STATISTICAL SUMMARY OF AMBIENT AIR PROGRAM 1980-1994 RESULTS

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Statistical Applications

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Executive Summary

The purpose of this report is to give a historical summary of data from each sampler location in the Ambient Air Monitoring Program for data accumulated from 1980 to 1994 and to provide comparisons between sampler locations.

Plots show that the onsite samplers, especially those downwind of the 903 Pad and Solar Ponds, generally detect higher Pu-239/240 concentrations than the perimeter and community samplers. Statistical tests are applied to compare individual sampler locations. Many differences are indicated with onsite samplers S-05 through S-09 detecting the highest concentrations. Perimeter samplers have detected concentrations similar to community samplers. The perimeter and community samplers detecting the highest concentrations are those located near the east side of the site.

Many onsite sampler locations and some east-side perimeter/community sampler locations showed temporal effects. For several sampler locations the concentrations before 1990 were statistically significantly higher than the concentrations from 1990 or later as shown in the summary tables and plots in the Appendix.

Introduction

The Ambient Air Monitoring Program, prior to the 1994 Air Sampler Upgrade Project, consisted of a network of 25 samplers onsite (S-01 through S-25), 14 samplers along the site perimeter (S-31 through S-44), and 14 samplers located in the surrounding communities (S-51 through S-62, S-68, and S-73). The locations for these samplers are shown on the maps at the front of the appendix. For each of the perimeter and community sampler locations, and some of the onsite sampler locations, Pu-239/240 concentration, in pCi/m^3, was computed monthly. Pu-239/240 data was available for samples from January 1980 through November 1994. Many onsite sampler results were not routinely analyzed for Pu-239/240 until 1990. Equipment failures and lab errors caused some data to be missing.

The purpose of this report is to give a historical summary of data from each sampler location and provide comparisons of Pu concentrations between sampler locations.

The Pu concentrations from each sampler generally followed lognormal distributions. Log base 10 transformations, instead of log base e, were used in this report for simplifying interpretation. Concentrations were reported to six decimal places except in 1989 and 1990 when more decimal places were available. Zeroes and negatives were replaced by 10^{-7} when computing logs. This accounts for some of the apparent gaps in the plots later in this report. The minimum positive concentration reported (other than 1989 and 1990) is 0.000001, which is log transformed to -6; values reported as 0 or negative were log transformed to -7. Reporting more decimal places would reduce the number of zeroes recorded and lessen the need for replacing values.

Discussion

The $\log_{10}$ Pu concentrations for each sampler group (onsite, perimeter, community) were plotted against time for all samplers within the group. The plots are shown on pages A-10, A-11, and A-12, respectively, in the Appendix of this report. Each line represents one air sampler. The onsite plot shows that Pu concentration data was not available before 1990 for many sampler locations and that other sampler locations had long periods without Pu data, shown by the long straight segments within a sampler's line. The concentrations for these sampler locations lacking Pu data were generally lower than the locations with complete data. The sampler locations with complete data from 1980 through 1994 are S-05 through S-09. S-05 and S-06 are located east of the Solar Ponds; S-07, S-08, and S-09 are located east of the 903 Pad. The Solar Ponds and the 903 Pad are areas known to have Pu contamination. Since all of the group plots are on the same scale, it can be seen that the onsite samplers generally detected higher Pu-239/240 concentrations than the perimeter and community samplers.

The plots for the perimeter and community sampler locations show an interesting pattern in the data prior to 1985 (before the vertical reference line). The concentrations for the first five years are very highly correlated for all of the locations as is shown by the amount of tracking together of the individual locations. The correlation is unexpected since these samplers are located over such a large area and typically only detect background levels of Pu concentration. The pattern disappears after 1984. Also, the number of zeroes and negatives reported, which would be transformed to -7 on these plots, increases after 1984. These abnormalities could not be fully explained by Air Quality personnel but are believed to be caused by lab analysis and reporting practices in place prior to 1985. Due to the unknown nature of this phenomenon, this report uses only data from 1985 through 1994 in the summaries.

Onsite sampler concentrations were compared using a form of the Friedman nonparametric approach. In this approach, each month's results are ranked across all samplers, the lowest concentration receiving rank one. Tied concentrations received the average rank of the tied values (i.e. if the five lowest concentrations were all zero, each of these locations would receive a rank of 3). An ANOVA procedure is performed on the sets of ranks. Only months in which all of the samplers have data are used. Sampler locations listed in Table 1 on page A-3 were compared using 1990 to 1994 data. Only 25 months during the time frame had results for all samplers in the list. Table 1 lists the sampler location, average rank of concentrations for the location, and lines that show groups that are not significantly different by Tukey's Studentized Range Test. Interpretation of the table is demonstrated through an example: Concentrations from sampler location S-18, located west of the 903 Pad, are not statistically significantly different from those of S-06, S-05, S-19, S-20, S-04, and S-21 since S-18 is joined to each of them by at least one line; S-18 concentrations are statistically significantly lower than those of sampler locations S-08, S-07, and S-09, and higher than the rest of the sampler locations.

Sampler locations S-05 through S-09 were compared using the same procedure for 1985 to 1994 data. During this time frame 109 months had results for all five locations. The larger sample size provides more power to identify differences for this comparison. Results are listed in Table 2 on page A-4. Sampler locations S-08 and S-09 are not statistically significantly different from each other, but are statistically significantly higher than S-07, S-06, and S-05. Locations S-05 and S-06 are not significantly different from each other, but are

statistically significantly lower than S-07, S-08, and S-09. Location S-07 being lower than locations S-08 and S-09 is a little surprising since they are located in close proximity to each other, but is probably due to the fact that the prevailing winds are from the northwest and S-07 is the furthest north of the three locations (see map on page A-1).

Perimeter and community sampler locations were grouped together and compared using the described Friedman approach. Sampler locations S-55, S-57, S-60, and S-61 were dropped since they have too many missing points. The remaining locations all had data for 76 months between 1985 and 1994. The results are listed in Table 3 on page A-5. Location S-37, at the east access road and Indiana Avenue, has significantly higher concentrations than all other locations except S-38. In general, the perimeter/community sampler locations with the highest concentrations are those located near the east side of the site.

Data for each sampler location were summarized by plotting an individuals X/moving range control chart of the $\log_{10}$ concentrations and by listing the mean, standard deviation, minimum, median, and maximum for each year. The control limits are the overall mean ±3 standard deviations. The standard deviation is estimated from the average moving range. These plots and lists form the bulk of the Appendix. Brief verbal descriptions for individual sampler's results are listed in Tables 4-6 on pages A-6 through A-9.

The control charts show that many onsite samplers and some east-side perimeter and community sampler locations have temporal effects. For several locations the concentrations before 1990 were significantly higher than the concentrations after 1990, as reported in the verbal description tables. Other locations showed only a low period from 1990 through 1991, then returned to "normal" levels in 1992. This could be related to the shutdown of operations at the site, which also affected the amount of work and traffic flow in the buffer zone and other areas near the air samplers. Other possible causes of the temporal effects include construction and remediation activities near the sampler locations.

Conclusions/Recommendations

Reporting more than six decimal places should be considered to reduce the number of zeroes recorded.

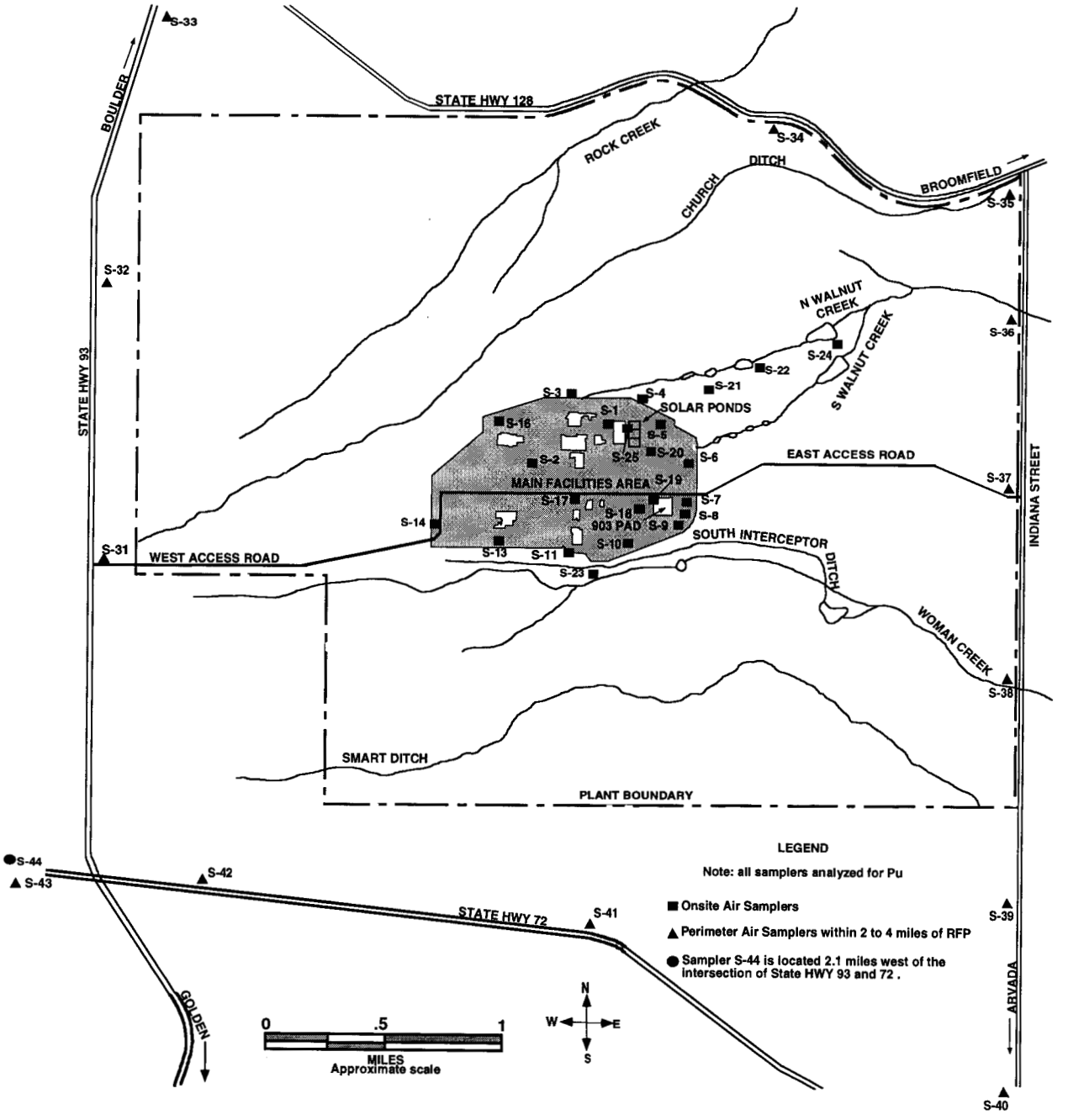
The data from 1980-1984 shows a much higher amount of correlation than would be expected between and among perimeter and community sampler locations. This phenomenon should be investigated jointly by Air Quality and laboratory personnel so that potential problems that caused it do not reoccur.

The onsite sampler locations generally detect higher Pu-239/240 concentrations than the perimeter and community locations. Onsite locations S-05 through S-09 detect the highest concentrations. Differences between perimeter and community location concentrations are not as distinct. The perimeter and community locations detecting the highest concentrations are those located near the east side of the site.

