

Table 4: Air Concentration Summary of Volatile Organic Compounds measured in 2001 at the Intersection of Diamond Drive & East Jemez Roads in Los Alamos (ppbv)

Compound Name	Chemical Abstract Service Compound Number	Number of Measurements	Number of Measurements < detection limit	Range	Mean	Standard Deviation
1,1,1-Trichloroethane	71-55-6	8	1	0.032-0.042	0.036	0.003
1,1,2,2-Tetrachloroethane	79-34-5	8	7	0.023	0.023	
1,1-Dichloroethene	75-35-4	8	8	<0.01		
1,2,3-Trimethylbenzene	526-73-8	8	7	0.027	0.027	
1,2,4-Trichlorobenzene	120-82-1	8	6	0.006-0.0089	0.007	
1,2,4-Trimethylbenzene	95-63-6	8	1	0.015-0.11	0.070	0.040
1,2-Dichlorobenzene	95-50-1	8	7	0.056	0.056	
1,3,5-Trimethylbenzene	108-67-8	8	3	0.015-0.051	0.029	0.014
1,3-Butadiene	106-99-0	8	2	0.022-0.091	0.060	0.030
1,3-Dichlorobenzene	541-73-1	8	7	0.044	0.044	
1,4-Dichlorobenzene	106-46-7	8	7	0.044	0.044	
1-Butanol	71-36-3	8	5	0.071-0.25	0.160	0.090
1-Butene/Isobutene	106-98-9	8	1	0.056-0.31	0.170	0.080
1-Heptene	592-76-7	8	3	0.024-0.089	0.050	0.020
1-Hexene	592-41-6	8	4	0.02-0.034	0.026	0.006
1-Methylcyclopentene	693-89-0	8	8	<0.014		
1-Nonene	124-11-8	8	7	0.019	0.019	
1-Octene	111-66-0	8	7	0.0072	0.007	
1-Pentene	109-67-1	8	2	0.034-0.079	0.054	0.017
1-Propanol	71-23-8	8	7	0.92	0.920	
1-Undecene	821-95-4	8	7	0.0094	0.009	
2,2,3-Trimethylpentane	564-02-3	8	4	0.0061-0.02	0.012	0.006
2,2,4-Trimethylpentane	540-84-1	8	1	0.0097-0.17	0.070	0.050
2,2,5-Trimethylhexane	3522-94-9	8	5	0.0052-0.022	0.014	0.008
2,2-Dimethylbutane	75-83-2	8	3	0.016-0.03	0.022	0.006
2,3,4-Trimethylpentane	565-75-3	8	3	0.084-0.14	0.100	
2,3-Dimethylbutane	79-29-8	8	2	0.024-0.083	0.046	0.021
2,3-Dimethylpentane	565-59-3	8	2	0.038-0.16	0.082	0.040
2,4,4-Trimethyl-1-pentene	107-39-1	8	5	0.0078-0.014	0.012	0.003
2,4-Dimethylpentane	108-08-7	8	2	0.022-0.076	0.042	0.020
2,5-Dimethylhexane	592-13-2	8	5	0.0092-0.025	0.016	0.008
2-Butanone (Methyl Ethyl Ketone)	78-93-3	8	0	0.083-0.4	0.230	0.100
2-Ethyl-1-butene	760-21-4	8	8	<0.019		
2-Ethyltoluene	611-14-3	8	5	0.018-0.031	0.023	0.007
2-Methyl-1-pentene	763-29-1	8	8	<0.015		
2-Methyl-2-butene	513-35-9	8	2	0.012-0.068	0.040	0.020
2-Methyl-2-pentene	625-27-4	8	6	0.015-0.018	0.017	
2-Methylbutane	78-78-4	8	0	0.074-2.1	0.890	0.600
2-Methylheptane	592-27-8	8	3	0.03-0.069	0.047	0.015
2-Propanol	67-63-0	8	3	0.085-0.19	0.120	0.040
3-Ethyltoluene	620-14-4	8	2	0.021-0.076	0.048	0.020
3-Methyl-1-butene	563-45-1	8	8	<0.01		

