

Appendix E8. Groundwater Inflow and Pumping Rates from Underground Test Mine

Date	Time	Measured Pump Flow (sec/20L)	Measured Pump Flow (L/min)	Pump Operation (hr/day)	Calculated Pump Flow (L/day)	Calculated Pump Flow (m <sup>3</sup> /day)	Comments
7/11/2005	12:02PM	64	19	15	16,928	17	
7/14/2005	9:01PM	61	20	15	17,705	18	
7/22/2004	7:57PM	23	51	15	46,154	46	
7/24/2005	9:47PM	23	53	15	47,368	47	
7/25/2005	10:04PM	24	50	15	45,000	45	
7/27/2005	10:00AM	28	42	15	38,028	38	
7/28/2005	5:15PM	28	43	15	39,130	39	See Note 1
7/29/2005	5:29PM	24	51	15	45,763	46	
8/1/2005	10:38PM	25	48	15	43,373	43	
8/6/2005	9:18PM	22	55	15	49,091	49	
8/9/2005	5:33PM	123	10	14	8,195	8	See Note 2
8/11/2005	11:00AM	9	129	14	108,387	108	
8/12/2005	8:37AM	26	46	14	38,769	39	
8/13/2005	2:52PM	11	107	14	89,600	90	
8/14/2005	8:34PM	10	120	14	100,800	101	
8/17/2005	2:15PM	10	121	14	101,808	102	
8/19/2005	11:20AM	12	97	14	81,396	81	
8/20/2005	10:00AM	11	108	14	90,745	91	
8/21/2005	10:35AM	11	105	14	88,200	88	
8/23/2005	11:20AM	7.8	152.9	14	128419.2	128.42	
8/24/2005	10:44AM	11.0	109.2	14	91686	91.69	
8/25/2005	5:02PM	9.6	124.5	14	104588.4	104.59	
8/26/2005	10:25AM	11.3	105.9	14	88956	88.96	
8/27/2005	10:11AM	8.2	145.8	14	122505.6	122.51	Flow just began. Constant/strong.
8/29/2005	9:00AM	13.2	91.1	14	76549.2	76.55	
8/30/2005	5:30PM	10.4	115.7	7	48598.2	48.60	No deisel 3m - 1pm (Trent)
8/31/2005	10:00AM	12.3	97.9	14	82202.4	82.20	
9/1/2005	10:30AM	8.2	145.9	8	70008	70.01	
9/2/2005	11:00AM	8.1	148.3	14	124597.2	124.60	
9/3/2005	2:00PM						No flow during day, pumped at night
9/4/2005	10:57AM						Min. flow, 5 min did not fill sus.amt.
9/5/2005	10:40AM		83.6	14	70224	70.22	
9/6/2005	9:53PM		63.2	14	53088	53.09	
9/7/2005	7:21PM		94.1	14	79044	79.04	
9/8/2005	8:40PM		69.7	14	58548	58.55	
9/9/2005	9:04PM		95.1	14	79884	79.88	
9/10/2005	8:18PM		43.0	14	36086.4	36.09	
9/11/2005	12:13PM		119.9	14	100716	100.72	
9/12/2005	7:13PM		38.1	14	32004	32.00	
9/13/2005	4:35PM		180.7	14	151779.6	151.78	
9/14/2005	4:00PM		43.1	14	36162	36.16	
9/15/2005	5:43PM		76.5	14	64243.2	64.24	
9/16/2005	4:49PM		64.3	14	54012	54.01	
9/17/2005	2:56PM		90.0	14	75574.8	75.57	
9/18/2005	5:40PM		125.7	14	105600.6	105.60	
9/19/2005	6:01PM		54.8	14	46032	46.03	
9/22/2005	5:20PM		37.8	14	31752	31.75	
9/23/2005	6:09PM		45.7	14	38388	38.39	
9/24/2005	5:29PM		48.1	14	40416.6	40.42	
9/25/2005	3:26PM		50.7	14	42546	42.55	
9/26/2005	5:29PM						
9/27/2005	2:30PM		56.4	14	47376	47.38	
9/28/2005	4:34PM		57.7	14	48434.4	48.43	
9/29/2005	11:39AM		35.4	14	29736	29.74	
9/30/2005	6:27PM		46.0	14	38631.6	38.63	
10/1/2005	11:24AM		38.6	14	32457.6	32.46	
10/2/2005	11:50AM		42.5	14	35666.4	35.67	
10/3/2005	1:39PM		42.4	14	35632.8	35.63	
10/4/2005	11:34AM		48.4	14	40622.4	40.62	
10/5/2005	5:39PM		42.4	14	35632.8	35.63	
10/6/2005							
10/7/2005	9:50AM		41.4	14	34759.2	34.76	
10/8/2005	10:00AM		62.5	14	52487.4	52.49	
10/9/2005	9:00AM		53.3	14	44755.2	44.76	
10/10/2005	11:00AM		58.2	14	48888	48.89	
10/11/2005	5:30PM		72.9	14	61236	61.24	
10/12/2005	5:37PM		52.8	14	44352	44.35	
10/13/2005	1:00PM		55.2	14	46368	46.37	
10/14/2005	1:53PM		50.0	14	42000	42.00	
10/15/2005	6:18PM		41.8	14	35112	35.11	
10/16/2005	9:35AM		58.3	14	48972	48.97	
10/17/2005	2:30PM		58.2	14	48888	48.89	
10/18/2005	2:29PM		44.3	14	37212	37.21	
10/19/2005	9:29AM		60.5	14	50820	50.82	
10/21/2005	10:28AM		46.5	14	39060	39.06	
10/22/2005	9:56AM		64.0	14	53760	53.76	
10/23/2005	6:10PM		58.9	14	49476	49.48	
10/24/2005	5:45PM				0	0.00	Water level over inflow valve
10/25/2005	6:41PM		58.2	14	48888	48.89	
10/27/2005	4:45PM		52.4	14	44016	44.02	
10/28/2005	5:15PM		41.9	14	35196	35.20	
10/29/2005	4:30PM		125.8	14	105672	105.67	
10/30/2005	4:00PM		54.9	14	46116	46.12	
10/31/2005	3:45PM		67.8	14	56952	56.95	
11/2/2005	4:00PM		49.8	14	41832	41.83	

Notes:

- 1) Additional pumping of 36,000L (150L/minute x 4hours) of rainwater from trench.
- 2) Pump at face turned off but electrical pump at underground sump on.
- 3) Pump flow measurements and operating times recorded by Yukon Zinc staff.