TABLE 2.6 SURFACE WATER AND SPRING SAMPLING LOCATIONS	
Sample I.D.	**Location**
SW-1	Drainage (Five O'clock Creek) west of the ore body upstream of Little Mud River.
SW-2	Little Mud River upstream of the confluence of Five O'clock Creek.
SW-3	Little Mud River down stream of the confluence of Five O'clock Creek.
SW-4	Illinois Creek downstream of the spring and upstream of the bridge.
SP-1	Spring South of the ore body.
SP-2	Spring on Illinois Creek.

TABLE 2.5

SUMMARY OF LABORATORY RESULTS OF SURFACE WATER SAMPLES

PARAMETER	UNIT	MW-1A	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	SP-1	SP-2	SW-1	SW-1
DATE SAMPLED		9/21/94	8/19/91	12/15/91	1/20/92	3/05/92	4/16/92	9/21/94	10/13/94*	9/21/94	8/20/91	12/15/91
Gross Alpha Radiation	pCi/l	2 +/- 4						2 +/- 3		3 +/- 3		
Gross Beta Radiation	pCi/l	5 +/- 4						0 +/- 4		5 +/- 4		
Alkalinity as CaCO3	mg/l	94						44		110		
Corbonate as CaCO3	mg/l	0						0		0		
Bicarbonate as CaCO3	mg/l	94						44	44	110		
Hydroxide as CaCO3	mg/l							0				
Calcium, dissolved	mg/l	17					7.77	8	7.08	28		
Calcium, total	mg/l								6.86			
Chloride	mg/l	1						1		1		
Conductivity @ 25C	umhos/cm	204						86		245		
Flouride	mg/l	-0.1						-0.1		-0.1		
Hardness as CaCO3	mg/l	79						45		132		
Magnesium, dissolved	mg/l	9					6.07	6	5.13	15		
Magnisium, total	mg/l								4.82			
Nitrate as N, dissolved	mg/l	0.26						0.4	0.6	0.14		
Nitrate / Nitrite as N	mg/l	0.33						0.4		0.14		
Nitrite as N, dissolved	mg/l	0.07						-0.01		-0.01		
Nitrate as NO3	mg/l	1.1						1.8		0.6		
pH (lab)	units	7.7						7.2		8		
Potassium, dissolved	mg/l	1						-1		-1		
Sodium, dissolved	mg/l	9						1	1.99	2		
SAR in Water		0.44						0.07		0.08		
Sulfate	mg/l	4						2		17		
Solids, total suspended	mg/l		25.4	32	1	2	2				39.6	4
Solids, total dissolved	mg/l	108	617	64	71	58	60	64		138	604	110
TDS Ratio (grav. / calc.)	mg/l	1.13						1.52		1.07		
Anions (sum)	meq/l	1.99						0.89		2.59		
Cations (sum)	meq/l	1.96						0.91		2.69		
Cation Anion Balance	%	-0.76						1.11		1.89		
Aluminum, dissolved	mg/l	-0.05	0.051	0.055	0.19	-0.045	-0.045	-0.05		-0.05	0.16	0.073
Aluminum, total	mg/l	0.56						0.7		-0.05		
Antimony, dissolved	mg/l	-0.001						-0.001		-0.001		
Antimony, total	mg/l	-0.001						-0.001		-0.001		
