

**Table RD-1d. Trace Element Concentrations in Aerosols determined by
Atomic Absorption Spectrometry and Inductively Coupled Plasma Mass Spectrometry
Nd through Sm
(July, 2000 - March, 2001)**

See CEMRC 2000 Report, "Particulate concentrations and inorganics in near-surface air"
for descriptions of locations and methods of data collection.

Date	Station	Type	Analyte							
			Nd	Ni	Pb	Pr	Sb	Sc		
07/11/2000	Cactus Flats	LTSP	2.33E-01	<MDL ^c	8.33E-01	5.85E-02	<MDL	2.88E-01	<MDL	
07/20/2000	Cactus Flats	LTSP	4.65E-01	<MDL	5.84E-01	1.19E-01	2.61E-01	5.22E-01	<MDL	
07/30/2000	Cactus Flats	LTSP	1.92E-01	<MDL	4.88E-01	5.37E-02	9.41E-02	2.94E-01	<MDL	
08/09/2000	Cactus Flats	LTSP	1.74E-01	2.69E+00	6.51E+00	4.50E-02	8.04E-01	<MDL	<MDL	
08/19/2000	Cactus Flats	LTSP	2.33E-01	1.22E+00	6.79E-01	5.84E-02	1.55E-01	<MDL	1.37E-01	
09/06/2000	Cactus Flats	LTSP	1.75E-01	<MDL	8.66E-01	5.10E-02	1.66E-01	<MDL	<MDL	
09/16/2000	Cactus Flats	LTSP	1.65E-01	<MDL	7.56E-01	4.84E-02	1.18E-01	<MDL	<MDL	
07/11/2000	Near Field	LTSP	1.36E-01	1.79E+00	8.27E-01	4.57E-02	2.08E-01	2.48E-01	<MDL	
07/20/2000	Near Field	LTSP	3.49E-01	<MDL	7.69E-01	9.93E-02	2.03E-01	<MDL	<MDL	
07/30/2000	Near Field	LTSP	1.83E-01	<MDL	7.54E-01	4.80E-02	9.48E-02	3.48E-01	<MDL	
08/09/2000	Near Field	LTSP	1.31E-01	8.38E-01	2.28E-01	3.32E-02	1.84E-01	<MDL	1.36E-01	
08/19/2000	Near Field	LTSP	2.85E-01	8.59E-01	8.26E-01	7.11E-02	2.24E-01	1.06E-01	<MDL	
09/06/2000	Near Field	LTSP	1.75E-01	<MDL	7.55E-01	5.85E-02	2.13E-01	<MDL	2.66E-01	
09/16/2000	Near Field	LTSP	1.50E-01	<MDL	7.56E-01	4.41E-02	9.18E-02	<MDL	1.55E-01	
07/11/2000	On Site	LTSP	1.16E-01	2.81E+00	4.34E-01	2.72E-02	1.86E-01	<MDL	<MDL	
07/20/2000	On Site	LTSP	4.64E-01	1.47E+00	5.75E-01	1.26E-01	1.38E-01	9.26E-01	<MDL	
07/20/2000	On Site	LTSP	2.31E-01	<MDL	1.80E-01	6.06E-02	<MDL	4.02E-01	<MDL	
07/30/2000	On Site	LTSP	1.33E-01	<MDL	2.74E-01	3.17E-02	<MDL	2.78E-01	<MDL	
08/09/2000	On Site	LTSP	2.01E-01	1.62E+00	8.07E-01	5.53E-02	2.35E-01	<MDL	1.72E-01	
08/19/2000	On Site	LTSP	3.40E-01	1.08E+00	9.16E-01	9.10E-02	2.17E-01	1.47E-01	1.02E-01	
09/06/2000	On Site	LTSP	2.91E-01	<MDL	9.14E-01	7.10E-02	3.31E-01	<MDL	<MDL	
09/16/2000	On Site	LTSP	2.16E-01	<MDL	8.62E+00	6.27E-02	1.22E-01	<MDL	1.31E-01	
09/16/2000	On Site	LTSP	1.57E-01	1.03E+00	5.50E-01	4.13E-02	1.17E-01	<MDL	<MDL	
10/4/2000	Cactus Flats	LTSP	1.57E-01	<MDL	9.70E-01	4.25E-02	1.45E-01	<MDL	<MDL	
10/14/2000	Cactus Flats	LTSP	5.67E-02	6.60E-01	1.60E+00	1.60E-02	1.06E-01	<MDL	<MDL	
10/14/2000	Cactus Flats	LTSP	7.19E-02	3.62E+00	8.99E-01	1.69E-02	1.57E-01	<MDL	<MDL	
11/1/2000	Cactus Flats	LTSP	4.70E-02	<MDL	4.93E-01	1.19E-02	2.12E-01	<MDL	<MDL	
11/11/2000	Cactus Flats	LTSP	2.16E-02	<MDL	3.63E-01	4.08E-03	1.27E-01	<MDL	<MDL	
11/29/2000	Cactus Flats	LTSP	8.88E-02	<MDL	7.15E-01	2.09E-02	6.05E-01	<MDL	<MDL	
11/29/2000	Cactus Flats	LTSP	8.02E-02	<MDL	9.73E-01	2.25E-02	2.31E-01	<MDL	<MDL	
12/9/2000	Cactus Flats	LTSP	7.78E-02	<MDL	6.69E-01	2.48E-02	2.21E-01	<MDL	<MDL	

