

Table 33. Miscellaneous onsite determinations in samples from Iowa River alluvial aquifer wells, 1998

[NTU, nephelometric turbidity units; $\mu\text{S}/\text{cm}$, microsiemens per centimeter at 25 °C; °C, degrees Celsius; mg/L, milligrams per liter; %, percent; --, data not collected. Numbers in parentheses () are U.S. Geological Survey Water Data Storage and Retrieval System parameter codes]

Map-index number (fig. 4)	Well identification	Date (month-day-year)	Time (24-hour)	Turbidity (NTU) (00076)	Specific conductance ($\mu\text{S}/\text{cm}$) (00095)	pH (standard units) (00400)	Water temperature (°C) (00010)	Oxygen, dissolved (mg/L) (00300)	Dissolved oxygen saturation (%) (00301)	Alkalinity (mg/L as CaCO_3) (39086)	Bicarbonate (mg/L as HCO_3) (00453)	Carbonate (mg/L as CO_3) (00452)
IRA 5	414752092053201	08-19-98	0930	11	436	7.1	11.0	0.2	1	145	177	0
	414752092053202	08-19-98	1030	8.0	686	6.6	13.5	.7	7	214	261	0
	414752092053203	08-19-98	1130	22	939	6.7	15.5	.7	7	306	373	0
IRC 4	414816092053401	08-03-98	1400	0	431	7.0	11.5	.1	1	184	225	0
	414816092053402	08-03-98	1300	2.0	464	6.4	13.0	.1	1	194	234	0
	414816092053403	08-03-98	1100	0	486	6.5	14.5	.1	1	223	272	0
IRA 26	414818092055401	08-20-98	0930	0	655	7.0	11.5	.2	2	226	276	0
	414818092055402	08-20-98	1030	7.0	396	6.8	13.0	.9	9	154	184	0
	414818092055403	08-20-98	1100	0	374	6.7	13.5	.9	9	138	168	0
IRC 1	414900092073801	08-13-98	1215	12	468	7.2	12.5	.2	3	176	215	0
IRA 3	414907092083001	08-06-98	1130	--	492	7.3	11.0	.1	1	210	256	0
	414907092083003	08-06-98	1030	0	468	7.0	12.5	.2	2	204	249	0
	414907092083004	08-06-98	0900	2.0	631	6.7	15.5	.1	1	192	234	0
IRA 6	414930092093801	08-13-98	0900	11	484	7.2	11.5	.2	2	168	205	0
IRA 21	415020092094001	08-04-98	1300	2.0	527	7.3	11.0	5.1	47	186	227	0
	415020092094002	08-05-98	1050	--	750	6.7	11.0	.1	1	210	256	0
	415020092094003	08-05-98	0930	15	517	6.4	13.5	.2	2	236	288	0
	415020092094004	08-04-98	1500	120	409	6.3	14.0	.4	4	164	200	0
	415020092094005	08-04-98	1400	27	346	6.2	16.5	.2	2	147	179	0
	415020092094010	08-05-98	1300	6.0	700	7.0	10.5	.6	6	317	387	0
IRA 17	415039092164001	08-17-98	1330	9.0	678	6.9	11.5	3.7	35	341	416	0
IRA 19	415045092145601	08-21-98	0930	7.0	596	7.2	12.5	7.6	73	191	233	0
IRC 2	415052092120301	08-11-98	0900	9.0	633	7.0	10.5	.2	1	241	294	0
IRC 3	415105092132501	08-11-98	1200	3.0	669	7.1	11.0	.1	1	200	244	0
	415105092135201	08-18-98	0930	9.0	421	7.5	11.5	.2	1	130	159	0
IRA 16	415211092164101	08-17-98	0930	7.0	1,560	6.9	12.0	.1	1	208	254	0
	415211092164102	08-17-98	1130	7.0	903	7.0	13.5	.1	1	186	227	0

Table 34. Nutrient and dissolved organic carbon concentrations in samples from Iowa River alluvial aquifer wells, 1998
 [mg/L, milligrams per liter; <, less than detection limit indicated. Numbers in parentheses () are U.S. Geological Survey Water Data Storage and Retrieval System parameter codes]

