

**Table 5.** Volatile organic compounds (VOCs), and gasoline oxygenates and degradates detected in samples collected for the Southern Sierra Groundwater Ambient Monitoring and Assessment (GAMA) study, California, June 2006.

[The five-digit number in parentheses below the constituent name is the U.S. Geological Survey parameter code used to uniquely identify a specific constituent or property. Samples from all fifty wells were analyzed, but only samples with detections are listed. Analytes are listed in order of decreasing detection frequency in the thirty-five grid wells. All analytes are listed in [tables 3A](#) and [3B](#). SOSA, Southern Sierra study unit grid well; SOSAFP, Southern Sierra study unit flow-path well; LRL, laboratory reporting level; MCL-US, U.S. Environmental Protection Agency maximum contaminant level; MCL-CA; California Department of Public Health maximum contaminant level; E, estimated value; V, analyte detected in sample and an associated blank thus data are not included in ground-water quality assessment; µg/L, microgram per liter; —, not detected]

GAMA well identification number	Chloroform (trichloromethane) (µg/L) (32106)	Tetra-chloro-ethene (PCE) (µg/L) (34475)	Carbon tetra-chloride (tetra-chloro-methane) (µg/L) (32102)	Methyl tert-butyl ether (MTBE) (µg/L) (78032)	Trichloro-ethene (TCE) (µg/L) (39180)	Trichloro-fluoro-methane (CFC-11) (µg/L) (34488)	1,1,2-Tri-chloro-1,2,2-tri-fluoro-ethane (CFC-113) (µg/L) (77652)	1,2-Di-chloro-benzene (µg/L) (34536)	cis-1,2-Dichloro-ethene (µg/L) (77093)	1,2-Di-chloro-propane (µg/L) (34541)	Toluene (µg/L) (34010)	VOC detections per well
	LRL	0.024	0.030	0.06	0.10	0.04	0.08	0.038	0.048	0.024	0.029	0.02
Threshold type <sup>1</sup>	MCL-US	MCL-US	MCL-CA	MCL-CA	MCL-US	MCL-CA	MCL-CA	MCL-US	MCL-CA	MCL-CA	MCL-CA	
Threshold level	<sup>2</sup> 80	5	0.5	13	5	150	1200	600	6	5	150	
Grid wells												
SOSA-02	—	—	—	—	—	—	E0.05	—	—	—	—	1
SOSA-03	0.13	E0.02	—	—	—	—	—	—	—	—	—	2
SOSA-04	—	—	—	—	—	0.1	—	—	—	—	—	1
SOSA-09	0.13	—	—	—	—	—	—	—	—	—	—	1
SOSA-13	—	—	—	—	—	—	—	—	—	—	V0.02	0
SOSA-14	0.14	—	—	—	—	—	—	—	—	—	—	1
SOSA-16	0.11	0.35	E0.23	—	—	—	—	—	—	—	—	3
SOSA-17	E0.06	—	—	—	—	—	—	—	—	—	—	1
SOSA-21	—	E0.05	—	E0.1	E0.02	—	—	—	—	—	—	3
SOSA-22	—	—	—	—	—	—	—	—	—	—	V0.02	0
SOSA-25	—	E0.04	—	—	—	—	—	—	—	—	—	1
SOSA-29	E0.02	—	—	—	—	—	—	—	—	—	—	1
SOSA-34	—	E0.04	—	—	—	—	—	—	—	—	—	1
Number of detections	6	5	1	1	1	1	1	0	0	0		16
Detection frequency (percent)	17	14	3	3	3	3	3					<sup>3</sup> 31
Flow-path wells												
SOSAFP-01	—	E0.02	—	—	—	—	—	—	—	—	—	1
SOSAFP-04	E0.02	3.44	—	—	—	—	—	E0.01	E0.03	—	—	4
SOSAFP-05	—	0.24	—	—	—	—	—	—	—	—	—	1
SOSAFP-07	—	0.16	—	—	—	E0.05	—	—	—	—	—	2
SOSAFP-08	—	E0.09	—	—	—	—	—	—	—	—	—	1
SOSAFP-09	—	—	—	—	—	—	—	—	—	0.18	—	1
SOSAFP-15	—	E0.04	—	—	—	—	—	—	—	—	—	1

<sup>1</sup>Maximum contaminant level thresholds are listed as MCL-US when the MCL-US and MCL-CA are identical, and as MCL-CA when the MCL-CA is lower than the MCL-US or no MCL-US exists.

<sup>2</sup>The MCL-US threshold for trihalomethanes is the sum of chloroform, bromoform, bromodichloromethane, and dibromochloromethane.

<sup>3</sup>Frequency of detection of at least one VOC in the grid wells. Detections with V remark codes are not included.