

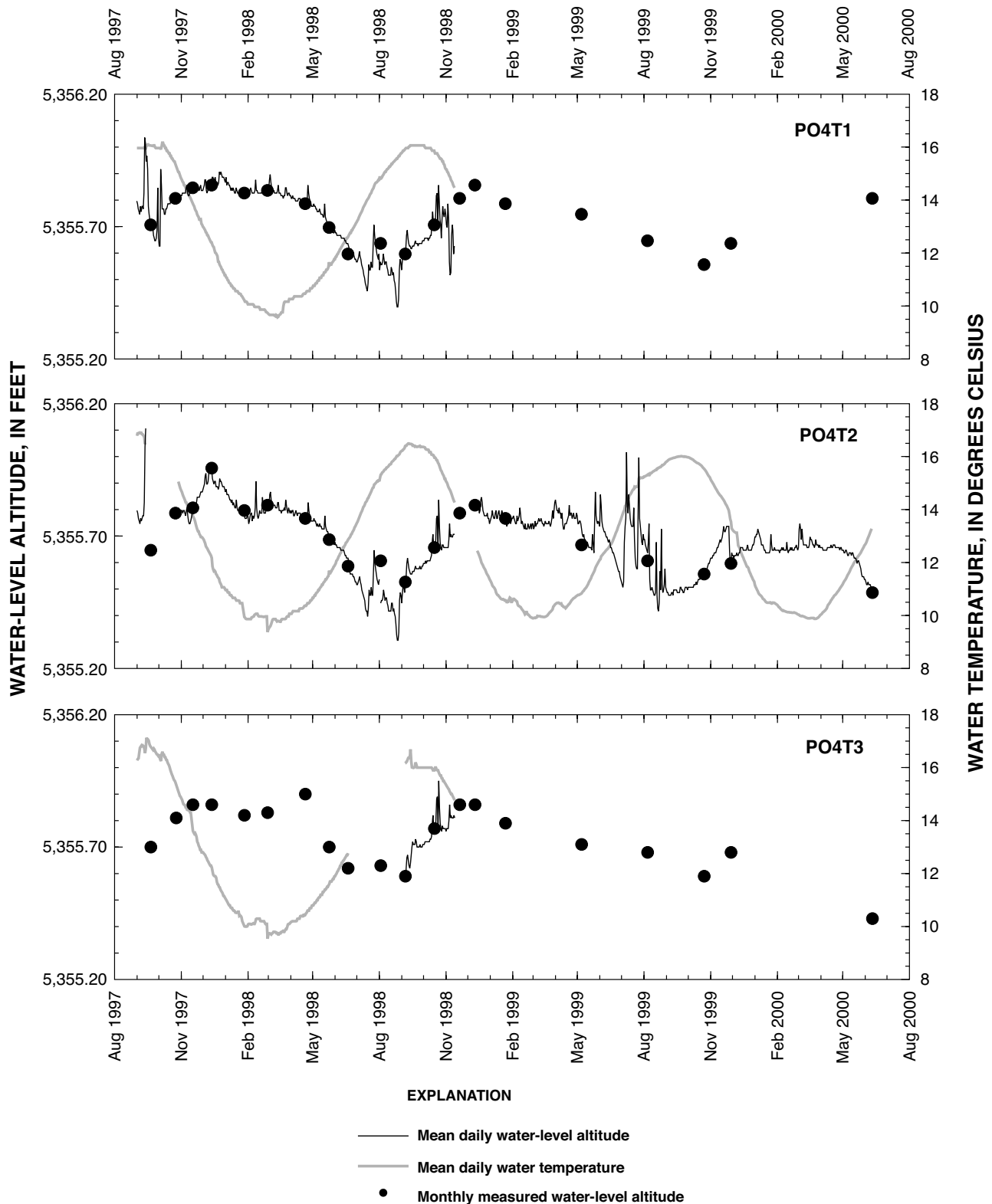


Figure 7. Mean daily and monthly measured water-level altitude and mean daily water temperature for selected wells in and immediately upgradient from the phosphate permeable reactive barrier, Fry Canyon, Utah.

Table 8. Mean daily water-level altitude and mean daily water temperature in four wells within and adjacent to the zero-valent iron permeable reactive barrier, Fry Canyon, Utah

[—, no data available; mean daily water-level altitudes are calculated from hourly data recorded by a pressure transducer installed in each well; **mean daily water-level altitude:** In feet; **mean daily water temperature:** °C, degrees Celsius]

Date	Well ZVIT1		Well ZVIT2		Well ZVIT3		Well DG-3	
	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)
09/04/97	5,355.82	17.1	5,355.73	16.1	5,355.76	16.9	5,355.74	16.5
09/09/97	5,355.80	17.3	5,355.72	16.1	5,355.75	16.6	5,355.73	16.4
09/14/97	5,355.85	17.2	5,355.79	16.0	5,355.81	16.5	5,355.77	16.3
09/19/97	5,355.86	17.2	5,355.84	16.1	5,355.82	16.6	5,355.88	16.3
09/22/97	5,355.69	17.2	5,355.69	16.1	5,355.68	16.5	5,355.69	16.3
09/27/97	5,355.67	17.0	5,355.64	16.0	5,355.61	16.4	5,355.71	16.2
10/02/97	5,355.68	16.8	5,355.66	16.0	5,355.64	16.2	5,355.68	16.0
10/07/97	5,355.90	16.5	5,355.93	15.9	5,355.88	16.0	5,355.83	15.9
10/12/97	5,355.72	16.5	5,355.73	15.8	5,355.73	15.1	5,355.74	15.7
10/17/97	5,355.75	16.2	5,355.76	15.6	5,355.78	15.6	5,355.76	15.4
10/22/97	5,355.79	15.8	5,355.76	15.4	5,355.81	15.3	5,355.77	14.9
10/27/97	5,355.82	15.4	5,355.78	15.1	5,355.86	15.0	5,355.79	14.7
11/04/97	5,355.83	14.8	5,355.82	14.7	5,355.88	14.3	5,355.82	13.8
11/09/97	5,355.83	14.3	5,355.82	14.4	5,355.87	14.0	5,355.86	13.6
11/14/97	5,355.82	14.0	5,355.81	14.1	5,355.84	13.6	5,355.88	13.3
11/20/97	5,355.81	13.6	5,355.84	13.8	5,355.83	13.3	5,355.94	12.8
11/25/97	5,355.81	13.2	5,355.85	13.5	5,355.83	12.9	5,355.91	12.4
11/30/97	5,355.82	12.8	5,355.85	13.2	5,355.84	12.6	5,355.89	12.1
12/05/97	5,355.83	12.6	5,355.84	12.9	5,355.84	12.2	5,355.87	11.9
12/10/97	5,355.81	12.3	5,355.82	12.6	5,355.83	12.0	5,355.82	11.5
12/15/97	5,355.84	12.0	5,355.84	12.4	5,355.86	11.6	5,355.84	11.1
12/20/97	5,355.86	11.6	5,355.85	12.0	5,355.86	11.3	5,355.79	10.7
12/25/97	5,355.85	11.3	5,355.85	11.7	5,355.85	11.0	5,355.75	10.3
12/30/97	5,355.88	11.0	5,355.90	11.5	5,355.89	10.7	5,355.77	10.0
01/04/98	5,355.85	10.7	5,355.89	11.2	5,355.86	10.3	5,355.73	9.7
01/09/98	5,355.85	10.4	5,355.90	10.9	5,355.85	10.1	5,355.70	9.5
01/14/98	5,355.83	10.1	5,355.89	10.7	5,355.84	9.8	5,355.66	9.4
01/19/98	5,355.83	10.0	5,355.93	10.5	5,355.84	9.6	5,355.66	9.2
01/24/98	5,355.83	9.8	5,355.93	10.3	5,355.84	9.4	5,355.63	9.2
01/30/98	5,355.80	9.4	5,355.89	10.1	5,355.83	9.2	5,355.60	9.0
02/04/98	5,355.81	9.5	5,355.90	10.0	5,355.83	9.1	5,355.60	8.8
02/09/98	5,355.84	9.3	5,355.88	9.9	5,355.84	8.9	5,355.62	8.8
02/14/98	5,355.84	9.3	5,355.89	9.8	5,355.84	8.9	5,355.61	8.8
02/19/98	5,355.84	9.3	5,355.85	9.7	5,355.83	8.8	5,355.60	8.7
02/24/98	5,355.86	9.3	5,355.89	9.6	5,355.84	8.8	5,355.61	8.6
03/01/98	5,355.87	9.2	5,355.86	9.5	5,355.84	8.7	5,355.61	8.6

Table 8. Mean daily water-level altitude and mean daily water temperature in four wells within and adjacent to the zero-valent iron permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Well ZVIT1		Well ZVIT2		Well ZVIT3		Well DG-3	
	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)
03/06/98	5,355.89	9.2	5,355.91	9.4	5,355.86	8.6	5,355.64	8.5
03/11/98	5,355.85	9.1	5,355.86	9.4	5,355.83	8.5	5,355.63	8.5
03/16/98	5,355.84	9.0	5,355.86	9.3	5,355.82	8.5	5,355.64	8.5
03/21/98	5,355.84	9.0	5,355.84	9.2	5,355.81	8.4	5,355.66	8.7
03/26/98	5,355.83	9.1	5,355.84	9.2	5,355.81	8.5	5,355.68	8.9
03/31/98	5,355.82	9.3	5,355.84	9.3	5,355.81	8.6	5,355.71	9.2
04/05/98	5,355.81	9.5	5,355.83	9.4	5,355.81	8.8	5,355.70	9.3
04/10/98	5,355.81	9.6	5,355.82	9.5	5,355.80	8.9	5,355.72	9.3
04/15/98	5,355.81	9.7	5,355.82	9.6	5,355.80	9.0	5,355.77	9.5
04/20/98	5,355.79	9.9	5,355.80	9.7	5,355.79	9.1	5,355.77	9.7
04/25/98	5,355.79	10.0	5,355.80	9.8	5,355.79	9.3	5,355.78	9.8
04/30/98	5,355.83	10.2	5,355.80	9.9	5,355.79	9.4	5,355.77	10.1
05/05/98	5,355.85	10.5	5,355.78	10.1	5,355.77	9.7	5,355.74	10.4
05/10/98	5,355.88	10.8	5,355.76	10.3	5,355.76	9.9	5,355.71	10.7
05/15/98	5,355.92	11.1	5,355.76	10.6	5,355.76	10.2	5,355.70	10.9
05/20/98	5,355.94	11.4	5,355.73	10.8	5,355.74	10.5	5,355.67	11.2
05/25/98	5,355.97	11.7	5,355.72	11.0	5,355.73	10.7	5,355.66	11.5
05/30/98	5,355.94	12.0	5,355.70	11.4	5,355.72	11.0	5,355.62	11.7
06/04/98	5,355.89	12.3	5,355.70	11.6	5,355.72	11.3	5,355.63	12.1
06/09/98	5,355.81	12.7	5,355.68	12.0	5,355.70	11.6	5,355.62	12.5
06/14/98	5,355.75	13.0	5,355.67	12.3	5,355.69	12.0	5,355.61	12.7
06/19/98	5,355.69	13.3	5,355.66	12.6	5,355.68	12.2	5,355.62	13.0
06/25/98	5,355.63	13.6	5,355.64	12.6	5,355.64	12.5	5,355.58	13.3
06/30/98	5,355.60	13.9	5,355.60	12.9	5,355.62	12.8	5,355.57	13.6
07/05/98	5,355.57	14.3	5,355.57	13.2	5,355.60	13.2	5,355.54	14.0
07/10/98	5,355.56	14.7	5,355.56	13.5	5,355.60	13.5	5,355.55	14.4
07/15/98	5,355.49	15.1	5,355.49	13.8	5,355.53	13.9	5,355.47	14.7
07/20/98	5,355.45	15.4	5,355.45	14.1	5,355.50	14.3	5,355.44	15.0
07/25/98	5,355.50	15.8	5,355.50	14.4	5,355.55	14.6	5,355.50	15.4
07/30/98	5,355.58	16.2	5,355.58	14.8	5,355.64	14.9	5,355.58	15.5
08/04/98	5,355.54	16.4	5,355.54	15.0	5,355.60	15.0	5,355.54	15.5
08/09/98	5,355.58	16.4	5,355.61	15.0	5,355.63	14.9	5,355.53	15.7
08/14/98	5,355.57	16.5	5,355.60	15.1	5,355.68	15.1	5,355.52	15.8
08/19/98	5,355.51	16.6	5,355.52	15.3	5,355.64	15.2	5,355.47	16.0
08/24/98	5,355.51	16.7	5,355.53	15.4	5,355.69	15.3	5,355.48	16.2
08/29/98	5,355.37	16.9	5,355.38	15.5	5,355.59	15.4	5,355.34	16.3
09/03/98	5,355.53	16.9	5,355.54	15.7	5,355.79	15.6	5,355.51	16.5

Table 8. Mean daily water-level altitude and mean daily water temperature in four wells within and adjacent to the zero-valent iron permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Well ZVIT1		Well ZVIT2		Well ZVIT3		Well DG-3	
	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)
09/08/98	5,355.53	17.1	5,355.54	15.8	5,355.83	15.7	5,355.52	16.6
09/13/98	5,355.64	17.1	5,355.64	16.2	5,355.91	15.6	5,355.62	16.5
09/18/98	5,355.61	17.0	5,355.61	16.1	5,355.82	15.6	5,355.58	16.3
09/23/98	5,355.64	16.8	5,355.64	16.0	5,355.72	15.4	5,355.59	16.3
09/28/98	5,355.64	16.7	5,355.64	16.0	5,355.80	15.4	5,355.58	16.2
10/03/98	5,355.65	16.6	5,355.66	15.9	5,355.78	15.3	5,355.59	16.1
10/08/98	5,355.67	16.5	5,355.68	15.8	5,355.76	15.2	5,355.60	16.0
10/13/98	5,355.69	16.3	5,355.70	15.6	5,355.75	15.0	5,355.61	15.7
10/18/98	5,355.75	16.1	5,355.75	15.4	5,355.77	14.7	5,355.66	15.5
10/23/98	5,355.86	15.8	5,355.84	15.3	5,355.88	14.5	5,355.76	15.2
10/28/98	5,355.75	15.5	5,355.71	15.1	5,355.75	14.2	5,355.63	14.9
11/02/98	5,355.75	15.0	5,355.71	14.8	5,355.75	13.9	5,355.63	14.6
11/07/98	5,355.75	14.7	5,355.71	14.6	5,355.76	13.6	5,355.62	14.3
11/12/98	5,355.79	14.4	5,355.75	14.3	5,355.80	13.3	5,355.66	13.8
12/17/98	—	—	—	—	—	12.2	5,355.79	11.0
12/22/98	—	—	—	—	5,355.85	11.9	5,355.83	10.5
12/27/98	—	—	—	—	5,355.81	11.5	5,355.78	10.4
01/01/99	—	—	—	—	5,355.80	11.2	5,355.76	10.1
01/06/99	—	—	—	—	5,355.82	10.9	5,355.76	9.8
01/11/99	—	—	—	—	5,355.83	10.6	5,355.78	9.6
01/16/99	—	—	—	—	5,355.85	10.4	5,355.77	9.4
01/21/99	—	—	—	—	5,355.86	10.2	5,355.76	9.2
01/26/99	—	—	—	—	5,355.75	10.0	5,355.72	9.3
01/31/99	—	—	—	—	5,355.80	9.9	5,355.74	9.3
02/05/99	—	—	—	—	5,355.81	9.9	5,355.76	9.2
02/10/99	—	—	—	—	5,355.80	9.8	5,355.74	9.1
02/15/99	—	—	—	—	5,355.79	9.7	5,355.74	9.1
02/20/99	—	—	—	—	5,355.76	9.6	5,355.69	8.9
02/25/99	—	—	—	—	—	—	5,355.71	8.9
03/02/99	—	—	—	—	—	—	5,355.69	9.0
03/07/99	—	—	—	—	—	—	5,355.71	9.1
03/12/99	—	—	—	—	—	—	5,355.73	9.3
03/17/99	—	—	—	—	—	—	5,355.71	9.3
03/22/99	—	—	—	—	—	—	5,355.70	9.4
03/27/99	—	—	—	—	—	—	5,355.70	9.6
04/01/99	—	—	—	—	—	—	5,355.71	9.8
04/06/99	—	—	—	—	—	—	5,355.74	9.9