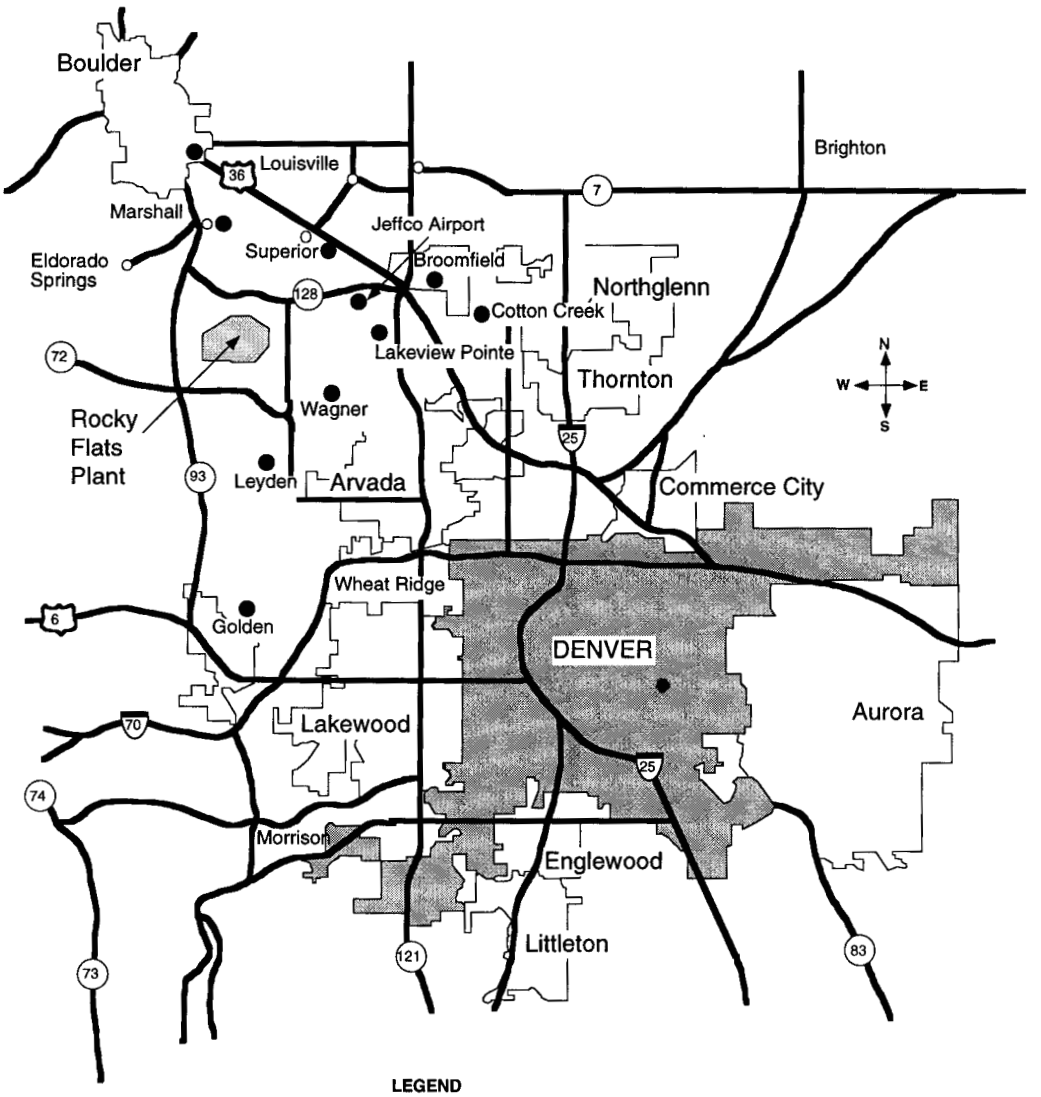
Many onsite locations and some east-side perimeter/community locations showed temporal effects. For several locations the concentrations before 1990 were significantly higher than the concentrations from 1990 or later. Investigation into the causes of these temporal effects should be continued.

Appendix

Onsite and Perimeter Sampler Locations



Community Sampler Locations



LEGEND

● Community Air Samplers

Table 1 **Grouping of Onsite Air Sampler Rankings**

Sampler	Mean Rank	Tukey Grouping
S-08	18.66	
S-07	17.92	
S-09	17.84	
S-06	16.66	
S-05	16.16	
S-18	13.72	
S-19	13.60	
S-20	12.22	
S-04	11.38	
S-21	10.84	
S-17	9.32	
S-11	8.54	
S-22	8.30	
S-10	7.64	
S-13	5.64	
S-23	5.30	
S-24	4.56	
S-16	4.30	
S-03	4.28	
S-14	3.12	

Rankings are based 25 months results from 1990-1994. Means with connecting lines are not significantly different using Tukey's Studentized Range Test with an alpha level of 0.05.

Table 2 Grouping of Air Samplers S-05 through S-09 Rankings

Sampler	Mean Rank	Tukey Grouping
S-08	3.99	
S-09	3.98	
S-07	3.00	
S-06	2.17	
S-05	1.86	

Rankings are based 109 months results from 1985-1994. Means with connecting lines are not significantly different using Tukey's Studentized Range Test with an alpha level of 0.05.

Table 3 Grouping of Perimeter and Community Air Sampler Rankings

Sampler	Mean Rank	Tukey Grouping
S-37	20.09	
S-38	16.63	
S-52	15.33	
S-36	14.49	
S-58	14.16	
S-68	13.55	
S-34	13.49	
S-31	13.45	
S-40	13.41	
S-39	12.24	
S-42	11.91	
S-41	11.77	
S-53	11.76	
S-56	11.66	
S-59	11.51	
S-43	11.38	
S-51	11.12	
S-73	10.78	
S-33	10.70	
S-35	10.57	
S-62	10.54	
S-32	9.96	
S-54	9.96	
S-44	9.53	

Rankings are based 76 months results from 1985-1994. Means with connecting lines are not significantly different using Tukey's Studentized Range Test with an alpha level of 0.05.

Table 4 **Summary of Onsite Samplers**
(page 1 of 2)

Sampler	Location	Time Covered	Description of Findings
S-01	West of Solar Ponds	Jan90-Sep92	Stable over time.
S-02	Southwest Area of PA	May90-Sep92	Stable over time.
S-03	North of Bldg 771	Feb90-Oct94	Stable over time.
S-04	North of Solar Ponds	Jan90-Oct94	Stable over time. Spikes occurred Jan90 and Sep91.
S-05	East of Solar Ponds	Jan85-Nov94	Increasing trend from 1985 to 1988 then decreasing trend to 1991 then stable from 1991 through 1994.
S-06	Southeast Area of PA	Jan85-Nov94	Increasing trend from 1986 to 1989 then lower and stable from 1990 through 1994.
S-07	East of 903 Pad	Jan85-Oct94	Decreasing trend from 1987 through 1991 then increasing through 1994. Seasonal effects were indicated with summer months showing the highest levels. Zero reported for Jun92 is unusually low.
S-08	East of 903 Pad	Jan85-Oct94	Fairly stable overall except for low period during 1990 and 1991. Seasonal effects were indicated with summer months showing the highest levels.
S-09	Southeast of 903 Pad	Jan85-Oct94	Fairly stable overall except for high period during 1987 and 1988 and low period during 1990 and 1991
S-10	Southeast Area of Main Site	Jan90-Oct94	Stable over time. Spike in Apr90. Negative value reported in Aug90 is unusually low.
S-11	South of Bldg. 881	Jan90-Oct94	Stable over time.
S-12	Cedar Ave/ 7th Street	Jan90-Jun91	Limited data indicates 1991 was lower than 1990 results.
S-13	South of Bldg. 444	Jan90-Aug94	Fairly stable over time except for 1991 which had more variability than other years.
S-14	West end of Main Site	Jan90-Aug94	Stable over time.
S-15	Northwest area of Main Site	Jan90-Jun91	Very limited data. Stable over time.
S-16	North of Bldg. 371	Jan90-Aug94	Stable over time.
S-17	Central Ave/ 8th Street	Jan90-Oct94	Decreasing trend from 1990 through 1994. Spike occurred Jul93. Zero reported for Jul94 is unusually low.

Table 4 Summary of Onsite Samplers
(page 2 of 2)

Sampler	Location	Time Covered	Description of Findings
S-18	West of 903 Pad	Jan85-Oct94	Increasing trend from 1986 to 1988 then decreasing to 1991. Stable from 1991 through 1994. Zero reported for Jul93 is unusually low.
S-19	Northwest of 903 Pad	Jan85-Oct94	Increasing trend from 1985 to 1987. Decreasing trend from 1987 to 1991. Stable from 1991 through 1994. Zero reported for Jun91 is unusually low.
S-20	Southeast of Solar Ponds	Jul85-Oct94	Increasing trend from 1986 to 1988. Decreasing trend from 1988 to 1990. Stable from 1991 through 1993. Lower in 1994.
S-21	Near Pond A2	Jul85-Jul94	Increasing trend from 1986 to 1988. Decreasing trend from 1988 to 1990. Stable from 1991 through 1994.
S-22	Near Pond A3	Jan90-Oct94	Stable over time.
S-23	881 Hillside	Jan90-Aug94	Stable over time.
S-24	Near Pond A4	Jan90-Oct94	Stable from 1990 through 1993. More variable in 1994.
S-25	Between Solar Ponds	Jan91-Aug94	Stable from 1991 through 1993. Lower in 1994. Zero reported Jun91 is unusually low.

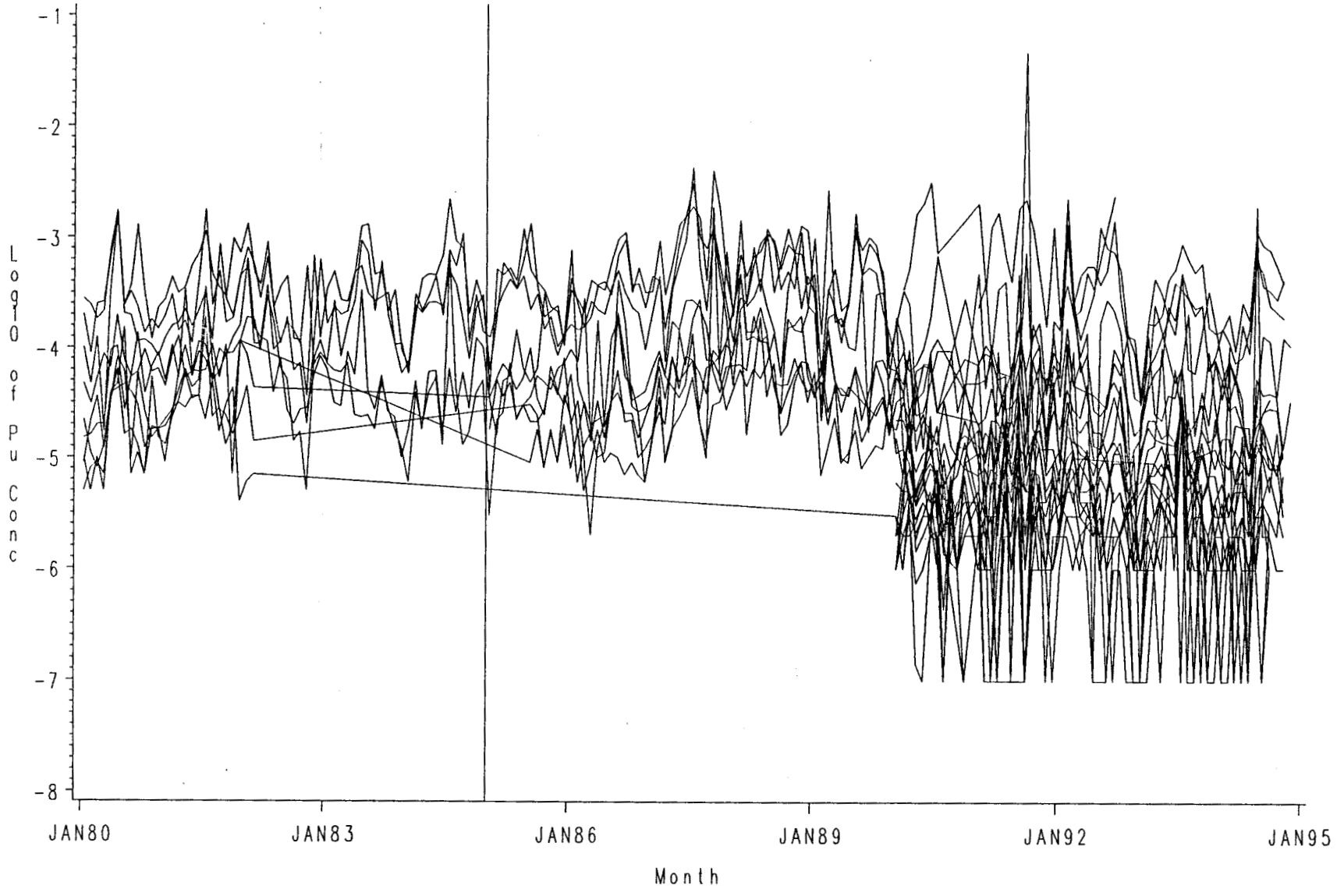
Table 5 **Summary of Perimeter Samplers**

Sampler	Location	Time Covered	Description of Findings
S-31	Hwy 93/ West Access	Jan85-Aug94	Stable over time.
S-32	Hwy 93/ North of West Access	Jan85-Aug94	Stable over time.
S-33	Hwy 93/ Hwy 128	Jan85-Oct94	Stable over time.
S-34	Hwy 128/ West of Indiana	Jan85-Oct94	Stable over time.
S-35	Indiana/ Hwy 128	Jan85-Oct94	Stable over time.
S-36	Indiana/North of East Access	Jan85-Aug94	Increasing trend from 1985 to 1987 then decreasing to 1990. Stable from 1990 through 1994.
S-37	Indiana/ East Access	Jan85-Aug94	Stable from 1985 through 1988. Stable with lower average from 1990 through 1994.
S-38	Indiana/South of East Access	Jan85-Nov94	Stable from 1985 through 1988. Stable with lower average from 1990 through 1994. Spikes occur Oct90 and Apr93.
S-39	Indiana/North of Hwy 72	Jan85-Oct94	Fairly stable overall except for high period during 1986. Spike occurred Jan91.
S-40	Indiana/ Hwy 72	Jan85-Aug94	Fairly stable overall except for high period during 1986 and 1987. Spikes occurred Sep90 and Nov92.
S-41	Hwy 72/Due South of Main Site	Jan85-Aug94	Fairly stable overall except for high period during 1986 and 1987.
S-42	Hwy 72/East of Hwy 93	Jan85-Aug94	Stable over time.
S-43	Hwy 72/ Hwy 93	Jan85-Oct94	Stable over time. Spike occurred Aug94.
S-44	Hwy 72/ 2 Miles West of Hwy 93	Jan85-Jul94	Stable over time.

