

Attachment G

Table E.3.4-1 - Summary of Copper Water Quality in the Kilarc Development

E.3 PROJECT IMPACT TABLE

Table E.3.4-1. Summary of Copper Water Quality in the Kilarc and Cow Creek Developments

Sample	2003 Sample Date	Measured Values ¹		Water Quality Objectives for Cu ²			Related Water Quality Measurements ³		
		Total Copper (µg/L)	Dissolved Copper (µg/L)	Basin Plan Objective (µg/L)	Acute Concentration (µg/L)	Chronic Concentration (µg/L)	Hardness (mg/L)	pH	Alkalinity (mg/L)
<i>Kilarc Development</i>									
NC1	March	0.11	0.07	3.25	3.3	2.5	21.8	7.98	21
	October	<0.003	<0.003	7.11	7.5	5.3	51.9	8.10	54.4
CC1	March	0.09	0.06	6.82	7.2	5.1	49.5	7.79	57.8
	October	<0.003	<0.003	6.93	7.3	5.2	50.4	7.92	52.1
CC2	March	0.62	0.05	4.62	4.8	3.5	32.2	7.85	37
	October	<0.003	<0.003	4.40	4.6	3.4	30.5	7.80	29.8
OC1	March	0.077	0.044	3.61	3.7	2.8	24.5	7.89	30
	October	<0.003	<0.003	6.82	7.2	5.1	49.5	8.06	44.8
OC3	March	0.384	0.162	3.99	4.1	3.1	27.4	7.75	33
	October	0.174	0.23	6.82	7.2	5.1	49.5	8.07	48.7
KF1	March	0.088	0.088	3.34	3.4	2.6	22.5	8.00	28
	October	<0.003	0.047	6.75	7.1	5.1	49.0	8.28	58.8
OC4	March	0.158	0.077	3.61	3.7	2.8	24.5	7.95	27
	October	<0.003	0.037	6.88	7.3	5.2	50.0	8.24	46.5
<i>Cow Creek Development</i>									
MC1	March	0.706	0.451	7.36	7.8	5.5	53.9	7.27	61
	October	0.13	0.095	11.35	12.3	8.3	87.0	8.10	80.5
SC1	March	0.309	0.187	3.99	4.1	3.1	27.4	7.55	32
	October	0.068	0.18	7.00	7.4	5.2	51.0	7.88	48.1
SC4	March	0.457	0.238	4.89	5.1	3.7	34.3	7.77	38
	October	0.056	0.163	9.04	9.7	6.7	67.6	7.89	63.2
SC5	March	0.478	0.248	5.02	5.2	3.8	35.3	7.65	42
	October	0.093	0.191	9.04	9.7	6.7	67.6	7.85	65
CCF1	March	0.309	0.275	4.12	4.3	3.2	28.4	7.23	34
	October	0.056	0.116	8.09	8.6	6.0	59.8	7.82	58

Notes

- ¹ Samples collected in March and October 2003.
- ² Calculated values. Copper water quality objective varies based on an empirical formula that takes hardness of the water into account. Therefore, Basin Plan objectives for copper vary based on hardness (RWQCB, 2007).
- ³ Calculated values. Similar to the Basin Plan, NOAA provides a formula for calculation of criterion based on variability of hardness (Buchman 2004).