Table 8. Mean daily water-level altitude and mean daily water temperature in four wells within and adjacent to the zero-valent iron permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Well ZVIT1		Well ZVIT2		Well ZVIT3		Well DG-3	
	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)
04/11/99	—	—	—	—	—	—	5,355.73	9.8
04/16/99	—	—	—	—	—	—	5,355.68	9.8
04/21/99	—	—	—	—	—	—	5,355.70	9.9
04/26/99	—	—	—	—	—	—	5,355.73	10.2
05/01/99	—	—	—	—	—	—	5,355.71	10.3
05/06/99	—	—	—	—	—	—	5,355.69	10.4
05/11/99	—	—	—	—	—	—	5,355.66	10.5
05/16/99	—	—	—	—	—	—	5,355.65	10.9
05/21/99	—	—	—	—	5,355.67	11.1	5,355.64	11.3
05/26/99	—	—	—	—	5,355.68	11.5	5,355.66	11.7
05/31/99	—	—	—	—	5,355.77	11.8	5,355.74	11.9
06/05/99	—	—	—	—	5,355.88	12.1	5,355.84	12.1
06/10/99	—	—	—	—	5,355.74	12.4	5,355.72	12.2
06/15/99	—	—	—	—	5,355.71	12.6	5,355.68	12.4
06/20/99	—	—	—	—	5,355.68	12.9	5,355.66	12.9
06/25/99	—	—	—	—	5,355.64	13.4	5,355.63	13.3
06/30/99	—	—	—	—	5,355.60	13.9	5,355.59	13.8
07/05/99	—	—	—	—	5,355.55	14.4	5,355.53	14.2
07/10/99	—	—	—	—	5,355.81	14.8	5,355.76	14.6
07/15/99	—	—	—	—	5,355.85	15.4	5,355.83	14.8
07/20/99	—	—	—	—	5,355.78	15.7	5,355.74	14.9
07/25/99	—	—	—	—	5,355.62	16.0	5,355.57	15.0
07/30/99	—	—	—	—	5,355.78	16.4	5,355.75	15.1
08/04/99	—	—	—	—	5,355.74	16.5	5,355.68	15.3
08/09/99	—	—	—	—	5,355.70	16.6	5,355.62	15.4
08/14/99	—	—	—	—	—	—	5,355.48	15.5
08/19/99	—	—	—	—	—	—	5,355.45	15.5
08/24/99	—	—	—	—	—	—	5,355.40	15.6
08/29/99	—	—	—	—	—	—	5,355.50	15.8
09/03/99	—	—	—	—	—	—	5,355.49	15.9
09/08/99	—	—	—	—	—	—	5,355.46	15.9
09/13/99	—	—	—	—	—	—	5,355.46	15.9
09/18/99	—	—	—	—	—	—	5,355.48	15.9
09/23/99	—	—	—	—	—	—	5,355.49	15.8
09/28/99	—	—	—	—	—	—	5,355.47	15.8
10/03/99	—	—	—	—	—	—	5,355.49	15.7
10/08/99	—	—	—	—	—	—	5,355.50	15.5

Table 8. Mean daily water-level altitude and mean daily water temperature in four wells within and adjacent to the zero-valent iron permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Well ZVIT1		Well ZVIT2		Well ZVIT3		Well DG-3	
	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)
10/13/99	—	—	—	—	—	—	5,355.50	15.4
10/18/99	—	—	—	—	—	—	5,355.53	15.3
10/23/99	—	—	—	—	—	—	5,355.54	15.1
10/28/99	—	—	—	—	5,355.62	15.3	5,355.55	14.8
11/02/99	—	—	—	—	5,355.64	15.0	5,355.55	14.5
11/07/99	—	—	—	—	5,355.66	14.7	5,355.56	14.2
11/12/99	—	—	—	—	5,355.67	14.4	5,355.56	14.0
11/17/99	—	—	—	—	5,355.70	14.1	5,355.58	13.8
11/22/99	—	—	—	—	5,355.74	13.8	5,355.61	13.5
11/27/99	—	—	—	—	5,355.74	13.5	5,355.59	13.1
12/02/99	—	—	—	—	5,355.71	13.1	5,355.59	12.6
12/07/99	—	—	—	—	5,355.68	12.8	5,355.61	12.2
12/12/99	—	—	—	—	5,355.67	12.4	5,355.61	11.8
12/17/99	—	—	—	—	5,355.70	12.0	5,355.64	11.5
12/22/99	—	—	—	—	5,355.68	11.7	5,355.62	11.1
12/27/99	—	—	—	—	5,355.69	11.3	5,355.62	10.7
01/01/00	—	—	—	—	5,355.70	10.9	5,355.64	10.4
01/06/00	—	—	—	—	5,355.74	10.6	5,355.68	10.1
01/11/00	—	—	—	—	5,355.73	10.3	5,355.66	9.9
01/16/00	—	—	—	—	5,355.69	10.0	5,355.62	9.7
01/21/00	—	—	—	—	5,355.66	9.9	5,355.60	9.6
01/26/00	—	—	—	—	5,355.73	9.9	5,355.66	9.7
01/31/00	—	—	—	—	5,355.68	9.9	5,355.61	9.7
02/05/00	—	—	—	—	5,355.67	9.8	5,355.60	9.5
02/10/00	—	—	—	—	5,355.67	9.6	5,355.61	9.3
02/15/00	—	—	—	—	5,355.65	9.5	5,355.58	9.3
02/20/00	—	—	—	—	5,355.65	9.5	5,355.58	9.3
02/25/00	—	—	—	—	5,355.65	9.5	5,355.58	9.3
03/01/00	—	—	—	—	5,355.67	9.5	5,355.60	9.2
03/06/00	—	—	—	—	5,355.75	9.5	5,355.68	9.2
03/11/00	—	—	—	—	5,355.67	9.4	5,355.60	9.2
03/16/00	—	—	—	—	5,355.65	9.3	5,355.59	9.1
03/21/00	—	—	—	—	5,355.67	9.4	5,355.60	9.2
03/26/00	—	—	—	—	5,355.65	9.4	5,355.58	9.2
03/31/00	—	—	—	—	5,355.65	9.4	5,355.58	9.2
04/05/00	—	—	—	—	5,355.64	9.5	5,355.57	9.4
04/10/00	—	—	—	—	5,355.63	9.7	5,355.56	9.6

Table 8. Mean daily water-level altitude and mean daily water temperature in four wells within and adjacent to the zero-valent iron permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Well ZVIT1		Well ZVIT2		Well ZVIT3		Well DG-3	
	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)	Water-level altitude	Water temperature (°C)
04/15/00	—	—	—	—	5,355.63	10.0	5,355.56	9.9
04/20/00	—	—	—	—	5,355.63	10.3	5,355.56	10.3
04/25/00	—	—	—	—	5,355.63	10.6	5,355.56	10.5
04/30/00	—	—	—	—	5,355.61	10.9	5,355.54	10.7
05/05/00	—	—	—	—	5,355.60	11.3	5,355.53	11.1
05/10/00	—	—	—	—	5,355.59	11.7	5,355.52	11.4
05/15/00	—	—	—	—	5,355.58	12.0	5,355.51	11.7
05/20/00	—	—	—	—	5,355.57	12.3	5,355.50	11.9
05/25/00	—	—	—	—	5,355.55	12.6	5,355.48	12.4
05/30/00	—	—	—	—	5,355.50	12.9	5,355.43	12.3
06/04/00	—	—	—	—	5,355.48	13.2	5,355.41	12.7
06/09/00	—	—	—	—	5,355.45	13.7	5,355.38	13.1
06/14/00	—	—	—	—	5,355.39	14.1	5,355.32	13.5

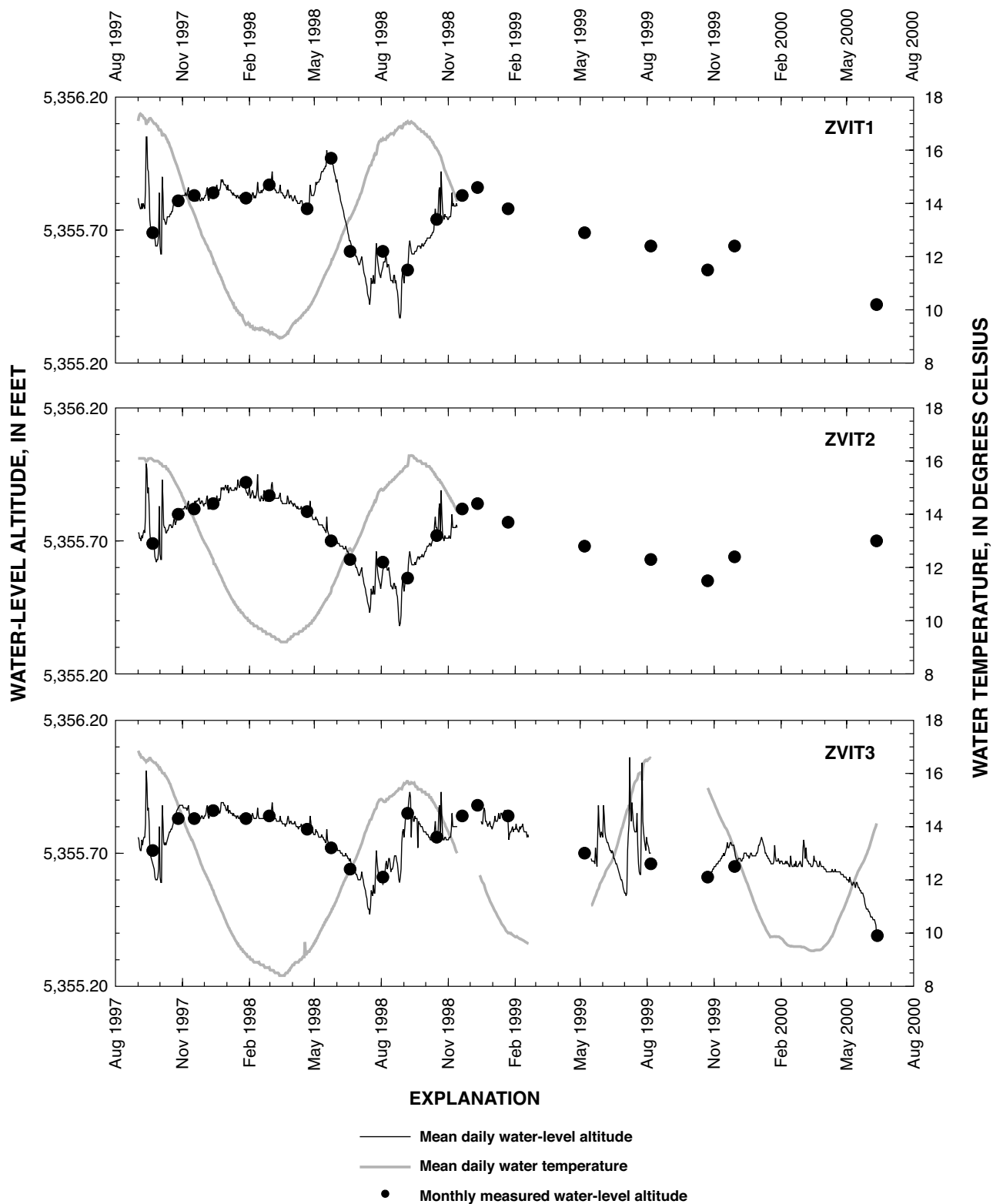


Figure 8. Mean daily and monthly increased water-level altitude and mean daily water temperature for selected wells in and immediately upgradient from the zero-valent iron permeable reactive barrier, Fry Canyon, Utah.

Table 9. Mean daily water-level altitude and mean daily water temperature in monitoring wells FC-2 and FC-3, Fry Canyon, Utah

[—, no data available; mean daily water-level altitudes are calculated from hourly data recorded by a pressure transducer installed in each well; **Water-level altitude:** In feet; **Water temperature:** °C, degrees Celsius.

Date	Well FC-2	Well FC-3	
	Water-level altitude	Water-level altitude	Water temperature (°C)
09/15/96	5,355.60	—	—
09/20/96	5,355.54	—	—
09/25/96	5,355.49	—	—
09/30/96	5,355.47	—	—
10/05/96	5,355.46	—	—
10/10/96	5,355.41	—	—
10/15/96	5,355.39	—	—
10/20/96	5,355.41	—	—
10/25/96	5,355.47	—	—
10/30/96	5,355.50	—	—
11/04/96	5,355.55	—	—
11/09/96	5,355.51	—	—
11/14/96	5,355.53	—	—
11/19/96	5,355.55	—	—
11/24/96	5,355.55	—	—
11/29/96	5,355.60	—	—
12/04/96	5,355.55	—	—
12/09/96	5,355.56	—	—
12/14/96	5,355.58	—	—
12/19/96	5,355.61	5,356.14	13.9
12/24/96	5,355.59	5,356.12	13.7
12/29/96	5,355.60	5,356.12	13.5
01/03/97	5,355.65	5,356.17	13.1
01/08/97	5,355.60	5,356.14	12.9
01/13/97	5,355.66	5,356.20	12.7
01/18/97	5,355.62	5,356.16	12.5
01/23/97	5,355.65	5,356.20	12.3
01/28/97	5,355.69	5,356.20	12.0
02/02/97	5,355.66	5,356.18	—
02/07/97	5,355.66	5,356.20	—
02/12/97	5,355.66	5,356.20	—
02/17/97	5,355.65	5,356.20	—
02/22/97	5,355.64	5,356.20	—
02/27/97	5,355.67	5,356.14	—
03/04/97	5,355.66	5,356.13	—
03/09/97	5,355.64	5,356.12	—
03/14/97	5,355.64	5,356.13	—
03/19/97	5,355.61	5,356.12	—
03/24/97	5,355.61	5,356.13	—

Table 9. Mean daily water-level altitude and mean daily water temperature in monitoring wells FC-2 and FC-3, Fry Canyon, Utah—Continued

Date	Well FC-2	Well FC-3	
	Water-level altitude	Water-level altitude	Water temperature (°C)
03/29/97	5,355.60	5,356.14	—
04/03/97	5,355.64	5,356.19	—
04/08/97	5,355.60	5,356.18	—
04/13/97	5,355.66	5,356.21	10.5
04/18/97	5,355.68	5,356.21	10.6
04/23/97	5,355.65	5,356.23	10.7
04/28/97	5,355.71	5,356.22	10.8
05/03/97	5,355.74	5,356.22	11.0
05/08/97	5,355.76	5,356.21	11.7
05/13/97	5,355.80	5,356.21	11.5
05/18/97	5,355.83	5,356.19	11.7
05/23/97	5,355.70	5,356.25	12.2
05/28/97	—	5,356.24	12.6
06/19/97	—	5,355.98	13.7
06/24/97	—	5,355.97	13.9
06/29/97	—	5,355.94	14.1
07/04/97	—	5,355.91	14.5
07/09/97	—	5,355.87	14.8
07/14/97	5,355.41	5,355.89	15.1
07/19/97	5,355.39	5,355.88	15.4
07/24/97	5,355.41	—	—
07/29/97	5,355.62	—	—
08/03/97	5,355.46	—	—
08/08/97	5,355.42	—	—
08/13/97	5,355.42	—	—
08/18/97	5,355.38	—	—
08/29/97	—	5,355.62	—
09/03/97	—	5,356.32	—
09/08/97	—	5,356.24	—
09/13/97	—	5,356.27	—
09/18/97	—	5,356.38	—
09/23/97	—	5,356.17	—
09/28/97	—	5,356.19	—
10/03/97	—	5,356.37	—
10/08/97	—	5,356.54	—
10/13/97	—	5,356.29	—
10/18/97	—	5,356.25	—
10/23/97	—	5,356.27	—
10/28/97	—	5,356.30	—
11/02/97	5,355.38	5,356.28	—
11/07/97	5,355.40	5,356.30	—