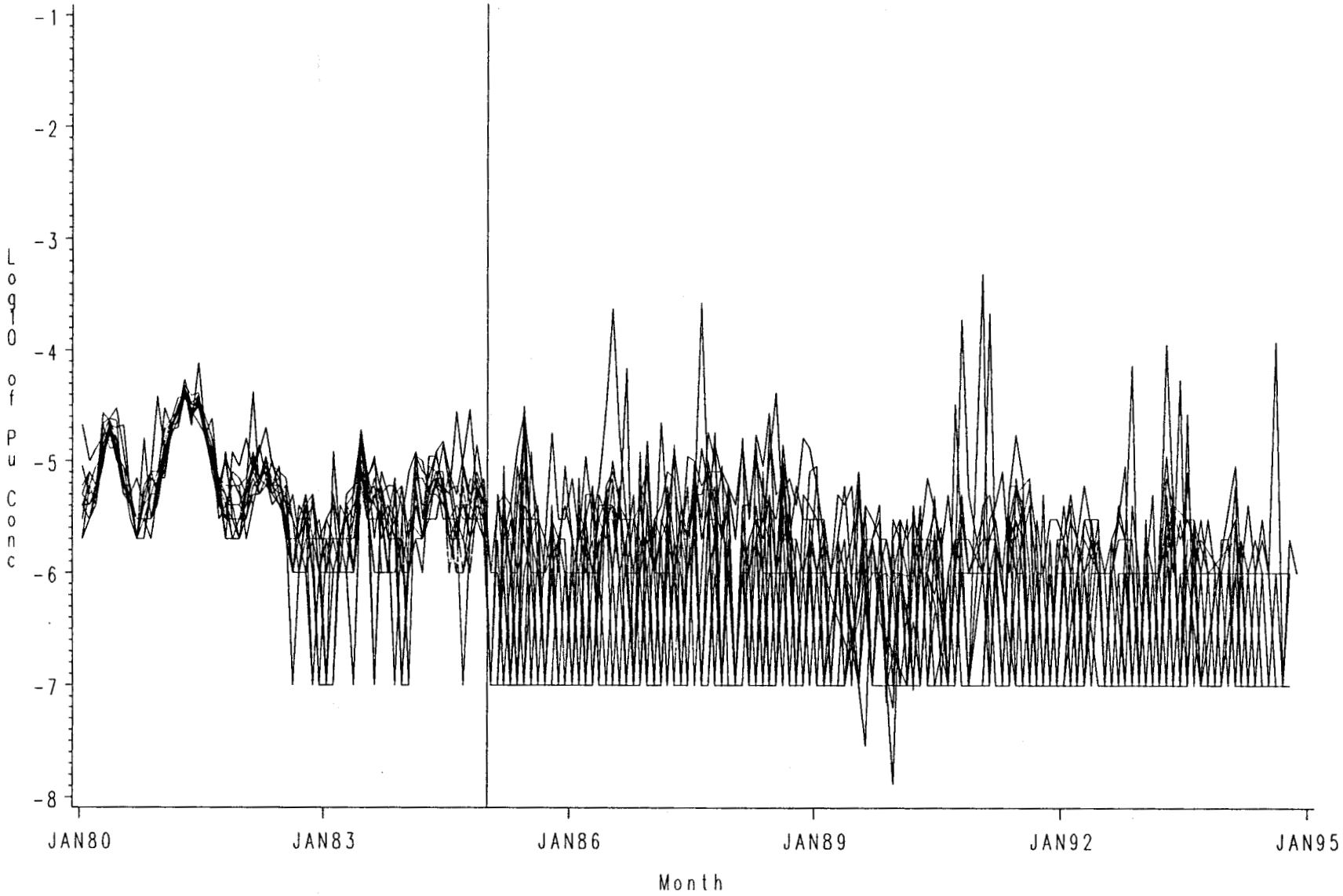
Table 6 **Summary of Community Samplers**

Sampler	Location	Time Covered	Description of Findings
S-51	Marshall	Jan85-Oct94	Stable over time.
S-52	Jeffco Airport	Jan85-Oct94	No zeroes or negatives recorded between Jun89 and Sep91. Otherwise stable.
S-53	Superior	Jan85-Oct94	Stable over time.
S-54	Boulder	Jan85-Aug94	Stable over time.
S-55	Lafayette	Jan85-Jul91	Stable over time.
S-56	Broomfield	Jan85-Oct94	Slightly higher in 1986 and 1987. Otherwise stable.
S-57	Walnut Creek	Jan85-Aug91	Slightly higher in 1986. Otherwise stable.
S-58	Wagner	Jan85-Aug94	No zeroes or negatives recorded between Jun87 and Mar89. Spike occurred Jul91. Otherwise stable.
S-59	Leyden	Jan85-Oct94	Stable over time.
S-60	Westminster	Jan85-Jan93	Slightly higher in 1985. Otherwise stable. Spike occurred Oct91.
S-61	Denver	Jan85-Nov89	Stable over time.
S-62	Golden	Jan85-Oct94	Stable over time.
S-68	Lakeview Pointe	Jan85-Aug94	Stable over time.
S-73	Cotton Creek	Jan85-Aug94	Stable over time.

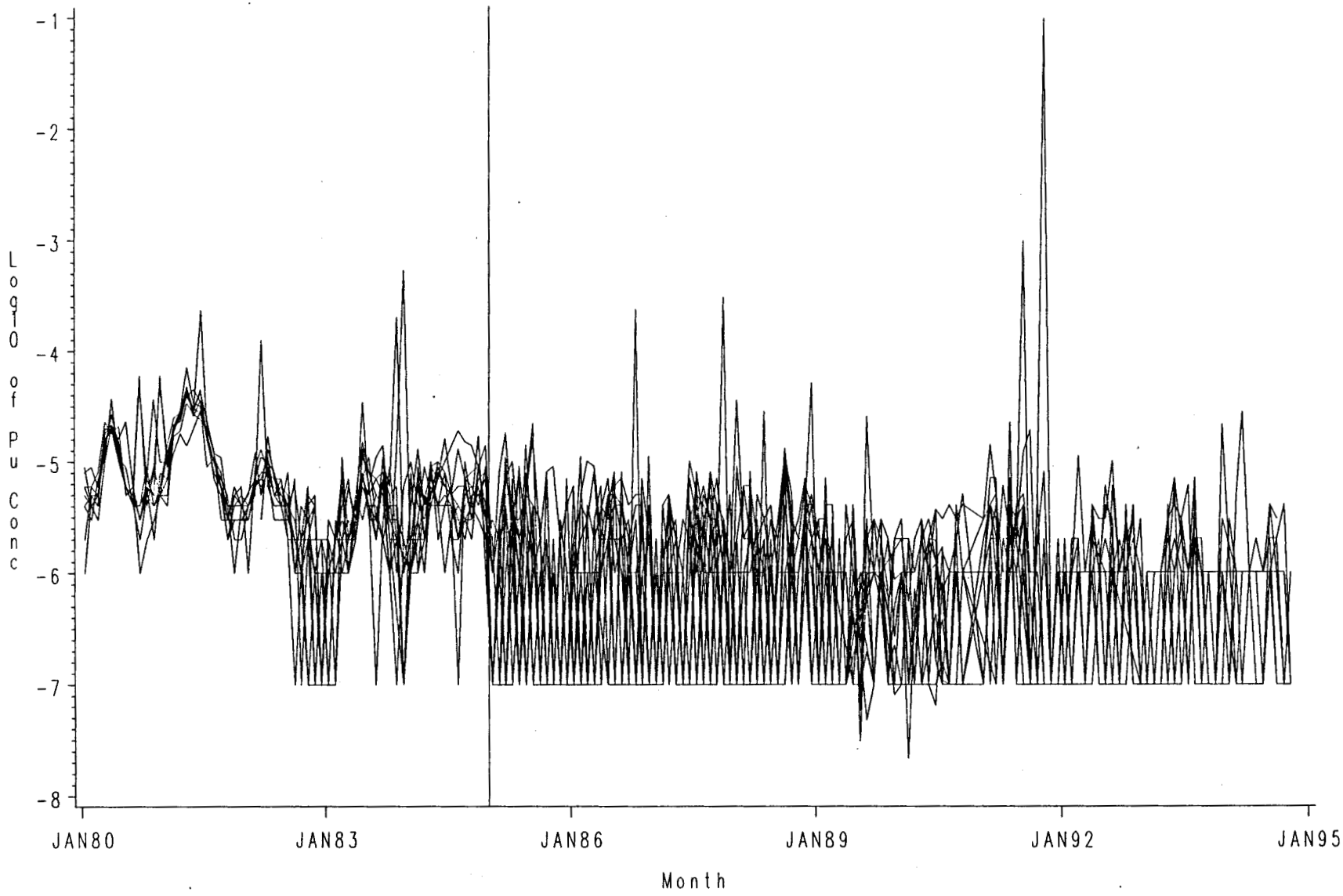
Onsite Air Sampler Results Jan80 – Dec94



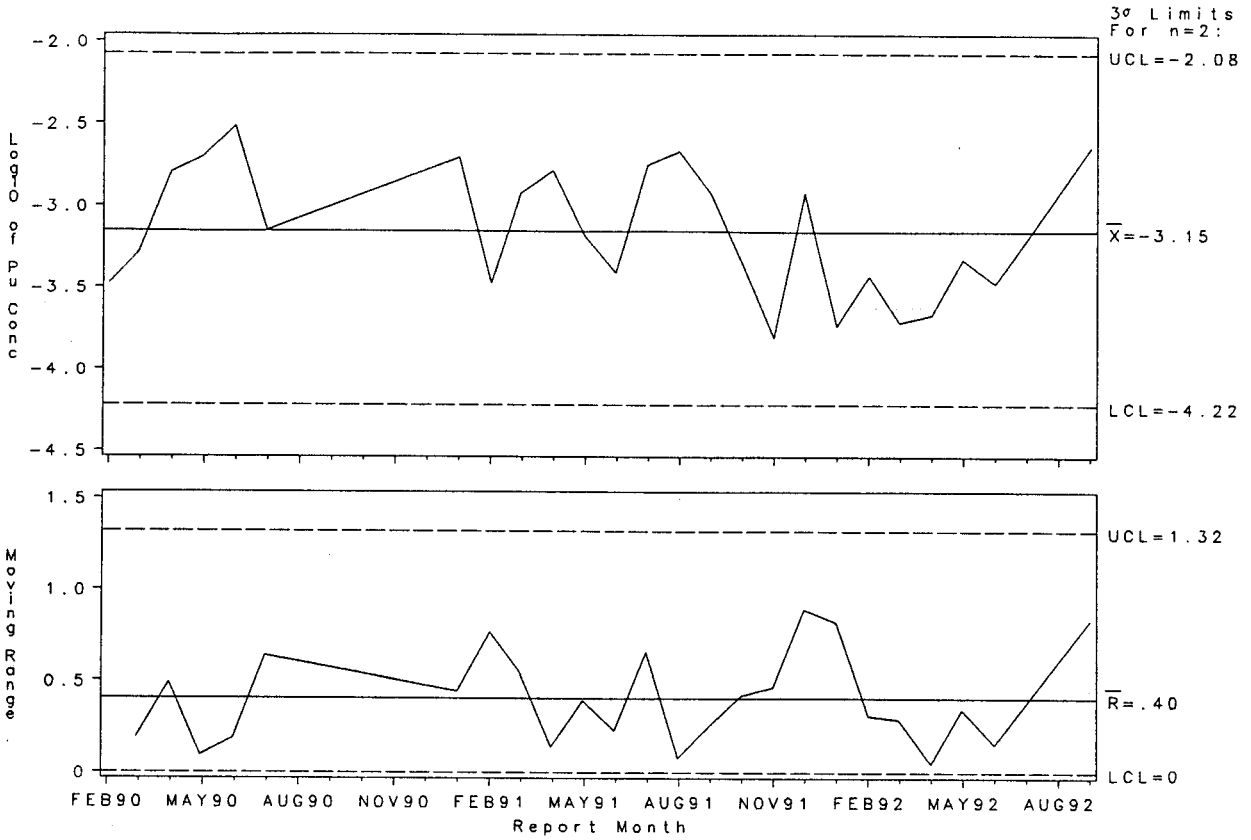
Perimeter Air Sampler Results Jan80 – Dec94