Date	Station	Type	Analyte							
			Nd	Ni	Pb	Pr	Sb	Sc		
10/4/2000	Near Field	LTSP	1.67E-01	3.45E+00	1.36E+00	4.81E-02	1.74E-01	<MDL	<MDL	
10/14/2000	Near Field	LTSP	5.86E-02	2.13E+00	5.39E-01	1.59E-02	1.27E-01	<MDL	<MDL	
11/1/2000	Near Field	LTSP	3.58E-02	<MDL	2.75E-01	1.01E-02	1.63E-01	<MDL	<MDL	
11/11/2000	Near Field	LTSP	1.25E-02	<MDL	4.54E-01	4.30E-03	1.24E-01	<MDL	<MDL	
11/11/2000	Near Field	LTSP	1.93E-02	<MDL	5.95E-01	5.52E-03	1.68E-01	<MDL	<MDL	
11/29/2000	Near Field	LTSP	1.01E-01	<MDL	8.51E-01	2.91E-02	2.90E-01	<MDL	<MDL	
12/9/2000	Near Field	LTSP	8.54E-02	<MDL	1.25E+00	2.74E-02	2.33E-01	<MDL	<MDL	
10/4/2000	On Site	LTSP	2.39E-01	1.69E+00	1.05E+00	7.28E-02	1.93E-01	1.35E-01	<MDL	
10/14/2000	On Site	LTSP	8.85E-02	1.23E+00	6.54E-01	2.96E-02	9.39E-02	<MDL	<MDL	
11/1/2000	On Site	LTSP	5.08E-02	<MDL	3.39E-01	1.11E-02	1.82E-01	<MDL	<MDL	
11/11/2000	On Site	LTSP	3.83E-02	<MDL	4.76E-01	9.64E-03	1.55E-01	<MDL	<MDL	
11/29/2000	On Site	LTSP	4.99E-02	<MDL	3.96E-01	1.84E-02	1.90E-01	<MDL	<MDL	
12/9/2000	On Site	LTSP	1.32E-01	6.60E-01	9.69E-01	3.30E-02	2.79E-01	1.10E-01	<MDL	
1/6/2001	Cactus Flats	LTSP	1.55E-01	7.33E-01	8.42E-01	4.24E-02	2.80E-01	1.32E-01	<MDL	
1/24/2001	Cactus Flats	LTSP	4.65E-02	<MDL	7.82E-01	1.90E-02	1.78E-01	1.09E-01	<MDL	
2/3/2001	Cactus Flats	LTSP	6.80E-02	<MDL	5.15E-01	2.40E-02	9.23E-02	<MDL	1.01	
2/21/2001	Cactus Flats	LTSP	1.36E-01	<MDL	1.67E+00	3.63E-02	3.23E-01	2.86E-01	<MDL	
3/3/2001	Cactus Flats	LTSP	2.44E-02	<MDL	3.79E-01	5.98E-03	1.09E-01	<MDL	<MDL	
3/21/2001	Cactus Flats	LTSP	3.64E-02	<MDL	<MDL	1.21E-02	1.13E-01	1.53E-01	<MDL	
3/21/2001	Cactus Flats	LTSP	6.09E-02	<MDL	3.32E-01	1.91E-02	1.39E-01	1.89E-01	1.32	
3/31/2001	Cactus Flats	LTSP	8.81E-02	<MDL	6.03E-01	2.15E-02	1.98E-01	9.98E-02	<MDL	
4/18/2001	Cactus Flats	LTSP	3.10E-01	<MDL	1.18E+00	9.54E-02	8.92E-02	4.82E-01	<MDL	
