

The three basin and three chemical parameters used as explanatory variables in the analytical model are in Table 0.1.

Table 0.1: Winters Creek: explanatory variable values for analytical model.

Year	Stream Length	Drainage Density	ChannelSlope	NO ₃	SO ₄	pH
2004	51.13	1.30	1.76	0.50	170	6.81
2005	51.13	1.30	1.76	0.27	180	8.26
2006	51.13	1.30	1.76	0.30	150	7.78
2011	51.13	1.30	1.76	0.10	150	7.84
2012	51.13	1.30	1.76	0.14	120	7.70
2013	51.13	1.30	1.76	0.14	120	7.70