

Air Quality Monitoring Data for Hexavalent Chromium in Western Riverside and San Bernardino Counties

2/12/08 - 1/4/09

The following table includes the latest validated PM hexavalent chromium data from the AQMD air monitoring study in Western Riverside and San Bernardino Counties. This table will be updated periodically as new validated data is produced. A map is also included showing the locations of the monitoring sites. At the end of September 2008, site 4 was removed and the sampling frequencies at some of the sites were changed. Site 8 will resume sampling in January 2009.

WESTERN RIVERSIDE HEXAVALENT CHROMIUM SAMPLING RESULTS

24-hour Cr⁶⁺ concentrations in nanograms per cubic meter (ng/m³) by CARB method 039

Sample Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10
2/12/2008	NS	NS	0.71	0.85	0.27					
2/13/2008	3.31	0.92	0.25	0.30	0.54					
2/14/2008	0.35	0.23	0.71	0.44	0.07					
2/15/2008	2.73	0.84	0.25	0.30	0.10					
2/16/2008	3.83	1.58	0.29	0.37	0.31					
2/17/2008	2.53	0.46	0.92	0.27	0.28					
2/18/2008	1.69	0.91	0.15	0.20	0.18					
2/19/2008	1.33	NS	0.16	0.25	0.05					
2/20/2008	1.40	NS	0.13	0.18	0.06					
2/21/2008	1.79	0.31	0.19	0.26	0.15					
2/24/2008	4.79	0.28	0.14	0.23	NS					
2/27/2008	5.97	2.01	0.58	0.45	0.54					
3/1/2008	5.50	0.06	0.23	0.15	0.06					
3/4/2008	6.78	4.87	NS	0.58	0.68					
3/7/2008	0.24	1.43	0.71	0.44	0.45					
3/10/2008	1.72	0.21	0.76	0.27	0.33					
3/13/2008	2.71	0.96	0.26	0.14	0.24					
3/16/2008	1.80	0.21	0.21	0.06	0.33					
3/19/2008	1.73	NS	0.20	0.23	0.31	0.79				
3/22/2008	2.00	2.62	0.37	0.55	0.87	0.35				
3/25/2008	2.29	2.39	0.31	0.60	0.62	NS				
3/28/2008	1.90	0.68	0.21	0.31	0.09	0.82				
3/31/2008	2.03	0.14	0.13	0.23	0.13	0.7				
4/3/2008	0.72	0.01	0.05	0.18	0.06	0.92				
4/6/2008	0.83	NS	0.02	0.03	0.03	0.37				
4/9/2008	0.90	0.18	0.06	0.11	NS	0.53				
4/12/2008	0.65	NS	0.16	0.45	0.34	0.09				
4/15/2008	0.86	NS	NS	0.15	0.05	NS				
4/17/2008			Moved to Site 7				0.41			
4/18/2008	2.37						0.36			
4/20/2008	1.07						0.23			
4/21/2008	1.07	0.10		0.07	0.05	0.27	0.18			
4/24/2008	2.32	0.16		0.15	0.04	0.44	0.22			
4/27/2008	0.15	0.20		NS	0.08	0.06	0.12			
4/30/2008	0.17	0.12		0.18	0.03	0.16	0.10			
5/3/2008	0.14	0.31		0.09	0.13	0.09	0.08			0.07
5/6/2008	0.65	0.05		NS	0.04	0.09	0.10			0.02
5/9/2008	0.56	0.07		NS	0.04	0.16	0.24			0.05
5/10/2008	0.63									
5/11/2008	1.35									
5/12/2008	0.43	0.09		NS	0.04	0.27	0.04			0.03
5/13/2008	0.71									
5/14/2008	0.81									
5/15/2008	0.79	0.54		NS	0.16	0.10	0.40			0.17
5/16/2008	0.54									
5/17/2008	0.51									
5/18/2008	0.82	0.45		0.32	0.22	0.09	0.33			0.20
5/19/2008	0.74									
5/20/2008	0.80									
5/21/2008	1.58	0.27		0.12	0.03	0.27	0.14			0.03
5/22/2008	0.50									
5/23/2008	0.20									
5/24/2008	0.46	0.06		NS	0.06	0.44	0.10			0.06
5/25/2008	0.31									
5/26/2008	0.34									
5/27/2008	0.76	0.10		0.22	0.04	0.27	0.18			NS
5/28/2008	0.57									
5/29/2008	0.38									
5/30/2008	0.33	0.21		0.23	0.10	NS	0.15			0.14
5/31/2008	0.35									
6/1/2008	0.24									
6/2/2008	0.38	0.10		0.13	0.04	NS	0.06			0.04
6/3/2008	0.23									
6/4/2008	0.31									
6/5/2008	0.49	0.15		0.16	0.10	0.27	0.11			0.04
6/6/2008	0.62									
6/7/2008	0.45									
6/8/2008	0.38	0.05		0.06	0.04	0.46	0.10			0.03
6/9/2008	0.65									
6/10/2008	NS									
6/11/2008	0.58	0.06		0.09	0.06	NS	0.10			0.03