Table 9. Mean daily water-level altitude and mean daily water temperature in monitoring wells FC-2 and FC-3, Fry Canyon, Utah—Continued

Date	Well FC-2	Well FC-3	
	Water-level altitude	Water-level altitude	Water temperature (°C)
11/12/97	5,355.39	5,356.34	—
11/17/97	5,355.44	5,356.32	—
11/22/97	5,355.47	5,356.34	—
11/27/97	5,355.47	5,356.33	—
12/02/97	5,355.48	5,356.31	—
12/07/97	5,355.50	5,356.35	—
12/12/97	5,355.50	5,356.32	—
12/17/97	—	5,356.41	13.8
12/22/97	—	5,356.38	13.6
12/27/97	—	5,356.36	13.3
01/01/98	—	5,356.36	13.0
01/06/98	—	5,356.34	12.8
01/11/98	—	5,356.34	12.6
01/16/98	—	5,356.33	12.3
01/21/98	—	5,356.33	12.1
01/26/98	—	5,356.33	11.9
02/02/98	—	5,356.33	11.9
02/07/98	—	5,356.33	11.7
02/12/98	—	5,356.32	11.6
02/17/98	—	5,356.33	11.4
02/22/98	—	5,356.32	11.3
02/27/98	—	5,356.32	11.2
03/03/98	—	5,356.33	11.2

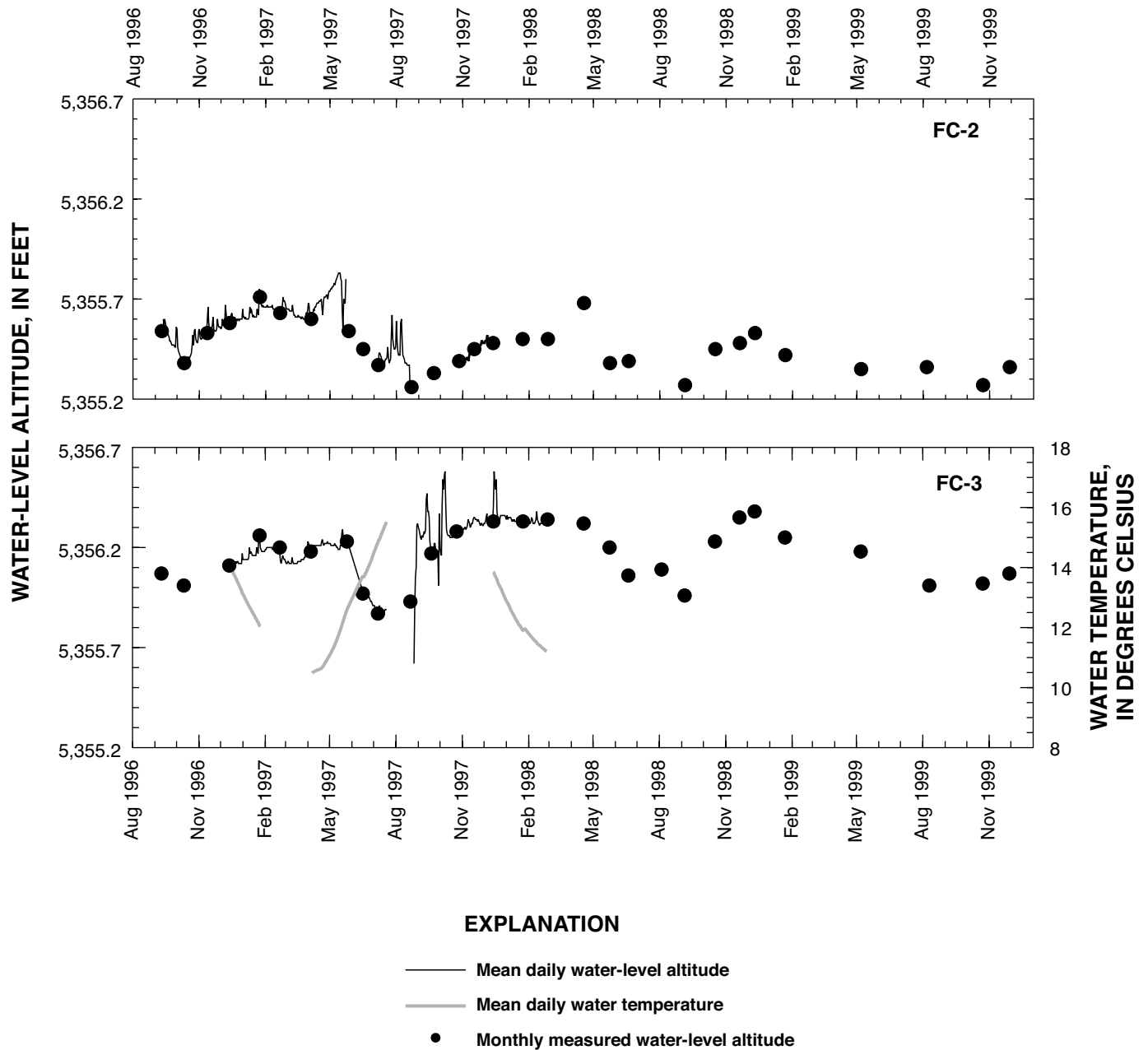


Figure 9. Daily and monthly measured water-level altitude for wells FC-2 and FC-3 and mean daily water temperature for well FC-2, Fry Canyon, Utah.

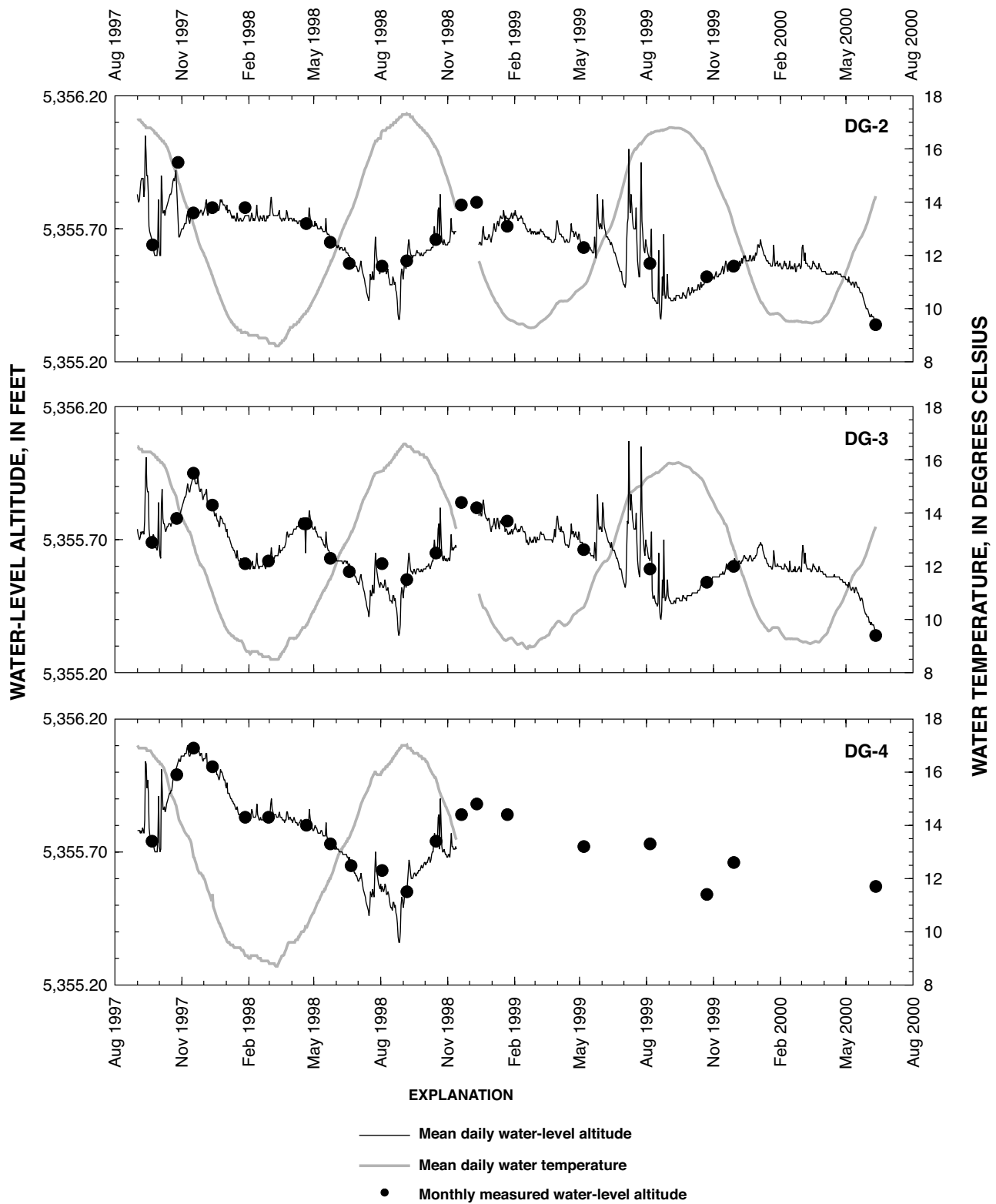


Figure 10. Mean daily and monthly measured water-level altitude and mean daily water temperature for selected wells immediately downgradient from the permeable reactive barriers, Fry Canyon, Utah.

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah

[Water-level altitude: Measured with an electric tape, in feet]

Well	Date	Water-level altitude	Well	Date	Water-level altitude
AFOFS1	09/25/97	5,355.72	AFOT2—Continued	03/03/98	5,355.82
	10/30/97	5,355.79		04/24/98	5,355.79
	01/30/98	5,355.82		05/27/98	5,355.71
	03/03/98	5,355.83		06/22/98	5,355.63
	04/24/98	5,355.79		08/06/98	5,355.61
	05/27/98	5,355.71		09/09/98	5,355.57
	06/22/98	5,355.63		10/19/98	5,355.72
	08/06/98	5,355.73		11/23/98	5,355.81
	09/09/98	5,355.57		12/14/98	5,355.86
	10/19/98	5,355.73		01/25/99	5,355.83
	11/23/98	5,355.83		05/10/99	5,355.87
	12/14/98	5,355.85		08/09/99	5,355.65
	01/25/99	5,355.78		10/26/99	5,355.56
	05/10/99	5,355.68		12/02/99	5,355.65
	08/09/99	5,355.64		06/14/00	5,355.38
	10/26/99	5,355.55	AFOT3	09/25/97	5,355.72
	12/02/99	5,355.64		10/30/97	5,355.80
	06/14/00	5,355.42		11/20/97	5,355.82
AFOT1	09/24/97	5,355.82		12/16/97	5,355.85
	10/30/97	5,355.78		01/30/98	5,355.82
	11/20/97	5,355.84		03/03/98	5,355.83
	12/16/97	5,355.84		04/24/98	5,355.90
	01/30/98	5,355.89		05/27/98	5,355.71
	03/03/98	5,355.83		06/22/98	5,355.64
	04/24/98	5,355.79		08/06/98	5,355.72
	05/27/98	5,355.72		09/09/98	5,355.61
	06/22/98	5,355.63		10/19/98	5,355.71
	08/06/98	5,355.59		11/23/98	5,355.84
	09/09/98	5,355.61		12/14/98	5,355.83
	10/19/98	5,355.72		01/25/99	5,355.76
	11/23/98	5,355.79		05/10/99	5,355.69
	12/14/98	5,355.83		08/09/99	5,355.73
	01/25/99	5,355.77		10/26/99	5,355.55
	05/10/99	5,355.68		12/02/99	5,355.64
	08/09/99	5,355.62		06/14/00	5,355.33
	10/26/99	5,355.56	DG-1	09/25/97	5,355.62
	12/02/99	5,355.64		10/30/97	5,355.72
	06/14/00	5,355.38		01/30/98	5,355.71
AFOT2	09/25/97	5,355.71		03/03/98	5,355.73
	10/30/97	5,355.79		04/21/98	5,355.66
	11/20/97	5,355.80		05/27/98	5,355.62
	12/16/97	5,355.84		06/22/98	5,355.54
	01/30/98	5,355.82		08/06/98	5,355.54

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude	Well	Date	Water-level altitude
DG-1—Continued	09/09/98	5,355.52	DG2b—Continued	12/14/98	5,355.79
	10/19/98	5,355.57		01/25/99	5,355.71
	11/23/98	5,355.73		05/10/99	5,355.61
	12/14/98	5,355.76		08/09/99	5,355.56
	01/25/99	5,355.70		10/26/99	5,355.47
	05/10/99	5,355.61		12/02/99	5,355.55
	08/09/99	5,355.57		06/14/00	5,355.32
	10/26/99	5,355.48	DG-3	09/24/97	5,355.69
	12/02/99	5,355.57		10/28/97	5,355.78
	06/14/00	5,355.33		11/20/97	5,355.95
DG-2	09/25/97	5,355.64		12/16/97	5,355.83
	10/30/97	5,355.95		01/30/98	5,355.61
	11/20/97	5,355.76		03/03/98	5,355.62
	12/16/97	5,355.78		04/21/98	5,355.76
	01/30/98	5,355.75		05/27/98	5,355.63
	04/21/98	5,355.71		06/22/98	5,355.58
	05/27/98	5,355.65		08/06/98	5,355.61
	06/22/98	5,355.57		09/09/98	5,355.55
	08/06/98	5,355.56		10/19/98	5,355.65
	09/09/98	5,355.58		11/23/98	5,355.84
	10/19/98	5,355.66		12/14/98	5,355.82
	11/23/98	5,355.79		01/25/99	5,355.77
	12/14/98	5,355.80		05/12/99	5,355.67
	01/25/99	5,355.71		08/09/99	5,355.59
	05/10/99	5,355.63		10/26/99	5,355.54
	08/09/99	5,355.57		12/02/99	5,355.60
	10/26/99	5,355.52		06/14/00	5,355.34
	12/02/99	5,355.56	DG-4	09/24/97	5,355.74
	06/14/00	5,355.34		10/28/97	5,355.99
DG-2a	08/06/98	5,355.50		11/20/97	5,356.09
	09/11/98	5,355.54		12/16/97	5,356.02
	10/19/98	5,355.58		01/30/98	5,355.83
	11/23/98	5,355.71		03/03/98	5,355.83
	12/14/98	5,355.74		04/21/98	5,355.78
	01/25/99	5,355.65		05/27/98	5,355.73
	05/10/99	5,355.57		06/22/98	5,355.64
	08/09/99	5,355.51		08/06/98	5,355.63
	10/26/99	5,355.43		09/09/98	5,355.55
	12/02/99	5,355.50		10/19/98	5,355.74
DG-2b	06/14/00	5,355.27		11/23/98	5,355.84
	08/06/98	5,355.53		12/14/98	5,355.88
	09/11/98	5,355.56		01/25/99	5,355.84
	10/19/98	5,355.63		05/10/99	5,355.72
	11/23/98	5,354.73		08/09/99	5,355.73
				10/26/99	5,355.54