Arsenic, dissolved	mg/l	0.001	-0.005	-0.001	0.002	-0.001	-0.001	-0.001		0.11	0.018	0.05
Arsenic, total	mg/l	-0.001						0.002		0.122		
Barium, dissolved	mg/l	0.78	-0.05	-0.002	0.003	-0.002	-0.002	-0.01		-0.01	-0.05	0.003
Barium, total	mg/l	0.92						-0.01		-0.01		
Bismuth, dissolved	mg/l		-0.5								-0.5	
Cadmium, dissolved	mg/l	-0.005	-0.0005	-0.004	-0.004	-0.004	-0.004	-0.005		-0.005	-0.0005	-0.004
Cadmium, total	mg/l	-0.005						-0.005		-0.005		
Chromium, disolved	mg/l	-0.01		-0.007	-0.007	-0.007	-0.007	-0.01		-0.01		-0.007
Chromium, total	mg/l	-0.01	-0.05					-0.01		-0.01	-0.05	
Cobalt, dissolved	mg/l	-0.02	-0.05	-0.007	-0.007	-0.007	-0.007	-0.02		-0.02	-0.05	-0.007
Cobalt, total	mg/l	-0.02						-0.02		-0.02		
Copper, dissolved	mg/l	-0.01	-0.05	-0.006	-0.006	-0.006	-0.006	-0.01		-0.01	-0.05	-0.006
Copper, total	mg/l	0.01						-0.01	0.004	-0.01		
Cyanide, total	mg/l		-0.05	-0.01	-0.01	-0.01	-0.01				-0.05	-0.01
Iron, dissolved	mg/l	0.06		0.056	0.045	-0.007	0.009	0.03		-0.02		0.137
Iron, total	mg/l	0.64	-0.05					0.93		0.06	0.34	
Lead, dissolved	mg/l	-0.001	-0.005	-0.042	-0.042	-0.042	-0.042	-0.001		-0.005	-0.005	-0.042
Lead, total	mg/l	0.003						0.002		0.007		
Manganese, dissolved	mg/l	0.01	-0.013	0.004	0.002	-0.002	-0.002	-0.01		-0.01	0.032	0.019
Manganese, total	mg/l	0.04						0.02		-0.01		
Mercury, dissolved	mg/l	-0.0002	-0.0002	0.0002	0.0003	-0.0002	-0.0002	-0.002		-0.0002	-0.0002	0.0003
Mercury, total	mg/l	0.0006						-0.002		-0.0002		
Molybdenum, dissolved	mg/l	-0.01						-0.01		-0.01		
Molybdenum, total	mg/l	-0.01						-0.01		-0.01		
Nickel, dissolved	mg/l	-0.02						-0.02		-0.02		
Nickel, total	mg/l	-0.02						-0.02		-0.02		
Selenium, dissolved	mg/l	-0.001	-0.005	-0.002	-0.002	-0.002	-0.002	-0.001		-0.001	-0.005	-0.002
Selenium, total	mg/l	-0.001						-0.001		-0.001		
Silver, dissolved	mg/l	-0.01						-0.01		-0.01		
Silver, total	mg/l	-0.01						-0.01		-0.01		
Uranium, dissolved	mg/l	-0.001						-0.001		-0.001		
Uranium, total	mg/l	-0.001						-0.001		-0.001		
Vanadium, dissolved	mg/l	-0.01						-0.01		-0.01		
Vanadium, total	mg/l	-0.01						-0.01		-0.01		
Zinc, dissolved	mg/l	0.05	-0.05	0.004	0.002	-0.002	-0.002	0.01		-0.01	-0.05	0.01
Zinc, total	mg/l	0.11						0.01	0.009	0.02		