Map-index number (fig. 4)	Well identification	Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L) (00608)	Nitrogen, nitrite, dissolved (mg/L) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L) (00623)	Nitrite plus nitrate, dissolved (mg/L) (00631)	Phosphorus, total (mg/L) (00666)	Orthophos- phorus, total, as P (mg/L) (00671)	Dissolved organic carbon (mg/L) (00681)
IRA 5	414752092053201	08-19-98	0930	regular	0.24	<0.01	0.28	<0.05	0.03	0.03	0.9
	414752092053202	08-19-98	1030	do.	.03	<.01	.13	3.5	.12	.12	1.7
	414752092053203	08-19-98	1130	do.	.04	<.01	.13	.52	.19	.19	1.9
IRC 4	414816092053401	08-03-98	1400	do.	.28	<.01	.34	<.05	.08	.05	1.9
	414816092053402	08-03-98	1300	do.	.03	.09	.13	1.5	.03	.06	2.2
	414816092053403	08-03-98	1100	do.	.03	<.01	.15	<.05	.02	.05	3.2
IRA 26	414818092055401	08-20-98	0930	do.	.11	<.01	<.10	<.05	<.01	.02	.8
	414818092055402	08-20-98	1030	do.	.09	<.01	.11	<.05	<.01	.01	1.0
	414818092055403	08-20-98	1100	do.	.09	<.01	.11	.05	.01	.02	1.0
IRC 1	414900092073801	08-13-98	1215	do.	.10	<.01	<.10	<.05	.02	.04	.8
IRA 3	414907092083001	08-06-98	1130	do.	.10	<.01	<.10	<.05	.01	.13	.8
	414907092083003	08-06-98	1030	do.	.04	<.01	<.10	<.05	<.01	.01	1.0
	414907092083004	08-06-98	0900	do.	.18	<.01	.35	.65	.18	.19	2.5
IRA 6	414930092093801	08-13-98	0900	do.	.23	.01	.23	<.05	.04	.04	.6
IRA 21	415020092094001	08-04-98	1300	do.	.04	<.01	<.10	12	.09	.12	.7
	415020092094002	08-05-98	1050	do.	.05	.03	.15	13	.11	.09	1.7
	415020092094003	08-05-98	0930	do.	.04	.01	.15	2.6	.14	.16	2.0
	415020092094004	08-04-98	1500	do.	<.02	.02	.14	1.5	.16	.15	2.7
	415020092094005	08-04-98	1400	do.	.03	.01	.22	1.0	.15	.16	2.3
	415020092094010	08-05-98	1300	do.	<.02	.02	<.10	2.4	.02	.02	.8
IRA 17	415039092164001	08-17-98	1330	do.	.03	<.01	.10	5.0	.07	.08	.9
IRA 19	415045092145601	08-21-98	0930	do.	.04	.01	<.10	20.0	.18	.17	.4
IRC 2	415052092120301	08-11-98	0840	blank	.07	<.01	<.10	<.05	<.01	<.01	.3
	415052092120301	08-11-98	0900	regular	.09	<.01	.19	<.05	.02	.06	1.3
IRC 3	415105092132501	08-11-98	1200	do.	.55	<.01	.64	<.05	.18	.35	1.9

Table 34. Nutrient and dissolved organic carbon concentrations in samples from Iowa River alluvial aquifer wells, 1998—Continued

Map-index number (fig. 4)	Well identification	Date (month-day- year)	Time (24-hour)	Type of sample	Nitrogen, ammonia, dissolved (mg/L) (00608)	Nitrogen, nitrite, dissolved (mg/L) (00613)	Nitrogen, ammonia plus organic, dissolved (mg/L) (00623)	Nitrite plus nitrate, dissolved (mg/L) (00631)	Phosphorus, total (mg/L) (00666)	Orthophos- phorus, total, as P (mg/L) (00671)	Dissolved organic carbon (mg/L) (00681)
IRC 4	415105092135201	08-18-98	0930	regular	0.02	0.01	<0.10	0.32	0.02	0.03	0.7
	415105092135201	08-18-98	0935	replicate	.03	.01	<.10	.22	.02	.04	.7
IRA 16	415211092164101	08-17-98	0930	regular	.22	<.01	.26	<.05	.13	.09	1.0
	415211092164102	08-17-98	1130	do.	.08	<.01	.12	<.05	.15	.15	.9

Table 35. Major ion concentrations in samples from Iowa River alluvial aquifer wells, 1998

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than detection limit indicated. Numbers in parentheses () are U.S. Geological Survey Water Data Storage and Retrieval System parameter codes]