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude	Well	Date	Water-level altitude
DG-4—Continued	12/02/99	5,355.66	DP-2—Continued	10/26/99	5,356.11
	06/14/00	5,355.57		12/02/99	5,356.20
DP-1	12/19/96	5,356.72	DP-3	02/24/97	5,358.65
	01/27/97	5,356.93		04/08/97	5,358.61
	02/24/97	5,356.77		10/20/98	5,358.62
	04/08/97	5,356.73		11/23/98	5,358.65
	05/29/97	5,356.67		12/14/98	5,358.63
	07/11/97	5,356.40		05/10/99	5,358.87
	08/25/97	5,356.56		12/02/99	5,358.62
	12/17/97	5,356.82	DP-4	12/19/96	5,355.77
	01/26/98	5,356.79		01/27/97	5,355.86
	03/02/98	5,356.78		02/24/97	5,355.82
	04/21/98	5,356.75		04/08/97	5,355.77
	05/27/98	5,356.63		05/29/97	5,355.74
	06/22/98	5,356.47		07/11/97	5,355.59
	08/07/98	5,356.48		08/25/97	5,355.51
	09/08/98	5,356.37		12/17/97	5,355.76
	10/20/98	5,356.65		01/26/98	5,355.76
	11/23/98	5,356.79		03/02/98	5,355.71
	12/14/98	5,356.81		04/21/98	5,355.66
	01/25/99	5,356.74		05/27/98	5,355.60
	05/10/99	5,356.60		06/22/98	5,355.61
	08/09/99	5,356.51		08/06/98	5,355.64
	10/26/99	5,356.40		09/08/98	5,355.44
DP-2	12/19/96	5,356.51		10/20/98	5,355.61
	01/27/97	5,356.72		11/23/98	5,355.68
	02/24/97	5,356.56		12/14/98	5,355.74
	04/08/97	5,356.52		01/25/99	5,355.61
	05/29/97	5,356.44		05/10/99	5,355.58
	07/11/97	5,356.20		08/09/99	5,355.54
	08/25/97	5,356.33		10/26/99	5,355.45
	12/17/97	5,356.59		12/02/99	5,355.53
	01/26/98	5,356.54	DP-5	12/19/96	5,355.19
	03/02/98	5,356.54		01/27/97	5,355.37
	04/21/98	5,356.50		02/24/97	5,355.23
	05/27/98	5,356.37		04/08/97	5,355.19
	06/22/98	5,356.25		05/29/97	5,355.10
	08/07/98	5,356.25		08/25/97	5,355.17
	09/08/98	5,355.57		12/17/97	5,355.06
	10/20/98	5,354.97		01/26/98	5,355.07
	11/23/98	5,356.53		03/02/98	5,355.04
	12/14/98	5,356.56		04/21/98	5,355.05
	01/25/99	5,356.51		05/27/98	5,355.05
	05/10/99	5,356.35		08/07/98	5,355.06
	08/09/99	5,356.25		09/08/98	5,354.80

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude	Well	Date	Water-level altitude
DP-5—Continued	10/20/98	5,355.03	FC-1—Continued	05/27/98	5,370.28
	11/23/98	5,355.00		06/22/98	5,369.75
	12/14/98	5,355.09		08/07/98	5,369.28
	01/25/99	5,354.97		09/11/98	5,369.38
	05/10/99	5,354.91		10/20/98	5,369.83
	08/09/99	5,355.09		11/23/98	5,370.35
	10/26/99	5,354.91		12/14/98	5,370.33
	12/02/99	5,355.04		01/25/99	5,370.63
DS-1	08/06/98	5,355.59	FC-2	05/10/99	5,370.29
	09/11/98	5,355.53		08/09/99	5,369.83
	10/19/98	5,355.67		10/26/99	5,369.69
	11/23/98	5,355.80		12/02/99	5,369.86
	12/14/98	5,355.82		09/13/96	5,355.54
	01/25/99	5,355.73		10/14/96	5,355.38
	05/10/99	5,355.64		11/15/96	5,355.53
	08/09/99	5,355.61		12/16/96	5,355.58
	10/26/99	5,355.52		01/27/97	5,355.71
	12/02/99	5,355.58		02/24/97	5,355.63
DS-2	06/14/00	5,355.37		04/08/97	5,355.60
	08/06/98	5,355.56		05/30/97	5,355.54
	09/11/98	5,355.53		06/19/97	5,355.45
	10/19/98	5,355.61		07/10/97	5,355.37
	11/23/98	5,355.72		08/25/97	5,355.26
	12/14/98	5,355.73		09/25/97	5,355.33
	01/25/99	5,355.67		10/30/97	5,355.39
	05/10/99	5,355.57		11/20/97	5,355.45
	08/09/99	5,355.54		12/16/97	5,355.48
	10/26/99	5,355.44		01/26/98	5,355.50
FC-1	12/02/99	5,355.53		03/02/98	5,355.50
	06/14/00	5,355.37		04/21/98	5,355.68
	09/14/96	5,369.82		05/27/98	5,355.38
	10/15/96	5,370.01		06/22/98	5,355.39
	12/16/96	5,370.46		09/08/98	5,355.27
	01/27/97	5,370.84		10/20/98	5,355.45
	02/24/97	5,370.65		11/23/98	5,355.48
	04/10/97	5,370.60		12/14/98	5,355.53
	05/29/97	5,370.16		01/25/99	5,355.42
	07/11/97	5,369.32		05/10/99	5,355.35
FC-3	08/25/97	5,369.62		08/09/99	5,355.36
	09/26/97	5,369.96		10/26/99	5,355.27
	12/17/97	5,370.45		12/02/99	5,355.36
	01/26/98	5,370.64		09/13/96	5,356.07
	03/02/98	5,370.75		10/14/96	5,356.01
	04/21/98	5,370.65		12/16/96	5,356.11
				01/27/97	5,356.26

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude	Well	Date	Water-level altitude
FC-3—Continued	02/24/97	5,356.20	FC-4—Continued	05/10/99	5,356.51
	04/08/97	5,356.18		08/09/99	5,356.42
	05/28/97	5,356.23		10/26/99	5,356.32
	06/19/97	5,355.97		12/02/99	5,356.37
	07/10/97	5,355.87	FC-5	09/13/96	5,357.48
	08/24/97	5,355.93		12/16/96	5,357.78
	09/22/97	5,356.17		01/27/97	5,357.84
	10/27/97	5,356.28		02/24/97	5,357.81
	12/17/97	5,356.33		04/08/97	5,357.78
	01/27/98	5,356.33		05/29/97	5,357.66
	03/02/98	5,356.34		07/11/97	5,357.19
	04/21/98	5,356.32		08/25/97	5,357.48
	05/27/98	5,356.20		09/25/97	5,357.80
	06/22/98	5,356.06		12/17/97	5,357.89
	08/07/98	5,356.09		01/26/98	5,357.85
	09/08/98	5,355.96		03/02/98	5,357.87
	10/20/98	5,356.23		04/21/98	5,357.85
	11/23/98	5,356.35		05/27/98	5,357.66
	12/14/98	5,356.38		06/22/98	5,357.42
	01/25/99	5,356.25		08/07/98	5,357.36
	05/10/99	5,356.18		09/08/98	5,356.91
	08/13/99	5,356.01		10/20/98	5,357.51
	10/26/99	5,356.02		11/23/98	5,358.95
	12/02/99	5,356.07		12/14/98	5,357.94
FC-4	09/13/96	5,356.46		01/25/99	5,357.86
	10/14/96	5,356.40	FC-7	05/10/99	5,357.69
	12/16/96	5,356.56		08/09/99	5,357.48
	01/27/97	5,356.70		10/26/99	5,357.26
	02/24/97	5,356.67		12/02/99	5,357.46
	04/08/97	5,356.70		09/14/96	5,355.89
	05/29/97	5,356.57		10/14/96	5,356.22
	07/11/97	5,356.29		12/16/96	5,356.42
	08/25/97	5,356.45		01/27/97	5,356.58
	09/25/97	5,356.54		02/24/97	5,356.93
	12/17/97	5,356.73		05/29/97	5,356.69
	01/26/98	5,356.72		07/11/97	5,356.27
	03/02/98	5,356.71		08/25/97	5,356.18
	04/21/98	5,356.70		09/25/97	5,356.37
	05/27/98	5,356.54		12/17/97	5,356.49
	06/22/98	5,356.35		01/26/98	5,356.47
	08/07/98	5,356.36		03/02/98	5,356.47
	09/08/98	5,356.23		05/27/98	5,356.44
	10/20/98	5,356.53		06/22/98	5,356.34
	11/23/98	5,356.72		08/07/98	5,356.20
	12/14/98	5,356.73		09/08/98	5,356.11
	01/25/99	5,356.66			

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude	Well	Date	Water-level altitude
FC-7—Continued	10/20/98	5,356.20	FC-16S	08/07/98	5,368.38
	11/23/98	5,356.37		09/11/98	5,368.44
	12/14/98	5,356.47		10/20/98	5,368.80
	01/25/99	5,356.46		11/23/98	5,369.17
	05/10/99	5,356.34		12/14/98	5,369.09
	08/09/99	5,356.40		01/25/99	5,369.29
	10/26/99	5,356.12		05/10/99	5,369.10
	12/02/99	5,356.18		08/09/99	5,368.83
FC-8				10/26/99	5,368.72
	09/14/96	5,357.98		12/02/99	5,368.81
	10/15/96	5,358.05	FC-17	09/11/98	5,358.19
	12/16/96	5,358.21		10/20/98	5,358.67
	01/27/97	5,358.29		11/23/98	5,359.58
	02/24/97	5,358.27		12/14/98	5,359.56
	04/08/97	5,358.26		01/25/99	5,359.54
	05/29/97	5,358.09		05/10/99	5,359.20
	07/11/97	5,357.40		08/09/99	5,358.73
	08/25/97	5,357.70		10/26/99	5,358.72
	09/25/97	5,358.21		12/02/99	5,358.79
	12/17/97	5,358.26	FC-18	09/09/98	5,353.22
	01/26/98	5,358.24		10/20/98	5,353.77
	03/02/98	5,358.24		11/23/98	5,353.87
	04/21/98	5,358.23		12/14/98	5,353.95
	05/27/98	5,358.04		01/25/99	5,353.81
	06/22/98	5,357.69		05/10/99	5,353.77
	08/07/98	5,357.53		08/09/99	5,353.78
	09/08/98	5,357.27		10/26/99	5,353.56
	10/20/98	5,357.73		12/02/99	5,353.64
	11/23/98	5,358.31	FC-19	09/09/98	5,355.84
	12/14/98	5,358.25		10/20/98	5,356.20
	01/25/99	5,358.22		11/23/98	5,356.29
	05/10/99	5,357.98		12/14/98	5,356.38
	08/09/99	5,357.80		01/25/99	5,356.30
	10/26/99	5,357.65		05/10/99	5,356.15
	12/02/99	5,357.69		08/09/99	5,356.07
FC-16D	08/07/98	5,359.37		10/26/99	5,355.97
	09/11/98	5,359.12		12/02/99	5,356.03
	10/20/98	5,359.64	PO4FS1	09/23/97	5,355.66
	11/23/98	5,359.88		10/28/97	5,355.79
	12/14/98	5,359.85		11/20/97	5,355.83
	01/25/99	5,359.91		01/30/98	5,355.81
	05/10/99	5,360.01		03/03/98	5,355.81
	08/09/99	5,360.12		04/24/98	5,355.77
	10/26/99	5,359.83			
	12/02/99	5,360.13			

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude	Well	Date	Water-level altitude
PO4FS1—Continued	05/27/98	5,355.69	PO4T2—Continued	11/23/98	5,355.79
	06/22/98	5,355.62		12/14/98	5,355.82
	08/06/98	5,355.61		01/25/99	5,355.77
	09/09/98	5,355.57		05/10/99	5,355.67
	10/19/98	5,355.70		08/09/99	5,355.61
	11/23/98	5,355.84		10/26/99	5,355.56
	12/14/98	5,355.85		12/02/99	5,355.60
	01/25/99	5,355.77		06/14/00	5,355.49
	05/10/99	5,355.67	PO4T3	09/23/97	5,355.70
	08/09/99	5,355.64		10/28/97	5,355.81
	10/26/99	5,355.57		11/20/97	5,355.86
	12/02/99	5,355.65		12/16/97	5,355.86
	06/14/00	5,355.52		01/30/98	5,355.82
PO4T1	09/23/97	5,355.71		03/03/98	5,355.83
	10/27/97	5,355.81		04/24/98	5,355.90
	11/20/97	5,355.85		05/27/98	5,355.70
	12/16/97	5,355.86		06/22/98	5,355.62
	01/30/98	5,355.83		08/06/98	5,355.63
	03/03/98	5,355.84		09/09/98	5,355.59
	04/24/98	5,355.79		10/19/98	5,355.77
	05/27/98	5,355.70		11/23/98	5,355.86
	06/22/98	5,355.60		12/14/98	5,355.86
	08/06/98	5,355.64		01/25/99	5,355.79
	09/09/98	5,355.60		05/10/99	5,355.71
	10/19/98	5,355.71		08/09/99	5,355.68
	11/23/98	5,355.81		10/26/99	5,355.59
	12/14/98	5,355.86		12/02/99	5,355.68
PO4T2	01/25/99	5,355.79	TI-1	06/14/00	5,355.43
	05/10/99	5,355.75		08/06/98	5,355.64
	08/09/99	5,355.65		09/11/98	5,355.50
	10/26/99	5,355.56		10/19/98	5,355.66
	12/02/99	5,355.64		11/23/98	5,355.85
	06/14/00	5,355.81		12/14/98	5,355.90
	09/23/97	5,355.65		01/25/99	5,355.72
	10/27/97	5,355.79		05/10/99	5,355.70
	11/20/97	5,355.81		08/09/99	5,355.70
	12/16/97	5,355.96		10/26/99	5,355.54
	01/30/98	5,355.80		12/02/99	5,355.64
	03/03/98	5,355.82		06/14/00	5,355.40
	04/24/98	5,355.77	TI-2	08/06/98	5,355.84
	05/27/98	5,355.69		10/19/98	5,355.94
	06/22/98	5,355.59		11/23/98	5,356.10
	08/06/98	5,355.61		12/14/98	5,356.09
	09/09/98	5,355.53		01/25/99	5,355.92
	10/19/98	5,355.66			

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude	Well	Date	Water-level altitude
TI-2—Continued	05/10/99	5,355.92	ZVIFS1—Continued	06/22/98	5,355.66
	08/09/99	5,355.89		08/06/98	5,355.63
	10/26/99	5,355.76		09/09/98	5,355.59
	12/02/99	5,355.83		10/19/98	5,355.77
	06/14/00	5,355.55		12/14/98	5,355.86
TI-3				01/25/99	5,355.82
	08/06/98	5,355.95		05/10/99	5,355.71
	09/11/98	5,355.92		08/09/99	5,355.66
	10/19/98	5,356.11		10/26/99	5,355.57
	11/23/98	5,356.30		12/02/99	5,355.64
	12/14/98	5,356.33		06/14/00	5,355.50
	01/25/99	5,356.22			
	05/10/99	5,356.10	ZVIT1	09/24/97	5,355.69
	08/09/99	5,356.04		10/29/97	5,355.81
	10/26/99	5,355.93		11/20/97	5,355.83
	12/02/99	5,355.99		12/16/97	5,355.84
	06/14/00	5,355.69		01/30/98	5,355.82
W-1				03/03/98	5,355.87
	08/06/98	5,355.66		04/24/98	5,355.78
	09/11/98	5,355.65		05/27/98	5,355.97
	10/19/98	5,355.76		06/22/98	5,355.62
	11/23/98	5,355.85		08/06/98	5,355.62
	12/14/98	5,355.88		09/09/98	5,355.55
	01/25/99	5,355.77		10/19/98	5,355.74
	05/10/99	5,355.73		11/23/98	5,355.83
	08/09/99	5,355.69		12/14/98	5,355.86
	10/26/99	5,355.57		01/25/99	5,355.78
W-2	12/02/99	5,355.66		05/10/99	5,355.69
	06/14/00	5,355.49		08/09/99	5,355.64
				10/26/99	5,355.55
	08/06/98	5,355.68		12/02/99	5,355.64
	09/11/98	5,355.69		06/14/00	5,355.42
	10/19/98	5,355.79	ZVIT2		
	11/23/98	5,355.93		09/24/97	5,355.69
	12/14/98	5,355.94		10/29/97	5,355.80
	01/25/99	5,355.83		11/20/97	5,355.82
	05/10/99	5,355.82		12/16/97	5,355.84
	08/09/99	5,355.74		01/30/98	5,355.92
	10/26/99	5,355.63		03/03/98	5,355.87
	12/02/99	5,355.71		04/24/98	5,355.81
	06/14/00	5,355.43		05/27/98	5,355.70
ZVIFS1	09/24/97	5,355.71		06/22/98	5,355.63
	10/29/97	5,355.83		08/06/98	5,355.62
	01/30/98	5,355.83		09/09/98	5,355.56
	03/03/98	5,355.84		10/19/98	5,355.72
	04/24/98	5,355.79		11/23/98	5,355.82
	05/27/98	5,355.72		12/14/98	5,355.84

