
			20	14	5.0	--	E4a	A4		
			--	--	8.5	--	B4a/A4	A4		
	Corral 2	9/7/2006	--	--	5.4	--	B4a/A4	A4	32	FAR
			29	23	8.1	28.8	E4	E4		
			29	23	17.3	25.6	B4c/F4	E4		
			36	30	30.7	24.3	B4c/C4	E4		
--	--	9.5	41.5	B4c/G4	E4					
--	--	2.7	25.0	E4	E4					

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Stream Segment	Sample Site	Sample Date	% of Fine Sediment <6mm	% of Fine Sediment <2mm	Channel Width/Depth Ratio	Bank Erosion Hazard Index	Existing Stream Type	Potential Stream Type	Greenline Transect (% Shrubs)	PFC Rating
Deep Creek from headwaters to mouth (Big Hole R)	M03DEEPC02 (D-2)	7/11/2001	--	--	--	--	--	--	--	--
	CF-11	2000	--	--	--	--	--	--	--	--
	CF-16	2000	--	--	--	--	--	--	--	--
	DL-04	2000	--	--	--	--	--	--	--	FAR
	Deep 1	10/11/2005	20	14	16.5	28.4	C4	E4	65	FAR
			7	3	19.7	29.5	C4	E4		
			7	5	3.0	31.0	E4	E4		
			--	--	14.3	25.6	C4	E4		
			--	--	15.7	30.6	C4	E4		
	Deep 2	10/12/2005	18	12	28.4	37.8	C4	C4	42	FAR
			15	7	33.4	34.7	C4	C4		
			20	12	19.2	37.7	C4	C4		
			--	--	17.5	43.3	C4	C4		
			--	--	24.4	27.7	B4c	C4		
Delano Creek from headwaters to mouth (Jerry Cr)	Delano Down	7/6/1999	13.8	12.9	7.3	26.2	A3	A2	--	PFC
	Delano Up	6/30/1999	15	13	9.1	25.6	A3	A3	--	PFC
	M03DLNOC01	7/16/2003	9	8	--	--	B3	--	--	--
	M03DLNOC02	7/17/2003	27	24	--	--	--	--	--	--
	M03DLNOC03	7/17/2003	--	--	--	--	--	--	--	--
	Delano 1	7/27/2006	7	3	4.9	15.6	A4	A3	7	PFC
			13	7	13.1	--	B4a	A3		
			10	5	9.1	--	B4a	A3		
			--	--	9.9	--	A4	A3		
			--	--	7.1	--	A4	A3		
	Delano 2	7/27/2006	28	19	8.6	15.2	E4b	E3b	15	FAR
			14	10	9.6	27.9	E4b	E3b		
			29	17	6.3	23.7	E4b	E3b		
			--	--	4.1	18.5	E4b	E3b		
--			--	2.7	28.6	E4b	E3b			

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Divide Creek from headwaters to mouth (Big Hole R)	M03DIVDC01	7/30/2003	66	65	--	--	C5	--	--	--
	M03DIVDC02	7/30/2003	54	45	--	--	E5	--	--	--
	Divide 1	8/3/2006	51	39	18.2	27.7	B4c	E4	73	NF
			67	50	12.9	20.3	F4	E4		
			74	50	18.1	31.2	F4	E4		
			--	--	18.0	35.7	B4c	E4		
			--	--	20.7	--	F4	E4		
	Divide 2	8/2/2006	46	36	21.3	24.6	F4	C4	26	FAR
			31	26	22.9	28.9	F4	C4		
			26	21	22.5	25.8	F4	C4		
			--	--	15.5	24.0	C4	C4		
			--	--	14.1	24.7	B4c	C4		
Elkhorn Creek headwaters to mouth (Jacobson Cr-Wise R)	E-1	7/20/2000	--	--	--	--	--	--	--	--
	E-9	7/20/2000	--	--	--	--	--	--	--	--
	M03ELKHC01	7/23/2003	30	23	14.3	--	B3	--	--	--
	M03ELKHC02	7/23/2003	19	10	14.9	--	C4	--	--	--
	Elkhorn 1	7/26/2006	16	12	14.5	39.4	B4c	B4c	21	FAR
			12	6	12.8	39.0	B4c	B4c		
			20	14	9.0	44.3	B4c/G4c	B4c		
			--	--	12.1	42.7	B4c	B4c		
--			--	21.7	44.4	B4c	B4c			
Fishtrap Creek confluence of West & Middle Fks to mouth (Big Hole)	M03FSHTC01	7/16/2003	16	15	25.5	--	--	--	--	--
	M03FSHTC02	7/16/2003	17	15	27.0	--	--	--	--	--
	Fishtrap 1	8/31/2006	15	6	14.6	41.5	B4	B3	75	FAR
			12	8	27.9	27.6	B4	B3		
			17	12	21.0	34.5	B4	B3		
			--	--	16.4	13.4	B4	B3		
			--	--	23.2	19.3	B4	B3		
	Fishtrap 2	9/6/2006	17	9	20.1	13.4	C4	C3	55	FAR
			6	6	18.5	20.9	C4	C3		
			15	10	13.2	28.3	C4	C3		
--			--	19.0	--	C4	C3			
--			--	22.6	--	B4c	C3			