Map-index number (fig. 4)	Well identification	Date (month-day- year)	Time (24- hour)	Type of sample	Calcium (mg/L as Ca) (00915)	Mag- nesium (mg/L as Mg) (00925)	Sodium (mg/L as Na) (00930)	Potas- sium (mg/L as K) (00935)	Chloride (mg/L as Cl) (00940)	Sulfate (mg/L as SO ₄) (00945)	Fluoride (mg/L as F) (00950)	Silica (mg/L as SiO ₂) (00955)	Bromide (mg/L as Br) (71870)	Iron (µg/L as Fe) (01046)	Man- ganese (µg/L as Mn) (01056)
IRA 5	414752092053201	08-19-98	0930	regular	55	14	9.5	0.49	9.0	57	0.13	22	0.190	6,200	384
	414752092053202	08-19-98	1030	do.	110	21	10	3.4	44	66	.12	9.7	.040	<10	<4.0
	414752092053203	08-19-98	1130	do.	140	16	26	5.4	71	71	.12	8.8	.046	<10	38
IRC 4	414816092053401	08-03-98	1400	do.	62	17	10	1.3	17	40	.16	22	.074	1,400	249
	414816092053402	08-03-98	1300	do.	70	20	5.2	1.8	8.4	58	.27	13	.019	<10	<4.0
	414816092053403	08-03-98	1100	do.	68	17	3.2	.51	3.4	31	.33	12	.023	<10	36
IRA 26	414818092055401	08-20-98	0930	do.	86	27	7.7	1.5	11	83	.15	17	.170	4,600	743
	414818092055402	08-20-98	1030	do.	49	16	5.3	.85	8.6	29	.15	13	.047	3,500	721
	414818092055403	08-20-98	1100	do.	45	16	5.3	.74	8.7	29	.14	12	.045	1,300	441
IRC 1	414900092073801	08-13-98	1215	do.	64	18	5.9	.91	6.1	52	.23	20	.069	1,600	398
IRA 3	414907092083001	08-06-98	1130	do.	68	22	7.7	.96	5.9	48	.23	21	.076	1,000	219
	414907092083003	08-06-98	1030	do.	65	20	6.4	1.1	8.2	38	.15	17	.051	1,600	1,070
	414907092083004	08-06-98	0900	do.	94	16	4.0	3.0	4.0	100	.24	8.8	.039	120	950
IRA 6	414930092093801	08-13-98	0840	blank	.11	0	<.10	<.10	<.10	<.10	<.10	<.10	<.010	<10	<4.0
	414930092093801	08-13-98	0900	regular	62	18	7.8	.58	10	69	.24	20	.077	1,400	417
IRA 21	415020092094001	08-04-98	1300	do.	68	24	3.5	.83	15	15	.18	22	.069	<10	<4.0
	415020092094002	08-05-98	1050	do.	92	32	4.8	3.3	42	66	.15	16	.036	<10	1,080
	415020092094003	08-05-98	0930	do.	76	20	4.6	4.0	12	33	.12	16	.044	<10	96
	415020092094004	08-04-98	1500	do.	55	14	5.3	4.8	9.5	27	.15	16	.033	<10	134
	415020092094005	08-04-98	1400	do.	46	13	5.8	5.6	9.7	26	<.10	17	.041	<10	46
	415020092094010	08-05-98	1300	do.	91	35	9.1	1.3	9.2	52	.15	18	.110	940	12
IRA 17	415039092164001	08-17-98	1330	do.	96	35	10	1.9	13	26	.22	22	.070	<10	<4.0
IRA 19	415045092145601	08-21-98	0930	do.	71	25	10	1.1	17	27	.19	22	.057	<10	<4.0
IRC 2	415052092120301	08-11-98	0900	do.	86	24	9.6	.96	10	100	.23	17	.051	960	1,030
IRC 3	415105092132501	08-11-98	1200	do.	80	29	8.9	2.4	11	130	1.0	22	.037	2,700	234

Table 35. Major ion concentrations in samples from Iowa River alluvial aquifer wells, 1998—Continued

