

Table 1. Chemical and flow data (cont.)

Date	Flow Weir gpm in 3 ft Rect.	pH field	pH lab	Cond.field uS	Cond.lab uS	Temp. F	Alk(fid) mg/L	Alk(lab) mg/L	Acidity mg/L	Fe T mg/L	Fe D mg/L	Mn T mg/L	Mn D mg/L	Al T mg/L	Al D mg/L	Ca mg/L	Mg mg/L	Sulfate mg/L	TSS mg/L	TDS mg/L	DO mg/L	Acid.Load lb/day	Fe Load lb/day	Acid loading g/m2/d		
32R2A (KL2-1) Old Klondike Mine (B43) 40-33.269, 78-29.989																										
5/22/2001	80		3.3		605	17	0	54	5.7		3.5							165	3.7			52.01	5.49			
9/21/2001	78		3.0		868.0	17.0	0.0	92.0	9.4		6.5							260.0	0.3			86.06	8.80			
11/1/2001	242		3.4		626.0	9.0	0.0	50.0	3.5		3.6							171.0	0.3			145.66	10.25			
3/22/2002	125		3.3		404.0	4.0	0.0	40.0	3.3		1.3							79.0	1.7			60.19	4.98			
6/11/2002	75		3.4		421.0	16.0	0.0	36.0	3.4		1.8							105.0	7.0			32.50	3.03			
9/16/2002	20		3.1		910.0	16.0	0.0	90.0	11.6		7.9							270.0	5.0			21.67	2.79			
3/7/2003	70	0.75	3.4		529.0	40.0	0.0	50.0	4.6		2.3			2.0				127.0	<1.4	222.9		42.10	3.88			
4/3/2003	197	1.5	3.3		462.0	44.0	0.0	36.0	4.8		2.3			1.7				101.0	<1.4	193.0		85.38	11.48			
5/14/2003	150	1.25	3.8		452.0	48.0	0.0	36.0	3.4		2.2			1.2				110.0	11.4	194.0		65.05	6.05			
6/4/2003	622	3.25	3.9	4.0	261.0	10.0	0.0	22.0	4.1		1.4			1.1				74.0	12.9	136.0		164.78	31.01			
7/15/2003	70	0.75	3.5	3.3	578.0	54.0	0.0	66.0	5.9		3.8			1.9				164.0	5.7	264.0		55.58	5.00			
9/29/2003	360	2.25	3.9	3.7	376	56	0	33	3.67		1.64							84	<5.7	160		143.19	15.92			
10/25/2003	70	0.75	3.7	3.3	699	10	0	60	7		4.13			1.67				185	20	297		50.52	5.89			
12/18/2007	81	0.83	3.57	3.3	476		0	48	2.84		2.04							118	<5			47.04	2.78			
3/18/2008	223	1.63	3.5	3.7	350	332	0	40	2.24		1.38			1.36				73	<5			107.39	6.01			
5/20/2008	360	2.25	3.3		330	9.7	0	38													11.5	164.88				
6/20/2008	70	0.75	3.38	3.5	400	490	0	50	3.32		2.66			1.42				108	<5			42.10	2.80			
8/19/2008	63	0.7	3.6		490		0	50														37.98				
9/25/2008	38	0.5																								
10/1/2008	38	0.5	3.32	3	540	582	14	0	53	2.37		3.92		2.36								24.33	1.09			
10/21/2008	38	0.5	3.25		580		10																			
Average(pre)	166		3.6	3.4		553.2	26.2	0.0	51.2	5.4		3.3		1.6				145.8	6.8	209.6		77.3	8.8			
KL2-3 Inflow to pond 1 or VFS																										
12/18/2007			4.1	3.6		401		0	35	2.36		1.83							111	<5						
2/19/2008			3.4				1																			
3/18/2008			3.6	3.8	320	309	0	34	2.24		1.55			1.51					71	<5						
10/1/2008			3.47	3.6	480	522	14	0	38	1.5	3.94			2.37					157	<5						
10/21/2008			3.41	3.1	520	530	10	0	146	1.18	3.92			2.21					170	<5		1.28				
KL2-4 Outflow of VFS																										
12/18/2008			6.4	7.5		390	49	-25	0.39		0.27								98	6				0.38		
2/19/2008			6.1				30																			
3/18/2008			5.1	6.6	340	333	25	51	-14	0.35	1.55			<0.05					70	<5				0.94		
4/15/2008		H pipe	5.8		370		40																			
4/15/2008		V pipe	6.3		390		50																			
5/20/2008			6.4		310		45																			
6/20/2008			6.75	6.9	390	457	100	104	-63	0.15	1.99			<0.05					71	<5				0.13		
10/1/2008			7.14	7.2	480	499	15	90	121	-95	0.14	2.28		0.08					110	<5				0.06		
10/21/2008			7.18	7.5	500	486	11	140	-109	<0.05	2.72			<0.05					91	<5		2.49		0.01		
KL2-4A Final pond out																										
5/20/2008																									0.28	
KL2-4B Bottom outflow channel																										
5/20/2008																										11.3
KL2-5 Final outflow																										
1/15/2008			7.2				30		-22																	
2/19/2008			6.1				30																			
3/18/2008	223		5.8	6.5	320	321	35	41	-6	0.87	2.3			0.64					75	<5			-16.11	2.34		
4/15/2008			5.7		380		60		-26																	
5/20/2008	360		6.4		300		45		-18																	
6/20/2008	70		6.7	7	390	438	75	91	-38	4.18	2.18			1.83					79	26			-32.02	3.52		
8/19/2008	63		6.45	6.64	400		60		-46	2													-34.89	1.52		
10/1/2008	38		6.6	7.3	410	437	15	50	69	-43	5.29	3.19		0.3					131	21			-19.67	2.42		
10/21/2008	38		6.47	6.7	460	447	11	53	-26	5.24	2.73			0.32					152	20.3		2.75	-11.89	2.40		