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French Creek from headwaters to mouth (Deep Cr)	French	8/9/1999	11	11	22.7	27.3	C3	C3	34	FAR
	French 1	9/27/2005	19	17	23	44.7	C4	C4		
			5	4	17.0	29.0	C4	C4		
			8	7	25.1	27.7	C4	C4		
			--	--	27.8	37.1	C4	C4		
--	--	21.4	39.7	C4	C4					
Gold Creek from headwaters to mouth (Wise R)	Gold	8/24/1994	13	13	9.1	23.6	B4a	B4a	--	PFC
	M03GOLDC01	7/10/2003	37	30	--	--	A3	--	--	--
	M03GOLDC02	7/10/2003	--	--	--	--	C4	E4	--	--
	Gold 1	9/29/2005	26	19	17.4	45.1	C4	E4	40	FAR
			22	17	20.4	40.8	F4	E4		
			11	8	6.8	25.2	C4	E4		
			--	--	41.8	23.7	C4	E4		
--	--	35.0	29.2	C4	E4					
Grose Creek from headwaters to mouth (Big Hole R)	M03GROSC01	9/12/2003	--	--	--	--	--	--	--	--
	Grose 1	8/3/2006	78	64	1.8	37.0	B5a/A5	E3a	13	NF
			71	49	12.3	38.3	A5	E3a		
			85	77	14.0	33.7	B5a	E3a		
			--	--	2.3	34.6	B5a/A5	E3a		
--	--	4.1	44.7	B5a/E5b	E3a					
Jerry Creek from headwaters to mouth (Big Hole R)	Jerry Up	6/30/1999	7	5	10.2	24.2	E3a	E3a	--	PFC
	Jerry Mid	7/6/1999	9	5	11.8	27.4	C3b/E3b	C3b/E3b	--	PFC
	Jerry Down	8/2/1999	3	2	23.3	28.1	F3b	B3	--	FAR
	M03JERRC01	7/10/2003	--	--	--	--	--	--	--	--
	Jerry 1	9/28/2005	9	7	22.4	33.8	B4	B3	40	FAR
			11	9	20.0	11.3	B4	B3		
			10	9	43.5	25.5	B4	B3		
			--	--	20.7	13.5	B4	B3		
	--	--	19.9	20.1	C4b	B3				
	Jerry 2	9/28/2005	13	7	11.9	23.1	C4	B3c	61	FAR
21			13	19.3	28.5	B4c	B3c			
14			9	12.6	23.2	B4c	B3c			
--			--	36.2	34.8	B4c	B3c			
--	--	15.9	10.0	C4	B3c					
LaMarche Creek from headwaters to mouth (Big Hole River)	M03LMCHC01	7/16/2003	15	14	28.1	--	B3	--	--	--
	M03LMCHC02	7/16/2003	16	16	23.4	--	B3	--	--	--
	D-2-1	6/19/1905	--	--	--	--	--	--	--	FAR



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Lost Creek in the Lower Big Hole Watershed	Lost Dn (BLM)	5/27/1994	76	64	2.5		E5a	E3a	--	NF
	Lost Up	5/26/1994	41	34	18.6	38.1	B4a	A3	--	NF
	M03LOSTC01	9/13/2003	59	53	--	--	--	--	--	--
	M03LOSTC02	9/14/2003	54	47	--	--	--	B4	--	--
	Lost 1	8/29/2006	31	16	11.1	29.1	E4b	E3b	48	FAR
			31	17	11.3	28.9	E4b	E3b		
			28	15	23.3	--	B4	E3b		
			--	--	10.4	--	B4	E3b		
			--	--	11.2	--	B4	E3b		
	Lost 2		87	83	6.1	25.5	E5b	E3b	39	NF
			53	43	5.2	29.2	B5/G5	E3b		
			49	34	12.9	36.0	B5/G5	E3b		
			--	--	15.6	--	B5/G5	E3b		
			--	--	2.1	--	E5b	E3b		
McLain Creek tributary to Moose Cr (Big Hole River)	M03MCLNC01	7/31/2003	93	73	1.94	--	--	--	--	--
	SB-80-1 , SB-80-2, SB-1	1989, 1995	--	--	--	--	--	--	--	PFC
Moose Creek from headwaters to mouth (Big Hole R at Maiden Rock)	SB-2, SB-3, SB-4, SB-29, DL-24-1, DL-24-2	1988-1995	--	--	--	--	--	--	--	22% FAR
	Moose 1	9/21/2006	29	19	18.2	17.9	B4	B3	83	
			25	14	24.8	24.8	B4	B3		
			27	19	13.2	18.9	B4	B3		
			--	--	15.9	12.9	B4	B3		
			--	--	15.4	--	B4	B3		
Oregon Creek headwaters to mouth (California Cr - French Cr - Deep)	Oregon 1	7/31/2006	20	12	4.2	22.9	E4b	E3b	89	FAR
			30	25	10.7	12.6	B4	E3b		
			7	5	7.5	32.3	B4/E4b	E3b		
			--	--	7.5	--	E4b	E3b		
			--	--	2.8	--	E4b	E3b		
Pattengail Creek from headwaters to mouth (Wise R)	M03PATGC02 (P-2)	2001	--	--	--	--	--	--	--	--
	Pattengail 1		12	5	22.9	19.2	B3c	B3c	44	FAR
			7	2	70.7		B3c	B3c		
			1	1	31.7		F3	B3c		
			--	--	33.0		B3c	B3c		
			--	--	41.6		B3c	B3c		