Community Air Sampler Results Jan80 – Dec94



Air Sampler S-01 Results Feb90-Sep92

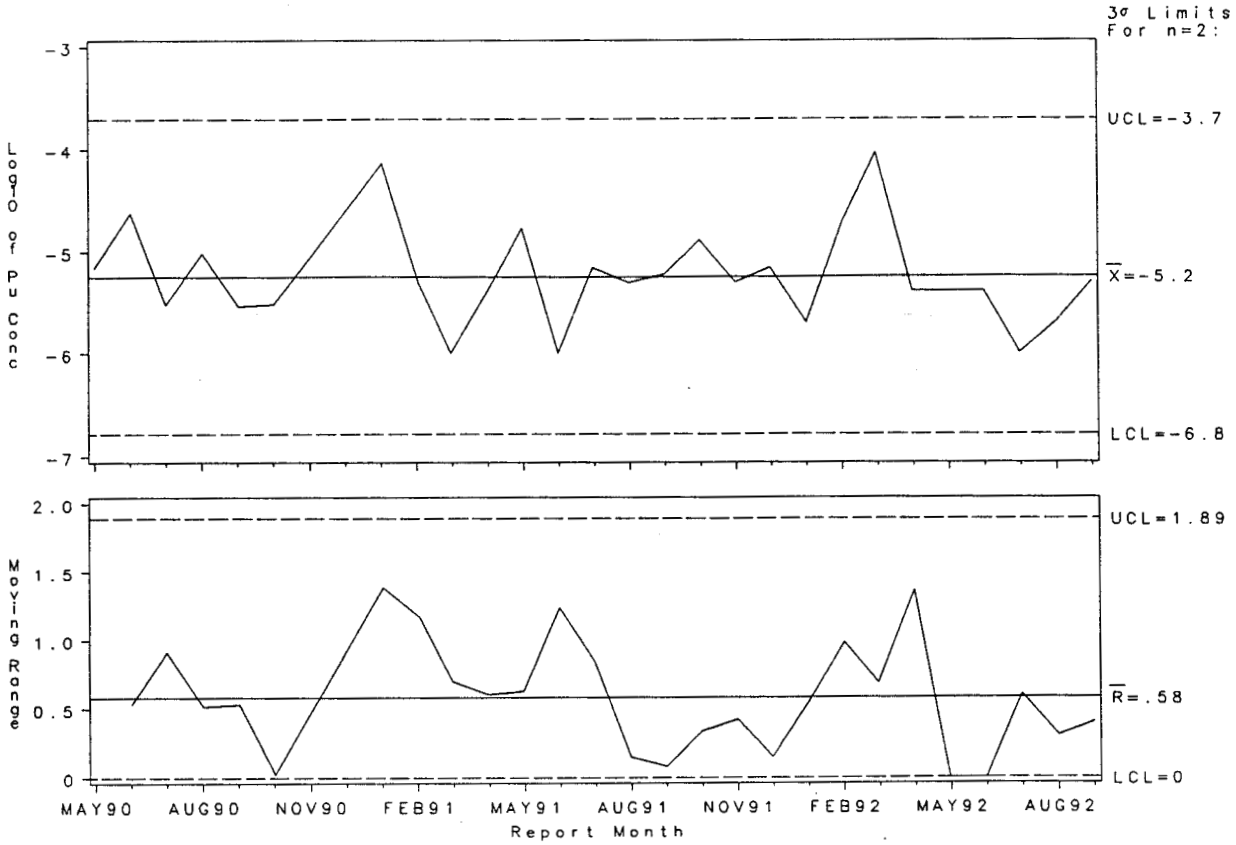


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	6	0.001365	0.001051	0.000333	0.001151	0.003057
1991	12	0.001092	0.000687	0.000156	0.001191	0.002138
1992	7	0.000578	0.000757	0.000183	0.000335	0.002277

Air Sampler S-02 Results May90-Sep92

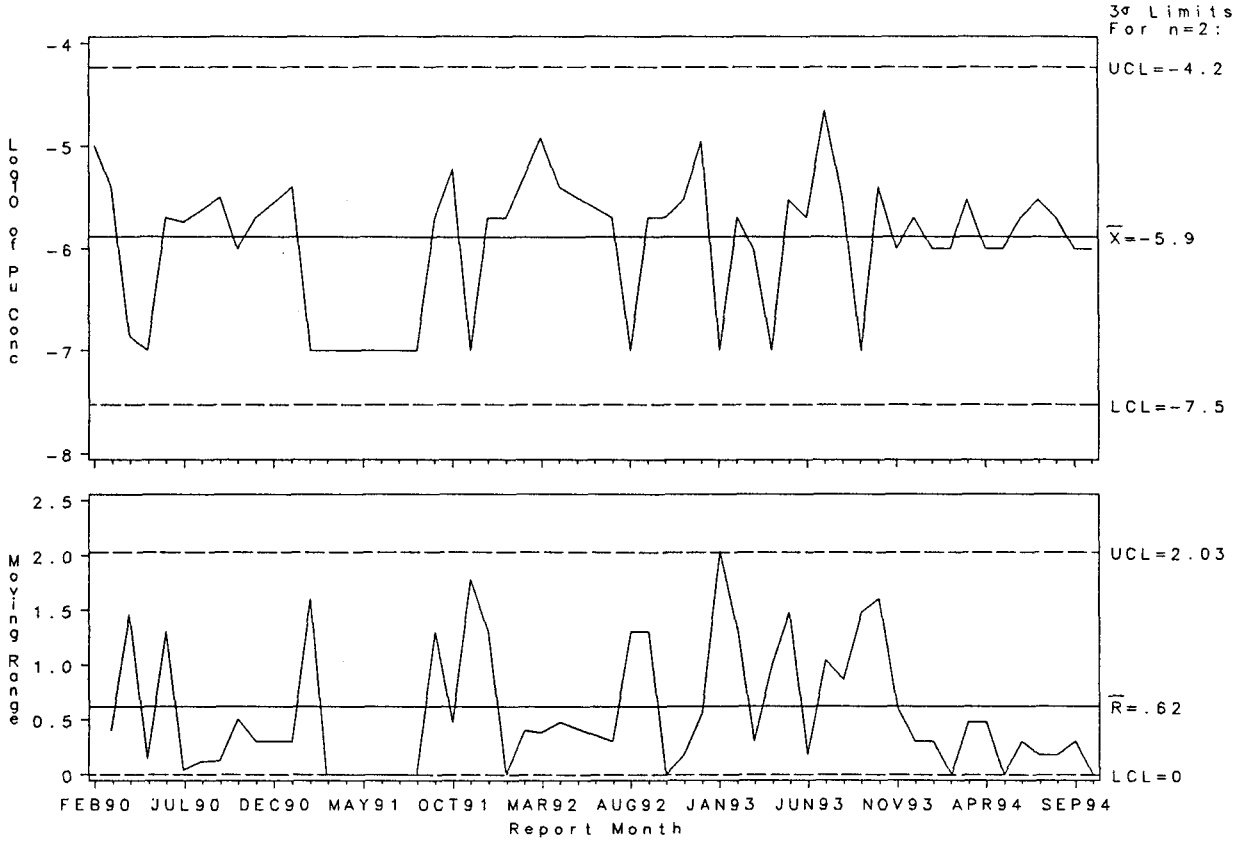


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	6	0.000008	0.000008	0.000003	0.000005	0.000024
1991	12	0.000012	0.000020	0.000001	0.000006	0.000073
1992	9	0.000015	0.000029	0.000001	0.000004	0.000092

Air Sampler S-03 Results Feb90-Oct94

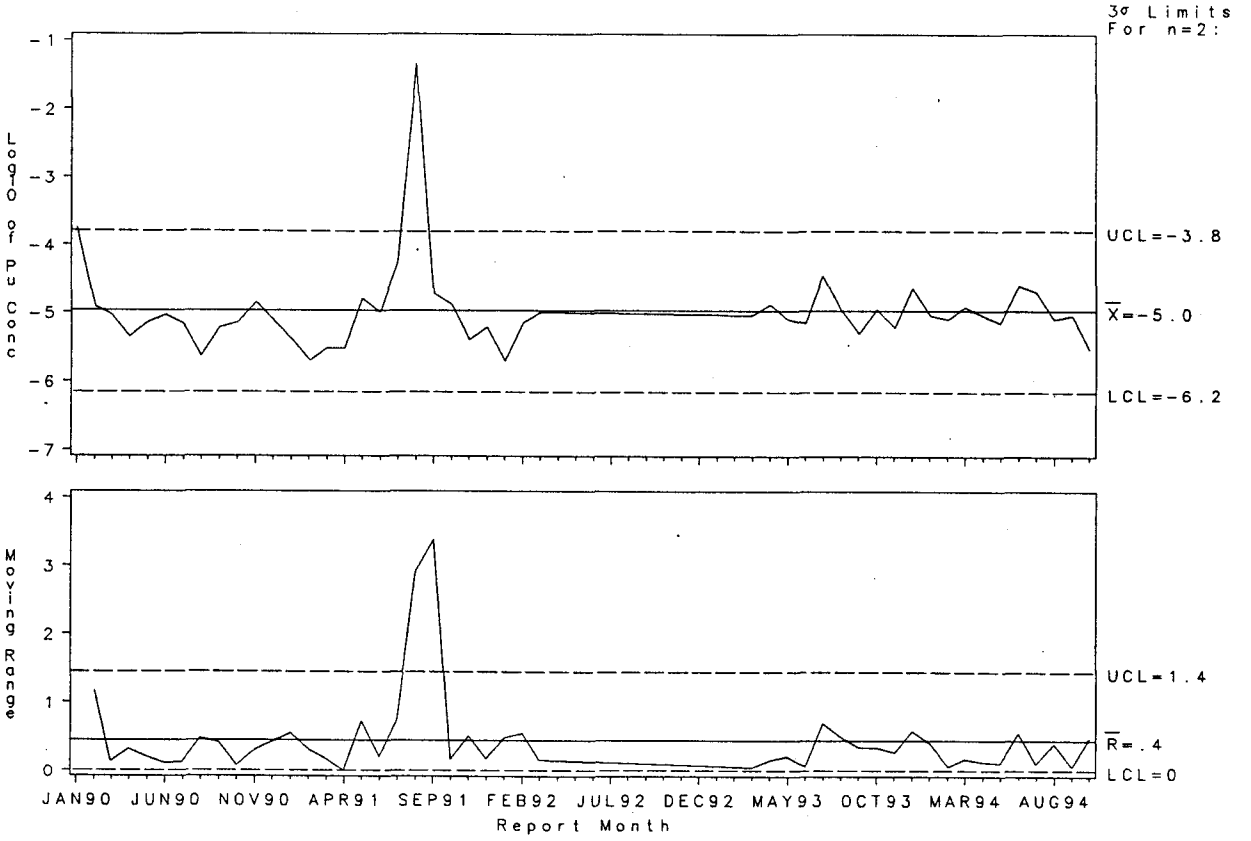


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	10	0.000003	0.000003	0.000000	0.000002	0.000010
1991	8	0.000002	0.000003	-.000001	0.000001	0.000006
1992	10	0.000004	0.000004	0.000000	0.000003	0.000012
1993	12	0.000003	0.000006	0.000000	0.000002	0.000022
1994	10	0.000002	0.000001	0.000001	0.000001	0.000003