Map-index number (fig. 4)	Well identification	Date (month-day- year)	Time (24- hour)	Type of sample	Calcium (mg/L as Ca) (00915)	Mag- nesium (mg/L as Mg) (00925)	Sodium (mg/L as Na) (00930)	Potas- sium (mg/L as K) (00935)	Chloride (mg/L as Cl) (00940)	Sulfate (mg/L as SO ₄) (00945)	Fluoride (mg/L as F) (00950)	Silica (mg/L as SiO ₂) (00955)	Bromide (mg/L as Br) (71870)	Iron (μg/L as Fe) (01046)	Man- ganese (μg/L as Mn) (01056)
IRC 4	415105092135201	08-18-98	0930	regular	49	20	7.4	1.2	9.1	62	0.24	10	0.078	<10	478
	415105092135201	08-18-98	0935	replicate	49	20	7.4	1.1	9.1	63	.25	10	.078	<10	482
IRA 16	415211092164101	08-17-98	0930	regular	240	82	26	2.1	16	670	.32	24	.086	5,000	737
	415211092164102	08-17-98	1130	do.	120	43	19	1.7	17	270	.59	18	.082	<10	706

Table 36. Selected dissolved pesticide concentrations in samples from Iowa River alluvial aquifer wells, 1998
 [All concentrations are in micrograms per liter; <, less than detection limit indicated; E, estimated. Numbers in parentheses () are U.S. Geological Survey Water Data Storage and Retrieval System parameter codes]

Map-index number (fig. 4)	Well identification	Date (month- day-year)	Time (24-hour)	Type of sample	2, 6- diethyl- aniline (82660)	Aceto- chlor (49260)	Alachlor (46342)	Atrazine (39632)	Azinphos- methyl (82686)	Ben- fluralin (82673)	Butylate (04028)	Carbaryl (82680)	Carbo- furan (82674)	Chlor- pyrifos (38933)
IRA 5	414752092053201	08-19-98	0930	regular	E0.003	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004
	414752092053202	08-19-98	1030	do.	<.003	<.002	<.002	.040	<.001	<.002	<.002	<.003	<.003	<.004
	414752092053203	08-19-98	1130	do.	<.003	<.002	<.002	.036	<.001	<.002	<.002	<.003	<.003	<.004
IRC 4	414816092053401	08-03-98	1400	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	414816092053402	08-03-98	1300	do.	<.003	<.002	<.002	.055	<.001	<.002	<.002	<.003	<.003	<.004
	414816092053403	08-03-98	1100	do.	<.003	<.002	<.002	.042	<.001	<.002	<.002	<.003	<.003	<.004
IRA 26	414818092055401	08-20-98	0930	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	414818092055402	08-20-98	1030	do.	<.003	<.002	<.002	.005	<.001	<.002	<.002	<.003	<.003	<.004
	414818092055403	08-20-98	1100	do.	<.003	<.002	<.002	.005	<.001	<.002	<.002	<.003	<.003	<.004
IRC 1	414900092073801	08-13-98	1215	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
IRA 3	414907092083001	08-06-98	1130	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	414907092083003	08-06-98	1030	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	414907092083004	08-06-98	0900	do.	<.003	<.002	<.002	.169	<.001	<.002	<.002	<.003	<.003	<.004
IRA 6	414930092093801	08-13-98	0900	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
IRA 21	415020092094001	08-04-98	1300	do.	<.003	<.002	<.002	.288	<.001	<.002	<.002	<.003	<.003	<.004
	415020092094002	08-05-98	1050	do.	<.003	<.002	<.002	.020	<.001	<.002	<.002	<.003	<.003	<.004
	415020092094003	08-05-98	0930	do.	<.003	<.002	<.002	.044	<.001	<.002	<.002	<.003	<.003	<.004
	415020092094004	08-04-98	1500	do.	<.003	<.002	<.002	.076	<.001	<.002	<.002	<.003	<.003	<.004
	415020092094005	08-04-98	1400	do.	<.003	<.002	<.002	.087	<.001	<.002	<.002	<.003	<.003	<.004
	415020092094010	08-05-98	1300	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	415039092164001	08-17-98	1330	do.	<.003	<.002	<.002	.044	<.001	<.002	<.002	<.003	<.003	<.004
IRA 19	415045092145601	08-21-98	0930	do.	<.003	<.002	<.002	.063	<.001	<.002	<.002	<.003	<.003	<.004
IRC 2	415052092120301	08-11-98	0840	blank	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	415052092120301	08-11-98	0900	regular	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
IRC 3	415105092132501	08-11-98	1200	do.	E.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
IRC 4	415105092135201	08-18-98	0930	do.	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	415105092135201	08-18-98	0935	replicate	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
	4151211092164101	08-17-98	0930	regular	<.003	<.002	<.002	<.001	<.001	<.002	<.002	<.003	<.003	<.004
IRA 16	415211092164102	08-17-98	1130	do.	<.003	<.002	<.002	.006	<.001	<.002	<.002	<.003	<.003	<.004

