

Table 21. Tritium and noble gas results, analyzed at Lawrence Livermore National Laboratory, for unfiltered ground-water samples collected for the Monterey Bay and Salinas Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study, California, July to October 2005.

[The five-digit number below the constituent name is the U.S. Geological Survey parameter code used to uniquely identify a specific constituent or property; MSMB, Monterey Bay study area well; MSMBFP, Monterey Bay study area flow-path well; MSMBMW, Monterey Bay study area monitoring well; MSPR, Paso Robles study area well; MSSC, Santa Cruz study area well; MSSV, Salinas Valley study area well; MCL-CA, California Department of Health Services maximum contaminant level; cm³ STP g⁻¹ H₂O, cubic centimeters at standard temperature and pressure per gram of water; na, not available; nc, sample not collected; pCi/L, picocuries per liter]

GAMA identification No.	Collection date (mm/dd/yy)	Tritium (pCi/L) (07000)	Tritium measurement uncertainty (+/-) (pCi/L) (07001)	Dissolved gas analysis date (mm/dd/yy)	Helium- ³ / Helium- ⁴ (atom ratio) (61040)	Helium- ⁴ (85561)	Neon (61046)	Argon (85563)	Krypton (85565)	Xenon (85567)
						(cm ³ STP g ⁻¹ H ₂ O)				
					x 10 ⁻⁶	x 10 ⁻⁷	x 10 ⁻⁷	x 10 ⁻⁴	x 10 ⁻⁸	x 10 ⁻⁸
Threshold type	na	MCL-CA	na	na	na	na	na	na	na	na
Threshold	na	20,000	na	na	na	na	na	na	na	na
MSMB-01	08/04/05	2.65	0.3	08/30/05	0.97	0.73	2.22	3.53	7.72	1.08
MSMB-02	08/10/05	5.85	0.3	09/01/05	0.54	2.76	3.94	4.48	8.95	1.16
MSMB-03	08/31/05	<1.0	0.2	11/14/05	0.22	4.97	2.28	4.73	9.06	1.29
MSMB-04	08/17/05	<1.0	0.2	09/07/05	0.49	2.86	3.25	5.03	11.4	1.57
MSMB-05	08/08/05	3.71	0.3	08/31/05	1.44	0.48	2.15	3.46	7.93	1.12
MSMB-06	08/08/05	2.00	0.2	08/31/05	1.26	0.58	2.49	4.12	9.41	1.29
MSMB-07	08/08/05	1.73	0.2	08/31/05	0.83	1.09	2.91	4.56	10.1	1.46
MSMB-08	08/16/05	3.51	0.3	09/07/05	1.64	0.57	2.28	4.01	9.03	0.00
MSMB-09	08/15/05	<1.0	0.1	09/09/05	1.37	0.76	3.35	4.63	10.0	1.27
MSMB-10	08/30/05	<1.0	0.2	11/14/05	1.33	0.67	2.65	4.88	8.85	1.16
MSMB-11	08/18/05	<1.0	0.2	09/07/05	0.18	11.18	3.35	4.48	9.74	1.28
