

# Appendix C

## Estimated Construction Site Water Consumption - non potable

Work Area	Units	1/3/08	1/4/08	1/5/08	1/6/08	1/7/08	1/8/08	1/9/08	1/10/08	1/11/08	1/12/08	1/1/09	1/2/09	1/3/09	1/4/09	1/5/09	1/6/09	1/7/09	1/8/09	1/9/09	1/10/09	1/11/09	1/12/09
Wet Season - lower consumption																							
<b>EARTHWORKS</b>																							
Haul Roads	KL/day	300	600	900	900	900	900	900	900	700	300	250	300	450	900	600	400	300	300				
(30KL water truck - 10 refills/day) Range from 1 to 3 trucks	ML/mth	6.6	15.6	23.4	23.4	23.4	23.4	23.4	23.4	18.2	6	4.5	7.2	10.8	23.4	15.6	10.4	7.8	7.8				
Condition Embankment Materials	KL/day		300	300	600	900	900	900	900	400	300	250	300	400									
(30KL water truck - 10 refills/day) Range from 1 to 3 trucks	ML/mth	0	7.8	7.8	15.6	23.4	23.4	23.4	23.4	10.4	6	4.5	7.2	9.6	0	0	0	0	0	0	0	0	0
Top 600 & Trimming	KL/day	0	0	0	0	0	45	100	100	45	20	20	20	30	75								
	ML/mth	0	0	0	0	0	1.17	2.6	2.6	1.17	0.4	0.36	0.48	0.72	1.95	0	0	0	0	0	0	0	0
Access Roads	KL/day								120	120	120	120	120	120	120	120	120	120	80	60			
	ML/mth	0	0	0	0	0	0	0	3.12	3.12	2.4	2.16	2.88	2.88	3.12	3.12	3.12	3.12	2.08	1.56	0	0	0
Batter protection (hydromulching)	KL/day						400	400	400						300	900	900	900	900	900	900	600	300
(30KL water truck - 10 refills/day)	ML/mth	0	0	0	0	0	10.4	10.4	10.4	0	0	0	0	0	7.8	23.4	23.4	23.4	23.4	23.4	23.4	15.6	6
<b>STRUCTURES &amp; WORKSHOP</b>																							
2 x Creek Crossings	KL/day			3	3	3	3	3	3	3	3	3	3	3	3	3							
	ML/month	0	0	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.06	0.054	0.072	0.072	0.078	0.078	0	0	0	0	0	0	0
Bridges	KL/day			3	3	3	3	3	3	3	6	6	6	6	6	6	6	3	3	3	3		
	ML/month	0	0	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.12	0.108	0.144	0.144	0.156	0.156	0.156	0.078	0.078	0.078	0.078	0	0
QR Sheds	KL/day				3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
	ML/month	0	0	0	0.078	0.078	0.078	0.078	0.078	0.078	0.06	0.054	0.072	0.072	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0
Workshop & Washdowns	KL/day	10	10	10	10	10	10	10	10	15	15	15	15	15	10	10	10	10	10	10	10	10	10
	ML/month	0.22	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.39	0.3	0.27	0.36	0.36	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
<b>STRUCTURES</b>																							
	KL/day	10	10	16	19	19	19	19	19	24	27	27	27	27	22	22	19	16	16	16	16	10	0
	ML/mth	0.22	0.26	0.416	0.494	0.494	0.494	0.494	0.494	0.624	0.54	0.486	0.648	0.648	0.572	0.572	0.494	0.416	0.416	0.416	0.416	0.26	0
<b>DAILY TOTAL (KL)</b>	KL/day	310	910	1216	1519	1819	2264	2319	2439	1289	767	667	767	1027	1417	1642	1439	1336	1296	976	916	610	300
Work days in month	days	22	26	26	26	26	26	26	26	26	20	18	24	24	26	26	26	26	26	26	26	26	20
<b>MONTHLY TOTAL (ML)</b>	ML/mth	6.8	23.7	31.6	39.5	47.3	58.9	60.3	63.4	33.5	15.3	12.0	18.4	24.6	36.8	42.7	37.4	34.7	33.7	25.4	23.8	15.9	6.0
<b>ACCUMULATIVE QTY USED</b>	ML	6.8	30.5	62.1	101.6	148.9	207.7	268.0	331.5	365.0	380.3	392.3	410.7	435.4	472.2	514.9	552.3	587.1	620.8	646.1	669.9	685.8	691.8
<b>FLOW RATE (24hr/day)</b>	Ltrs/Sec	3.59	10.53	14.07	17.58	21.05	26.20	26.84	28.23	14.92	8.88	7.72	8.88	11.89	16.40	19.00	16.66	15.46	15.00	11.30	10.60	7.06	3.47

### NOTES

- Does not include potable water for Site Camp or Site Office consumption
- Water Consumption based on single 12hr shift, 6 day working week
- Haul Roads - Ranging from 1 - 3 x 30KL semi water trucks @ 10 refills each per day
- Earthwork Conditioning - Ranging from 1 - 3 x 30KL Moxie trucks @ 10 refills each per day