Table 10. Water-level altitude in selected wells within and adjacent to the permeable reactive barriers, Fry Canyon, Utah—Continued

Well	Date	Water-level altitude
ZVIT2—Continued	01/25/99	5,355.77
	05/10/99	5,355.68
	08/09/99	5,355.63
	10/26/99	5,355.55
	12/02/99	5,355.64
	06/14/00	5,355.70
ZVIT3	09/24/97	5,355.71
	10/29/97	5,355.83
	11/20/97	5,355.83
	12/16/97	5,355.86
	01/30/98	5,355.83
	03/03/98	5,355.84
	04/24/98	5,355.79
	05/27/98	5,355.72
	06/22/98	5,355.64
	08/06/98	5,355.61
	09/09/98	5,355.85
	10/19/98	5,355.76
	11/23/98	5,355.84
	12/14/98	5,355.88
	01/25/99	5,355.84
	05/10/99	5,355.70
	08/09/99	5,355.66
	10/26/99	5,355.61
	12/02/99	5,355.65
	06/15/00	5,355.39

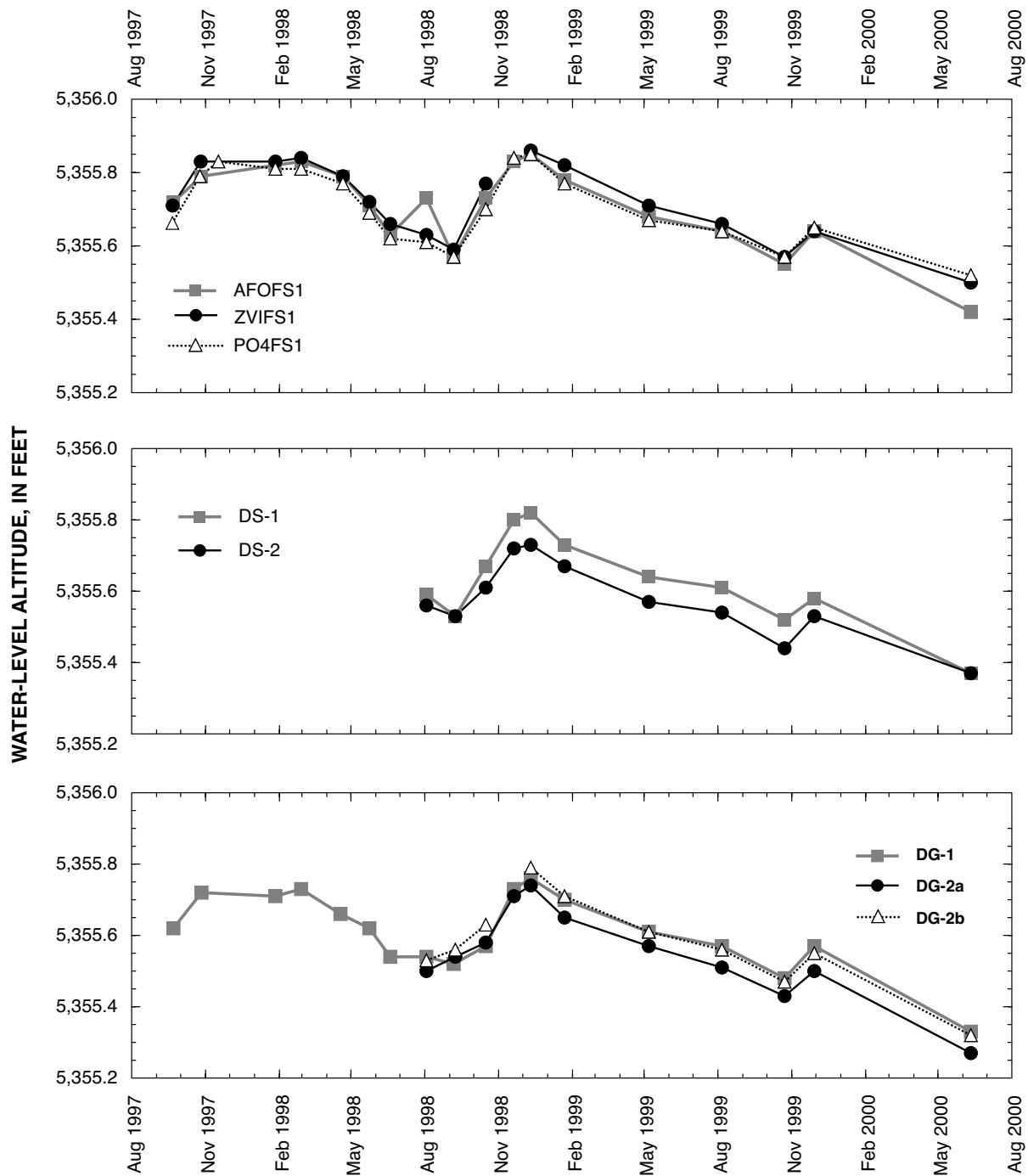


Figure 11. Monthly water-level altitude measured in wells within and immediately downgradient from the permeable reactive barriers, Fry Canyon, Utah.

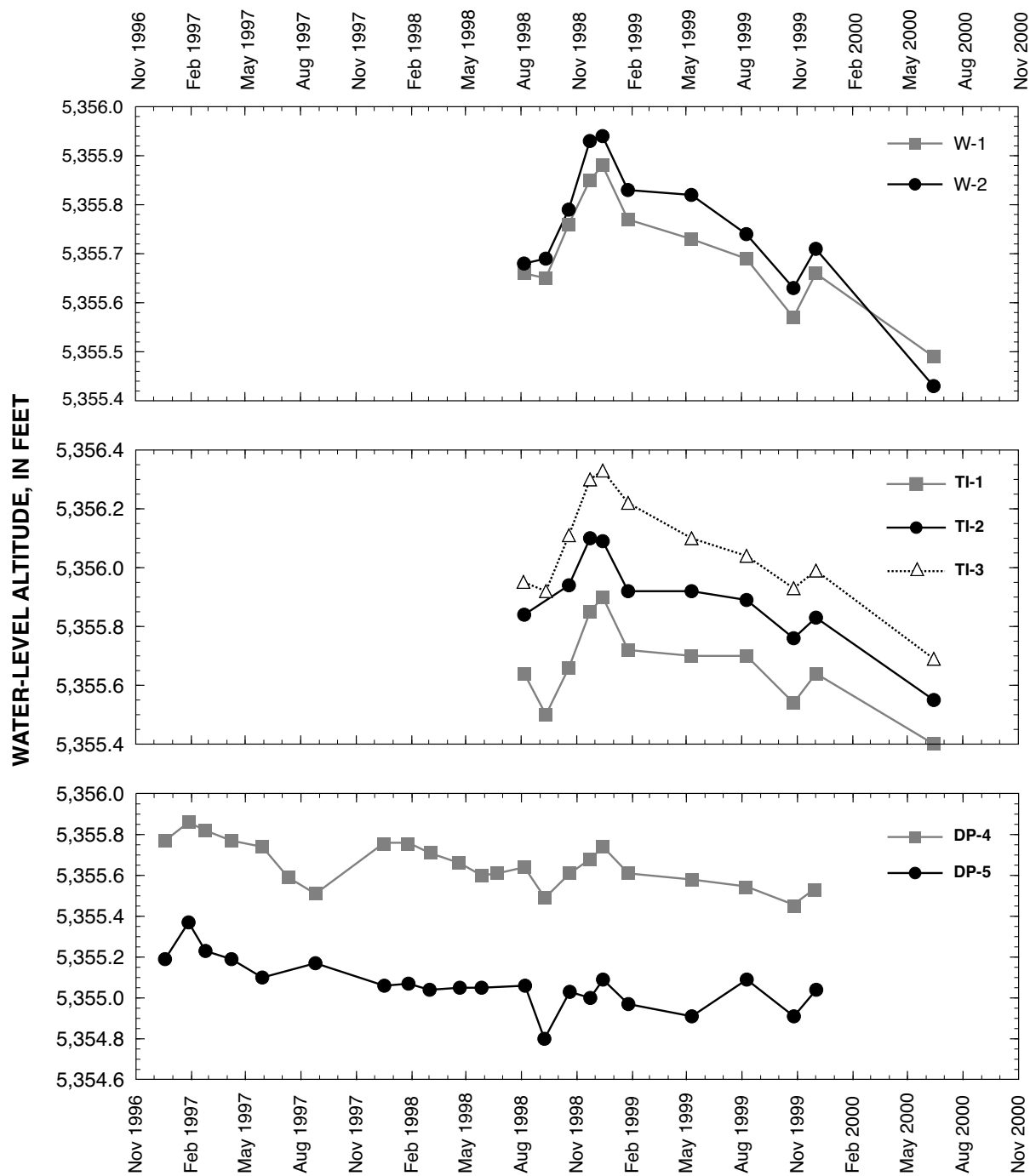


Figure 12 Monthly water-level altitude measured in wells near the permeable reactive barriers, Fry Canyon, Utah.

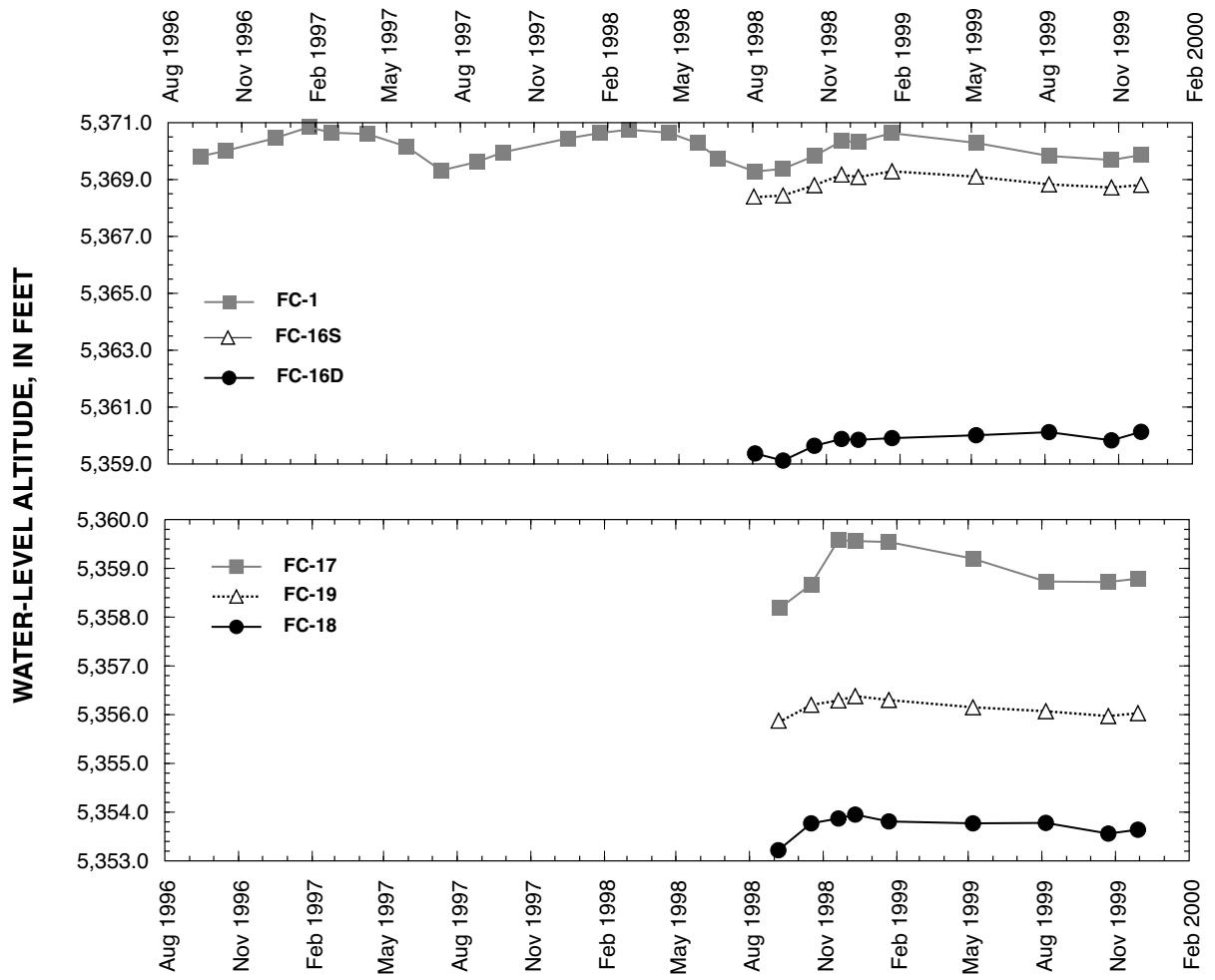


Figure 14. Monthly water-level altitude measured in wells upgradient from the permeable reactive barriers, Fry Canyon, Utah.

Table 11. Mean daily values for water temperature, pH, specific conductance, and Eh in water from well AFOT3 in the amorphous ferric oxyhydroxide permeable reactive barrier, Fry Canyon, Utah

[—, no data available; measurements made with a water-quality monitor installed in well AFOT3; solid line indicates when monitor was serviced; **Water temperature:** °C, degrees Celsius; **Specific conductance:** μS/cm, microsiemens per centimeter at 25 degrees Celsius; **Eh:** Oxidation reduction potential; mV, millivolts.

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Eh (mV)
09/05/97	19.4	7.6	1,990	—
09/10/97	18.6	7.5	1,880	—
09/15/97	18.3	7.4	1,990	—
09/20/97	18.2	7.4	1,890	—
09/27/97	17.9	7.5	1,810	467
09/30/97	17.8	7.5	1,740	525
10/03/97	17.6	7.9	1,850	424
10/10/97	17.3	8.7	1,840	320
10/15/97	16.9	8.6	1,860	320
10/20/97	16.4	8.3	1,870	374
10/25/97	15.9	8.2	1,880	449
11/01/97	15.2	8.2	1,890	482
11/06/97	14.7	8.1	1,880	502
11/11/97	14.4	8.1	1,890	453
11/16/97	13.9	8.1	1,890	457
11/25/97	13.3	8.2	1,860	472
11/30/97	12.9	8.3	1,850	461
12/05/97	12.5	8.3	1,840	458
12/10/97	12.2	8.4	1,840	444
12/15/97	11.8	8.4	1,830	434
12/20/97	11.4	8.4	1,770	490
12/25/97	11.0	8.4	1,760	499
12/30/97	10.7	8.3	1,740	507
01/04/98	10.4	8.3	1,727	515
01/09/98	10.1	8.3	1,730	524
01/14/98	9.8	8.3	1,710	529
01/19/98	9.6	8.2	1,700	533
01/24/98	9.5	8.2	1,680	536
01/31/98	8.7	8.2	1,650	542
02/05/98	8.7	8.3	1,660	545
02/10/98	8.6	8.3	1,670	533
02/15/98	8.7	8.3	1,670	502
02/20/98	8.6	8.2	1,680	528
02/25/98	8.6	8.2	1,690	521
03/01/98	8.6	8.2	1,690	516
03/06/98	8.6	8.2	1,690	537
03/11/98	8.6	8.2	1,690	577
03/16/98	8.5	8.7	1,690	561
03/21/98	8.7	8.7	1,700	537
03/26/98	8.9	8.6	1,730	506