MSMB-12	09/14/05	<1.0	0.2	10/28/05	0.29	2.71	2.48	4.07	9.08	1.24
MSMB-13	08/17/05	1.07	0.2	09/07/05	1.10	0.85	2.74	3.95	8.79	1.13
MSMB-14	08/03/05	<1.0	0.3	08/30/05	1.09	0.89	3.10	4.32	9.48	1.23
MSMB-15	08/04/05	2.43	0.3	08/30/05	1.37	0.89	3.60	4.65	9.71	1.25
MSMB-16	08/17/05	<1.0	0.2	09/08/05	1.09	0.84	2.67	3.89	8.74	1.17
MSMB-17	08/09/05	<1.0	0.2	08/31/05	0.14	17.8	3.30	4.43	9.62	1.28
MSMB-18	08/11/05	<1.0	0.2	09/01/05	0.94	1.07	3.00	4.43	9.30	1.20
MSMB-19	08/16/05	<1.0	0.2	09/07/05	1.32	0.58	2.46	3.87	8.56	1.14
MSMB-20	08/16/05	2.70	0.2	09/07/05	1.31	0.71	2.85	4.21	9.35	1.20
MSMB-21	09/20/05	<1.0	0.2	11/29/05	1.31	0.66	2.77	4.33	9.28	1.31
MSMB-22	09/19/05	1.48	0.3	11/29/05	1.51	0.61	2.51	3.80	8.23	1.15
MSMB-23	08/30/05	<1.0	0.2	11/14/05	1.23	0.59	2.26	4.47	8.24	1.12
MSMB-24	08/09/05	1.73	0.2	09/01/05	1.31	0.53	2.15	3.46	7.76	1.06
MSMB-25	09/19/05	<1.0	0.2	11/14/05	0.20	7.33	3.21	5.34	9.60	1.20
MSMB-26	08/11/05	1.89	0.2	09/01/05	0.88	1.40	3.11	4.08	9.40	1.22
MSMB-27	08/03/05	1.49	0.2	08/31/05	0.40	2.58	3.17	4.40	9.45	1.29
MSMB-28	08/03/05	2.18	0.2	08/31/05	1.31	0.70	2.62	3.92	8.86	1.21
MSMB-29	08/30/05	7.86	0.6	10/28/05	1.64	0.56	2.31	3.39	7.99	1.07
MSMB-30	08/08/05	<1.0	0.2	08/31/05	0.76	1.45	3.18	4.39	9.57	1.29
MSMB-31	08/11/05	7.33	0.4	09/01/05	1.60	0.84	3.49	4.65	10.5	1.33
MSMB-32	08/31/05	1.71	0.2	11/14/05	1.36	0.47	1.96	4.03	7.51	1.02
MSMB-33	09/13/05	2.50	0.3	11/14/05	0.67	2.64	2.50	5.06	8.24	1.11
MSMB-34	08/16/05	<1.0	0.2	09/07/05	0.97	0.86	2.52	3.95	9.09	1.21
MSMB-35	09/20/05	9.02	0.5	11/29/05	1.41	0.72	3.04	4.06	8.54	1.12
MSMB-36	08/10/05	2.76	0.2	09/01/05	0.27	5.54	3.18	4.43	9.07	1.29
MSMB-37	09/01/05	<1.0	0.2	10/28/05	0.12	24.4	3.35	4.42	9.45	1.19
MSMB-38	08/11/05	3.18	0.2	09/01/05	0.77	1.52	3.05	4.12	9.47	1.24

Table 21. Tritium and noble gas results, analyzed at Lawrence Livermore National Laboratory, for for unfiltered ground-water samples collected for the Monterey Bay and Salinas Valley Ground-Water Ambient Monitoring and Assessment (GAMA) study, California, July to October 2005—Continued.