TABLE 2.5

SUMMARY OF LABORATORY RESULTS OF SURFACE WATER SAMPLES

PARAMETER	UNIT	SW-1	SW-1	SW-1	SW-1	SW-1	SW-2	SW-2	SW-2	SW-2	SW-2
DATE SAMPLED		1/20/92	3/05/92	5/23/92	4/16/92	9/21/94	8/20/91	12/15/91	1/20/92	3/05/92	4/16/92
Gross Alpha Radiation	pCi/l					0 +/- 13					
Gross Beta Radiation	pCi/l					13 +/- 19					
Alkalinity as CaCO3	mg/l					10					
Corbonate as CaCO3	mg/l					0					
Bicarbonate as CaCO3	mg/l					10					
Hydroxide as CaCO3	mg/l										
Calcium, dissolved	mg/l		18.7			3					26.4
Calcium, total	mg/l										
Chloride	mg/l					1					
Conductivity @ 25C	umhos/cm					31					
Flouride	mg/l					-0.1					
Hardness as CaCO3	mg/l					12					
Magnesium, dissolved	mg/l		10.7			1					15.2
Magnisium, total	mg/l										
Nitrate as N, dissolved	mg/l					0.13					
Nitrate / Nitrite as N	mg/l					0.13					
Nitrite as N, dissolved	mg/l					-0.01					
Nitrate as NO3	mg/l					6					
pH (lab)	units					6.3					
Potassium, dissolved	mg/l					-1					
Sodium, dissolved	mg/l					1					
SAR in Water						0.13					
Sulfate	mg/l					-2					
Solids, total suspended	mg/l	8.5	14	98	3		66.4	-1	1	1	-1
Solids, total dissolved	mg/l	87	86	54	100	12	589	144	140	140	140
TDS Ratio (grav. / calc.)	mg/l					1.2					
Anions (sum)	meq/l					0.19					
Cations (sum)	meq/l					0.25					
Cation Anion Balance	%					13.64					
Aluminum, dissolved	mg/l	0.08	0.095	0.738	-0.045	0.24	0.038	-0.045	0.11		-0.045
Aluminum, total	mg/l					0.4					
Antimony, dissolved	mg/l					-0.001					
Antimony, total	mg/l					-0.001					
Arsenic, dissolved	mg/l	0.016	0.018	0.004	0.034	-0.001	0.073	0.104	0.098		0.104
Arsenic, total	mg/l					-0.001					
Barium, dissolved	mg/l	0.005	0.002	0.014	0.004	0.02	-0.05	-0.002	-0.002		-0.002
Barium, total	mg/l					0.02					
Bismuth, dissolved	mg/l						-0.5				
Cadmium, dissolved	mg/l	-0.004	-0.004	0.005	-0.004	-0.005	-0.0005	-0.004	-0.004		-0.004
Cadmium, total	mg/l					-0.005					
Chromium, disolved	mg/l	-0.007	-0.007	-0.007	-0.007	-0.01		-0.007	-0.007		-0.007
Chromium, total	mg/l					-0.01	-0.05				
Cobalt, dissolved	mg/l	-0.007	-0.007	-0.007	-0.007	-0.02	-0.05	-0.007	-0.007		-0.007
Cobalt, total	mg/l					-0.02					
Copper, dissolved	mg/l	-0.006	-0.006	-0.006	-0.006	-0.01	-0.05	-0.006	-0.006		-0.006
Copper, total	mg/l					-0.01					
Cyanide, total	mg/l	-0.01	-0.01	-0.01	-0.01		-0.05	-0.01	-0.01		-0.01
Iron, dissolved	mg/l	0.14	0.224	1.16	0.076	0.66		-0.007	-0.007		-0.007
Iron, total	mg/l					1.15	-0.05				
Lead, dissolved	mg/l	-0.042	-0.042	-0.042	-0.042	-0.001	-0.005	-0.042	-0.042		-0.042
Lead, total	mg/l					0.002					
Manganese, dissolved	mg/l	0.016	0.02	0.187	0.01	0.04	-0.013	-0.002	-0.002		-0.002
Manganese, total	mg/l					0.05					
Mercury, dissolved	mg/l	0.0004	-0.0002	0.0003	-0.0002	-0.0002	-0.0002	0.0004	0.001		-0.0002
Mercury, total	mg/l					-0.0002					
Molybdenum, dissolved	mg/l					-0.01					
Molybdenum, total	mg/l					-0.01					
Nickel, dissolved	mg/l					-0.02					
Nickel, total	mg/l					-0.02					
Selenium, dissolved	mg/l	-0.002	-0.002	-0.002	-0.002	-0.001	-0.005	-0.002	-0.002		-0.002
Selenium, total	mg/l					-0.001					
Silver, dissolved	mg/l					-0.01					
Silver, total	mg/l					-0.01					
Uranium, dissolved	mg/l					-0.001					
Uranium, total	mg/l					-0.001					
Vanadium, dissolved	mg/l					-0.01					
Vanadium, total	mg/l					-0.01					
Zinc, dissolved	mg/l	0.004	0.005	0.007	0.003	0.02	-0.05	0.007	0.005		0.005
Zinc, total	mg/l					0.02					

NOTE: 1)MW=MONITORING WELL, SP=SPRING, SW=SURFACE WATER 2)NEGATIVE SIGN "-" DENOTES A VALUE OF LESS THAN "<".