Table 36. Selected dissolved pesticide concentrations in samples from Iowa River alluvial aquifer wells, 1998—Continued

Map-index number (fig. 4)	Well identification	Date (month-day- year)	Time (24-hour)	Type of sample	Cyan- azine (04041)	DCPA (82682)	Deethyl- atrazine (04040)	Diazinon (39572)	Dieldrin (39381)	Disul- foton (82677)	EPTC (82668)	Ethal- fluralin (82663)	Ethopro- phos (82672)	Fonofos (04095)
IRA 5	414752092053201	08-19-98	0930	regular	<0.004	<0.002	<0.002	<0.002	<0.001	<0.017	<0.002	<0.004	<0.003	<0.003
	414752092053202	08-19-98	1030	do.	<.004	<.002	E.051	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	414752092053203	08-19-98	1130	do.	.012	<.002	E.048	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRC 4	414816092053401	08-03-98	1400	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	414816092053402	08-03-98	1300	do.	<.004	<.002	E.021	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	414816092053403	08-03-98	1100	do.	<.004	<.002	E.021	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRA 26	414818092055401	08-20-98	0930	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	414818092055402	08-20-98	1030	do.	<.004	<.002	E.003	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	414818092055403	08-20-98	1100	do.	<.004	<.002	E.003	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRC 1	414900092073801	08-13-98	1215	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRA 3	414907092083001	08-06-98	1130	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	414907092083003	08-06-98	1030	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	414907092083004	08-06-98	0900	do.	<.004	<.002	E.073	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRA 6	414930092093801	08-13-98	0900	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRA 21	415020092094001	08-04-98	1300	do.	<.004	<.002	E.339	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415020092094002	08-05-98	1050	do.	<.004	<.002	E.015	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415020092094003	08-05-98	0930	do.	<.004	<.002	E.022	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415020092094004	08-04-98	1500	do.	<.004	<.002	E.028	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415020092094005	08-04-98	1400	do.	<.004	<.002	E.032	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415020092094010	08-05-98	1300	do.	<.004	<.002	E.008	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRA 17	415039092164001	08-17-98	1330	do.	<.004	<.002	E.030	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRA 19	415045092145601	08-21-98	0930	do.	<.004	<.002	E.193	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRC 2	415052092120301	08-11-98	0840	blank	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415052092120301	08-11-98	0900	regular	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRC 3	415105092132501	08-11-98	1200	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRC 4	415105092135201	08-18-98	0930	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415105092135201	08-18-98	0935	replicate	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
IRA 16	415211092164101	08-17-98	0930	regular	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003
	415211092164102	08-17-98	1130	do.	<.004	<.002	<.002	<.002	<.001	<.017	<.002	<.004	<.003	<.003

Table 36. Selected dissolved pesticide concentrations in samples from Iowa River alluvial aquifer wells, 1998—Continued

