

**Tap Water Sampling for Lead
Rio Grand Campus
Summary of Results**

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Austin Community College contracted with Baer Engineering and Environmental Consulting, Inc. (Baer Engineering) of Austin, Texas, to test the tap water system for the presence of lead and other metals in the Main Building, Annex Building, and the Adjunct Faculty Building of the Rio Grande Campus. A total of 79 samples were collected and analyzed for lead content and pH in accordance with the United States Environmental Protection Agency (EPA) Method 6020/200.8. Three of the samples from the 3rd floor of the Main Building and one sample from the Annex Building were analyzed in accordance with EPA Method 6020/200.8/7470/7471 for the following eight metals in addition to the lead as part of the overall assessment of the building water: copper, silver, arsenic, barium, cadmium, chromium, mercury, and selenium. All samples were submitted to DHL Analytical of Round Rock, Texas, for analysis.

The sampling was performed on Monday, December 19, 2005, following the Texas Commission on Environmental Quality (TCEQ) Drinking Water Standards Governing Drinking Water Quality and Reporting Requirements for Public Water Systems (30 TAC Chapter 290 Subchapter F, §290.117 Regulation of Lead and Copper). All samples were drawn from the cold water tap at each location. Each tap line to be sampled was flushed for 10 to 15 seconds the evening before the sampling. This allowed the tap water to be standing in the plumbing at each point for at least 6 hours but not more than 18 hours, in accordance with the TCEQ methodology. The samples were collected, from the first draw at each sink, water fountain, and exterior hose bib. Each sample container was sealed immediately after collection and submitted to DHL for analysis, which performed pH analysis of each sample on the same day of the sampling.

The attached analytical results indicate that the lead in the tap water at nine of the 79 locations sampled exceeded the action level of 0.015 milligrams of lead per liter of water (mg/L) or 15 parts of lead per billion parts of water (ppb) established by the EPA. The nine samples were collected on the third floor: Classroom 310.0 sinks (sample numbers W-49, W-50, and W-51), Microbiology 312.0 sinks (sample numbers W-53, W-54, W-55, and W-56), and Physics Lab 326.0 sinks (sample numbers W-63 and W-67). The pH of all samples was below the pH of 10.2 as measured at the Green Water Treatment Plant, which is the provider of tap water at the Rio Grande Campus, as determined by the City of Austin's Water Quality Summary 4th Quarter Averages (October 1, 2002 to December 31, 2002, the most recent testing period). Additional metals testing was performed on four samples, three from the fourth floor of the Main Building in rooms 305CS Custodian, 308.0, Chem. Lab 316.0, and one from the Annex Building second floor sink at the west end. None of the additional metal testing samples tested above the Maximum Contaminant Level (MCL) established by the EPA.

ACC Rio Grande Campus Water Sampling for Lead					
Main Building	Sample No.	Location	pH	Lead µg/L (ppb)	
Basement	W-01	west ladies room	9.43	J	
	W-02	west mens room	9.53	J	
	W-03	room 012.4	9.48	1.36	
	W-04	room 012.5	9.41	J	
	W-05	Art, south end	9.38	ND	
	W-06	Art, side room	9.43	ND	
	W-07	fountain, south end 1 (N)	9.12	ND	
	W-08	fountain, south end 2 (S)	9.37	ND	
	W-09	fountain, north end	9.37	ND	
1st Floor		east corridor:			
	W-10	ladies room	9.48	J	
	W-13	mens room	9.49	ND	
	W-14	custodial room (near 106)	9.57	ND	
	W-15	room 108.0	9.46	J	
	W-16	fountain, north end 1 (S)	9.54	ND	
	W-17	fountain, north end 2 (N)	9.57	ND	
	W-18	fountain, south end	9.48	ND	
		west corridor:			
	W-19	room 118CS custodian	9.25	ND	
	W-20	ladies room	9.49	J	
	W-21	mens room	9.48	1.36	
	W-22	fountain, south end 1 (N)	9.37	ND	
	W-23	fountain, south end 2 (S)	9.29	ND	
	W-24	fountain, north end	9.25	ND	
	2nd Floor		east corridor:		
		W-25	mens room	9.40	ND
		W-26	ladies room	9.51	ND
		W-27	room 205.8	9.40	ND
		W-28	fountain 1 (S)	9.34	J
		W-29	fountain 2 (N)	9.13	ND
			west corridor:		
		W-30	ladies room	9.36	J
		W-31	mens room	9.35	J
W-32		fountain, south end 1 (N)	9.38	ND	
W-33		fountain, south end 2 (S)	9.33	ND	
W-34		fountain, north end	9.25	ND	
W-35		Library - Electronic Resources Rm.	9.06	ND	
3rd Floor			east corridor:		
		W-36	faculty restroom	9.39	1.03
	W-37	ladies room	9.37	ND	
	W-39*	305CS custodian	9.43	ND	
	W-40	mens room 1	9.29	1.88	
	W-41	mens room 2	9.48	J	
	W-42	fountain, south end 1 (S)	9.32	ND	
	W-43	fountain, south end 2 (N)	9.38	1.50	
	W-44	Biology Lab 306.0	9.28	4.86	

