

Table S5. Groundwater stable isotope ratios and ancillary water-quality analytes

Site ID	Sample date	Land cover	N-15	O-18	NO <sub>3</sub>	HCO <sub>3</sub>	TOC
RP	16 Nov 2010	clayey field	0.9	22.6	0.4	65.1	5.9
RP	10 Dec 2009	clayey field	3.75	33.9	1.9	65.1	5.9
RP	19 May 2009	clayey field	3.83	2.6	1.3	65.1	5.9
FN	16 Nov 2010	clayey grass	4.78	20	3.9	93.9	8.4
FN	10 Dec 2009	clayey grass	8.89	38.2	7.4	93.9	8.4
FN	19 May 2009	clayey grass	8.06	7.9	4.3	93.9	8.4
G34	19 May 2009	clayey grass	13.29	12.7	2.1	87.2	7.5
DRP	16 Nov 2010	feedlot	14.94	25.3	10.4	81.1	9.0
G8	16 Nov 2010	feedlot	17.25	16.8	1.3	92.9	7.5
SPN	16 Nov 2010	feedlot	0.61	20.2	1.9	33.2	7.1
FLE	16 Nov 2010	feedlot	1.79	16.2	3.9	88.2	19.4
FLW	16 Nov 2010	feedlot	6.7	18.2	7.8	60.2	20.9
FLE	10 Dec 2009	feedlot	42.22	30.8	3.7	88.2	19.4
FLW	10 Dec 2009	feedlot	29.38	27.9	5.2	60.2	20.9
G8	10 Dec 2009	feedlot	33.27	23.0	1.0	92.9	7.5
DRP	19 May 2009	feedlot	15.44	8.8	2.6	81.1	9.0
E	16 Nov 2010	sandy field	2.97	18.5	13.3	56.9	9.0
NE	16 Nov 2010	sandy field	0.63	19.2	17.2	51.6	6.7
CN	10 Dec 2009	sandy field	2.48	18.7	55.3	58.3	24.5
E	10 Dec 2009	sandy field	5.66	52.8	13.0	56.9	9.0
NE	10 Dec 2009	sandy field	3.41	30.3	15.8	51.6	6.7
CN	19 May 2009	sandy field	1.69	5.1	24.8	58.3	24.5
E	19 May 2009	sandy field	2.71	1.6	4	56.9	9.0
NE	19 May 2009	sandy field	1.84	3.7	2.3	51.6	6.7

Stable isotope ratios are reported in per mil, and nitrate, bicarbonate, and total organic carbon (TOC) in mg L<sup>-1</sup>.