Air Sampler S-04 Results Jan90-Oct94

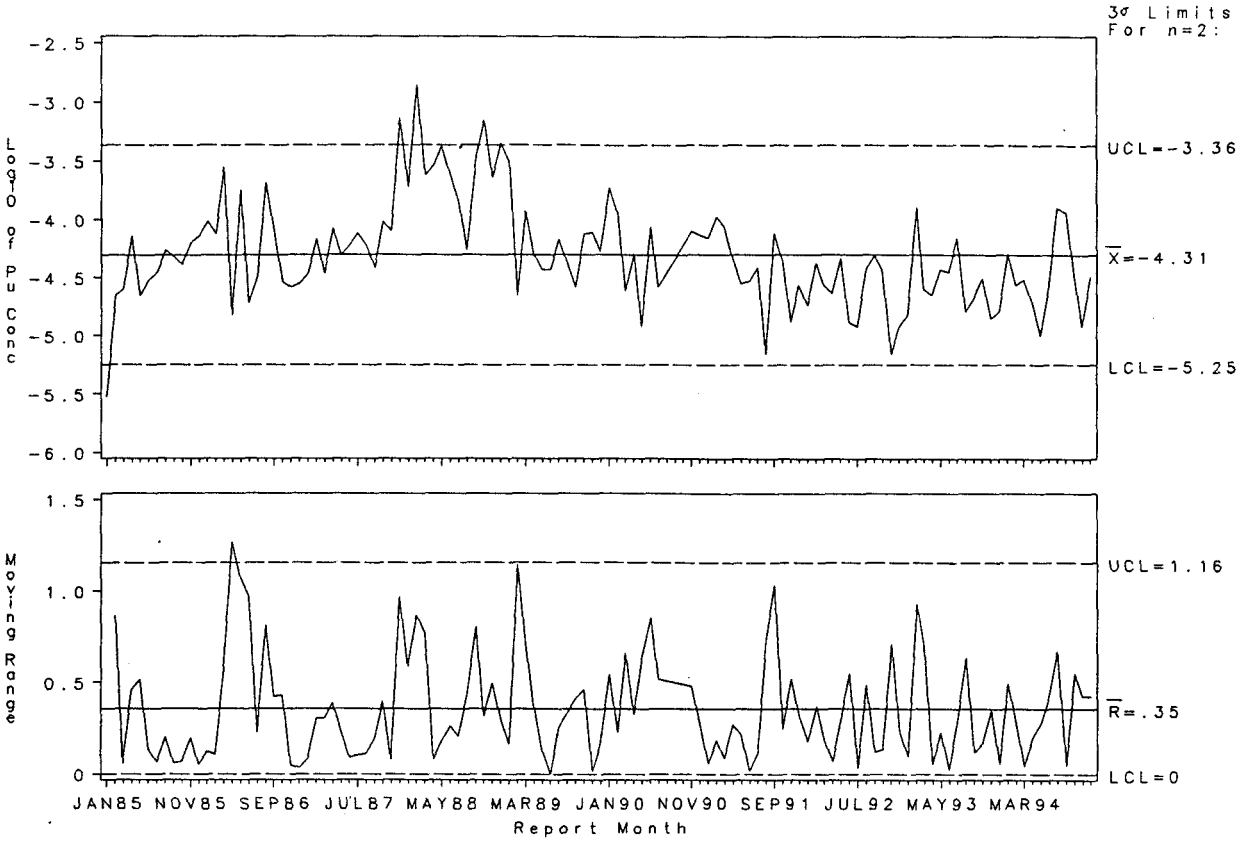


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000023	0.000052	0.000002	0.000007	0.000179
1991	12	0.003735	0.012896	0.000002	0.000008	0.044685
1992	3	0.000006	0.000004	0.000002	0.000007	0.000010
1993	10	0.000013	0.000009	0.000005	0.000010	0.000035
1994	10	0.000011	0.000007	0.000003	0.000009	0.000025

Air Sampler S-05 Results Jan85-Nov94

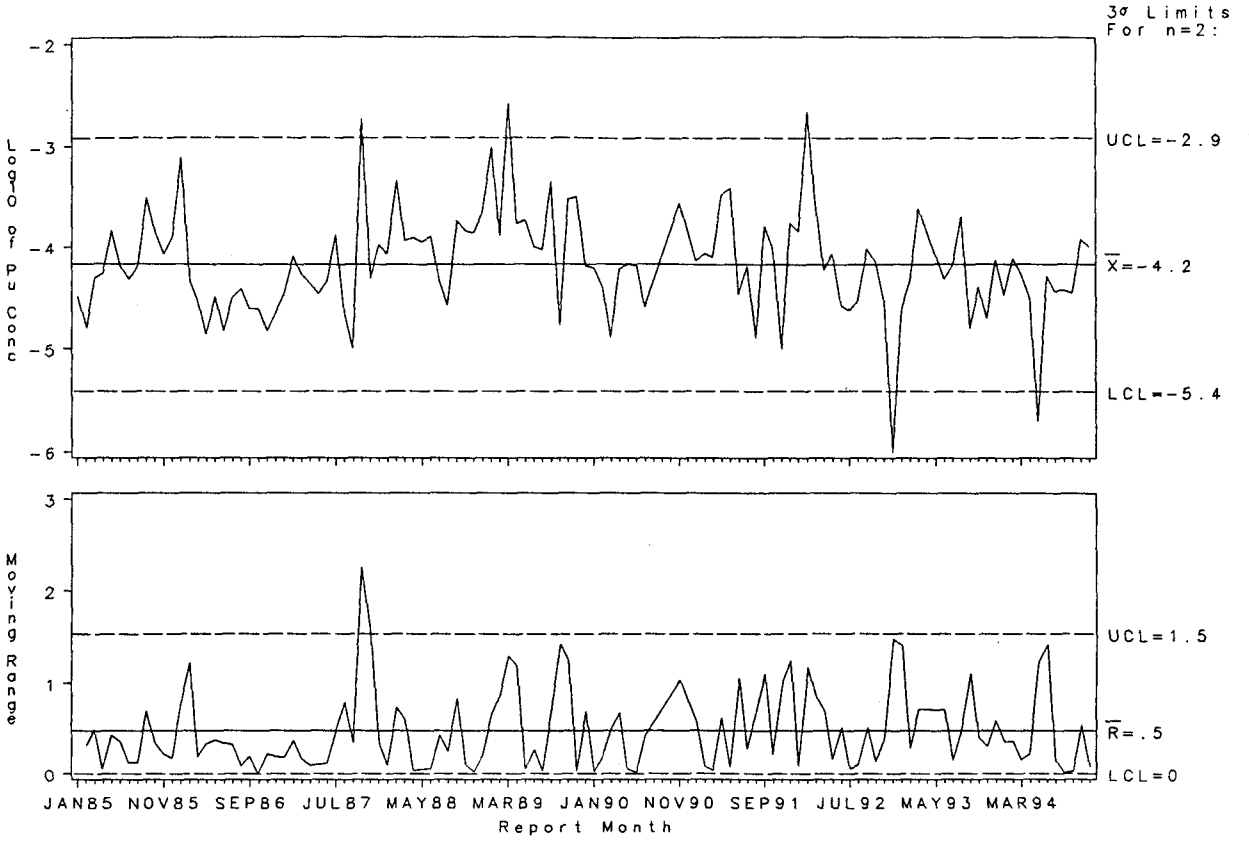


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000041	0.000022	0.000003	0.000038	0.000072
1986	12	0.000088	0.000086	0.000015	0.000054	0.000278
1987	12	0.000117	0.000194	0.000034	0.000064	0.000729
1988	12	0.000389	0.000357	0.000054	0.000260	0.001389
1989	11	0.000079	0.000080	0.000022	0.000053	0.000307
1990	8	0.000072	0.000057	0.000012	0.000065	0.000185
1991	12	0.000047	0.000030	0.000007	0.000041	0.000105
1992	12	0.000027	0.000015	0.000007	0.000025	0.000049
1993	12	0.000036	0.000033	0.000014	0.000024	0.000127
1994	11	0.000044	0.000040	0.000010	0.000030	0.000127

Air Sampler S-06 Results Jan85-Nov94

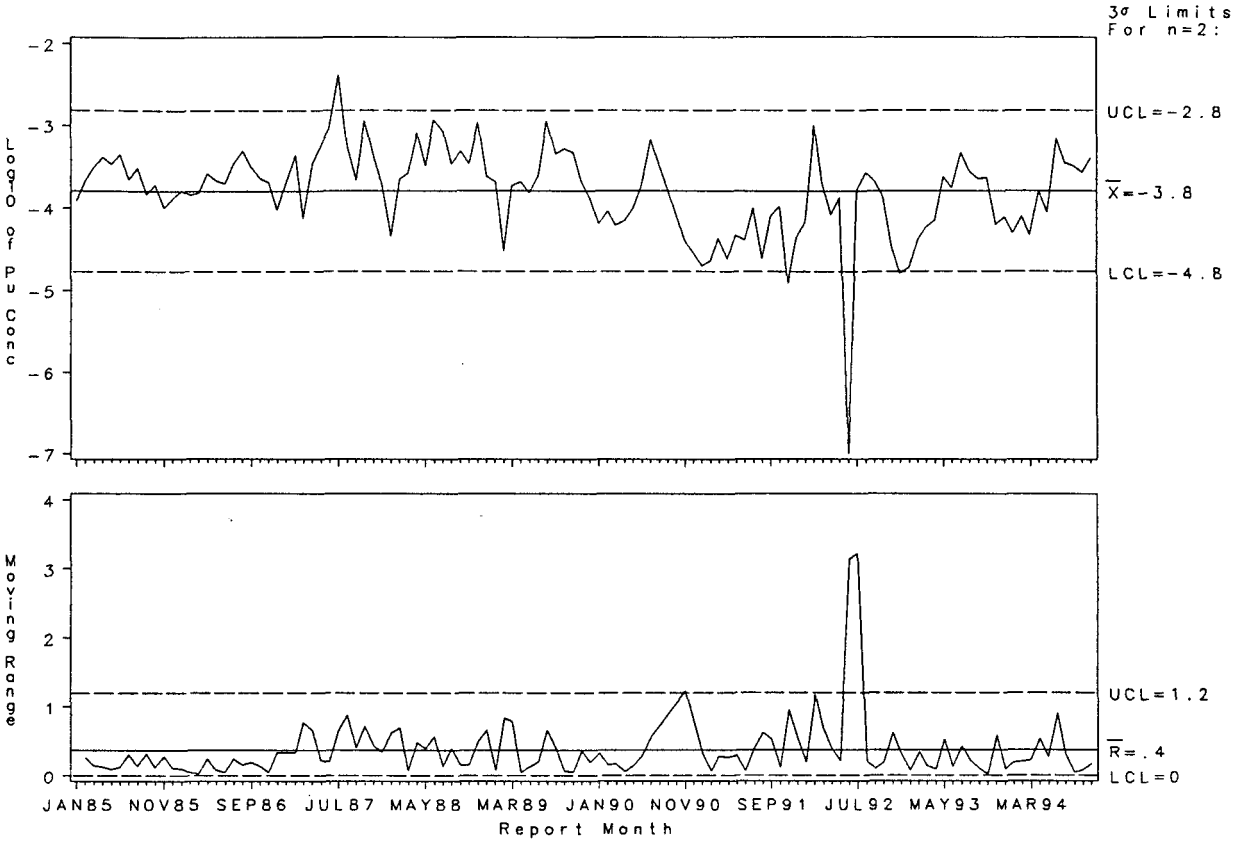


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000095	0.000080	0.000016	0.000064	0.000310
1986	12	0.000088	0.000211	0.000014	0.000028	0.000757
1987	12	0.000203	0.000509	0.000010	0.000048	0.001815
1988	12	0.000149	0.000111	0.000027	0.000127	0.000460
1989	12	0.000450	0.000727	0.000017	0.000177	0.002610
1990	8	0.000076	0.000083	0.000013	0.000061	0.000274
1991	12	0.000127	0.000121	0.000010	0.000085	0.000391
1992	12	0.000249	0.000596	0.000001	0.000066	0.002126
1993	10	0.000078	0.000078	0.000016	0.000048	0.000241
1994	11	0.000053	0.000034	0.000002	0.000038	0.000121