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GAMA identification No.	Collection date (mm/dd/yy)	Tritium (pCi/L) (07000)	Tritium measurement uncertainty (+/-) (pCi/L) (07001)	Dissolved gas analysis date (mm/dd/yy)	Helium- ³ / Helium- ⁴ (atom ratio) (61040)	Helium- ⁴ (85561)	Neon (61046)	Argon (85563)	Krypton (85565)	Xenon (85567)
						(cm ³ STP g ⁻¹ H ₂ O)				
					x 10 ⁻⁶	x 10 ⁻⁷	x 10 ⁻⁷	x 10 ⁻⁴	x 10 ⁻⁸	x 10 ⁻⁸
Threshold type	na	MCL-CA	na	na	na	na	na	na	na	na
Threshold	na	20,000	na	na	na	na	na	na	na	na
MSMB-39	09/19/05	2.33	0.2	10/28/05	1.14	0.92	2.98	4.12	8.87	1.23
MSMB-40	08/29/05	1.57	0.2	10/28/05	1.23	1.15	3.63	5.06	11.0	1.42
MSMB-41	09/20/05	13.97	0.7	10/28/05	2.59	0.64	2.68	3.87	8.57	1.11
MSMB-42	08/10/05	7.70	0.4	09/07/05	1.33	7.31	31.9	9.06	34.4	0.00
MSMB-43	09/23/05	12.69	0.6	10/28/05	2.36	0.50	2.13	3.51	7.86	1.10
MSMB-44	09/19/05	13.36	0.6	10/27/05	1.81	0.55	2.38	3.72	8.35	1.08
MSMB-45	08/10/05	6.47	0.3	01/10/06	1.29	0.94	3.44	4.26	8.81	1.15
MSMB-46	09/20/05	7.80	0.4	10/28/05	1.78	0.66	2.72	3.90	8.60	1.10
MSMB-47	08/03/05	<1.0	0.2	08/31/05	0.67	2.15	3.75	4.61	9.82	1.27
MSMB-48	09/21/05	5.07	0.3	01/11/06	1.31	1.12	4.11	4.81	9.56	1.22
MSMBFP-01	08/17/05	<1.0	0.2	09/08/05	0.13	14.0	2.71	4.16	9.52	1.31
MSMBFP-02	08/09/05	10.01	0.5	09/01/05	1.66	0.73	2.77	3.92	8.41	1.19
MSMBFP-03	08/09/05	4.83	0.3	08/31/05	1.59	0.64	2.57	3.95	9.04	1.18
MSMBMW-01	09/21/05	<1.0	0.2	10/29/05	0.15	11.8	3.07	4.25	9.33	1.25
MSMBMW-02	09/22/05	<1.0	0.2	11/15/05	0.22	6.14	3.19	3.84	9.43	1.21
MSMBMW-03	09/22/05	<1.0	0.2	11/23/05	0.65	1.90	3.50	4.61	9.30	1.21
MSPR-01	07/19/05	7.27	0.4	08/26/05	1.27	1.39	4.91	5.15	10.1	1.26
MSPR-02	07/27/05	5.23	0.3	08/24/05	0.32	4.06	2.25	3.65	8.11	1.10
MSPR-03	07/28/05	<1.0	0.2	08/24/05	0.30	5.32	2.47	3.86	8.83	1.18
MSPR-04	07/28/05	1.88	0.2	08/25/05	0.28	5.63	2.30	3.66	8.01	1.13
MSPR-05	07/27/05	1.26	0.2	08/24/05	0.26	7.34	2.74	4.08	9.21	1.21
MSPR-06	07/27/05	2.07	0.2	08/24/05	1.24	0.66	2.37	3.45	7.48	0.95
MSPR-07	07/21/05	<1.0	0.2	08/26/05	0.98	0.82	2.42	3.43	7.33	0.99
MSPR-08	07/20/05	1.55	0.6	08/25/05	0.90	0.94	2.37	3.67	8.10	1.13
MSPR-09	07/18/05	<1.0	0.2	01/10/06	0.26	14.4	2.66	3.79	8.43	1.13
MSPR-10	07/18/05	<1.0	0.1	08/25/05	0.47	3.10	3.09	4.05	8.61	1.15
MSPR-11	07/21/05	2.15	0.2	08/26/05	1.17	0.84	2.85	4.20	8.88	1.19