Main Building	Sample No.	Location	pH	Lead µg/L (ppb)
	W-45	Biology Lab 307.0 - 1 (Main)	9.41	4.46
	W-46	Biology Lab 307.0 - 2 (Side)	9.29	1.93
	W-47	Classroom 308.0 -1 (Main)	9.21	4.60
	W-48*	Classroom 308.0 -2 (Side)	9.29	ND
	W-49	Classroom 310.0 -1 (Farthest from Door)	9.12	29.00
	W-50	Classroom 310.0 -2	8.85	43.70
	W-51	Classroom 310.0 -3 (Closest to Door)	9.26	57.10
	W-52	Classroom 310.0 -4 (Wall)	9.33	11.50
	W-53	Microbiology 312.0 - 1 (NE)	9.32	31.90
	W-54	Microbiology 312.0 - 2 (NW)	9.39	18.60
	W-55	Microbiology 312.0 - 3 (SW)	9.30	22.80
	W-56	Microbiology 312.0 - 4 (SE)	9.37	35.90
	W-57	Microbiology 312.0 - 5 (Wall N)	9.33	6.29
	W-58	Microbiology 312.0 - 6	9.28	7.60
	W-59	Microbiology 312.1	9.34	J
		west corridor:		
	W-60	Chem. lab 316.0 - 1 (S)	8.91	1.91
	W-61*	Chem. lab 316.0 - 2 (Middle)	9.29	J
	W-62	Chem. lab 316.0 - 3 (N)	9.38	3.13
	W-63	Physics lab 326.0 (W)	9.14	34.90
	W-64	Physics lab 327.0	9.13	3.84
	W-65	fountain, south end	9.34	ND
	W-66	fountain, north end	9.19	ND
	W-67	Physics lab 326.0 (E)	9.22	56.90
Outside		Hose bibs:		
	W-68	north side at window	9.06	1.14
	W-69	west side, north	9.24	1.80
	W-71	south side	9.04	2.47
Annex Building		1st floor:		
	W-72	1st floor, northeast corner at entrance (outside room)	9.33	1.23
	W-73	mens room 1 (E)	9.28	1.05
	W-74	mens room 2 (W)	9.43	ND
	W-75	ladies room	9.24	ND
	W-76	faculty room, west end	9.29	ND
		2nd floor:		
	W-77	fountain, west end	9.34	ND
	W-78*	sink, west end	9.34	ND
	W-79	fountain, east end	9.39	ND

Main Building	Sample No.	Location	pH	Lead µg/L (ppb)
Adjunct Faculty Building	W-80	Restroom	9.23	ND
	W-81	Break Room	8.96	1.05
	W-82	fountain 1 at entrance	9.34	5.19

* Additional metals analysis was performed on these samples, results listed below.

ND = Not Detected

J = The detected analyte was J-Flagged by the laboratory. There is a detectable concentration of the metal in the water sample; however, that concentration is below the reporting limit for the analytical method.

Highlighted rows represent water samples with lead (Pb) concentrations above the Action Level (AL), which is established by the United States Environmental Protection Agency (EPA).

Additional Metal Analysis

Sample No.	Metals								
	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Mercury	Selenium	Silver
W-39	ND	J	ND	ND	ND	ND	ND	ND	ND
W-48	ND	J	ND	ND	J	4.11	ND	ND	ND
W-61	ND	J	ND	ND	ND	J	ND	ND	ND
W-78	ND	J	J	ND	J	ND	ND	ND	ND