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Date	Flow Weir gpm in	pH field	pH lab	Cond.field uS	Cond.lab uS	Temp. F	Alk(fld) mg/L	Alk(lab) mg/L	Acidity mg/L	Fe T mg/L	Fe D mg/L	Mn T mg/L	Mn D mg/L	Al T mg/L	Al D mg/L	Ca mg/L	Mg mg/L	Sulfate mg/L	TSS mg/L	TDS mg/L	DO mg/L	Acid.Load lb/day	Fe Load lb/day	Acid loading g/m2/d
32MS3																								
40-33.199, 78-29.761																								
Upstream from KL-1 inflow																								
9/21/2004	1143		3.7		351	12	0		59	4.1		3.2		6.6				102	5.7	194		811.83	56.42	
12/19/2004	603		3.9	3.5	415	3	0		54	5.2		2.7		2.5				124	8.6	219		391.99	37.75	
2/27/2005	793		3.7	3.6	444	0	0		64	8.5		4.1		4.1		15.9		140	<5.7	214		610.97	81.14	
3/19/2005	281		3.9	3.6	471	6	0		51	9.3		4.3		3.6		18.5		137	<5.7	226		172.52	31.46	
4/17/2005	431		3.5		420				70													363.20		
5/9/2005	281		3.1	3.3	641	8	0		78	9.6		5		3.2		19.2		190	<5.7	303		263.86	32.47	
5/17/2008	212		3.4		533				84													214.38		
6/9/2005	212		2.8	3	693	15	0		83	11.6		6.1		3.2				187	<6.2	387		211.83	29.60	
4/15/2008	504	1	3.3		420																			
6/20/2008	327	0.75	2.87	3.6	670	632	0		70	6.83		7.15		2.8				214	21			275.56	26.89	
10/21/2008	153	0.5	2.95	3.1	970	980	9	0	0	146	22.1	9.7		3.81				358	<5			268.62		
32MS2																								
40-33.416, 78-29.920																								
Downstream from KL-2																								
12/19/2004	793		3.7	3.4	536	4	0		58	6.3		4.2		2.9		18.2		162	14	267		553.69	60.14	
2/27/2005	999		3.4	3.5	484	0	0		56	8.4		6		4.4		26.1		172	<5.7	258		673.48	101.02	
3/19/2005	432		3.5	3.4	550	3	0		54	7		4.8		3.1		21.7		162	<5.7	259		280.83	36.40	
5/9/2005	432		3.2	3.3	693	7	0		76	7.4		5.9		3.1		24.2		201	<5.7	339		395.24	38.48	
6/9/2005	281		2.9	3	803	12	0		86	8.2		7		3.3				247	<6.2	466		290.92	27.74	
3/18/2008	1424	2	4.3	4.2	330	330	3		38	3.45		3.4		2.85				109	<5			651.42	59.14	
4/15/2008	817	1.38	4.1	4.2	410	329	3		38	3.45		3.4		2.85				109	<5			373.74	33.93	
6/20/2008	327	0.75	3.61	3.6	560	632	0		70	6.83		7.15		2.8				214	21			275.56	26.89	
10/1/2008	252	0.63	3.16		810		14	0										109	<5					
10/21/2008	214	0.625	3.09	4.3	1010	1010	0	0	146	16.1		13.2		6.33				427	8			375.34		
32MS1																								
Mouth of Little Laurel Run																								
9/21/2004	2236			3.9	383	12	0		31	0.85		3.53		2.98				117	<5.7	194		834.45	22.88	
12/19/2004	1703		3.9	3.7	391	3	0		36	1.01		2.57		1.82		12.5		133	10	246		738.05	20.71	
2/27/2008	1930		3.6	3.9	393	2	0		34	1.02		3.83		2.77		22.4		136	<5.7	204		789.96	23.70	
3/19/2005	999		4	3.8	425	3	0		34	1.53		4.08		2.87				142	<5.7	226		408.90	18.40	
5/9/2005	793		3.2	3.6	492	10	0		44	0.94		4.15		2.87		20.5		154	<5.7	254		420.04	8.97	
5/17/2005	793		3.6		400				56													534.60		
6/9/2005	432		2.9	3.4	546	17	0		47	0.86		5.2		3.2				153	<6.2	319		244.43	4.47	
6/20/2008	498	1.75	3.72		430																			
10/21/2008	301	1.25	3.47	3.6	650	656	9	0	0	69	0.89	9.78		5.18				264	<5			250.21		