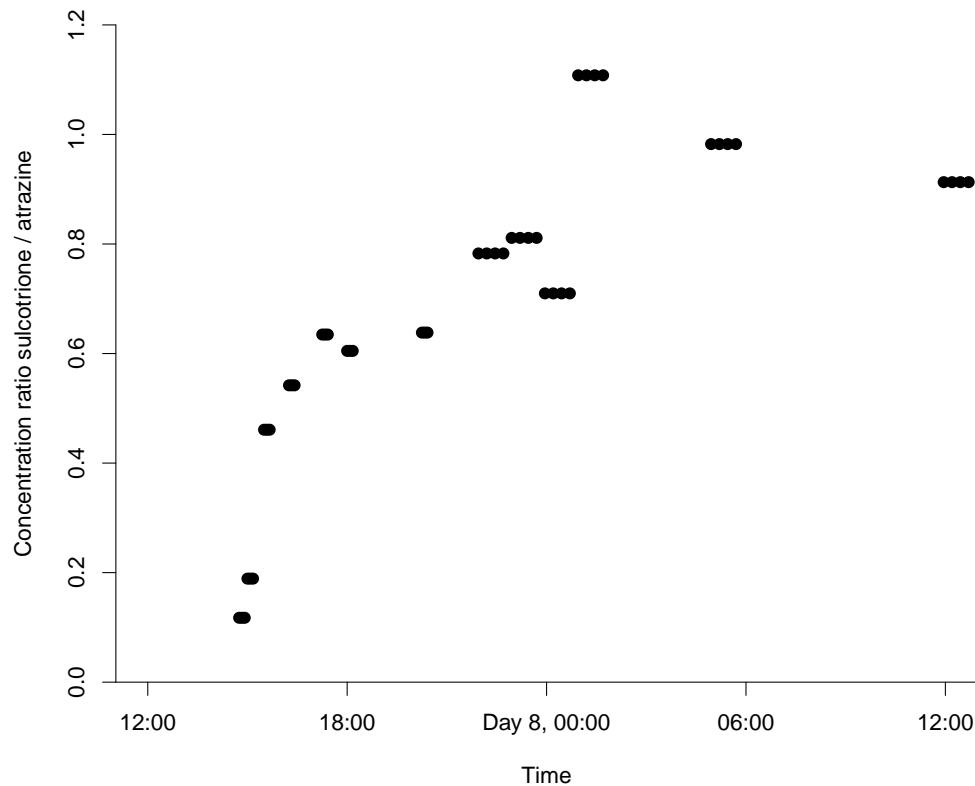


**Fig. S1.**  $K_d$  values for three substances on two experimental fields over two month after application.  $K_d$  of atrazine on field 4 at day 60 is  $22.5 \text{ } 1 \text{ kg}^{-1}$ ; pore water concentration of sulcotrione on field 6 at day 60 was below detection limit.



**Fig. S2.** Concentration ratio sulcotrione / atrazine at station  $O_u$  during event E2 (26 June 2009, seven days after application).