Table 11. Mean daily values for water temperature, pH, specific conductance, and Eh in water from well AFOT3 in the amorphous ferric oxyhydroxide permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Eh (mV)
03/31/98	9.2	8.4	1,730	499
04/05/98	9.5	8.4	1,740	505
04/10/98	9.6	8.5	1,740	495
04/15/98	9.8	8.5	1,740	488
04/20/98	10.1	8.4	1,740	501
04/25/98	10.3	8.4	1,740	507
04/30/98	10.6	8.3	1,850	528
05/05/98	10.9	8.1	1,980	531
05/10/98	11.4	7.9	2,120	526
05/15/98	11.8	7.8	2,260	525
05/20/98	12.1	7.7	2,400	527
05/25/98	12.5	7.4	2,540	528
05/30/98	12.2	7.4	2,560	534
06/04/98	12.5	7.4	2,460	357
06/09/98	12.9	7.5	2,320	366
06/14/98	13.2	7.6	2,160	390
06/19/98	13.5	7.7	1,980	390
06/22/98	13.7	7.7	1,880	377
06/27/98	14.6	7.7	1,860	369
07/02/98	15.0	7.9	1,870	197
07/07/98	15.5	7.9	1,890	144
07/12/98	16.0	7.9	1,910	125
07/17/98	16.43	7.9	1,940	102
07/22/98	16.8	7.9	1,980	97
07/27/98	17.2	7.9	1,990	199
08/02/98	17.5	7.8	2,100	382
08/07/98	17.4	7.8	2,080	413
08/12/98	17.7	7.8	2,140	356
08/17/98	17.8	7.6	2,170	367
08/22/98	17.9	7.5	2,180	382
08/27/98	18.0	7.4	2,220	369
09/01/98	18.2	7.4	2,240	311
09/06/98	18.3	7.4	2,270	337
09/13/98	17.8	7.5	2,140	485
09/18/98	17.7	7.7	1,940	385
09/23/98	18.3	7.7	1,870	556
09/28/98	18.2	7.5	1,900	596
10/03/98	18.0	7.4	2,030	590
10/08/98	17.7	7.4	2,160	572
10/13/98	17.4	7.3	2,320	532
10/18/98	17.0	7.2	2,500	425

Table 11. Mean daily values for water temperature, pH, specific conductance, and Eh in water from well AFOT3 in the amorphous ferric oxyhydroxide permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Eh (mV)
10/24/98	16.5	7.1	2,480	587
10/29/98	16.1	7.3	2,330	581
11/03/98	15.7	7.3	2,200	594
11/08/98	15.3	7.4	2,130	589
11/13/98	14.9	7.5	1,970	576
11/18/98	14.4	7.6	1,900	569
11/23/98	13.9	7.7	1,880	565
11/28/98	12.8	7.7	1,920	521
12/03/98	12.4	7.7	1,910	466
12/08/98	12.1	7.7	1,920	377
12/13/98	11.8	7.7	1,920	380
12/18/98	11.3	7.7	1,910	509
12/23/98	10.9	7.7	1,890	514
12/28/98	10.5	7.6	1,870	586
01/02/99	10.1	7.6	1,860	618
01/07/99	9.9	7.6	1,860	612
01/12/99	9.6	7.6	1,840	604
01/17/99	9.4	7.6	1,830	594
01/22/99	9.1	7.5	1,820	587
01/27/99	9.0	7.5	1,850	580
02/01/99	9.0	7.5	1,840	585
02/06/99	8.9	7.5	1,850	584
02/11/99	8.9	7.6	1,850	575
02/16/99	8.9	7.6	1,850	544
02/21/99	8.9	7.7	1,840	522
02/27/99	8.9	7.6	1,930	562
03/04/99	9.0	7.6	2,060	608
03/09/99	9.1	7.5	2,210	622
03/14/99	9.3	7.4	2,360	629
03/19/99	9.5	7.4	2,510	633
03/24/99	9.7	7.4	2,670	630
03/29/99	10.0	7.4	2,810	633
04/03/99	10.3	7.3	2,990	632
04/08/99	10.5	7.2	3,120	632
04/13/99	10.5	7.2	3,280	637
04/20/99	10.9	7.1	3,270	633
04/25/99	10.9	7.2	3,020	517
04/30/99	11.1	7.3	2,750	388
05/05/99	11.2	7.4	2,470	248
05/10/99	11.3	7.5	2,180	111

Table 12. Mean daily values for water temperature, pH, specific conductance, and Eh in water from well PO4T3 in the phosphate permeable reactive barrier, Fry Canyon, Utah

[—, no data available; measurements made with a water-quality monitor installed in well PO4T3; solid line indicates when monitor was serviced; **Water temperature:** °C, degrees Celsius; **Specific conductance:** μS/cm, microsiemens per centimeter at 25 degrees Celsius; **Eh:** Oxidation reduction potential; mV, millivolts.

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Eh (mV)
09/05/97	17.4	6.4	1,860	—
09/10/97	17.9	6.5	2,060	—
09/15/97	17.4	6.6	1,970	—
09/20/97	17.8	6.7	2,100	—
09/27/97	17.1	6.7	2,060	268
10/02/97	16.9	6.8	2,110	440
10/07/97	16.7	6.8	2,160	209
10/12/97	16.7	6.8	2,200	487
10/17/97	16.3	6.9	2,200	457
10/22/97	15.9	6.9	2,190	470
10/27/97	15.5	6.9	2,190	261
11/05/97	14.6	6.7	2,180	313
11/10/97	14.2	6.8	2,160	365
11/15/97	13.9	6.8	2,140	275
11/21/97	13.5	6.8	2,130	248
11/26/97	13.1	6.9	2,150	436
12/01/97	12.8	6.9	2,150	402
12/06/97	12.4	6.9	2,140	392
12/11/97	12.2	7.0	2,130	359
12/16/97	12.0	7.0	2,120	297
12/21/97	11.9	7.3	2,120	475
12/26/97	11.5	7.4	2,100	469
12/31/97	11.3	7.3	2,090	455
01/05/98	11.0	7.3	2,060	435
01/10/98	10.8	7.2	2,040	410
01/15/98	10.6	7.2	2,020	388
01/20/98	10.5	7.2	2,000	360
01/25/98	10.4	7.1	1,980	336
01/31/98	10.1	7.1	1,960	328
02/05/98	10.1	7.3	1,980	430
02/10/98	10.2	7.4	1,970	441
02/15/98	10.2	7.4	1,960	445
02/20/98	10.2	7.3	1,940	443
02/25/98	9.9	7.3	1,930	437
03/04/98	9.5	7.2	1,970	424
03/09/98	9.3	7.5	2,010	465
03/14/98	9.2	7.4	2,000	491
03/19/98	9.0	7.4	1,990	490
03/24/98	9.1	7.4	2,000	453
03/29/98	9.5	7.2	2,010	433

Table 12. Mean daily values for water temperature, pH, specific conductance, and Eh in water from well PO4T3 in the phosphate permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Eh (mV)
04/03/98	9.7	7.3	2,010	416
04/08/98	9.8	7.3	2,010	395
04/13/98	9.9	7.2	2,030	369
04/18/98	10.2	7.2	2,040	381
04/26/98	10.5	7.3	2,040	401
05/01/98	10.8	7.4	2,060	438
05/06/98	11.1	7.4	2,020	355
05/11/98	11.5	7.4	2,020	308
05/16/98	11.8	7.4	2,020	273
05/21/98	12.1	7.5	2,040	217
05/26/98	12.3	7.5	2,040	138
06/02/98	12.8	7.5	2,050	109
06/07/98	13.2	7.4	2,060	120
06/12/98	13.6	7.4	2,090	161
06/17/98	13.9	7.3	2,090	133
06/22/98	14.1	7.3	2,090	136
06/26/98	14.4	7.3	2,100	96
07/01/98	14.7	7.3	2,100	58
07/05/98	15.0	7.3	2,110	-59
07/10/98	15.5	7.2	2,140	-15
07/15/98	15.9	7.2	2,120	164
07/20/98	16.1	7.1	2,110	272
07/25/98	16.6	7.1	2,080	105
07/30/98	17.0	7.0	2,060	40
08/07/98	17.0	7.0	2,050	-51
08/12/98	17.0	7.0	2,020	-102
08/17/98	17.0	7.0	2,000	-58
08/22/98	17.2	6.9	1,990	-16
08/27/98	17.3	6.9	1,980	22
09/01/98	17.4	6.9	1,960	54
09/06/98	17.6	6.9	1,980	90
09/13/98	17.8	7.0	2,000	41
09/18/98	16.8	7.1	1,970	64
09/23/98	17.1	7.1	2,000	-26
09/28/98	17.3	7.2	1,950	-157
10/03/98	17.2	7.2	1,970	-178
10/08/98	17.1	7.3	1,960	-190
10/13/98	16.7	7.3	1,920	-202
10/18/98	16.5	7.5	2,030	316
10/23/98	16.1	6.9	1,970	62
10/28/98	15.7	7.1	2,310	14
11/02/98	15.3	7.1	2,230	32

Table 12. Mean daily values for water temperature, pH, specific conductance, and Eh in water from well PO4T3 in the phosphate permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Eh (mV)
11/07/98	15.0	7.1	2,230	46
11/12/98	15.0	7.1	2,190	57
11/17/98	15.0	7.1	2,150	68
11/22/98	14.7	7.2	2,260	118
11/27/98	14.5	7.4	2,340	10
12/02/98	14.3	7.5	2,450	-11
12/07/98	14.1	7.5	2,530	67
12/12/98	13.9	7.5	2,590	151
12/17/98	13.5	7.3	2,480	267
12/22/98	13.3	7.4	2,500	74
12/27/98	13.1	7.5	2,450	-53
01/01/99	12.8	7.5	2,410	-15
01/05/99	12.7	7.4	2,380	22
01/10/99	12.4	7.4	2,320	68
01/15/99	12.2	7.4	2,250	112
01/20/99	12.1	7.4	2,180	160
01/25/99	11.9	7.3	2,110	205
01/30/99	10.2	7.3	2,190	230
02/04/99	10.3	7.3	2,180	402
02/09/99	10.4	7.3	2,180	403
02/14/99	10.4	7.2	2,190	358
02/19/99	10.3	7.3	2,180	323
02/25/99	9.9	7.2	2,140	360
03/02/99	10.1	7.3	2,170	514
03/07/99	10.3	7.3	2,160	546
03/12/99	10.3	7.4	2,150	552
03/17/99	10.4	7.5	2,140	543
03/22/99	10.4	7.4	2,150	198
03/27/99	10.5	7.4	2,140	174
04/01/99	10.6	7.5	2,150	485
04/06/99	10.8	7.6	2,170	570
04/11/99	10.8	7.7	2,170	578
04/20/99	10.9	7.6	2,110	454
04/25/99	11.0	7.5	2,190	440
04/30/99	11.1	7.4	2,200	359
05/05/99	11.2	7.4	2,230	274
05/10/99	11.3	7.3	2,240	183

Table 13. Mean daily values for water temperature, pH, specific conductance, dissolved oxygen, and Eh in water from well ZVIT3 in the zero-valent iron permeable reactive barrier, Fry Canyon, Utah

[<, below reporting limit; —, no data available; measurements made with a water-quality monitor installed in well ZVIT3; solid line indicates when monitor was serviced; **Water temperature:** °C, degrees Celsius; **Specific conductance:** µS/cm, microsiemens per centimeter at 25 degrees Celsius; **Dissolved oxygen:** mg/L, milligrams per liter; **Eh:** Oxidation reduction potential; mV, millivolts]

Date	Water temperature (°C)	pH (standard units)	Specific conductance (µS/cm)	Dissolved oxygen (mg/L)	Eh (mV)
09/05/97	18.4	9.6	2,000	<0.10	—
09/10/97	18.1	9.1	1,790	<.10	—
09/15/97	17.7	8.8	1,770	<.10	—
09/20/97	17.8	9.0	1,770	<.10	—
09/27/97	17.6	9.1	1,800	<.10	-493
09/30/97	17.5	9.2	1,780	<.10	-463
10/05/97	17.3	9.5	1,790	<.10	-291
10/10/97	17.1	9.4	1,820	<.10	-248
10/15/97	16.8	9.3	1,800	<.10	-207
10/20/97	16.4	9.3	1,760	<.10	-160
10/25/97	16.0	9.3	1,790	<.10	-111
11/01/97	15.3	9.3	1,820	<.10	-108
11/05/97	14.9	9.2	1,730	<.10	-180
11/10/97	14.5	9.3	2,110	<.10	-118
11/15/97	14.2	9.2	2,040	<.10	-102
11/21/97	13.7	9.2	1,870	<.10	-25
11/26/97	13.3	9.4	1,800	<.10	-188
12/01/97	12.9	9.3	1,940	<.10	-14
12/06/97	12.6	9.5	1,930	<.10	-78
12/11/97	12.3	9.5	1,820	<.10	-37
12/16/97	11.8	9.5	1,700	<.10	-8
12/21/97	11.2	9.4	1,490	<.10	-167
12/26/97	10.9	9.5	1,310	<.10	-189
12/31/97	10.6	9.6	1,060	<.10	-181
01/05/98	10.3	9.6	780	<.10	-137
01/10/98	10.0	9.6	780	<.10	-43
01/15/98	9.8	9.6	840	<.10	-4
01/20/98	9.5	9.6	970	<.10	-57
01/25/98	9.4	9.6	1,290	<.10	-71
02/02/98	9.4	9.5	1,560	<.10	-120
02/07/98	9.3	9.6	1,500	<.10	-50
02/12/98	9.3	9.6	1,550	<.10	18
02/17/98	9.3	9.6	1,620	<.10	49
02/22/98	9.3	9.6	1,570	<.10	64
02/27/98	9.2	9.5	1,470	<.10	-5
03/05/98	9.2	9.5	1,580	<.10	-8
03/10/98	9.1	9.5	1,400	<.10	-106
03/15/98	9.1	9.5	1,360	<.10	-79

Table 13. Mean daily values for water temperature, pH, specific conductance, dissolved oxygen, and Eh in water from well ZVIT3 in the zero-valent iron permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)	Eh (mV)
03/20/98	9.1	9.6	1,460	<.10	-92
03/25/98	9.2	9.5	1,420	<.10	-113
03/30/98	9.5	9.5	1,280	<.10	-84
04/04/98	9.8	9.5	1,150	.06	-54
04/09/98	9.9	9.5	940	.13	-40
04/14/98	10.0	9.5	1,170	.20	-12
04/19/98	10.2	9.5	1,440	.26	22
04/25/98	10.5	9.5	1,600	.29	7
04/30/98	10.7	9.4	1,590	.29	-115
05/05/98	11.1	9.4	1,590	.29	-83
05/10/98	11.4	9.3	1,610	.30	-76
05/15/98	11.8	9.3	1,660	.33	-122
05/20/98	12.1	9.3	1,660	.39	-97
05/25/98	12.4	9.4	1,660	.42	-70
06/01/98	12.9	9.3	1,600	.37	-93
06/05/98	13.2	9.4	1,550	.29	-53
06/10/98	13.7	9.4	1,590	.23	-19
06/15/98	14.0	9.4	1,650	.29	-50
06/20/98	14.3	9.4	1,620	.46	1
06/26/98	14.8	9.4	1,610	.51	6
07/01/98	15.1	9.4	1,630	.26	-76
07/06/98	15.6	9.3	1,640	.28	-21
07/11/98	16.1	9.2	1,670	.28	32
07/16/98	16.5	9.0	1,700	.32	54
07/21/98	17.0	8.9	1,720	.37	92
07/26/98	17.3	8.8	1,730	.43	96
07/31/98	17.6	8.7	1,760	.57	148
08/08/98	17.4	8.5	1,790	.47	87
08/13/98	17.5	8.6	1,790	.37	-103
08/18/98	17.6	8.6	1,810	.38	-162
08/23/98	17.7	8.8	1,770	.36	-153
08/28/98	17.9	8.8	1,800	.33	-137
09/02/98	17.9	8.9	1,770	.32	-104
09/07/98	18.0	9.1	1,720	.28	-84
09/14/98	17.9	9.2	1,740	.33	-91
09/19/98	17.9	8.9	1,640	.40	-149
09/24/98	17.7	8.8	1,550	.45	-104
09/29/98	17.6	8.7	1,540	.50	-144
10/04/98	17.4	9.3	1,720	.54	-201
10/05/98	17.4	9.4	1,730	.55	-167
10/10/98	17.1	9.0	1,640	.61	-167

Table 13. Mean daily values for water temperature, pH, specific conductance, dissolved oxygen, and Eh in water from well ZVIT3 in the zero-valent iron permeable reactive barrier, Fry Canyon, Utah—Continued