TABLE 2.5

SUMMARY OF LABORATORY RESULTS OF SURFACE WATER SAMPLES

PARAMETER	UNIT	SW-2	SW-2	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-3	SW-4	SW-4
DATE SAMPLED		5/23/92	9/21/94	8/20/91	12/15/91	1/20/92	3/05/92	4/16/92	5/23/92	9/21/94	9/21/94	10/13/94*
Gross Alpha Radiation	pCi/l		2 +/- 2							0.2 +/- 2	3 +/- 3	
Gross Beta Radiation	pCi/l		0 +/- 4							5 +/- 4	5 +/- 4	
Alkalinity as CaCO3	mg/l		30							42	65	73
Corbonate as CaCO3	mg/l		0							0	0	
Bicarbonate as CaCO3	mg/l		30							42	65	
Hydroxide as CaCO3	mg/l		0							0		
Calcium, dissolved	mg/l		10					19.8		10	15	14.7
Calcium, total	mg/l											15.3
Chloride	mg/l		2							-1	-1	
Conductivity @ 25C	umhos/cm		74							74	138	
Flouride	mg/l		-0.1							0.1	-0.1	
Hardness as CaCO3	mg/l		37							37	70	
Magnesium, dissolved	mg/l		3					11.2		3	8	7.8
Magnisium, total	mg/l											7.15
Nitrate as N, dissolved	mg/l		0.16							0.16	0.13	0.3
Nitrate / Nitrite as N	mg/l		0.16							0.16	0.13	
Nitrite as N, dissolved	mg/l		-0.01							-0.01	-0.01	
Nitrate as NO3	mg/l		0.7							0.7	6	
pH (lab)	units		7							7	7.7	
Potassium, dissolved	mg/l		-1							-1	-1	
Sodium, dissolved	mg/l		1							1	1	1.66
SAR in Water			0.07							0.07	0.05	
Sulfate	mg/l		10							-2	3	
Solids, total suspended	mg/l	-1		30.6	-1	2.5	8	1	80			
Solids, total dissolved	mg/l	120	48	522	88	110	95	110	62	40	64	
TDS Ratio (grav. / calc.)	mg/l		1.09							1.11	0.98	
Anions (sum)	meq/l		0.87							0.77	1.34	
Cations (sum)	meq/l		0.76							0.76	1.42	
Cation Anion Balance	%		-6.75							-0.65	2.9	
Aluminum, dissolved	mg/l	-0.045	-0.05	0.16	-0.045	0.2	-0.045	-0.045	0.689	-0.05	-0.05	
Aluminum, total	mg/l		0.21							0.4	0.1	
Antimony, dissolved	mg/l		-0.001							-0.001	-0.001	
Antimony, total	mg/l		-0.001							-0.001	-0.001	
Arsenic, dissolved	mg/l	0.056	-0.001	-0.005	0.014	0.051	0.064	0.042	0.003	0.001	0.013	
Arsenic, total	mg/l		-0.001							0.002	0.017	
Barium, dissolved	mg/l	-0.002	0.02	-0.05	0.003	0.004	-0.002	0.003	0.013	0.02	-0.01	
Barium, total	mg/l		0.02							0.03	-0.01	
Bismuth, dissolved	mg/l			-0.5								
Cadmium, dissolved	mg/l	-0.004	-0.005	-0.0005	-0.004	-0.004	-0.004	-0.004	-0.004	-0.005	-0.005	
Cadmium, total	mg/l		-0.005							-0.005	-0.005	
Chromium, disolved	mg/l	-0.007	-0.01		-0.007	-0.007	-0.007	-0.007	-0.007	-0.01	-0.01	
Chromium, total	mg/l		-0.01	-0.05						-0.01	-0.01	
Cobalt, dissolved	mg/l	-0.007	-0.02	-0.05	-0.007	-0.007	-0.007	-0.007	-0.007	-0.02	-0.02	
Cobalt, total	mg/l		-0.02							-0.02	-0.02	
Copper, dissolved	mg/l	-0.006	-0.01	-0.05	-0.006	-0.006	-0.006	-0.006	-0.006	-0.01	-0.01	
Copper, total	mg/l		-0.01							-0.01	-0.01	
Cyanide, total	mg/l	-0.01		-0.05	-0.01	-0.01	-0.01	-0.01	-0.01			
Iron, dissolved	mg/l	-0.007	1.15		0.152	0.084	0.052	0.065	1.14	1.18	0.05	
Iron, total	mg/l		2.15	0.27						2.45	0.18	
Lead, dissolved	mg/l	-0.042	-0.001	-0.005	-0.042	-0.042	-0.042	-0.042	-0.042	-0.001	-0.001	
Lead, total	mg/l		-0.005							0.002	-0.001	
Manganese, dissolved	mg/l	0.002	0.05	0.03	0.026	0.009	0.003	0.008	0.183	0.05	-0.01	
Manganese, total	mg/l		0.08							0.09	-0.01	
Mercury, dissolved	mg/l	0.0004	-0.0002	-0.0002	0.0003	0.0004	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002	
Mercury, total	mg/l		-0.0002							-0.0002	-0.0002	
Molybdenum, dissolved	mg/l		-0.01							-0.01	-0.01	
Molybdenum, total	mg/l		-0.01							-0.01	-0.01	
Nickel, dissolved	mg/l		-0.02							-0.02	-0.02	
Nickel, total	mg/l		-0.02							-0.02	-0.02	
Selenium, dissolved	mg/l	-0.002	-0.001	-0.005	-0.002	-0.002	-0.002	-0.002	-0.002	-0.001	-0.001	
Selenium, total	mg/l		-0.001							-0.001	-0.001	
Silver, dissolved	mg/l		-0.01							-0.01	-0.01	
Silver, total	mg/l		-0.01							-0.01	-0.01	
Uranium, dissolved	mg/l		-0.001							-0.001	-0.001	
Uranium, total	mg/l		-0.001							-0.001	-0.001	
Vanadium, dissolved	mg/l		-0.01							-0.01	-0.01	
Vanadium, total	mg/l		-0.01							-0.01	-0.01	
Zinc, dissolved	mg/l	0.007	-0.01	-0.05	0.006	0.004	0.005	0.007	0.006	-0.01	-0.01	
Zinc, total	mg/l		0.01							0.02	0.01	0.013

NOTE: 1)MW=MONITORING WELL, SP=SPRING, SW=SURFACE WATER 2)NEGATIVE SIGN "-" DENOTES A VALUE OF LESS THAN "<".