Air Sampler S-07 Results Jan85-Oct94

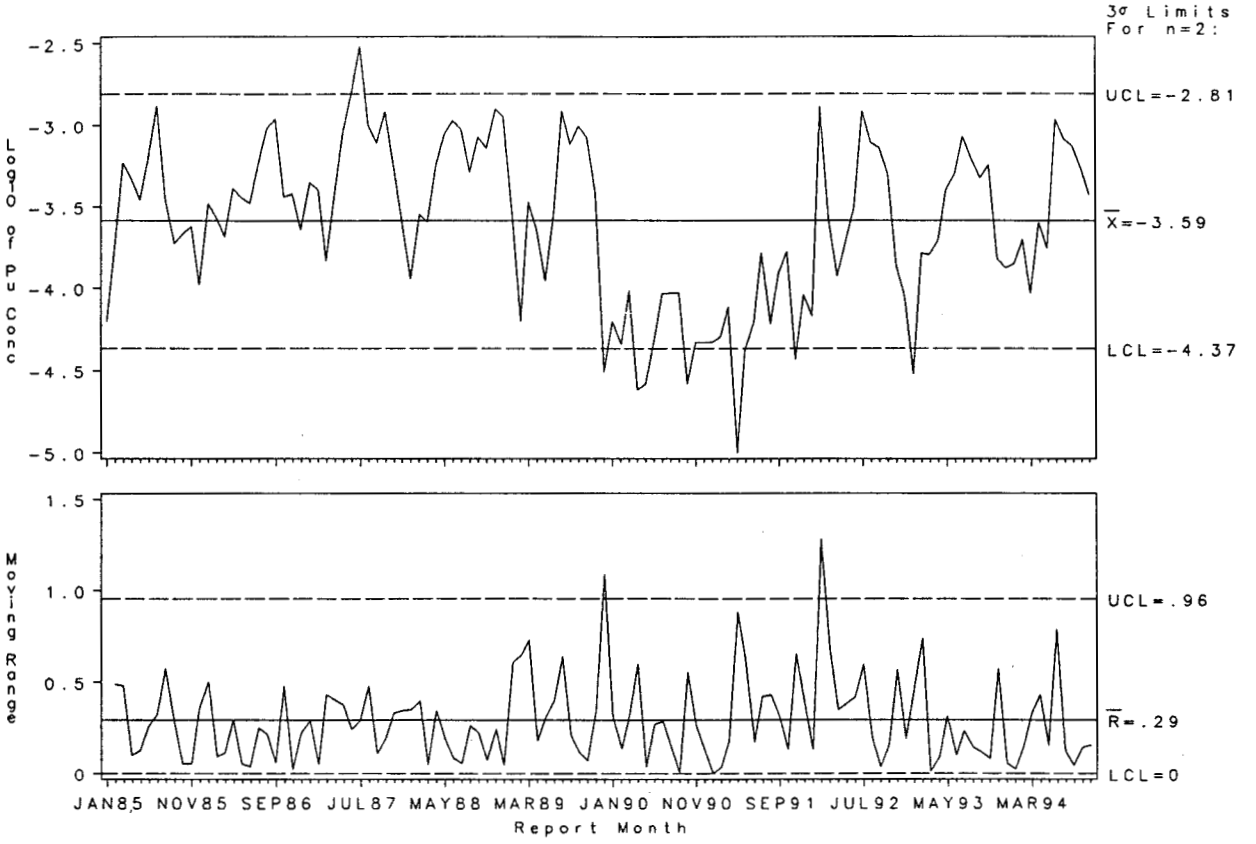


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000245	0.000116	0.000101	0.000221	0.000445
1986	12	0.000236	0.000109	0.000096	0.000212	0.000496
1987	12	0.000770	0.001114	0.000075	0.000428	0.004170
1988	12	0.000515	0.000369	0.000045	0.000340	0.001171
1989	12	0.000328	0.000291	0.000030	0.000206	0.001119
1990	8	0.000160	0.000211	0.000040	0.000080	0.000670
1991	12	0.000047	0.000031	0.000012	0.000042	0.000105
1992	12	0.000194	0.000268	0.000000	0.000137	0.001002
1993	12	0.000163	0.000133	0.000019	0.000127	0.000469
1994	10	0.000246	0.000207	0.000047	0.000215	0.000698

Air Sampler S-08 Results Jan85-Oct94

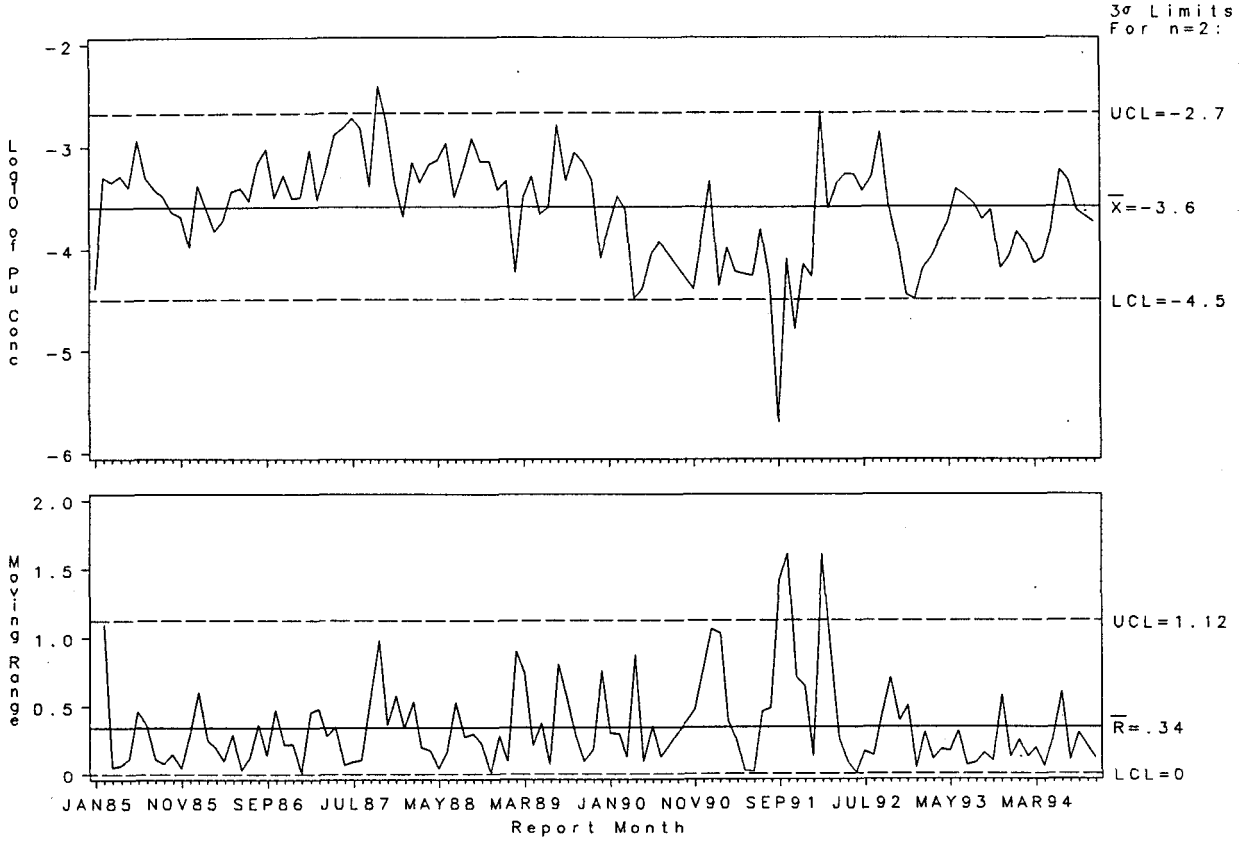


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000390	0.000339	0.000063	0.000293	0.001306
1986	12	0.000458	0.000281	0.000207	0.000362	0.001087
1987	12	0.000885	0.000789	0.000148	0.000669	0.003018
1988	12	0.000710	0.000366	0.000114	0.000780	0.001246
1989	12	0.000457	0.000389	0.000031	0.000308	0.001211
1990	10	0.000056	0.000029	0.000024	0.000048	0.000096
1991	12	0.000078	0.000050	0.000010	0.000062	0.000167
1992	11	0.000499	0.000446	0.000068	0.000308	0.001290
1993	12	0.000353	0.000250	0.000030	0.000299	0.000849
1994	10	0.000441	0.000339	0.000093	0.000313	0.001083

Air Sampler S-09 Results Jan85-Oct94

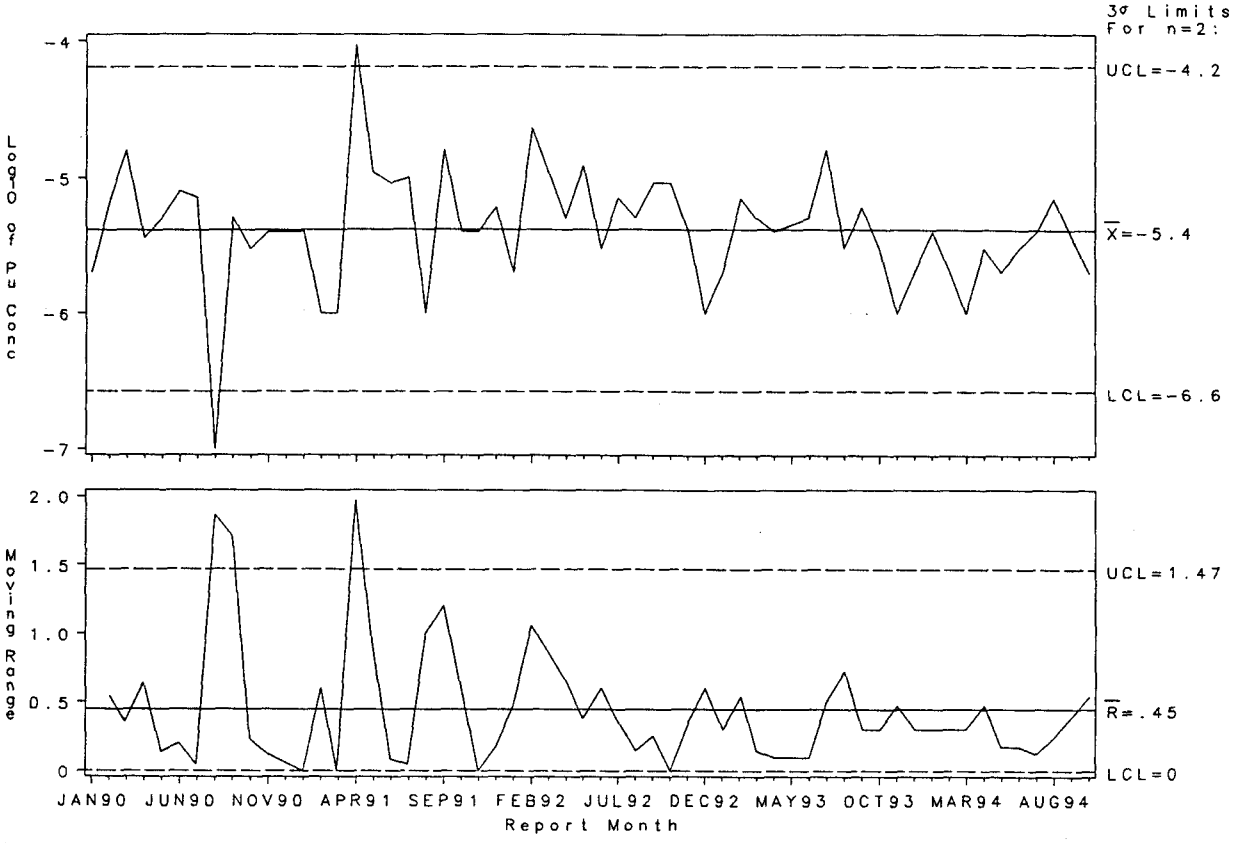


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000406	0.000289	0.000041	0.000397	0.001169
1986	12	0.000405	0.000224	0.000152	0.000344	0.000946
1987	12	0.001222	0.001012	0.000302	0.001102	0.003878
1988	12	0.000641	0.000286	0.000205	0.000682	0.001179
1989	12	0.000500	0.000420	0.000058	0.000460	0.001602
1990	8	0.000132	0.000106	0.000033	0.000105	0.000325
1991	12	0.000097	0.000122	0.000002	0.000059	0.000461
1992	12	0.000551	0.000615	0.000035	0.000404	0.002149
1993	12	0.000171	0.000115	0.000032	0.000155	0.000381
1994	9	0.000226	0.000181	0.000072	0.000147	0.000590