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Rochester Creek from headwaters to mouth (Big Hole R)	R-9		--	--	--	--	--	--	--	77% FAR or NF
	RO-32, 39, 43, 56, 57		--	--	--	--	--	--	--	
	Rochester 1	9/18/2006	61	55	14.1	35.7	C5b	E4b	40	NF
			73	52	9.1	27.0	G5/B5	E4b		
			64	46	14.9	28.9	B5	E4b		
			--	--	13.2	30.5	F5b	E4b		
			--	--	18.5	36.9	B5	E4b		
	Rochester 2	9/18/2006	44	30	7.8	34.8	E4	E4	10	NF
			37	23	5.2	39.4	E4	E4		
			63	48	4.6	47.7	B4c/G4c	E4		
			--	--	6.1	38.1	B4c/G4c	E4		
			--	--	10.2	30.4	G4c	E4		
Sawlog Creek tributary to Big Hole R	Sawlog D2	7/21/1994	--	--	7	27.8	B5c	E4	--	NF
	M03SWLGC01	9/13/2003	83	72	--	--	--	--	--	--
	M03SWLGC02	9/13/2003	--	--	--	--	--	--	--	--
	BH-38-2	2002	--	--	--	--	--	--	--	PFC
	Sawlog 1	10/13/2005	57	38	18.8	36.6	C4	E4	22	NF
			60	50	32.0	30.4	B4c	E4		
			39	29	11.4	27.8	C4	E4		
			--	--	2.5	29.5	E4	E4		
			--	--	3.2	29.2	E4	E4		
	Sawlog 2	7/25/2006 & 8/31/2006	92	64	3.3	29.2	E5	E4	75	FAR
			95	61	7.0	--	G5c	E4		
			100	95	6.6	--	B5c/E5	E4		
--			--	3.1	--	G5c	E4			
--			--	1.1	--	E5	E4			
Seven Springs Creek Headwaters to mouth (Browns Gulch-Big Hole R)	No Sediment Data Reported		--	--	--	--	--	--	--	--

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Sevenmile Creek from headwaters to mouth (Deep Cr)	M03SVNM01 (SV-1)	7/9/2001	--	--	--	--	--	--	--	
	M03SVNM02 (SV-2)	7/9/2001	--	--	--	--	--	--	--	
	DL-7	1995	--	--	--	--	--	--	--	PFC
	Sevenmile 1	9/28/2006	26	20	7.8	38.0	E4b	E4b	39	FAR
			15	12	3.6	33.0	B4/G4	E4b		
			25	14	10.0	34.2	G4	E4b		
			--	--	13.8	37.2	B4/G4	E4b		
			--	--	8.2	19.5	E4b	E4b		
	Sevenmile 2	9/7/2006	37	24	4.8	29.3	E4	E4	--	FAR
			40	34	11.4	24.6	G4c	E4		
			46	39	11.6	27.5	B4c	E4		
--			--	85.9	30.6	F4	E4			
--			--	21.4	26.4	C4	E4			
Seymour Creek from headwaters to mouth (Big Hole River)	No Sediment Data Reported		--	--	--	--	--	--	--	--
Sixmile Creek from headwaters to mouth (California Cr)	M03SIXMC01 (S-1)	7/9/2001	--	--	--	--	--	--	--	--
	M03SIXMC02 (S-2)	7/9/2001	--	--	--	--	--	--	--	--
	Sixmile 1	7/31/2006	24	18	12.5	41.4	B4	B4	90	PFC
			19	12	7.6	15.8	B4/G4	B4		
			21	15	10.8	27.9	B4	B4		
			--	--	9.6	28.5	B4	B4		
			--	--	22.3	27.0	C4b	B4		
	Sixmile 2	8/1/2006	26	22	8.9	42.7	G4	E3b	26	NF
			25	22	24.1	44.7	F4b	E3b		
			13	9	4.5	34.7	E4b	E3b		
--			--	10.0	24.7	E4b	E3b			
--			--	23.3	32.9	B4	E3b			