WESTERN RIVERSIDE HEXAVALENT CHROMIUM SAMPLING RESULTS

24-hour Cr⁶⁺ concentrations in nanograms per cubic meter (ng/m³) by CARB method 039

Sample Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10
8/22/2008	NS	NS		0.07	0.03	0.18	0.10	0.09	0.48	
8/23/2008	0.27									
8/24/2008	0.31									
8/25/2008	0.16	NS		0.21	0.16	0.68	0.14	0.11	0.32	
8/26/2008	0.62									
8/27/2008	0.26									
8/28/2008	0.30	0.10		0.05	0.07	0.50	0.12	NS	0.35	
8/29/2008	0.28									
8/30/2008	0.33									
8/31/2008	0.15	0.05		0.04	0.05	0.19	0.03	NS	0.20	
9/1/2008	0.03									
9/2/2008	0.40									
9/3/2008	0.51	0.21		0.18	0.05	0.80	0.19	NS	0.71	
9/4/2008	0.61									
9/5/2008	0.44									
9/6/2008	0.37	0.13		0.12	0.05	0.13	0.16	NS	0.39	
9/7/2008	0.41									
9/8/2008	0.35									
9/9/2008	0.34	0.08		0.15	0.07	0.77	0.13	NS	0.14	
9/10/2008	0.31									
9/11/2008	0.17									
9/12/2008	0.12	0.03		0.08	0.02	0.17	0.20	NS	0.05	
9/13/2008	0.25									
9/14/2008	0.16									
9/15/2008	0.67	0.73		0.57	0.06	0.31	0.67	NS	0.22	
9/16/2008	0.28									
9/17/2008	0.50									
9/18/2008	0.38	0.17		0.11	0.03	0.95	0.08	NS	0.35	
9/19/2008	0.58									
9/20/2008	0.27									
9/21/2008	0.21	0.03		0.06	0.02	0.53	0.08	NS	0.20	
9/22/2008	0.20									
9/23/2008	0.54									
9/24/2008	0.39	1.44		1.02	0.47	0.52	1.54	NS	0.13	
9/25/2008	0.78									
9/26/2008	0.64									
9/27/2008	0.86	0.64		0.46	0.09	0.73	0.65	NS	0.90	
9/28/2008	0.98									
9/29/2008	0.33									
9/30/2008	1.37	1.29		0.84	0.41	0.83	1.65	NS	0.14	
10/3/2008	0.63			Site Removed	0.04	0.66		NS	0.63	
10/6/2008	0.62				0.62			NS	0.30	
10/9/2008	0.57				0.27	0.55		NS	0.06	
10/12/2008	0.23					0.19		NS	0.07	
10/15/2008	1.01				0.57	0.21		NS	0.14	
10/18/2008	0.45	NS				0.10	0.42	NS	0.35	
10/21/2008	1.08	NS			0.42	1.07	0.80	NS	0.89	
10/24/2008	1.13	1.73				0.41	2.06	NS	0.34	
10/27/2008	1.94	0.59			0.67	0.81	2.43	NS	0.45	
10/30/2008	0.70	0.20				0.87	0.82	NS	0.47	
11/2/2008	0.33	0.12			0.03	0.71	0.17	NS	0.17	
11/5/2008	0.10	0.49				0.11	0.61	NS	0.06	
11/8/2008	0.61	0.52			0.30	NS	0.62	NS	0.15	
11/11/2008	0.29	0.40				NS	0.46	NS	0.40	
11/14/2008	0.07	0.26			0.06	NS	0.12	NS	0.08	
11/17/2008	1.38	1.87				0.34	1.65	NS	0.06	
11/20/2008	0.77	0.79			NS	0.72	0.80	NS	0.40	
11/23/2008	0.24	0.35				0.44	0.62	NS	NS	
11/26/2008	0.14	0.11			0.12	0.20	0.19	NS	0.31	
11/29/2008	0.09	0.17				0.48	0.22	NS	0.91	
12/2/2008	0.30	0.23			0.04	0.78	0.33	NS	1.12	
12/5/2008	0.88	0.44				0.26	1.13	NS	0.15	
12/8/2008	0.30	0.21			0.03	0.41	0.22	NS	0.16	
12/11/2008	0.34	NS				0.17	0.48	NS	0.21	
12/14/2008	0.12	NS			0.03	0.16	0.11	NS	0.14	
12/17/2008	0.04	NS				0.06	0.12	NS	0.07	
12/20/2008	0.07	0.25				0.16	0.10	NS	0.10	
12/23/2008	0.04	0.15				0.60	0.16	NS	0.14	
12/26/2008	0.13	NS			0.09	0.11	0.14	NS	0.14	
12/29/2008	0.50	NS				NS	NS	NS	NS	
1/1/2009	0.58				0.41	0.51				

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24-hour Cr⁶⁺ concentrations in nanograms per cubic meter (ng/m³) by CARB method 039

Sample Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10
1/4/2009	0.15					0.06				
Average	0.76	0.46	0.30	0.24	0.16	0.45	0.35	0.14	0.34	0.10

Shaded with no data: Sample not scheduled

NS: No Sample due to instrument malfunction, site accessibility or scheduling conflicts

Sampling Locations for Hexavalent Chromium in Western Riverside and San Bernardino Counties

