

Table S1. Benzene, sulphate (SO<sub>4</sub><sup>2-</sup>) and sulphide (HS<sup>-</sup>) concentrations, and Eh potential measured in different piezometers and wells throughout the brownfield site.

Piezometer	X	Y	Benzene (log <sub>10</sub> ppb)	SO <sub>4</sub> <sup>2-</sup> (ppm)	Eh (mV)	HS <sup>-</sup> (ppm)
A3	229105.693	144349.027	2.63	930	33.7	0
A5	229058.634	144325.731			-4.5	
B3p	229092.165	144370.770			-34.9	
C3bis	229075.416	144392.239	1.56	863	53.0	0.4
C5p	229036.208	144361.674			156.0	
C6bis	229022.930	144359.122	1.64		49.5	
D1p	229103.033	144444.922		1112	-93.4	2.9
D2bis	229082.371	144426.062	3.61	311	-197.0	18.1
D3p	229061.240	144409.637		1329	26.8	1.9
E4p	229030.564	144415.962			44.2	
E6p	228991.172	144386.647		737	47.3	0.1
F4	229008.910	144446.305		925		1.2
S2p	229205.057	144534.444			-63.0	
S7	229116.044	144462.439	3.36			
P1	229087.261	144289.548	-1.00		-45.7	
P2	229141.128	144305.812	-1.00		-14.0	
P3	229176.073	144333.922	-1.00		-95.1	
P4	229207.955	144364.321	-1.00		57.0	
P5	229230.877	144417.413	-1.00	649	91.0	0
1	229175.541	144397.995		614		0.3
7	229198.751	144449.810	0.11	801	151.0	0.1
8	229236.954	144477.344	-1.00	803	135.0	0.1
9	229262.132	144521.819	-1.00		-125.9	
11	229132.559	144456.325	3.15	570	-125.0	0.8
12	229170.806	144484.748	1.28	1103	-104.0	0.2
13	229209.089	144514.709	1.59		-37.0	
14	229161.018	144453.987	2.41	540	-244.0	1.1
15	229214.891	144467.039		925		1.2
102	229146.771	144482.747			-71.1	
103	229096.419	144506.758			56.7	
201	229084.040	144418.781	5.54			
202	229199.728	144533.828	2.30		-230.0	
251	229023.288	144495.333	-0.39			
252	229293.759	144540.942	-1.00		119.1	
U2	229012.403	144382.133	1.38		44.7	
U3	229009.016	144417.647	2.93		48.7	
U4	229121.719	144429.190	5.62	21	-95.5	13.9
U5	229115.321	144397.222	2.78	1127	-13.2	0.1
U6	229136.230	144419.120		1352	8.2	7.7
U7	229123.467	144387.201			-73.7	
U9	229103.849	144337.410	2.08	1147	47.0	0.2

Table S1. Continuation.

<b>Piezometer</b>	<b>X</b>	<b>Y</b>	<b>Benzene (log<sub>10</sub> ppb)</b>	<b>SO<sub>4</sub><sup>2-</sup> (ppm)</b>	<b>Eh (mV)</b>	<b>HS<sup>-</sup> (ppm)</b>
U10	229148.839	144338.590	1.34	971	-134.0	0.1
U11	229165.696	144397.062			19.1	
U12	229120.239	144498.202	2.98		31.3	
U13	229170.531	144430.798	2.67	728	-72.5	0.2
U15	229257.316	144422.571	-1.00	939	7.0	0.1
U16	229269.582	144484.507		786	8.7	0
U17	229295.355	144469.412	-1.00	710	69.0	0
U19	229313.045	144517.203	-0.60	721	50.0	0.2
U20	229256.184	144556.186			76.0	
U21	229254.239	144557.426	2.04		-130.0	
U23	229236.571	144530.519	1.08		-114.0	
U24	229219.700	144562.940	2.04		-75.6	
U25	229167.385	144548.596			-307.0	
U27	229175.862	144452.803			93.0	
U28	228935.719	144373.076	-1.00			

Figure S1. Radially converging flow tracer tests: (a-b) measured breakthrough curves and corresponding recovery rates of tracers injected in piezometer U15 and recovered in well P5 (injection Phase II); and (c-d) comparison of measured and modelled breakthrough curves for eosin yellowish and iodide.