3-Methylheptane	589-81-1	8	5	0.015-0.021	0.018	0.003
3-Methylhexane	589-34-4	8	3	0.089-0.16	0.110	0.030
3-Methylpentane	96-14-0	8	1	0.015-0.2	0.100	0.070
4-Ethyltoluene	622-96-8	8	4	0.023-0.051	0.035	0.013
4-Methyl-1-pentene	691-37-2	8	7	0.0089	0.009	
4-Methyl-2-pentanone	108-10-1	8	4	0.05-0.086	0.064	0.016
Acetaldehyde	75-07-0	8	0	1.1-8.7	4.000	2.800
Acetone	67-64-1	8	0	1.2-5.4	3.600	1.500
Acetonitrile	75-05-8	8	5	0.1-0.16	0.130	0.030
Acetylene	74-86-2	8	0	0.19-1.8	0.980	0.600
alpha-Pinene	80-56-8	8	4	0.019-0.087	0.042	0.030
Benzaldehyde	100-52-7	8	3	0.1-1.0	0.460	0.350
Benzene	71-43-2	8	0	0.04-0.53	0.311	0.180
beta-Pinene	127-91-3	8	7	0.0072	0.007	
Bromomethane	74-83-9	8	8	<0.03		
Butane	106-97-8	8	0	0.15-2	0.960	0.700
Butyraldehyde	123-72-8	8	1	0.053-0.35	0.190	0.100
Carbon Tetrachloride	56-23-5	8	0	0.027-0.14	0.120	0.040
Chlorobenzene	108-90-7	8	8	<0.014		
Chlorodifluoromethane	75-45-6	8	0	0.11-0.82	0.290	0.220
Chloroethane	75-00-3	8	8	<0.015		
Chloroform	67-66-3	8	4	0.0055-0.018	0.010	0.005
Chloromethane	74-87-3	8	0	0.15-0.49	0.460	0.100
cis-2-Butene	590-18-1	8	5	0.038-0.05	0.042	0.006
cis-2-Hexene	7688-21-3	8	8	<0.01		
cis-2-Octene	7642-04-8	8	8	<0.03		
cis-2-Pentene	627-20-3	8	5	0.024-0.037	0.028	0.007
cis-3-Heptene	7642-10-6	8	8	<0.08		
cis-3-Hexene	7642-09-3	8	8	<0.02		
cis-3-Methyl-2-pentene	922-62-3	8	8	<0.01		
cis/trans-4-Methyl-2-pentene	691-38-3	8	8	<0.009		
Cyclohexane	110-82-7	8	2	0.03-0.12	0.070	0.040
Cyclopentane	287-92-3	8	3	0.018-0.045	0.033	0.011
Cyclopentene	142-29-0	8	6	0.011-0.025	0.018	
Dichlorofluoromethane	75-43-4	8	7	0.0096	0.010	
Ethane	74-84-0	8	0	1.1-14.3	5.600	4.000
Ethanol	64-17-5	8	0	5-19	10.900	5.000
Ethyl Benzene	100-41-4	8	1	0.024-0.15	0.088	0.040
Ethylene	74-85-1	8	0	0.31-2.5	1.480	0.800
Freon 11	75-69-4	8	0	0.078-0.31	0.270	0.080
Freon 113	76-13-1	8	0	0.015-0.081	0.065	0.021
Freon 114	76-14-2	8	1	0.009-0.016	0.011	0.002
Freon 12	75-71-8	8	0	0.16-0.59	0.530	0.150
Halocarbon 134A	811-97-2	8	1	0.023-0.16	0.056	0.050
Heptanal	111-71-7	8	7	0.04	0.040	
Heptane	142-82-5	8	2	0.021-0.093	0.060	0.020
Hexachlorobutadiene	87-68-3	8	7	0.14	0.140	
Hexanal	66-25-1	8	4	0.059-0.25	0.120	0.090
Hexane	110-54-3	8	1	0.022-0.73	0.210	0.240
Indan	496-11-7	8	8	<0.23		
Isobutane	75-28-5	8	0	0.044-0.77	0.320	0.280

Isoheptane	31394-5	8	2	0.04-0.12	0.090	0.030
Isohexane	107-83-5	8	1	0.035-0.33	0.180	0.100
Isoprene	78-79-5	8	3	0.012-0.054	0.034	0.016
Limonene	138-86-3	8	8	<0.029		
Methanol	67-56-1	8	0	1.2-7.4	4.600	2.000
Methyl tert-Butyl Ether	1634-04-4	8	8	<0.013		
Methylcyclohexane	108-87-2	8	2	0.008-0.12	0.047	0.040
Methylcyclopentane	96-37-7	8	1	0.0063-0.22	0.083	0.070
Methylene Chloride	75-09-2	8	1	0.026-0.26	0.077	0.080
n-Decane	124-18-5	8	2	0.0061-0.024	0.015	0.006
n-Nonane	111-84-2	8	1	0.011-0.044	0.026	0.011
n-Octane	111-65-9	8	3	0.033-0.055	0.043	0.008
n-Propylbenzene	103-65-1	8	6	0.023-0.027	0.025	
n-Undecane	1120-21-4	8	5	0.0094-0.02	0.016	0.006
Naphthalene	91-20-3	8	8	<0.08		
Neopentane	463-82-1	8	6	0.0082-0.009	0.009	
o-Xylene	95-47-6	8	1	0.03-0.22	0.120	0.060
p-Xylene/m-Xylene	106-42-3	8	0	0.019-0.51	0.250	0.170
Pentane	109-66-0	8	0	0.046-0.62	0.330	0.220
Propane	74-98-6	8	0	0.35-5	1.800	1.700
Propylene	115-07-1	8	0	0.028-0.96	0.340	0.310
Styrene	100-42-5	8	5	0.017-0.032	0.022	0.008
Tetrachloroethene	127-18-4	8	6	0.011-0.013	0.012	
Toluene	108-88-3	8	0	0.052-0.98	0.540	0.360
trans-2-Butene	624-64-6	8	4	0.034-0.057	0.043	0.011
trans-2-Heptene	14686-1	8	8	<0.017		
trans-2-Hexene	4050-45-7	8	7	0.016	0.016	
trans-2-Pentene	646-04-8	8	2	0.016-0.075	0.040	0.020
trans-3-Heptene	14686-1	8	7	0.1	0.100	
Trichloroethene	79-01-6	8	5	0.016-0.042	0.031	0.013
Vinyl Acetate	108-05-4	8	7	0.45	0.450	