Map-index number (fig. 4)	Well identification	Date (month-day-year)	Time (24-hour)	Type of sample	Lindane (39341)	Linuron (82666)	Mala-thion (39532)	Metol-achlor (39415)	Metri-buzin (82630)	Molinate (82671)	Naprop-amide (82684)	Parathion (39542)	Para-thion-methyl (82667)	Pebulate (82669)
IRA 5	414752092053201	08-19-98	0930	regular	<0.004	<0.002	<0.005	<0.002	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004
	414752092053202	08-19-98	1030	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	414752092053203	08-19-98	1130	do.	<.004	<.002	<.005	.005	<.004	<.004	<.003	<.004	<.006	<.004
IRC 4	414816092053401	08-03-98	1400	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	414816092053402	08-03-98	1300	do.	<.004	<.002	<.005	.007	<.004	<.004	<.003	<.004	<.006	<.004
	414816092053403	08-03-98	1100	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRA 26	414818092055401	08-20-98	0930	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	414818092055402	08-20-98	1030	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	414818092055403	08-20-98	1100	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRC 1	414900092073801	08-13-98	1215	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRA 3	414907092083001	08-06-98	1130	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	414907092083003	08-06-98	1030	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	414907092083004	08-06-98	0900	do.	<.004	<.002	<.005	.011	<.004	<.004	<.003	<.004	<.006	<.004
IRA 6	414930092093801	08-13-98	0900	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRA 21	415020092094001	08-04-98	1300	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	415020092094002	08-05-98	1050	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	415020092094003	08-05-98	0930	do.	<.004	<.002	<.005	.010	<.004	<.004	<.003	<.004	<.006	<.004
	415020092094004	08-04-98	1500	do.	<.004	<.002	<.005	.011	<.004	<.004	<.003	<.004	<.006	<.004
	415020092094005	08-04-98	1400	do.	<.004	<.002	<.005	.011	<.004	<.004	<.003	<.004	<.006	<.004
	415020092094010	08-05-98	1300	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRA 17	415039092164001	08-17-98	1330	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRA 19	415045092145601	08-21-98	0930	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRC 2	415052092120301	08-11-98	0840	blank	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	415052092120301	08-11-98	0900	regular	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRC 3	415105092132501	08-11-98	1200	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRC 4	415105092135201	08-18-98	0930	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	415105092135201	08-18-98	0935	replicate	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
IRA 16	415211092164101	08-17-98	0930	regular	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004
	415211092164102	08-17-98	1130	do.	<.004	<.002	<.005	<.002	<.004	<.004	<.003	<.004	<.006	<.004

Table 36. Selected dissolved pesticide concentrations in samples from Iowa River alluvial aquifer wells, 1998—Continued

Map-index number (fig. 4)	Well identification	Date (month- day-year)	Time (24-hour)	Type of sample	Pendi- methalin (82682)	Phorate (82664)	Prometon (04037)	Prop- achlor (04024)	Propanil (82679)	Prop- argite (82685)	Propyz- amide (82676)	Simazine (04035)	Tebu- thiuron (82670)	Terbacil (82665)
IRA 5	414752092053201	08-19-98	0930	regular	<0.004	<0.002	<0.018	<0.007	<0.004	<0.013	<0.003	<0.005	<0.010	<0.007
	414752092053202	08-19-98	1030	do.	<.004	<.002	E.003	<.007	<.004	<.013	<.003	E.003	<.010	<.007
	414752092053203	08-19-98	1130	do.	<.004	<.002	E.005	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRC 4	414816092053401	08-03-98	1400	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	414816092053402	08-03-98	1300	do.	<.004	<.002	E.008	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	414816092053403	08-03-98	1100	do.	<.004	<.002	E.012	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRA 26	414818092055401	08-20-98	0930	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	414818092055402	08-20-98	1030	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	414818092055403	08-20-98	1100	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRC 1	414900092073801	08-13-98	1215	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRA 3	414907092083001	08-06-98	1130	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	414907092083003	08-06-98	1030	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	414907092083004	08-06-98	0900	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRA 6	414930092093801	08-13-98	0900	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRA 21	415020092094001	08-04-98	1300	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415020092094002	08-05-98	1050	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415020092094003	08-05-98	0930	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415020092094004	08-04-98	1500	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415020092094005	08-04-98	1400	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415020092094010	08-05-98	1300	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRA 17	415039092164001	08-17-98	1330	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRA 19	415045092145601	08-21-98	0930	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRC 2	415052092120301	08-11-98	0840	blank	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415052092120301	08-11-98	0900	regular	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRC 3	415105092132501	08-11-98	1200	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRC 4	415105092135201	08-18-98	0930	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415105092135201	08-18-98	0935	replicate	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
IRA 16	415211092164101	08-17-98	0930	regular	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007
	415211092164102	08-17-98	1130	do.	<.004	<.002	<.018	<.007	<.004	<.013	<.003	<.005	<.010	<.007

Table 36. Selected dissolved pesticide concentrations in samples from Iowa River alluvial aquifer wells, 1998—Continued