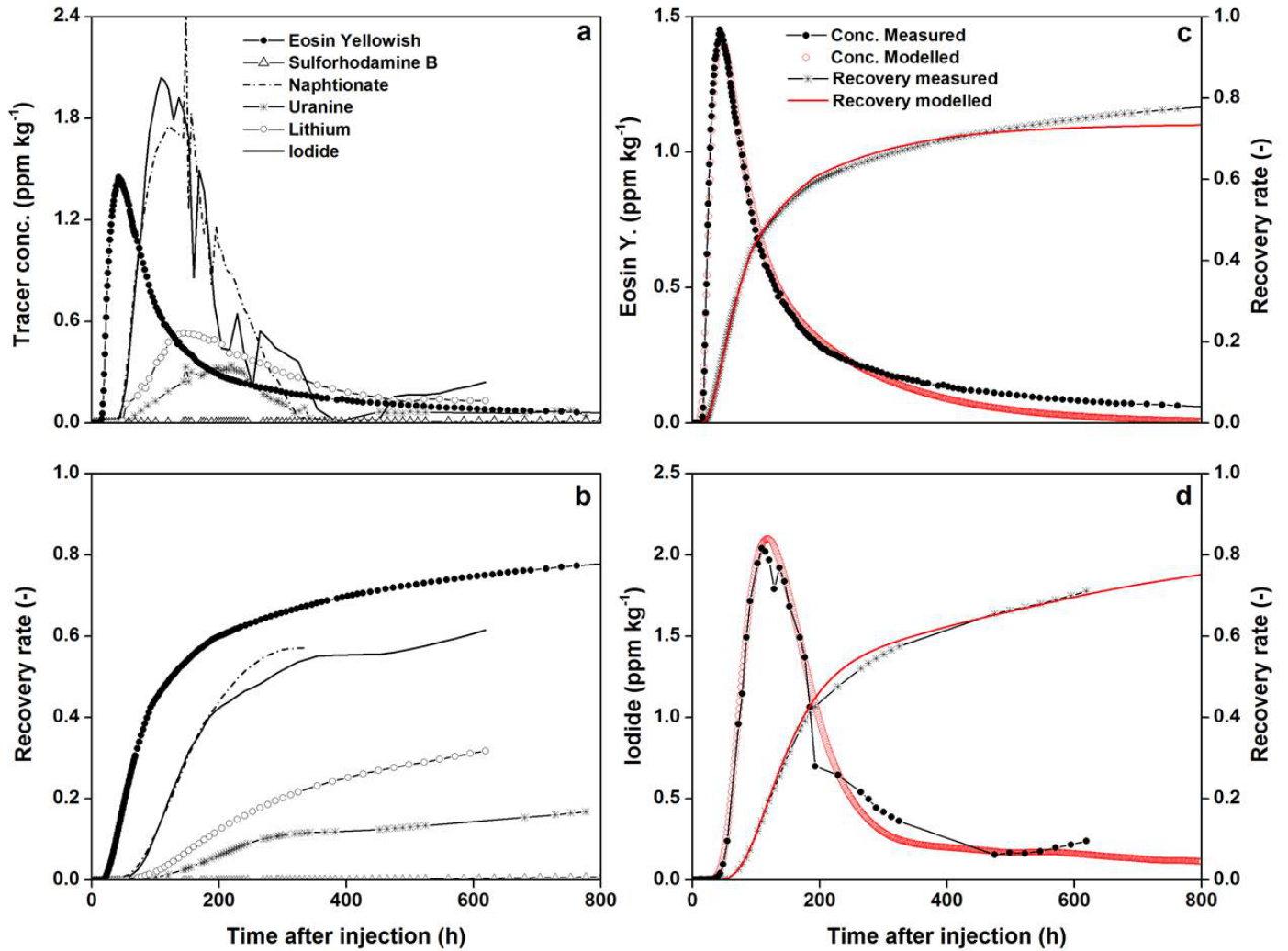


Figure S2. Measured concentrations of (a) As; and (b) Zn in 2005.