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)	Eh (mV)
10/15/98	16.8	8.6	1,570	.67	-199
10/19/98	16.6	8.7	1,690	.66	-192
10/25/98	16.1	8.9	1,670	.66	-223
10/30/98	15.6	8.6	1,710	.38	-190
11/04/98	15.3	8.8	1,690	.16	-158
11/09/98	14.9	8.9	1,720	.33	-125
11/14/98	14.6	8.8	1,760	.31	-76
01/27/99	10.6	8.5	1,840	1.18	92
02/01/99	10.2	8.5	1,900	.93	-83
02/06/99	10.1	8.6	1,870	1.03	-24
02/11/99	10.0	8.6	1,850	1.06	36
02/16/99	10.0	8.6	1,820	1.12	98
02/21/99	9.9	8.6	1,800	1.26	160
02/27/99	9.8	8.6	1,830	.89	-130
03/04/99	9.8	8.6	1,820	.88	-158
03/09/99	9.9	8.7	1,780	.91	-189
03/14/99	10.0	8.7	1,770	.96	-188
03/19/99	10.0	8.7	1,760	1.02	-195
03/24/99	10.2	8.8	1,740	1.09	-197
03/29/99	10.4	8.8	1,720	1.16	-214
04/03/99	10.6	8.8	1,700	1.21	-199
04/08/99	10.7	8.8	1,690	1.26	-202
04/13/99	10.7	8.9	1,670	1.37	-185
04/20/99	10.8	9.0	1,640	1.28	-204
04/25/99	10.9	8.8	1,730	.97	-147
04/30/99	11.1	8.8	1,730	.88	-158
05/05/99	11.2	8.7	1,730	.92	-144
05/10/99	11.3	8.6	1,720	.93	-117

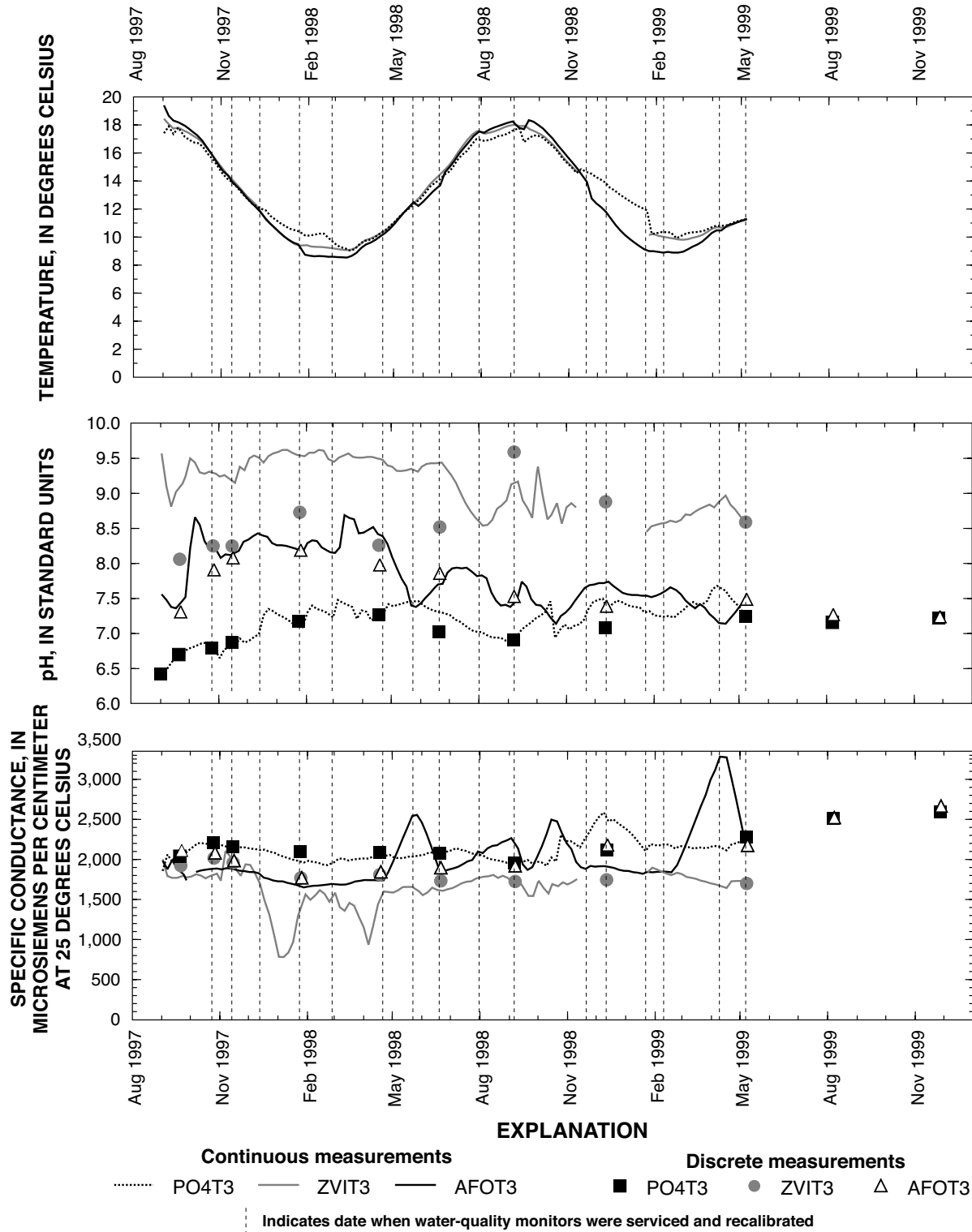
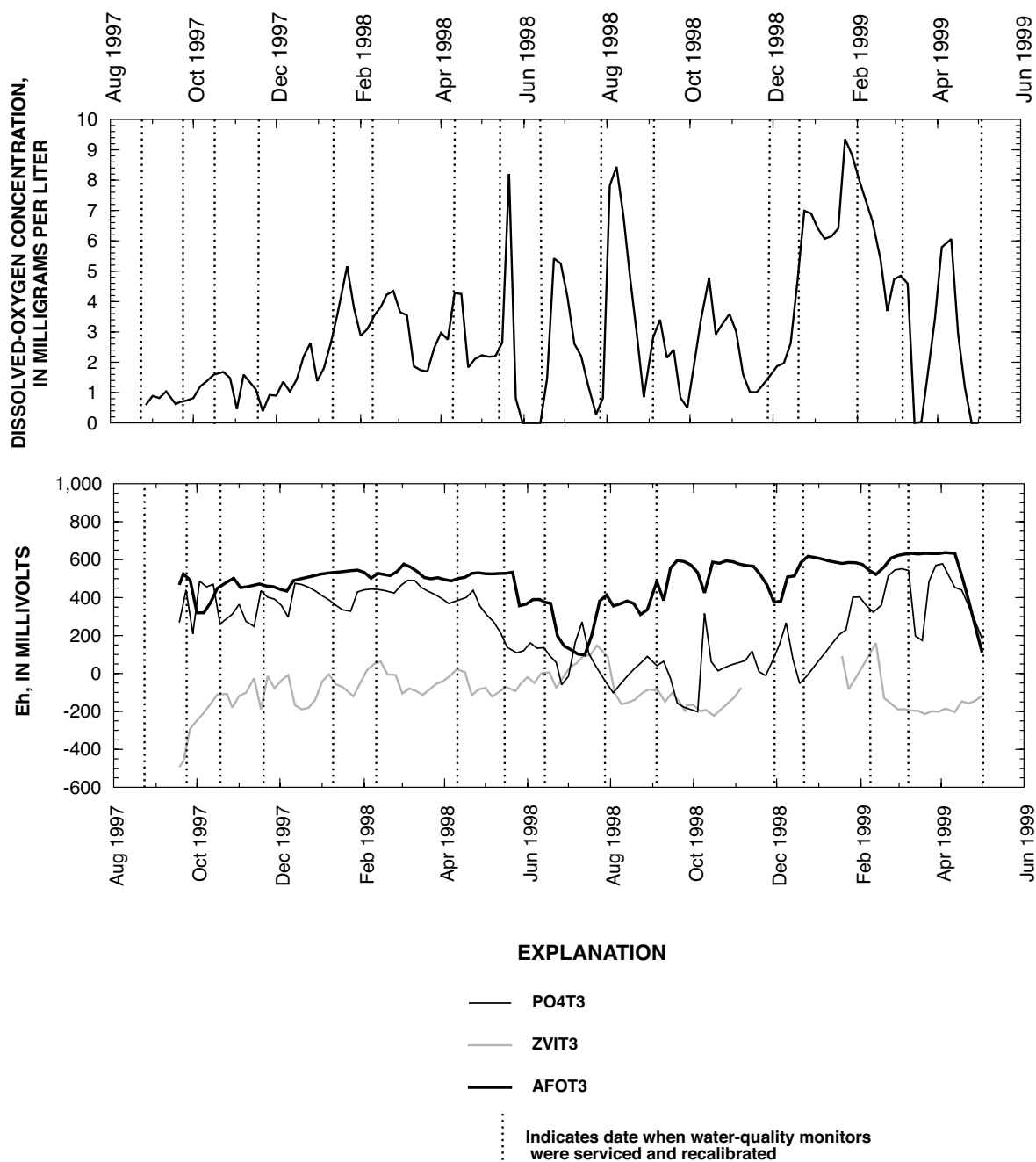


Figure 15. Mean daily values for water temperature, pH, and specific conductance for water from wells in the permeable reactive barriers, Fry Canyon, Utah.



Lines indicate continuous measurements made with a water-quality monitor. Dissolved-oxygen measurements were unreliable and not plotted for the phosphate and amorphous ferric oxyhydroxide permeable reactive barriers. Discrete measurements of dissolved oxygen and oxidation reduction potential (Eh) were not considered representative of true ground-water conditions because of low purge volumes during sampling; therefore, they are not presented.

Figure 16. Mean daily values for dissolved-oxygen concentration and Eh for water from wells in the permeable reactive barriers, Fry Canyon, Utah.

Table 14. Mean daily values for water temperature, pH, specific conductance, and dissolved oxygen in water from well FC-2, Fry Canyon, Utah

[Measurements made with water-quality monitor installed in well FC-2; solid line indicates when monitor was serviced; **Water temperature:** °C, degrees Celsius; **Specific conductance:** µS/cm, microsiemens per centimeter at 25 degrees Celsius; **Dissolved oxygen:** mg/L, milligrams per liter]

Date	Water temperature (°C)	pH (standard units)	Specific conductance (µS/cm)	Dissolved oxygen (mg/L)
08/26/97	16.9	7.0	2,110	0.63
08/31/97	16.9	7.0	2,140	.15
09/05/97	16.9	7.0	2,120	.13
09/10/97	16.9	7.1	2,090	.12
09/15/97	16.9	7.1	2,070	.12
09/20/97	16.9	7.0	2,050	.11
12/18/97	12.1	7.2	2,100	.23
12/23/97	11.7	7.2	2,080	.26
12/28/97	11.3	7.2	2,060	.28
01/02/98	11.0	7.2	2,040	.32
01/07/98	10.7	7.3	2,020	.35
01/12/98	10.4	7.3	2,000	.39
01/17/98	10.2	7.3	1,980	.43
01/22/98	10.0	7.3	1,970	.45
01/27/98	10.0	7.3	1,950	.43
02/01/98	9.9	7.3	1,970	.15
02/06/98	9.8	7.3	1,960	.14
02/11/98	9.7	7.3	1,960	.12
02/16/98	9.7	7.3	1,950	.13
02/21/98	9.6	7.2	1,950	.14
02/26/98	9.5	7.2	1,980	.15
03/04/98	9.5	7.2	1,980	.15
03/09/98	9.4	7.3	1,960	.15
03/14/98	9.4	7.3	1,940	.14
03/19/98	9.3	7.3	1,930	.13
03/24/98	9.4	7.3	1,920	.14
03/29/98	9.5	7.3	1,910	.14
04/03/98	9.7	7.3	1,900	.15
04/08/98	9.8	7.3	1,930	.16
04/13/98	9.9	7.3	1,940	.17
04/18/98	10.1	7.3	1,950	.17
04/25/98	10.3	7.3	1,950	.18
04/30/98	10.4	7.3	1,950	.18
05/05/98	10.7	7.3	1,950	.16
05/10/98	10.9	7.3	1,950	.16
05/15/98	11.2	7.3	1,960	.16
05/20/98	11.5	7.3	1,960	.15

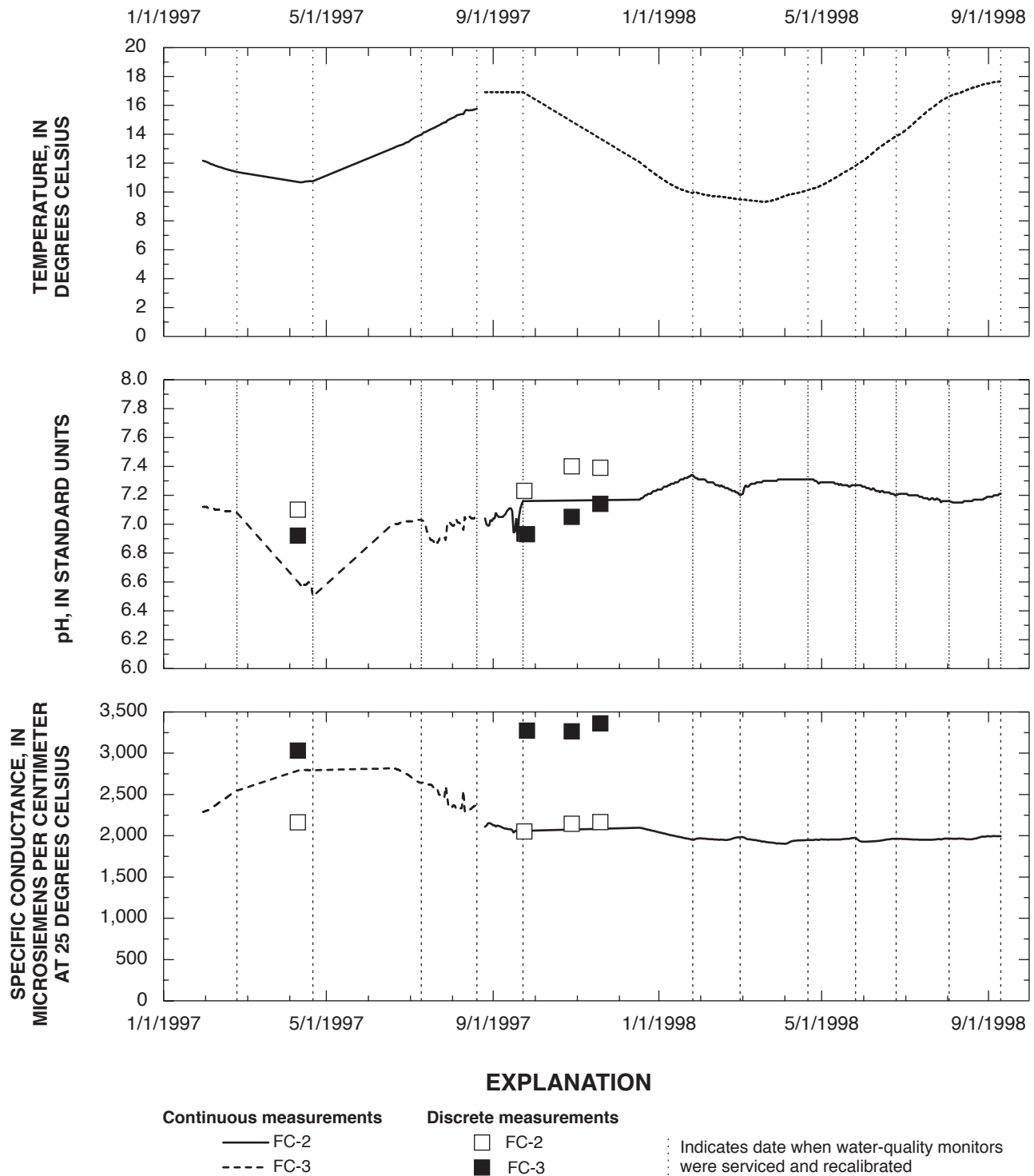
Table 14. Mean daily values for water temperature, pH, specific conductance, and dissolved oxygen in water from well FC-2, Fry Canyon, Utah—Continued