Air Sampler S-10 Results Jan90-Oct94

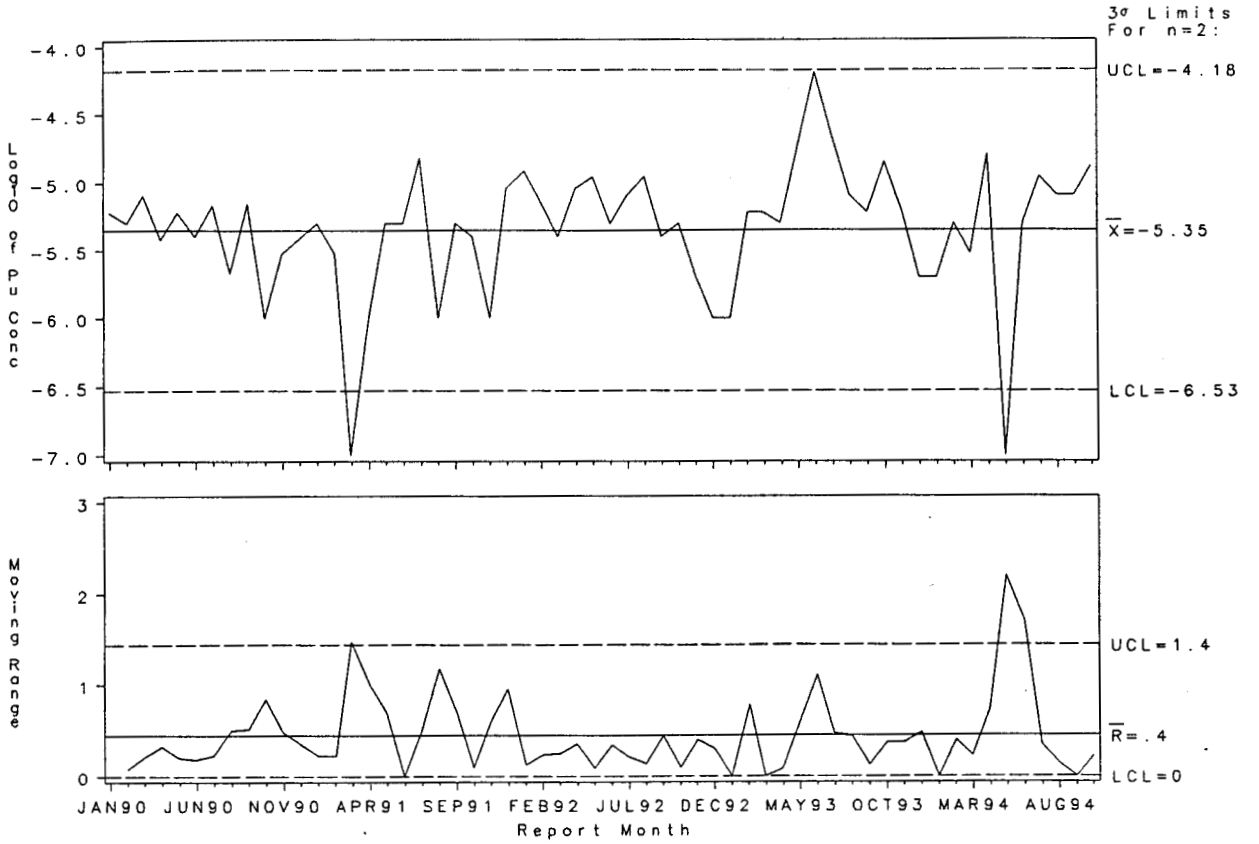


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000005	0.000004	-.000001	0.000005	0.000016
1991	12	0.000013	0.000025	0.000001	0.000005	0.000092
1992	11	0.000007	0.000006	0.000001	0.000005	0.000023
1993	11	0.000005	0.000004	0.000001	0.000004	0.000016
1994	9	0.000003	0.000002	0.000001	0.000003	0.000007

Air Sampler S-11 Results Jan90-Oct94

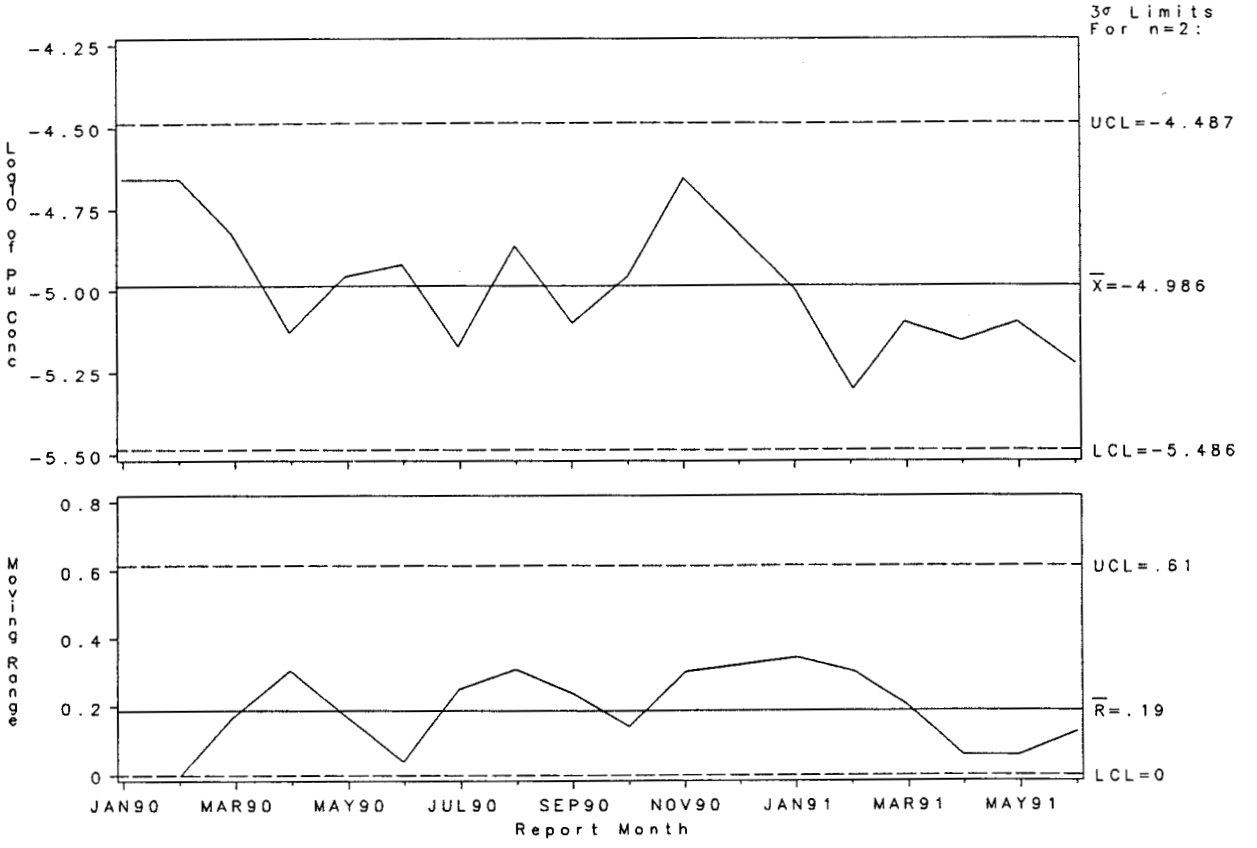


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000005	0.000002	0.000001	0.000005	0.000008
1991	12	0.000005	0.000004	0.000000	0.000005	0.000015
1992	12	0.000007	0.000004	0.000001	0.000006	0.000012
1993	11	0.000013	0.000018	0.000001	0.000006	0.000064
1994	10	0.000007	0.000005	0.000000	0.000007	0.000016

Air Sampler S-12 Results Jan90-Jun91

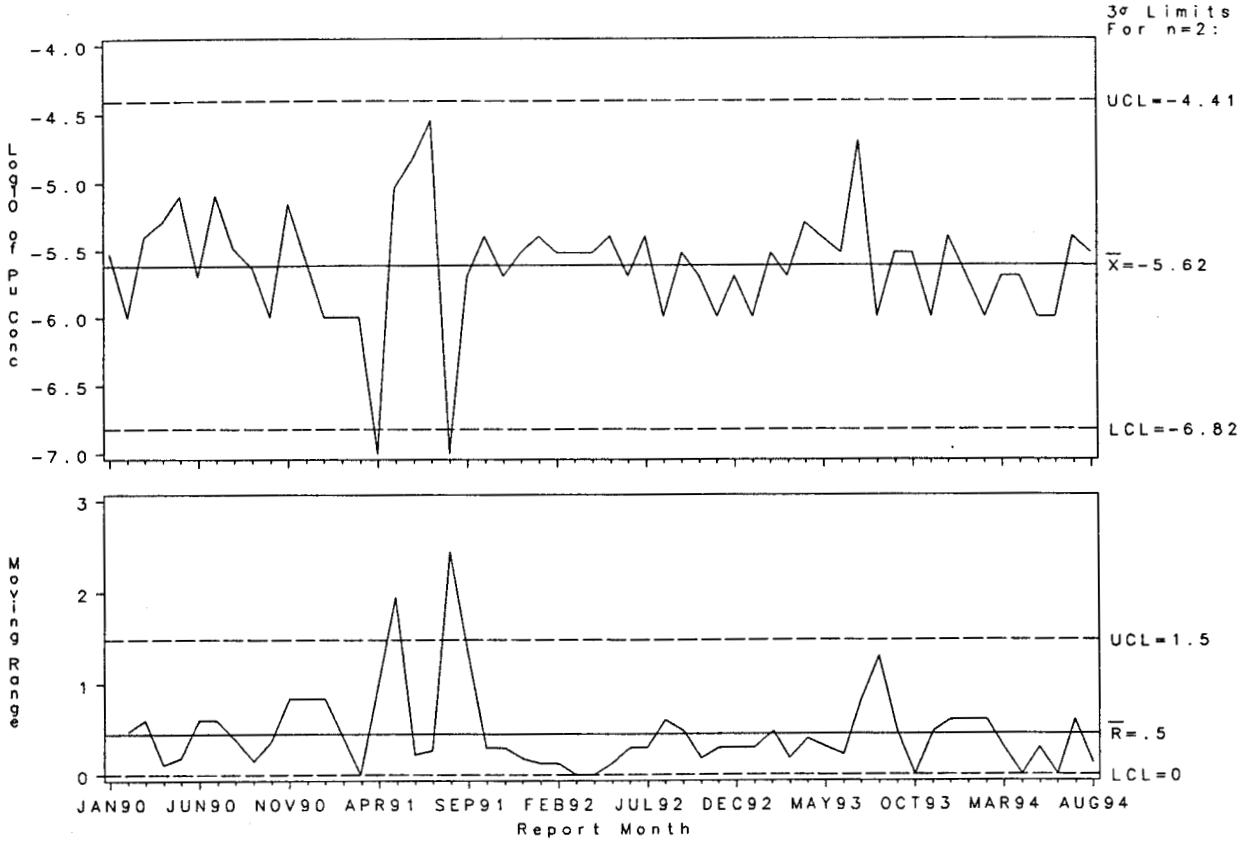


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000014	0.000006	0.000007	0.000012	0.000022
1991	6	0.000007	0.000002	0.000005	0.000008	0.000010

Air Sampler S-13 Results Jan90-Aug94

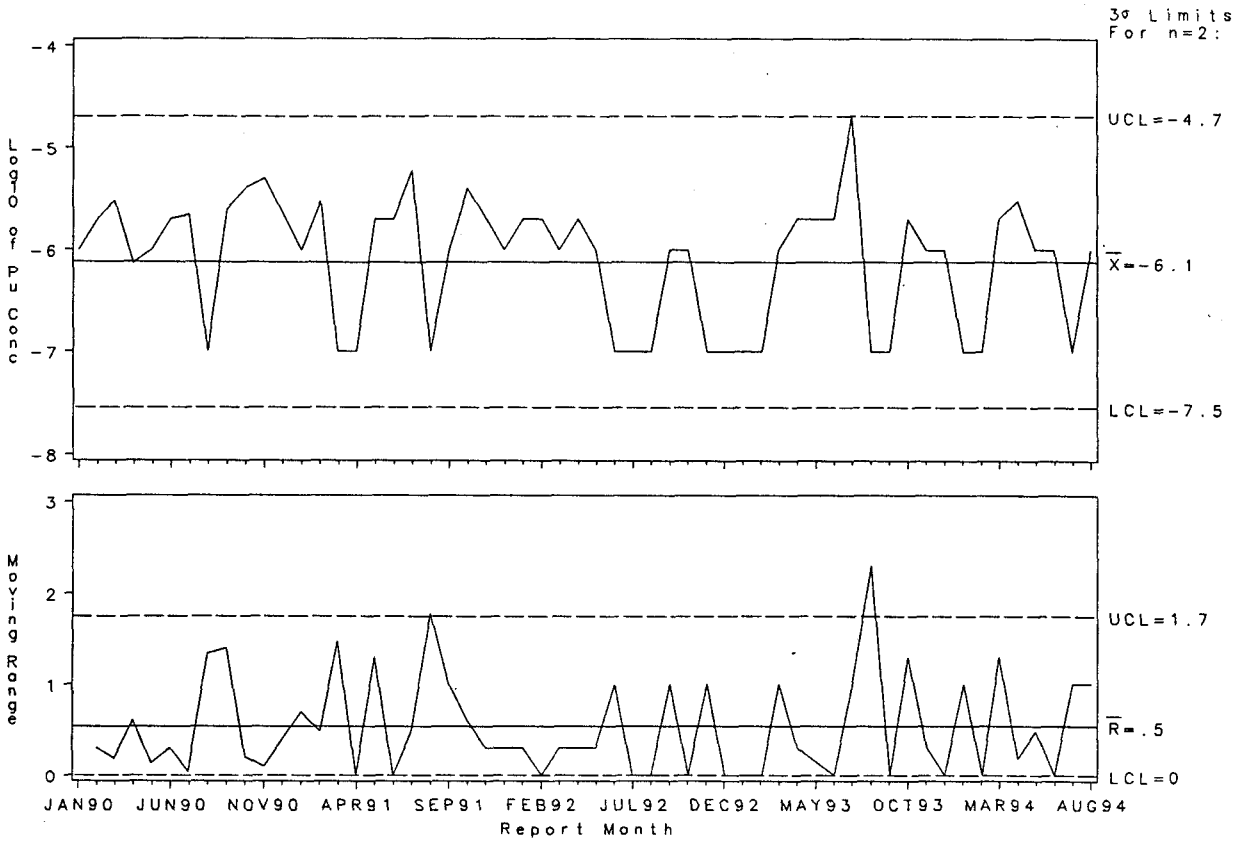


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000004	0.000003	0.000001	0.000003	0.000008
1991	11	0.000006	0.000009	-.000002	0.000002	0.000028
1992	12	0.000003	0.000001	0.000001	0.000003	0.000004
1993	11	0.000004	0.000005	0.000001	0.000003	0.000020
1994	7	0.000002	0.000001	0.000001	0.000002	0.000004