**Table H-1. Sediment and habitat raw data for the Middle and Lower Big Hole TPA.**

Stream Segment	Sample Site	Sample Date	% of Fine Sediment <6mm	% of Fine Sediment <2mm	Channel Width/Depth Ratio	Bank Erosion Hazard Index	Existing Stream Type	Potential Stream Type	Greenline Transect (% Shrubs)	PFC Rating
Soap Creek from headwaters to mouth (Big Hole R)	M03SOAPC01	7/30/2003	36	26	--	--	E4	--	--	100% FAR
	M03SOAPC02	7/30/2003	40	34	--	--	E4	--	--	
	SB-22, 24, 81	--	--	--	--	--	--	--	--	
	Soap 1	7/28/2006	33	25	4.2	30.3	E4a	E3a	--	--
			46	38	10.0	26.9	E4a	E3a		
			53	46	15.6	23.9	B4a	E3a		
			--	--	11.1	29.2	E4a	E3a		
			--	--	12.4	--	E4a	E3a		
	Soap 2	7/25/2006	66	52	11.6	37.4	E5b	E4b	40	NF
			58	35	6.4	--	E5b	E4b		
40			29	11.0	--	E5b	E4b			
--			--	8.5	--	E5b	E4b			
--			--	16.0	--	C5b	E4b			
Trapper Creek from headwaters to mouth (Big Hole R)	Trapper Dn	5/23/1994	15	14	7.7	16.5	A3	A3	--	PFC
	Trapper Up	5/24/1994	29	26	16.7	37.4	F4	E4	--	NF
	Trapper 1	9/22/2005	24	16	5.3	29.2	E4	E4	82	FAR
			19	13	12.3	38.5	B4c	E4		
			20	11	7.9	22.9	E4	E4		
			--	--	6.1	40.6	G4c	E4		
			--	--	8.2	35.2	E4	E4		
	Trapper 2	9/21/2006	37	21	13.8	19.5	C4	E4	74	FAR
			41	28	16.4	20.2	C4	E4		
			43	23	18.2	28.7	C4	E4		
--			--	16.1	29.3	B4c	E4			
--			--	2.8	--	E4	E4			
Twelvemile from headwaters to mouth (Deep Cr)	T-1	2001	--	--	--	--	--	--	--	--
	T-2	2001	--	--	--	--	--	--	--	--
	T-4	2001	--	--	--	--	--	--	--	--
Wickiup Creek Tributary to Camp Cr (Big Hole R)	Data forthcoming									

**Table H-1. Sediment and habitat raw data for the Middle and Lower Big Hole TPA.**

Stream Segment	Sample Site	Sample Date	% of Fine Sediment <6mm	% of Fine Sediment <2mm	Channel Width/Depth Ratio	Bank Erosion Hazard Index	Existing Stream Type	Potential Stream Type	Greenline Transect (% Shrubs)	PFC Rating	
Willow Creek from headwaters to mouth (Big Hole R)	Willow	9/5/1991	19	16	12.9	NA	B3/B4	B4	--	PFC	
	Willow BLM	9/20/1994	23	21	13.8	21	B3c	B3c	--	PFC	
	Willow Down	8/12/1998	27	27	9.7	25.6	B3	B3	--	PFC	
	Willow Mid	8/12/1998	25	23	6	23.8	B3	B3	--	PFC	
	Willow Up	8/12/1998	78	78	7.6	26.2	E5	E4	--	FAR	
	Willow 1			30	19	13.8	41.7	C4	E4	82	FAR
				12	11	17.0	37.3	B4c/F4	E4		
				24	20	33.1	39.4	B4c/F4	E4		
				--	--	16.7	23.1	B4c/F4	E4		
				--	--	9.0	--	E4	E4		
Wise River from headwaters to mouth (Big Hole R)	Wise River	8/30/1994	5	5	31.2	36.5	F4	C3	--	NF	
	Wise 1	10/10/2005	20	10	22.5	34.0	B4c	C4	25	FAR	
			22	12	35.1	30.7	B4c	C4			
			9	4	36.3	36.2	C4	C4			
			--	--	40.3	40.0	C4	C4			
			--	--	33.1	32.5	B4c	C4			
	Wise 2	10/11/2005	11	7	21.7	19.2	C3	C3	78	PFC	
			6	5	15.5	17.9	B3	B3			
			5	3	24.7	24.0	F3	C3			
			--	--	27.9	6.2	B3c	C3			
			--	--	25.0	11.5	B3c	C3			
	Wise 3			10	8	34.7	13.5	C3	C3	82	FAR
				15	13	35.1	--	C3	C3		
				9	7	37.8	--	C3	C3		
				--	--	31.8	--	C3	C3		
--				--	53.4	--	C3	C3			