4/28/2001	Cactus Flats	LTSP	2.40E-01	1.49E+00	3.44E+00	6.64E-02	4.41E-01	1.28E-01	<MDL	
1/6/2001	Near Field	LTSP	8.47E-02	<MDL	6.45E-01	2.63E-02	3.60E-01	7.17E-02	<MDL	
1/24/2001	Near Field	LTSP	5.64E-02	1.17E+00	6.31E-01	1.48E-02	2.15E-01	<MDL	1.50	
2/5/2001	Near Field	LTSP	1.05E-01	<MDL	6.84E-01	3.20E-02	1.74E-01	1.50E-01	<MDL	
2/21/2001	Near Field	LTSP	6.37E-02	<MDL	8.25E-01	1.80E-02	1.67E-01	1.64E-01	<MDL	
3/3/2001	Near Field	LTSP	1.74E-02	<MDL	3.71E-01	7.71E-03	9.98E-02	<MDL	<MDL	
3/21/2001	Near Field	LTSP	3.27E-02	<MDL	3.18E-01	1.08E-02	1.37E-01	9.34E-02	<MDL	
3/31/2001	Near Field	LTSP	6.46E-02	<MDL	9.62E-01	1.75E-02	9.53E-02	1.00E-01	<MDL	
4/18/2001	Near Field	LTSP	5.95E-01	2.06E+00	2.12E+00	1.77E-01	1.24E-01	8.74E-01	<MDL	
1/6/2001	On Site	LTSP	1.11E-01	<MDL	5.21E-01	2.87E-02	2.11E-01	2.40E-01	<MDL	
1/24/2001	On Site	LTSP	6.24E-02	3.84E+00	7.27E-01	2.26E-02	2.54E-01	<MDL	<MDL	
2/5/2001	On Site	LTSP	1.55E-01	<MDL	8.55E-01	4.69E-02	1.66E-01	2.30E-01	<MDL	
2/21/2001	On Site	LTSP	1.30E-01	9.03E-01	1.51E+00	3.62E-02	3.02E-01	2.13E-01	<MDL	
2/21/2001	On Site	LTSP	9.00E-02	<MDL	1.22E+00	2.78E-02	2.63E-01	3.73E-01	<MDL	
3/3/2001	On Site	LTSP	1.77E-02	<MDL	1.69E-01	7.91E-03	1.26E-01	<MDL	<MDL	
3/21/2001	On Site	LTSP	3.63E-02	<MDL	<MDL	7.70E-03	1.13E-01	1.27E-01	<MDL	
3/31/2001	On Site	LTSP	6.90E-02	1.82E+00	8.28E-01	2.28E-02	1.19E-01	1.49E-01	<MDL	

Date	Station	Type	Analyte						
			Nd	Ni	Pb	Pr	Sb	Sc	Se
4/18/2001	On Site	LTSP	6.76E-01	1.22E+01	2.41E+00	1.67E-01	1.15E-01	8.75E-01	<MDL
4/28/2001	On Site	LTSP	2.25E-01	2.08E+01	1.65E+00	7.21E-02	1.15E-01	3.71E-01	1.0E+00

^aAll concentrations are expressed in nanograms (10⁻⁹ grams) per cubic meter

^bLTSP = low volume sampler, total suspended particulate; LPM10 - low volume sampler, particulate matter <10um aerodynamic diameter; LPM2.5 = low aerodynamic diameter

^cMDL = minimum detectable limit

^dNA = not available