

**GAMA Domestic Well Project  
Summary Results  
Commonly Observed Chemicals**

Number of samples Above CDPH Drinking Water Standards

Compound	Drinking Water Standard	Yuba (2002) 128 Wells	El Dorado (2003-04) 398 Wells	Tehama (2005) 223 Wells	Tulare (2006) 181 Wells	San Diego (2008-09) 137 Wells	Monterey (2011) 79 Wells	Cumulative Domestic Well Project Totals 1146 Wells
<b>BACTERIA INDICATORS</b>								
Total Coliform	Present <sup>3</sup>	28 (22%)	111 (28%)	56 (25%)	60 (33%)	34 (25%)	11 (14%)	300 (26%)
Fecal Coliform	Present <sup>3</sup>	4 (3%)	14 (4%)	3 (1%)	15 (8%)	NAS <sup>2</sup>	1 (1.3%)	37 (3.2%)
<b>GENERAL MINERALS &amp; IONS</b>								
Nitrate	45 mg/L <sup>3</sup>	2 (2%)	7 (2%)	2 (1%)	75 (41%)	25 (18%)	9 (11%)	119(10%)
Nitrite	1 mg/L	NAS <sup>2</sup>	NAS <sup>2</sup>	2 (1%)	4 (2.2 %)	NAS <sup>2</sup>	5 (6%)	11 (<1%)
Perchlorate	6 µg/L <sup>3</sup>	Not Sampled	Not Sampled	Not Sampled	2 of 40 (5%)	5 (4%)	9 (11%)	16 of 256 (6%)
Chloride	500 mg/L <sup>4</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	2 (1%)	NAS <sup>2</sup>	2 (<1%)
Sulfate	500 mg/L <sup>4</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	3 (2%)	1 (1.3%)	4 (<1%)
Total Dissolved Solids	1,000 mg/L <sup>3</sup>	5 (4%)	5 (1%)	5 (2%)	4 (2%)	22 (16%)	5 (6%)	46 (4%)
<b>METALS</b>								
Aluminum	1,000 µg/L <sup>3</sup>	18 (14%)	12 (3%)	6 (3%)	2 (1%)	NAS <sup>2</sup>	NAS <sup>2</sup>	38 (3.3%)
Arsenic	10 µg/L <sup>4</sup>	6 (5%)	15 (4%)	30 (14%)	3 (2%)	3 (2%)	8 (10%)	65 (6%)
Cadmium	5 µg/L	NAS <sup>2</sup>	ND <sup>2</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	2 (1%)	3 (2%)	5 (<1%)
Chromium	50 µg/L <sup>3</sup>	1 (<1%)	NAS <sup>2</sup>	1 (<1%)	2 (1%)	NAS <sup>2</sup>	NAS <sup>2</sup>	4 (<1%)
Iron	300 µg/L <sup>4</sup>	14 (11%)	81 (20%)	31 (14%)	2 (1%)	21 (15%)	6 (8%)	155 (14%)
Manganese	50 µg/L <sup>4</sup>	21 (16%)	98 (25%)	19 (9%)	2 (1%)	45 (33%)	13 (16%)	198 (17%)
Thallium	2 µg/L	NAS <sup>2</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	6 (3%)	NAS <sup>2</sup>	18 (23%)	24 (2%)
Vanadium	50 µg/L <sup>5</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	NAS <sup>2</sup>	14 (8%)	2 (1%)	NAS <sup>2</sup>	16 (<2%)
Zinc	5,000 µg/L <sup>4</sup>	NAS <sup>2</sup>	1 (<1%)	NAS <sup>2</sup>	1 (<1%)	2 (1%)	NAS <sup>2</sup>	4 (<1%)
<b>ORGANICS</b>								
Volatile Organic Compounds	Varies by compound	NAS <sup>2</sup>	1 (<1%)	NAS <sup>2</sup>	10 (6%)	NAS <sup>2</sup>	NAS <sup>2</sup>	11 (<1%)

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<b>RADIONUCLIDES</b>								
Gross Alpha	15 pCi/L <sup>3</sup>	Radionuclides not routinely analyzed			3 of 13 wells	19 of 54 wells	NAS <sup>2</sup>	22 of 146 (15%)
Radium 226+228	5 pCi/L <sup>3</sup>				1 of 13 wells	2 of 54 wells	NAS <sup>2</sup>	3 of 146 (2%)
Uranium	20 pCi/L <sup>3</sup>				1 of 13 wells	16 of 54 wells	1 of 79	18 of 146 (12%)
<p>Notes:</p> <ol style="list-style-type: none"> <li>1. Drinking water standards established by the California Department of Public Health (CDPH) are used for comparison purposes only, since domestic well water quality is not regulated. The MCL is the highest concentration of a contaminant allowed in public drinking water. "Primary" MCLs address health concerns, while "Secondary" MCLs (SMCLs) address esthetics, such as taste and odor. Notification Levels (NLs) are health-based advisory levels for chemicals in public drinking water that have no formal regulatory standards.</li> <li>2. NAS<sup>2</sup> = None Above Standard: Domestic wells were analyzed for this chemical – however, the chemical was not observed at a concentration greater than a CDPH Drinking Water Standard.</li> <li>3. MCL</li> <li>4. SMCL</li> <li>5. NL</li> </ol>								