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)	Dissolved oxygen (mg/L)
05/25/98	11.8	7.3	1,970	.16
05/30/98	12.1	7.3	1,930	.18
06/04/98	12.4	7.2	1,930	.17
06/09/98	12.8	7.2	1,930	.16
06/14/98	13.2	7.2	1,940	.15
06/19/98	13.5	7.2	1,960	.15
06/24/98	13.8	7.2	1,960	.14
06/30/98	14.1	7.2	1,960	.19
07/05/98	14.5	7.2	1,960	.18
07/10/98	14.9	7.2	1,950	.17
07/15/98	15.4	7.2	1,950	.16
07/20/98	15.7	7.2	1,950	.16
07/25/98	16.1	7.2	1,960	.15
07/30/98	16.4	7.2	1,960	.15
08/06/98	16.7	7.1	1,960	.14
08/11/98	16.9	7.1	1,970	.17
08/16/98	17.1	7.2	1,960	.15
08/21/98	17.2	7.2	1,960	.14
08/26/98	17.4	7.2	1,980	.13
08/31/98	17.5	7.2	1,990	.12
09/05/98	17.6	7.2	2,000	.12
09/10/98	17.7	7.2	1,990	.11

Table 15. Mean daily values for water temperature, pH, and specific conductance in water from well FC-3, Fry Canyon, Utah

[Measurements made with a water-quality monitor installed in well FC-3; solid line indicates when monitor was serviced; **Water temperature:** °C, degrees Celsius; **Specific conductance:** μS/cm, microsiemens per centimeter at 25 degrees Celsius]

Date	Water temperature (°C)	pH (standard units)	Specific conductance (μS/cm)
01/30/97	12.17	7.1	2,290
02/04/97	11.99	7.1	2,320
02/09/97	11.80	7.1	2,380
02/14/97	11.65	7.1	2,440
02/19/97	11.51	7.1	2,490
02/24/97	11.39	7.1	2,550
04/12/97	10.67	6.6	2,800
04/17/97	10.74	6.6	2,800
04/21/97	10.75	6.5	2,790
06/20/97	13.07	7.0	2,820
06/25/97	13.25	7.0	2,780
06/30/97	13.45	7.0	2,740
07/05/97	13.77	7.0	2,680
07/10/97	13.97	7.0	2,640
07/15/97	14.25	6.9	2,620
07/20/97	14.47	6.9	2,570
07/25/97	14.73	6.9	2,490
07/30/97	15.00	7.0	2,350
08/04/97	15.22	7.0	2,360
08/09/97	15.40	7.0	2,330
08/14/97	15.65	7.0	2,310
08/19/97	15.74	7.1	2,370



Lines indicate continuous measurements made with a water-quality monitor. Symbols indicate sampling periods where discrete measurements were made. Discrete temperature measurements were not considered representative of true ground-water conditions because of low purge volumes during sampling; therefore, they are not presented.

Figure 17. Mean daily values for water temperature, pH, and specific conductance for water from wells FC-2 and FC-3, Fry Canyon, Utah.

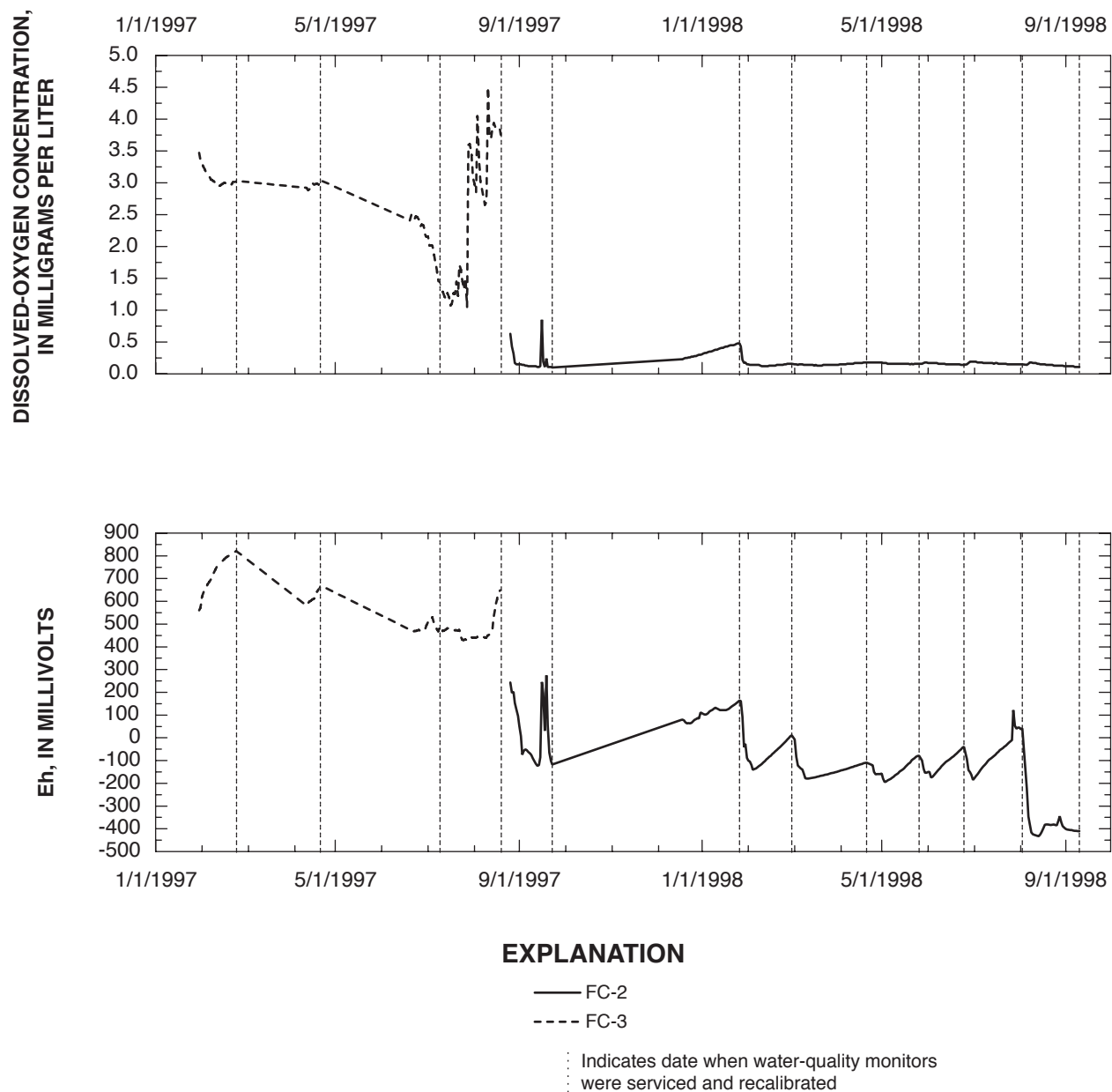


Figure 18. Mean daily values for dissolved-oxygen concentration and Eh for water from wells FC-2 and FC-3, Fry Canyon, Utah

Table 16. Results of chemical analyses of process blanks collected during each sampling period, Fry Canyon, Utah

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than reporting limit; —, no data available]

Date	Calcium, dissolved (mg/L as Ca)	Chloride, dissolved (mg/L as Cl)	Magnesium, dissolved (mg/L as Mg)	Potassium, dissolved (mg/L as K)	Sodium, dissolved (mg/L as Na)	Sulfate, dissolved (mg/L as SO ₄)	Aluminum, dissolved (µg/L as Al)	Copper, dissolved (µg/L as Cu)
09/13/96	<0.01	<0.10	<0.04	<0.04	<0.02	<0.1	<50	<4
12/19/96	<.01	<.10	<.04	<.04	<.02	<.1	< 50	<4
04/10/97	<.01	<.10	<.04	<.05	.40	<.1	<50	<4
09/24/97	—	—	—	—	—	—	—	—
10/29/97	.20	10	<.04	<.04	<20	<1.0	<20	<5
11/19/97	—	—	—	—	—	—	—	—
01/29/98	<.01	<.25	<.04	<.04	<30	<1.0	<20	<5
04/22/98	—	—	—	—	—	—	—	—
06/25/98	<.01	<.25	<.01	<.01	<30	<1.0	50	<2
09/10/98	—	—	—	—	—	—	—	—
12/15/98	.30	<.25	<.04	<.04	<30	<1.0	<20	20
05/01/99	1.0	.25	.30	<.40	<30	<1.0	<170	<20
08/11/99	.70	.35	.20	<.40	<30	<1.0	<170	40
12/01/99	—	<.25	—	—	—	<1.0	—	—
06/14/00	.50	<.25	<.20	—	<.30	<1.0	<170	20

Table 16. Results of chemical analyses of process blanks collected during each sampling period, Fry Canyon, Utah—Continued

Date	Iron, dissolved (mg/L as Fe)	Lithium, dissolved (mg/L as Li)	Manganese, dissolved (mg/L as Mn)	Phosphorus, dissolved (mg/L as P)	Silica, dissolved (mg/L as SiO ₂)	Strontium, dissolved (mg/L as Sr)	Zinc, dissolved (μg/L as Zn)	Uranium, dissolved (μg/L as U)
09/13/96	—	—	—	—	—	—	—	—
12/19/96	<.02	<.04	<.01	<.10	<.05	<.010	<10	<.02
04/10/97	<.02	<.04	<.01	<.10	<.05	<.010	<10	<.02
09/24/97	—	—	—	—	—	—	—	<.06
10/29/97	<.02	<.04	<.01	<.10	<.03	<.015	<4.0	<.06
11/19/97	—	—	—	—	—	—	—	<.06
01/29/98	.03	<.01	<.01	<.10	.10	<.015	<2.0	<.06
04/22/98	—	—	—	—	—	—	—	<.06
06/25/98	<.02	<.04	<.10	<.04	<.01	<.015	<2.0	<.06
09/10/98	—	—	—	—	—	—	—	<.06
12/15/98	<.02	<.01	<.01	<.10	.40	<.015	20	<.06
05/01/99	<.03	<.06	<.02	<1.0	.80	<.020	<20	<.06
08/11/99	<.03	.20	.30	<1.0	6.4	1.40	<20	<.06
12/01/99	—	—	—	<1.0	—	—	—	—
06/14/00	<.03	<.06	<.02	<1.0	<.07	<.02	<20	2.0

Table 17. Results of chemical analyses of duplicate samples from selected wells collected during each sampling period, Fry Canyon, Utah

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than reporting limit; —, no data available]

Well	Date	Calcium, dissolved (mg/L as Ca)	Chloride, dissolved (mg/L as Cl)	Magnesium, dissolved (mg/L as Mg)	Potassium, dissolved (mg/L as K)	Sodium, dissolved (mg/L as Na)	Sulfate, dissolved (mg/L as SO ₄)	Aluminum, dissolved (µg/L as Al)	Copper, dissolved (µg/L as Cu)
FC-5	09/13/96	60	110	48	5.4	290	310	<50	<4
FC-5	09/13/96	59	110	48	5.4	280	310	<50	<4
FC-1	12/19/96	50	120	51	4.5	310	330	<50	<4
FC-1	12/19/96	48	110	48	4.0	310	330	<50	<4
FC-2	04/10/97	120	110	71	4.1	280	630	<50	<5
FC-2	04/10/97	120	110	71	4.1	270	630	50	10
ZVIR2-2	09/24/97	—	—	—	—	—	—	—	—
ZVIR2-2	09/24/97	—	—	—	—	—	—	—	—
DG-2	09/25/97	—	—	—	—	—	—	—	—
DG-2	09/25/97	—	—	—	—	—	—	—	—
ZVIR2S-1	10/29/97	130	110	70	6.7	300	740	<20	<5
ZVIR2S-1	10/29/97	130	—	70	6.6	300	110	<20	<5
DG-1	11/19/97	—	—	—	—	—	—	—	—
DG-1	11/19/97	—	—	—	—	—	—	—	—
AFOR1S-1	01/29/98	180	100	70	7.6	240	880	60	30
AFOR1S-1	01/29/98	170	110	70	7.2	240	870	40	20
ZVIR1S-7	04/22/98	—	—	—	—	—	—	—	—
ZVIR1S-7	04/22/98	—	—	—	—	—	—	—	—
DG-4	06/23/98	100	120	60	3.9	300	490	<20	<2
DG-4	06/23/98	100	120	60	3.7	300	490	<20	<2
TI-1	09/10/98	410	—	110	14	310	—	450	10
Ti-1	09/10/98	—	—	—	—	—	—	—	—
DP-4	12/15/98	90	110	70	12	300	590	40	20
DP-4	12/15/98	90	110	70	12	300	580	100	44
DG-2	05/01/99	—	110	—	—	—	540	—	—
DG-2	05/12/99	70	110	50	5.7	280	535	<170	<20
AFOT2	08/11/99	390	57	150	12	180	1,740	<170	40
AFOT2	08/11/99	530	57	180	12	110	1,720	200	40
AFOR2S-4	12/02/99	320	87	120	7.7	280	1,110	<170	<20
AFOR2S-4	12/02/99	300	—	110	7.7	250	—	<170	20
ZVIR1-8	06/14/00	120	98	81	—	270	650	<170	<20
ZVI R1-8	06/14/00	120	97	81	—	270	640	<170	20

Table 17. Results of chemical analyses of duplicate samples from selected wells collected during each sampling period at Fry Canyon, Utah—Continued

Date	Iron, dissolved (µg/L as Fe)	Lithium, dissolved (mg/L as Li)	Manganese, dissolved (mg/L as Mn)	Phosphorus, dissolved (mg/L as P)	Silicon, dissolved (mg/L as SiO ₂)	Strontium, dissolved (mg/L as Sr)	Zinc, dissolved, (µg/L as Zn)	Uranium, dissolved (µg/L as U)
09/13/96	40	1.6	0.16	<0.1	6.0	1.2	70	260
09/13/96	30	1.6	.16	<.1	6.2	1.2	20	260
12/19/96	<20	1.3	<.01	<.1	7.8	1.3	<10	60
12/19/96	<20	1.4	<.01	<.1	7.7	1.3	<10	60
04/10/97	<20	1.8	.17	<.1	4.9	1.6	10	1,030
04/10/97	<20	1.9	.18	<.1	4.9	1.6	15	1,020
09/24/97	—	—	—	—	—	—	—	340
09/24/97	—	—	—	—	—	—	—	370
09/25/97	—	—	—	—	—	—	—	1,670
09/25/97	—	—	—	—	—	—	—	1,770
10/29/97	23,000	.2	.50	10	5.3	.4	<4	50
10/29/97	24,700	.2	.50	7.6	5.2	.4	<4	50
11/19/97	—	—	—	—	—	—	—	1,230
11/19/97	—	—	—	—	—	—	—	1,250
01/29/98	50	.2	.20	.4	2.7	1.7	<2	6,950
01/29/98	10	.2	.20	.4	2.4	1.7	<2	6,150
04/22/98	—	—	—	—	—	—	—	<.06
04/22/98	—	—	—	—	—	—	—	<.06
06/23/98	430	.1	.20	<.1	5.0	1.4	<2	720
06/23/98	450	.1	.30	.3	5.0	1.4	<2	720
09/10/98	2,130	.5	.02	<.1	10	2.7	<2	7,430
09/10/98	—	—	—	—	—	—	—	7,520
12/15/98	2,650	.3	.20	.4	3.6	.9	480	250
12/15/98	2,670	.3	.20	.4	3.6	.9	540	250
05/01/99	—	—	—	—	—	—	—	—
05/12/99	<30	.2	.20	<1	3.6	.8	<20	2,400
08/11/99	<30	.3	.10	<1	4.7	3.2	<20	18,270
08/11/99	<30	.3	<.02	<1	7.9	3.3	<20	18,360
12/02/99	200	.3	.61	<1	5.3	2.6	<20	4,490
12/02/99	110	.3	.57	<1	5.0	2.4	<20	4,450
06/14/00	11,040	.2	.30	<1	3.7	1.2	<20	150
06/14/00	9,840	.2	.30	<1	3.8	1.3	<20	150