**Table H-2. Metals and percent abnormal diatom raw data for the Middle and Lower Big Hole TPA**

Stream Segment	Sample Site	Sample Date	Flow (cfs)	Total Recoverable Metal in Water Column (µg/L)						Hardness (mg/L as CaCO <sub>3</sub> )	% Abn. Diatom Cells	Sediment Metals Concentrations (µg/g)							
				As	Cu	Cd	Pb	Zn	Hg			Ag	As	Cu	Cd	Pb	Zn	Hg	Ag
Big Hole River between Divide Cr and Pintlar Cr	Mudd Creek	8/3/2001	123	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-
	Dickie Bridge	8/6-7/2002	217	2.4	0.61	<0.084	<0.15	20.9	-	<0.14	37.0	-	-	-	-	-	-	-	-
	ML05MDBH01	6/6/2005	1000	2	1	<0.1	<1	<0.5	-	<1	35.6	-	-	-	-	-	-	-	-
	ML05MDBH02	6/6/2005	1500	3	2	<0.1	<1	0.8	-	1	37.1	-	-	-	-	-	-	-	-
	ML05MDBH01	8/1/2005	188	4	<1	<0.08	<0.5	<1	<0.05	<1	41.2	-	8.43	35.9	0.68	8.17	43.6	-	<1
	ML05MDBH03	8/1/2005	275	4	<1	<0.08	<0.5	<1	<0.05	<1	58.4	-	6.25	16.2	<0.5	7.22	48.0	-	<1
	ML05MDBH03	8/1/2005	275	-	-	-	-	-	-	-	-	-	8.99	15.4	<0.5	8.20	48.2	-	<1
	ML05MDBH01	5/18/2006	2450	2	2	<0.08	<0.5	1.8	-	<1	21.2	-	-	-	-	-	-	-	-
ML05MDBH03	5/17/2006	3820	3	3	<0.08	0.6	8.1	-	<1	21.9	-	-	-	-	-	-	-	-	
Big Hole River from Divide Cr to the mouth (Jefferson River)	Maiden Rock	8/4/2001	381	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-
	Notch Bottom	8/4/2001	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-
	Notch Bottom	9/9-10/2002	-	2.0	0.46	<0.084	<0.15	17.4	-	-	101.4	-	-	-	-	-	-	-	-
	ML05LWBH01	6/5/2005	2370	3	2	<0.1	<1	1.4	-	<1	42.6	-	-	-	-	-	-	-	-
	ML05LWBH02	6/4/2005	2670	4	3	<0.1	<1	3.8	-	<1	51.2	-	-	-	-	-	-	-	-
	ML05LWBH01	8/2/2005	330	4	<1	<0.08	<0.5	1	<0.05	<1	83.7	-	7.32	28.7	0.66	21.0	101	-	<1
	ML05LWBH02	8/4/2005	327	5	<1	<0.08	<0.5	1	<0.05	<1	115	-	11.4	17.3	0.63	20.9	95.7	-	<1
	ML05LWBH01	5/17/2006	3750	3	2	<0.08	0.6	5	-	<1	28.1	-	-	-	-	-	-	-	-
ML05LWBH02	5/16/2006	2860	3	2	<0.08	<0.5	2.8	-	<1	39.4	-	-	-	-	-	-	-	-	
California Creek from headwaters to mouth (French Cr-Deep Cr)	3124CA01	7/31/1991	~10	72	>2	<0.2	>1	37	-	-	84	-	-	-	-	-	-	-	-
	CF-16	2000	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-
	ML05CALI01	6/6/2005	8.70	10	-	-	-	-	-	-	65.2	-	-	-	-	-	-	-	-
	ML05CALI02	6/6/2005	33.40	18	-	-	-	-	-	-	41.6	-	-	-	-	-	-	-	-
	ML05CALI02	6/6/2005	33.40	17	-	-	-	-	-	-	41.7	-	-	-	-	-	-	-	-
	M03CALC02	7/7/2005	2.16	9	1	<0.1	<0.5	<10	<0.1	<3	77.0	-	17.5	19.8	<0.5	14.4	53	<0.5	<1
	ML03CALC01	7/8/2005	12.22	18	3	-	-	-	-	-	53.0	-	77.2	49	1.81	29	112	-	<1
	ML03CALC03	7/12/2005	17.04	18	2	<0.1	<0.5	<10	-	-	59.0	-	10.4	66.6	0.86	38.4	203	<0.5	<1
	ML05CALI01	8/1/2005	1.10	11	-	-	-	-	-	-	90.5	-	23.4	-	-	-	-	-	-
	ML05CALI02	8/1/2005	4.80	21	-	-	-	-	-	-	77.3	-	45.7	-	-	-	-	-	-
	ML05CALI01	5/18/2006	10.60	11	5	-	-	-	-	-	64.4	-	-	-	-	-	-	-	-
ML05CALI02	5/18/2006	51.10	23	11	-	-	-	-	-	38.5	-	-	-	-	-	-	-	-	