Map-index number (fig. 4)	Well identification	Date (month- day-year)	Time (24-hour)	Type of sample	Terbufos (82675)	Thiobencarb (82681)	Tri- allate (82678)	Trifluralin (82661)	alpha-HCH (34253)	cis-Per- methrin (82687)	p,p'-DDE (34653)
IRA 5	414752092053201	08-19-98	0930	regular	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414752092053202	08-19-98	1030	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414752092053203	08-19-98	1130	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRC 4	414816092053401	08-03-98	1400	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414816092053402	08-03-98	1300	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414816092053403	08-03-98	1100	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRA 26	414818092055401	08-20-98	0930	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414818092055402	08-20-98	1030	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414818092055403	08-20-98	1100	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRC 1	414900092073801	08-13-98	1215	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRA 3	414907092083001	08-06-98	1130	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414907092083003	08-06-98	1030	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	414907092083004	08-06-98	0900	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRA 6	414930092093801	08-13-98	0900	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRA 21	415020092094001	08-04-98	1300	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415020092094002	08-05-98	1050	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415020092094003	08-05-98	0930	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415020092094004	08-04-98	1500	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415020092094005	08-04-98	1400	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415020092094010	08-05-98	1300	do.	<.013	<.002	<.001	<.002	<.002	<.005	E.003
IRA 17	415039092164001	08-17-98	1330	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRA 19	415045092145601	08-21-98	0930	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRC 2	415052092120301	08-11-98	0840	blank	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415052092120301	08-11-98	0900	regular	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRC 3	415105092132501	08-11-98	1200	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRC 4	415105092135201	08-18-98	0930	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415105092135201	08-18-98	0935	replicate	<.013	<.002	<.001	<.002	<.002	<.005	<.006
IRA 16	415211092164101	08-17-98	0930	regular	<.013	<.002	<.001	<.002	<.002	<.005	<.006
	415211092164102	08-17-98	1130	do.	<.013	<.002	<.001	<.002	<.002	<.005	<.006

Table 37. Concentrations of selected dissolved pesticide surrogates in samples from Iowa River alluvial aquifer wells, 1998
 [%, percent. Numbers in parentheses () are U.S. Geological Survey Water Data Storage and Retrieval System parameter codes]

Map-index number (fig. 4)	Well identification	Date (month- day-year)	Time (24-hour)	Type of sample	Diazinon, surrogate (% recovery) (91063)	Terbuthylazine, surrogate (% recovery) (91064)	alpha-HCH-d6, surrogate (% recovery) (91065)
IRA 5	414752092053201	08-19-98	0930	regular	85.0	108	78.2
	414752092053202	08-19-98	1030	do.	86.5	114	93.4
	414752092053203	08-19-98	1130	do.	86.7	107	90.0
IRC 4	414816092053401	08-03-98	1400	do.	93.7	103	88.3
	414816092053402	08-03-98	1300	do.	102	103	90.2
	414816092053403	08-03-98	1100	do.	97.4	110	93.1
IRA 26	414818092055401	08-20-98	0930	do.	85.2	109	83.9
	414818092055402	08-20-98	1030	do.	88.5	115	77.7
	414818092055403	08-20-98	1100	do.	88.0	111	78.2
IRC 1	414900092073801	08-13-98	1215	do.	105	110	87.2
IRA 3	414907092083001	08-06-98	1130	do.	102	127	87.6
	414907092083003	08-06-98	1030	do.	100	115	93.0
	414907092083004	08-06-98	0900	do.	117	127	101
IRA 6	414930092093801	08-13-98	0900	do.	107	118	92.2
IRA 21	415020092094001	08-04-98	1300	do.	99.8	119	98.8
	415020092094002	08-05-98	1050	do.	97.8	102	84.2
	415020092094003	08-05-98	0930	do.	84.9	97.2	93.1
	415020092094004	08-04-98	1500	do.	98.4	113	92.8
	415020092094005	08-04-98	1400	do.	87.8	105	98.4
	415020092094010	08-05-98	1300	do.	98.3	108	90.2
	415039092164001	08-17-98	1330	do.	94.6	89.6	85.7
IRA 19	415045092145601	08-21-98	0930	do.	68.8	95.5	90.4
IRC 2	415052092120301	08-11-98	0840	blank	91.8	108	100
	415052092120301	08-11-98	0900	regular	87.3	103	89.1
IRC 3	415105092132501	08-11-98	1200	do.	91.3	114	90.2
IRC 4	415105092135201	08-18-98	0930	do.	82.0	87.6	89.3
	415105092135201	08-18-98	0935	replicate	89.0	87.3	98.5
IRA 16	415211092164101	08-17-98	0930	regular	98.0	95.4	86.8
	415211092164102	08-17-98	1130	do.	96.0	96.8	92.7