

Table 14. Major ions detected in ground-water samples collected in the Southern Sacramento Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study unit, California, 2005.

[All values reported in milligrams per liter, dissolved. The five digit USGS parameter code is used in the USGS's computerized data system, the National Water Information System, to uniquely identify a specific constituent or property. An asterisk (*) in front of a number in the table indicates a concentration higher than the threshold. "DD" following a site area name in the first column indicates "depth dependent." "FP" following a site area name in the first column indicates "flowpath." E, estimated value; GAMA, Ground-Water Ambient Monitoring and Assessment; na, not available; NAM, North American; ns, no sample; NWIS, National Water Information System; QPC, Uplands; SAM, South American; SMCL-CA, California Secondary Maximum Contaminant Level; SOL, Solano; SUI, Suisun-Fairfield; USGS, U.S. Geological Survey; YOL, Yolo; —, not detected]

GAMA sample identification number	Bromide	Calcium	Iodide	Magnesium	Potassium	Sodium	Chloride	Silica	Sulfate
USGS parameter code	71870	915	71865	925	935	930	940	955	945
Reporting level	0.02	0.01	0.004	0.008	0.16	0.1	0.2	0.04	0.2
Threshold	na	na	na	na	na	na	250 (500)	na	250 (500)
Threshold type	na	na	na	na	na	na	SMCL-CA¹	na	SMCL-CA¹
Grid wells									
NAM-01	0.23	30.0	0.200	17.00	2.50	182.0	90.5	46.7	65.0
NAM-02	0.13	31.1	0.007	20.80	3.32	36.1	49.1	77.3	18.7
NAM-05	0.17	22.6	0.006	13.40	2.71	34.3	60.8	83.0	10.7
NAM-06	0.08	23.0	0.064	4.12	1.75	47.4	27.4	50.4	1.0
NAM-08	ns	36.3	0.004	27.50	0.72	37.1	17.2	66.5	17.5
QPC-02	0.07	26.2	0.008	10.40	3.85	32.6	25.9	75.2	14.3
QPC-05	E0.02	14.7	—	9.23	2.25	7.5	5.0	60.2	4.5
QPC-06	—	28.5	0.004	19.10	1.21	25.4	43.5	85.2	10.6
QPC-07	0.23	39.4	0.014	13.60	1.80	64.4	82.5	86.5	27.0
QPC-08	0.14	17.8	0.007	7.07	1.03	50.2	48.7	86.2	19.4
QPC-09	0.03	11.3	E0.001	6.20	1.27	12.4	3.8	69.1	2.3
SAM-02	0.04	34.0	0.004	25.40	2.39	20.9	14.3	71.0	6.9
SAM-03	0.04	21.5	0.038	19.50	2.31	11.6	4.6	42.8	2.7
SAM-07	0.06	53.2	E0.001	13.30	2.59	22.4	12.1	39.0	17.2
SAM-11	0.04	17.5	—	8.95	2.62	13.7	8.9	66.6	3.2
SOL-01	0.14	7.9	0.170	7.60	0.99	142.0	34.4	23.9	43.4
SOL-03	0.04	45.7	E0.001	20.60	4.27	40.6	10.5	63.1	36.7
SOL-06	0.45	25.9	0.220	21.10	1.14	199.0	141.0	27.4	14.9
SUI-01	0.40	43.4	0.016	49.20	1.03	123.0	143.0	34.0	25.2
SUI-02	0.85	12.3	0.83	6.08	1.26	275.0	242.0	15.0	4.2
YOL-02	ns	53.5	ns	95.20	0.56	113.0	52.9	37.1	69.9
YOL-03	0.07	16.0	0.055	15.90	1.78	77.8	21.3	34.3	36.3
YOL-04	0.03	55.7	E0.002	66.3	1.36	23.5	21.8	41.4	43.7
YOL-06	0.12	22.4	0.17	27.7	1.48	97	73.4	28.3	36.3
YOL-08	0.21	15.3	0.26	5.16	2.88	134	57	42.7	34.3
YOL-09	—	6.8	0.01	7.73	1.02	17.7	3.94	36.1	6.3
YOL-13	ns	55.8	0.004	26.6	0.40	57.2	23.2	28.2	31.1
YOL-14	0.10	83.3	0.81	25.9	8.14	163.0	*342	57.2	E0.1

¹The SMCL-CA has recommended and upper threshold values. The upper value is shown in parentheses.

Table 14. Major ions detected in ground-water samples collected in the Southern Sacramento Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study unit, California, 2005—Continued.

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Threshold	na	na	na	na	na	na	250 (500)	na	250 (500)
Threshold type	na	na	na	na	na	na	SMCL-CA¹	na	SMCL-CA¹
Nongrid Wells									
QPCFP-01	0.14	23.0	0.004	12.5	2.05	46.1	51.8	85.8	15.8
QPCFP-02	0.09	16.9	E0.002	11.1	1.23	17.5	23.5	89.8	5.8
QPCFP-03	0.14	22.3	E0.004	12.0	2.10	44.6	49.0	87.1	11.5
QPCFP-04	0.08	15.8	—	11.2	1.17	20.2	22.1	88.9	4.1
NAMFP-05	0.85	26.5	0.670	8.27	4.92	191.0	268.0	50.7	—
NAMFP-06	0.40	12.4	0.280	3.64	1.39	144.0	119.0	33.7	—
NAMFP-07	0.03	11.3	0.320	4.21	2.03	166.0	74.8	44.5	31.5
NAMFP-08	0.31	34.1	0.260	23.8	2.45	176.0	121.0	42.0	47.6
NAMFP-09	0.07	19.3	0.093	7.16	2.51	50.9	21.7	60.0	—
NAMFP-10	0.08	22.9	0.078	10.1	1.64	45.7	25.5	44.2	—
YOLFP-12	0.05	18.9	0.007	22.0	2.61	68.2	14.5	41.6	26.9
YOLFP-13	0.10	37.9	0.010	64.9	1.29	55.0	27.0	37.8	34.0
YOLFP-14	0.04	58.5	E0.001	41.9	1.26	25.2	26.3	37.3	37.5
YOLFP-15	0.05	29.4	0.003	22.8	1.14	28.1	19.1	35.3	24.2
NAMFP-16	0.05	15.5	0.026	10.6	1.78	20.8	14.7	70.8	5.0
Depth-dependent samples									
NAMDD-01	ns	15.7	0.041	11.3	1.65	21.2	14.7	70.7	5.5
NAMDD-02	ns	15.4	0.037	11.1	1.69	21.3	15.2	68.5	5.6
NAMDD-03	0.05	16.1	0.038	10.6	1.72	20.1	15.3	67.2	5.6
NAMDD-04	0.05	15.0	0.029	10.2	1.78	20.3	14.3	68.3	4.8

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