**Table H-2. Metals and percent abnormal diatom raw data for the Middle and Lower Big Hole TPA**

Stream Segment	Sample Site	Sample Date	Flow (cfs)	Total Recoverable Metal in Water Column (µg/L)							Hardness (mg/L as CaCO3)	% Abn. Diatom Cells	Sediment Metals Concentrations (µg/g)						
				As	Cu	Cd	Pb	Zn	Hg	Ag			As	Cu	Cd	Pb	Zn	Hg	Ag
Camp Creek from headwaters to mouth (Big Hole R)	M03CAMPC01	9/14/2003	13.42	26	<1	<0.1	<1	4	-	<1	149	0.0	-	-	-	-	-	-	
	M03CAMPC02	9/15/2003	1.52	17	<1	<0.1	<1	<1	-	<1	114	0.0	27.4	27.2	<0.5	37	82.8	-	<1
	M03CAMPC03	9/15/2003	E 4	11	<1	<0.1	<1	<1	-	<1	50.1	0.0	56.1	29.8	<0.5	17.3	124	-	<1
	ML05CAMP01	6/5/2005	7.40	3	-	-	-	-	-	-	118	-	-	-	-	-	-	-	-
	ML05CAMP02	6/5/2005	4.50	3	-	-	-	-	-	-	43.0	-	-	-	-	-	-	-	-
	ML05CAMP03	6/5/2005	19.80	4	-	-	-	-	-	-	117	-	-	-	-	-	-	-	-
	ML05CAMP01	5/17/2006	10.10	4	2	-	-	-	-	-	<45	-	-	-	-	-	-	-	-
	ML05CAMP02	5/17/2006	7.90	3	-	-	-	-	-	-	<109	-	-	-	-	-	-	-	-
ML05CAMP06	5/17/2006	12.20	3	4	-	-	-	-	-	<50.4	-	-	-	-	-	-	-	-	
Elkhorn Creek headwaters to mouth (Jacobson Cr-Wise R)	SW-1/SE-1	9/15/1993	7.00	<1.12	23.6	<4.59	1.88	159	<0.12	-	22.8	-	7.09	52.9	<0.9	6.68	134	<0.031	-
	SW-4/SE-2	9/15/1993	5.00	<1.12	<2.33	<4.59	<.94	<8.71	<0.12	-	17.3	-	<4	1.83	<0.8	<5.5	19	<0.030	-
	E-1	7/20/2000	6.96	<3	1	<0.1	<3	<10	-	<3	13	-	7	29	<5	12	107	-	<5
	E-9	7/20/2000	8.13	<3	8	<0.1	<3	50	-	<3	19	-	42	565	12	192	1430	-	<5
	M03ELKHC01	7/23/2003	8.10	2	15	0.3	<1	92	-	<1	18.9	11.2	71.6	940	6.98	300	1020	-	4.98
	M03ELKHC02	7/23/2003	7.12	2	10	0.2	<1	52	-	<1	19.3	19.9	38.9	764	13.2	234	1220	-	3.53
	ML05EKHR01	6/6/2005	11.70	-	43	0.6	-	117.4	-	-	15.4	-	-	-	-	-	-	-	-
	ML05EKHR02	6/6/2005	43.10	-	39	0.5	-	110.7	-	-	15.4	-	-	-	-	-	-	-	-
	ML05EKHR01	5/17/2006	29.50	-	54	0.52	-	82.6	-	-	14.2	-	-	-	-	-	-	-	-
ML05EKHR02	5/17/2006	82.20	-	54	0.69	-	99.9	-	-	15.1	-	-	-	-	-	-	-	-	
French Creek from headwaters to mouth (Deep Cr)	ML05FREN01	6/6/2005	10.20	6	3	<0.1	<1	<0.5	-	<1	28.7	-	-	-	-	-	-	-	
	ML05FREN02	6/6/2005	88.00	14	5	<0.1	<1	2.6	-	<1	43.9	-	-	-	-	-	-	-	
	M03FNCHC01	7/6/2005	3.16	5	1	<0.1	<0.5	<10	<0.1	<3	30.0	-	40.9	32.2	<0.5	36.7	84	<0.5	<1
	M03FNCHC04	7/8/2005	36.53	16	2	<0.1	<0.5	<10	<0.1	<3	55.0	-	108	39.5	<0.5	18.7	94	-	<1
	M03FNCHC02	7/6/2005	18.88	16	2	<0.1	<0.5	<10	<0.1	<3	50.00	-	32	30.8	<0.5	14.1	74	<0.5	<1
	M03FNCHC03	7/7/2005	24.84	19	2	<0.1	<0.5	<10	<0.1	<3	52.0	-	28.5	27.4	<0.5	12.1	62	<0.5	<1
	ML05FREN01	8/1/2005	1.20	9	<1	<0.08	<0.5	<1	<0.05	2	45.7	-	32.2	33.8	1.31	30.6	83.9	-	<1
	ML05FREN02	8/2/2005	11.30	26	1	<0.08	<0.5	1	<0.05	<1	68.9	-	56.0	27.1	0.61	12.5	55.1	-	<1
	ML05FREN01	5/18/2006	18.50	7	3	<0.08	<0.5	0.8	-	<1	27.7	-	-	-	-	-	-	-	-
	ML05FREN02	5/18/2006	123.20	14	5	<0.08	0.6	3.2	-	<1	40.4	-	-	-	-	-	-	-	-