MSSC-01	08/29/05	11.9	0.6	nc	nc	nc	nc	nc	nc	nc
MSSC-02	09/12/05	9.00	0.4	nc	nc	nc	nc	nc	nc	nc
MSSC-03	08/29/05	10.24	0.5	11/28/05	1.32	0.53	2.17	3.59	7.78	1.10
MSSC-04	08/25/05	5.62	0.3	11/29/05	1.02	1.52	2.55	4.81	8.38	1.16
MSSC-05	08/30/05	<1.0	0.2	nc	nc	nc	nc	nc	nc	nc
MSSC-06	08/24/05	4.57	0.3	11/28/05	1.53	0.54	2.25	3.64	8.04	1.13
MSSC-07	08/23/05	<1.0	0.3	11/28/05	0.64	1.42	2.29	3.73	8.20	1.15
MSSC-08	09/15/05	4.39	0.3	11/29/05	1.32	0.52	2.20	3.43	7.57	1.06

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					(cm ³ STP g ⁻¹ H ₂ O)					
					x 10 ⁻⁶	x 10 ⁻⁷	x 10 ⁻⁷	x 10 ⁻⁴	x 10 ⁻⁸	x 10 ⁻⁸
Threshold type	na	MCL-CA	na	na	na	na	na	na	na	na
Threshold	na	20,000	na	na	na	na	na	na	na	na
MSSC-09	08/31/05	8.68	0.5	11/29/05	1.46	0.59	2.54	3.79	8.28	1.11
MSSC-10	08/29/05	4.17	0.2	11/28/05	0.93	0.85	2.70	4.47	10.0	1.40
MSSC-11	09/13/05	4.09	0.3	11/29/05	1.33	0.95	11.3	4.98	9.91	1.26
MSSC-12	09/13/05	4.34	0.8	11/29/05	1.34	0.75	3.44	4.80	10.1	1.31
MSSC-13	09/13/05	16.88	0.7	11/29/05	1.50	0.45	2.18	4.02	9.29	1.25
MSSV-01	07/26/05	<1.0	0.3	08/24/05	0.42	12.1	2.39	3.76	8.20	1.14
MSSV-02	07/28/05	7.26	0.4	08/25/05	1.54	0.49	2.09	3.49	7.95	1.06
MSSV-03	08/02/05	8.34	0.5	08/30/05	0.58	3.87	1.97	3.32	7.58	1.03
MSSV-04	08/02/05	2.19	0.2	08/27/05	1.28	0.92	3.30	3.82	8.26	1.09
MSSV-05	07/25/05	7.54	0.4	08/25/05	1.22	10.0	2.08	3.45	7.67	1.07
MSSV-06	08/02/05	7.72	0.6	08/30/05	1.43	0.54	2.25	3.41	7.67	1.04
MSSV-07	08/02/05	7.29	0.4	08/27/05	1.41	0.56	2.32	3.48	7.74	1.04
MSSV-08	08/04/05	9.09	0.5	01/10/06	1.14	0.79	2.36	3.52	7.76	1.06
MSSV-09	09/14/05	7.79	0.4	01/10/06	1.42	1.07	4.15	4.69	9.17	1.14
MSSV-10	09/21/05	7.43	0.4	10/27/05	1.39	0.51	2.13	3.45	7.73	1.04
MSSV-11	07/25/05	9.30	0.4	08/25/05	1.58	1.62	5.80	5.84	11.1	1.38
MSSV-12	08/01/05	7.13	0.4	08/26/05	1.41	1.22	4.89	5.37	10.7	1.33
MSSV-13	09/15/05	6.42	0.4	01/10/06	1.37	1.09	4.45	4.98	10.0	1.28
MSSV-14	08/01/05	5.86	0.3	08/26/05	1.29	0.93	2.87	4.06	9.04	1.19
MSSV-15	08/01/05	7.49	0.6	01/10/06	1.34	1.23	4.86	5.74	10.9	1.31
MSSV-16	09/14/05	<1.0	0.2	10/27/05	1.40	0.78	3.25	4.33	9.19	1.22
MSSV-17	09/14/05	6.30	0.6	10/27/05	1.44	0.74	3.02	4.28	9.46	1.26
MSSV-18	08/01/05	<1.0	0.2	nc	nc	nc	nc	nc	nc	nc
MSSV-19	07/27/05	<1.0	0.1	08/24/05	0.78	2.28	3.41	4.45	9.41	1.20