**Table H-2. Metals and percent abnormal diatom raw data for the Middle and Lower Big Hole TPA**

Stream Segment	Sample Site	Sample Date	Flow (cfs)	Total Recoverable Metal in Water Column (µg/L)						Hardness (mg/L as CaCO <sub>3</sub> )	% Abn. Diatom Cells	Sediment Metals Concentrations (µg/g)							
				As	Cu	Cd	Pb	Zn	Hg			Ag	As	Cu	Cd	Pb	Zn	Hg	Ag
Jerry Creek from headwaters to mouth (Big Hole R)	M03JERRC01	7/10/2003	7.00	3	<1	<0.1	<1	<1	-	<1	44.1	1.1	5.98	17.5	0.54	15.9	77.1	-	<0.2
	ML05JERR01	6/5/2005	78.70	3	1	<0.1	<1	0.8	-	<1	57.2	-	-	-	-	-	-	-	-
	ML05JERR02	6/5/2005	71.90	3	1	<0.1	<1	0.7	-	<1	68.0	-	-	-	-	-	-	-	-
	M03JERRC02	7/9/2005	21.32	<3	<1	<0.1	<0.5	<10	<0.1	<3	88.0	-	10.6	23.5	<0.5	15.6	87	-	<1
	ML05JERR01	8/3/2005	9.50	3	<1	<0.08	<0.5	<1	<0.05	<1	112	-	15.1	23.6	0.89	19.3	92.8	-	<1
	ML05JERR02	8/3/2005	8.80	3	26	<0.08	1	18	<0.05	<1	118	-	11.4	26.9	0.85	15.8	87.6	-	<1
	ML05JERR02	8/3/2005	8.80	-	-	-	-	-	-	-	-	-	9.67	44.8	0.91	16.8	100	-	<1
	ML05JERR01	5/17/2006	99.00	3	1	<0.08	<0.5	4	-	<1	53.0	-	-	-	-	-	-	-	-
ML05JERR02	5/17/2006	95.00	2	1	<0.08	<0.5	1.5	-	<1	63.9	-	-	-	-	-	-	-	-	
Lost Creek in the Lower Big Hole Watershed	M03LOSTC01	9/13/2003	~1	27	<1	<0.1	<1	<1	-	<1	142	0.3	16.8	14.9	0.8	18.8	79.8	-	<1
	M03LOSTC02	9/14/2003	~2	28	<1	<0.1	<1	<1	-	<1	134	3.9	22.8	15.2	0.7	17.9	80.9	-	<1
	ML05LOST01	6/4/2005	1.20	5	-	-	-	-	-	-	102	-	-	-	-	-	-	-	-
	ML05LOST02	6/4/2005	1.00	5	-	-	-	-	-	-	73.7	-	-	-	-	-	-	-	-
	ML05LOST02	5/16/2006	0.83	6	-	-	-	-	-	-	115	-	-	-	-	-	-	-	-
	ML05LOST03	5/16/2006	0.18	6	-	-	-	-	-	-	125	-	-	-	-	-	-	-	-
Oregon Creek headwaters to mouth (California Cr - French Cr - Deep)	3124OR01	7/29/1991	~2	>44	>5	<0.2	<1	>26	-	-	42	-	-	-	-	-	-	-	-
	ML05ORGN01	6/6/2005	6.60	20	11	<0.1	<1	-	-	-	24.9	-	-	-	-	-	-	-	-
	M03ORGNC01	7/7/2005	1.42	29	5	<0.1	0.5	<10	<0.1	<3	31.0	-	121	89.3	1.87	44.4	194	<0.5	<1
	ML05ORGN01	8/2/2005	0.40	35	3	<0.08	0.6	-	-	-	42.7	-	77.7	106	4.04	62.5	-	0.1	-
	ML05ORGN01	5/18/2006	9.10	20	11	<0.08	<0.5	-	-	-	26.6	-	-	-	-	-	-	-	-
Rochester Creek from headwaters to mouth (Big Hole R)	SE-3	6/15/1993	-	-	-	-	-	-	-	-	-	-	291	66.7	<0.6	204	43	<0.024	-
	R-1	7/18/2000	-	<3	2	<0.1	<3	<10	-	<3	203	-	<5	24	<5	7	48	-	-
	R-3	7/18/2000	-	129	10	0.2	<3	<10	-	<3	218	-	5050	1610	11	1630	155	-	-
	R-9	7/18/2000	-	37	3	<0.1	<3	<10	-	<3	303	-	-	-	-	-	-	-	-
	R-10	7/18/2000	-	38	3	<0.1	<3	<10	-	<3	304	0.0	-	-	-	-	-	-	-
	ML05ROCH01	6/4/2005	0.04	66	7	-	<1	-	<0.1	-	205	-	-	-	-	-	-	-	-
	ML05ROCH02	6/4/2005	0.10	16	2	-	<1	-	<0.1	-	251	-	-	-	-	-	-	-	-
	ML05ROCH01	8/4/2005	0.01E	238	10	-	5.0	-	<0.05	-	226	-	3770	2940	-	1960	-	0.6	-
	ML05ROCH01	8/4/2005	0.01E	245	10	-	5.3	-	<0.05	-	227	-	3040	2800	-	1860	-	0.6	-
	ML05ROCH02	8/4/2005	0.10	23	1	-	<0.5	-	<0.05	-	259	-	1540	619	-	849	-	0.5	-
	ML05ROCH01	5/16/2006	0.005 E	92	20	-	6.2	-	<0.05	-	227	-	-	-	-	-	-	-	-
ML05ROCH02	5/16/2006	0.26	15	2	-	<0.5	-	<0.05	-	269	-	-	-	-	-	-	-	-	



**Table H-2. Metals and percent abnormal diatom raw data for the Middle and Lower Big Hole TPA**

Stream Segment	Sample Site	Sample Date	Flow (cfs)	Total Recoverable Metal in Water Column (µg/L)						Hardness (mg/L as CaCO3)	% Abn. Diatom Cells	Sediment Metals Concentrations (µg/g)							
				As	Cu	Cd	Pb	Zn	Hg			Ag	As	Cu	Cd	Pb	Zn	Hg	Ag
Sassman Gulch from headwaters to mouth (Big Hole R)	M03SASMG01	7/15/2005	E 0.1	<3	2	<0.1	1.4	<10	<0.1	<3	<217	-	39.8	34.3	0.66	17	68	<0.5	<1
	M03SASMG02	7/15/2005	E 0.1	4	3	0.2	1.9	10	<0.1	<3	<244	-	4.8	21	<0.5	12.9	78	<0.5	<1
Sawlog Creek tributary to Big Hole R	M03SWLGC01	9/13/2003	1.50	19	<1	<0.1	<1	<1	-	<1	<109	0.0	-	-	-	-	-	-	-
	M03SWLGC02	9/13/2003	1.00	-	-	-	-	-	-	-	<116	0.0	-	-	-	-	-	-	-
	ML05SWLG01	5/18/2006	3.00	2	-	-	-	-	-	-	<82.2	-	-	-	-	-	-	-	-
	ML05SWLG02	5/18/2006	3.00	2	-	-	-	-	-	-	<84.7	-	-	-	-	-	-	-	-
Trapper Creek from headwaters to mouth (Big Hole R)	ML05TRAP01	6/5/2005	22.70	3	5	0.2	14	73.6	-	<1	90.9	-	-	-	-	-	-	-	-
	ML05TRAP02	6/5/2005	14.20	4	8	0.4	22	103	-	<1	108	-	-	-	-	-	-	-	-
	M03TRAPC01	7/14/2005	13.95	<3	3	<0.1	9	20	<0.1	<3	71	-	52.7	129	5.88	1080	1230	1.9	9.8
	M03TRAPC02	7/15/2005	8.97	3	9	0.4	51.3	130	<0.1	<3	88	-	269	712	39.3	6400	9570	9.4	53.8
	M03TRAPC03	7/15/2005	12.09	4	3	0.1	6.4	30	<0.1	<3	167	-	13.9	85.3	4	370	849	0.6	3.9
	ML05TRAP01	8/4/2005	6.00	3	3	0.15	<0.5	65	<0.05	<1	111	-	312	836	54.4	8700	14200	-	14.6
	ML05TRAP02	8/4/2005	2.70	6	4	0.33	8.0	95	<0.05	<1	156	-	76.4	352	20.3	1680	4140	-	10.3
	ML05TRAP01	5/16/2006	17.50	8	27	0.8	128.0	232.6	-	1	97.3	-	-	-	-	-	-	-	-
Wickiup Creek Tributary to Camp Cr (Big Hole R)	SW2/SE2	8/24/1993	0.43	2.67	1.55	2.57	3.5	13.1	0.2	-	53	-	10.4	12.7	0.8	5.43	27.3	<0.034	-
	SW-1/SE-1	8/24/1993	~0.5	2.18	206	2.57	2.72	7.9	0.45	-	57.2	-	44.4	1650	1.1	41.8	43.7	<0.031	-
	M03WICKC01	6/15/2004	0.49	<3	10	<0.1	<0.5	<1	-	<3	74.0	-	15	450	1.7	10.8	86.4	<0.5	<1
	ML05WICK01	6/5/2005	1.10	-	33	-	-	-	-	-	45.6	-	-	-	-	-	-	-	-
	ML05WICK02	6/5/2005	1.40	-	12	-	-	-	-	-	65.6	-	-	-	-	-	-	-	-
	ML05WICK01	5/17/2006	1.80	-	46	-	-	-	-	-	42.9	-	-	-	-	-	-	-	-
	ML05WICK02	5/17/2006	2.10	-	15	-	-	-	-	-	63.2	-	-	-	-	-	-	-	-
Wise River from headwaters to mouth (Big Hole R)	ML05WISE01	6/6/2005	150.00	<1	10	0.1	<1	28.5	-	<1	15.1	-	-	-	-	-	-	-	-
	ML05WISE02	6/6/2005	400.00	<1	4	<0.1	<1	6.6	-	2	17.2	-	-	-	-	-	-	-	-
	M03WISER01	7/12/2005	58.83	<3	4	<0.1	<0.5	20	<0.1	<3	14.0	-	11.4	55.7	0.74	37	189	<0.5	<1
	M03WISER02	7/13/2005	99.06	<3	2	<0.1	<0.5	<10	<0.1	<3	28.0	-	<3	15.6	<0.5	8.7	76	<0.5	<1
	M03WISER03	7/13/2005	200.00	<3	2	<0.1	<0.5	<10	<0.1	<3	24.0	-	5.7	37.9	0.68	16	220	0.7	<1
	M03WISER04	7/13/2005	90.29	<3	1	<0.1	<0.5	<10	<0.1	<3	35.0	-	<3	12.6	<0.5	7.9	65	<0.5	<1
	ML05WISE01	8/2/2005	25.20	1	3	<0.08	<0.5	22	<0.05	<1	21.4	-	11.7	107	3.86	46.9	337	-	<1
	ML05WISE02	8/2/2005	17.00	1	<1	<0.08	<0.5	1	<0.05	<1	52.7	-	10.4	78.6	1.56	30.1	252	-	<1
	ML05WISE01	5/17/2006	200.00	1	10	0.15	1.1	25.1	-	<1	14.7	-	-	-	-	-	-	-	-
ML05WISE02	5/17/2006	600.00	2	5	0.12	4.7	21.2	-	<1	15.1	-	-	-	-	-	-	-	-	