Air Sampler S-14 Results Jan90-Aug94

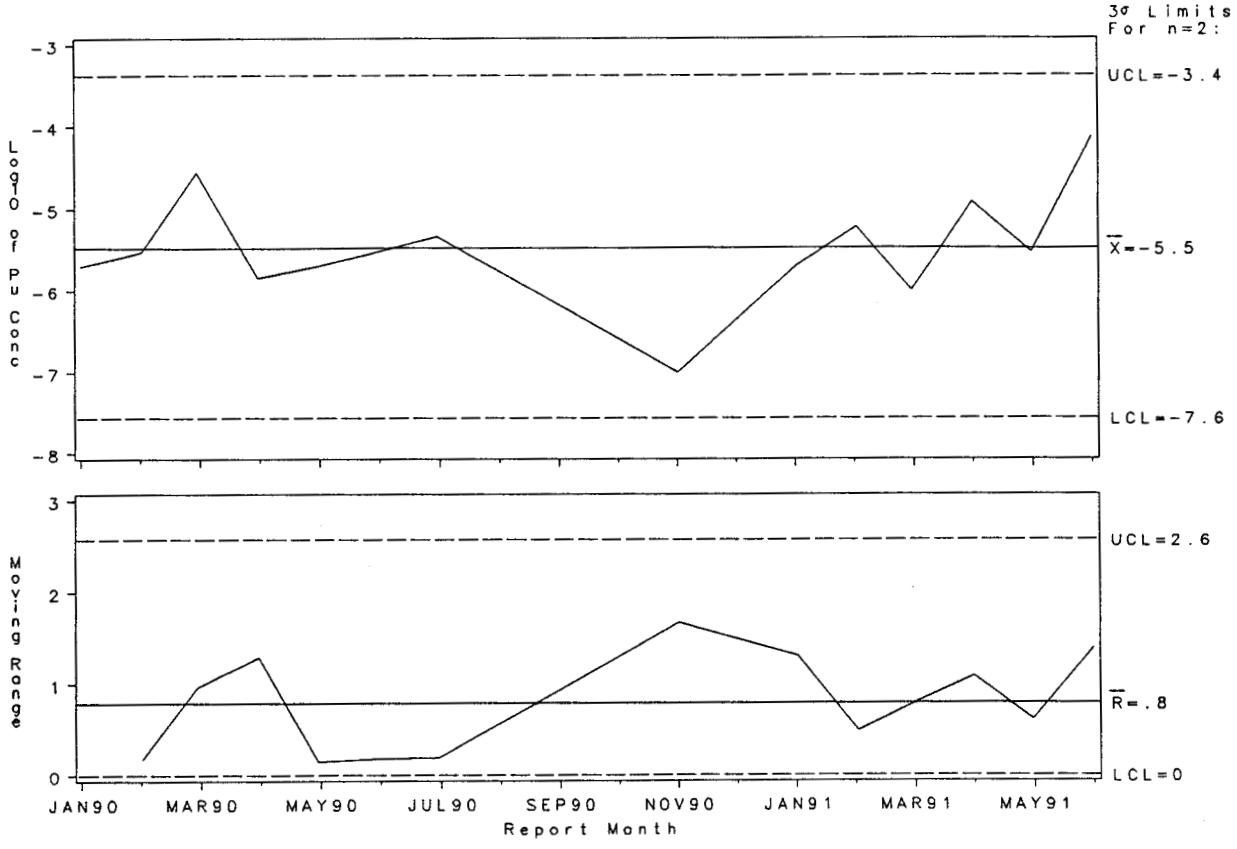


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000002	0.000002	-.000002	0.000002	0.000005
1991	12	0.000001	0.000003	-.000004	0.000002	0.000006
1992	12	0.000001	0.000001	0.000000	0.000001	0.000002
1993	11	0.000003	0.000006	0.000000	0.000001	0.000020
1994	8	0.000001	0.000001	0.000000	0.000001	0.000003

Air Sampler S-15 Results Jan90-Jun91

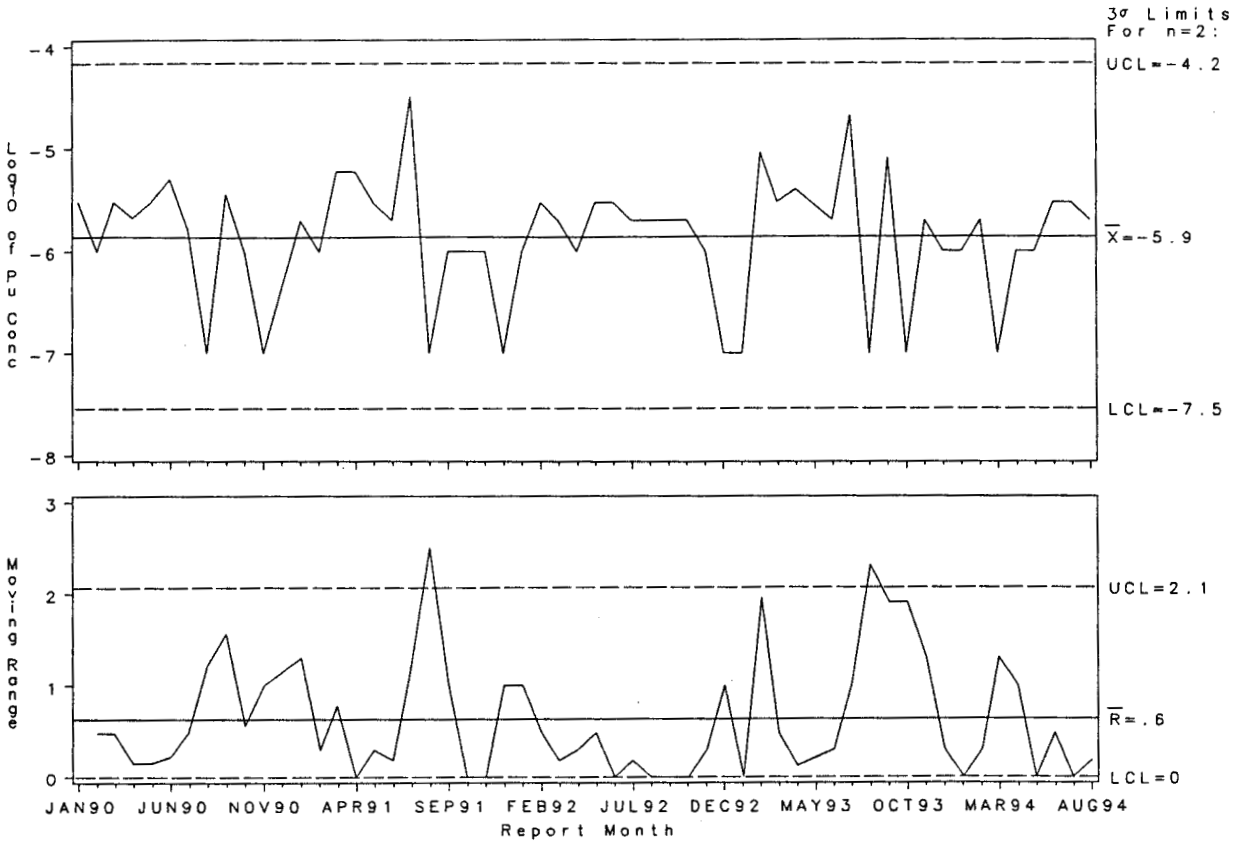


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	8	0.000006	0.000009	0.000000	0.000003	0.000028
1991	6	0.000016	0.000028	0.000001	0.000005	0.000073

Air Sampler S-16 Results Jan90-Aug94

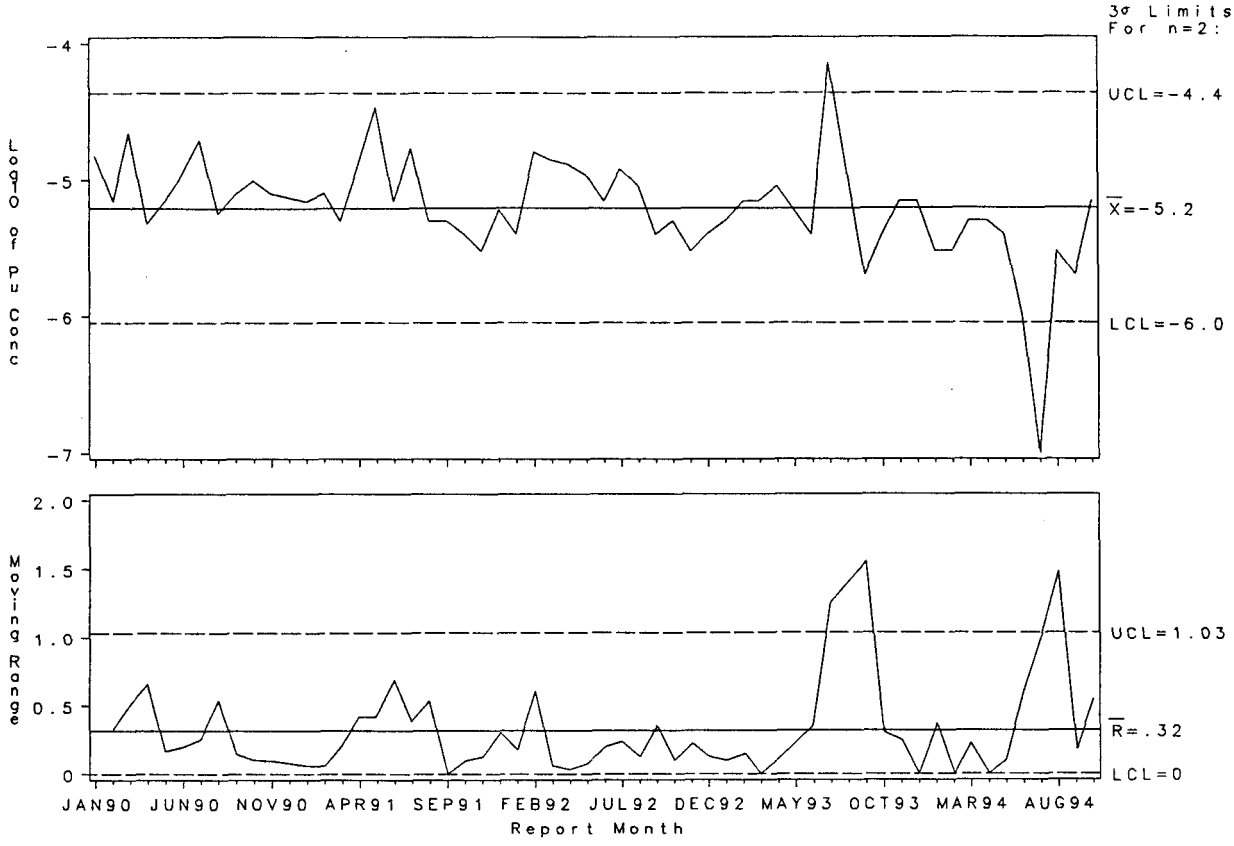


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000002	0.000002	-.000002	0.000002	0.000005
1991	12	0.000005	0.000009	0.000000	0.000002	0.000032
1992	12	0.000002	0.000001	-.000001	0.000002	0.000003
1993	11	0.000004	0.000006	-.000001	0.000002	0.000021
1994	8	0.000002	0.000001	0.000000	0.000002	0.000003

Air Sampler S-17 Results Jan90-Oct94

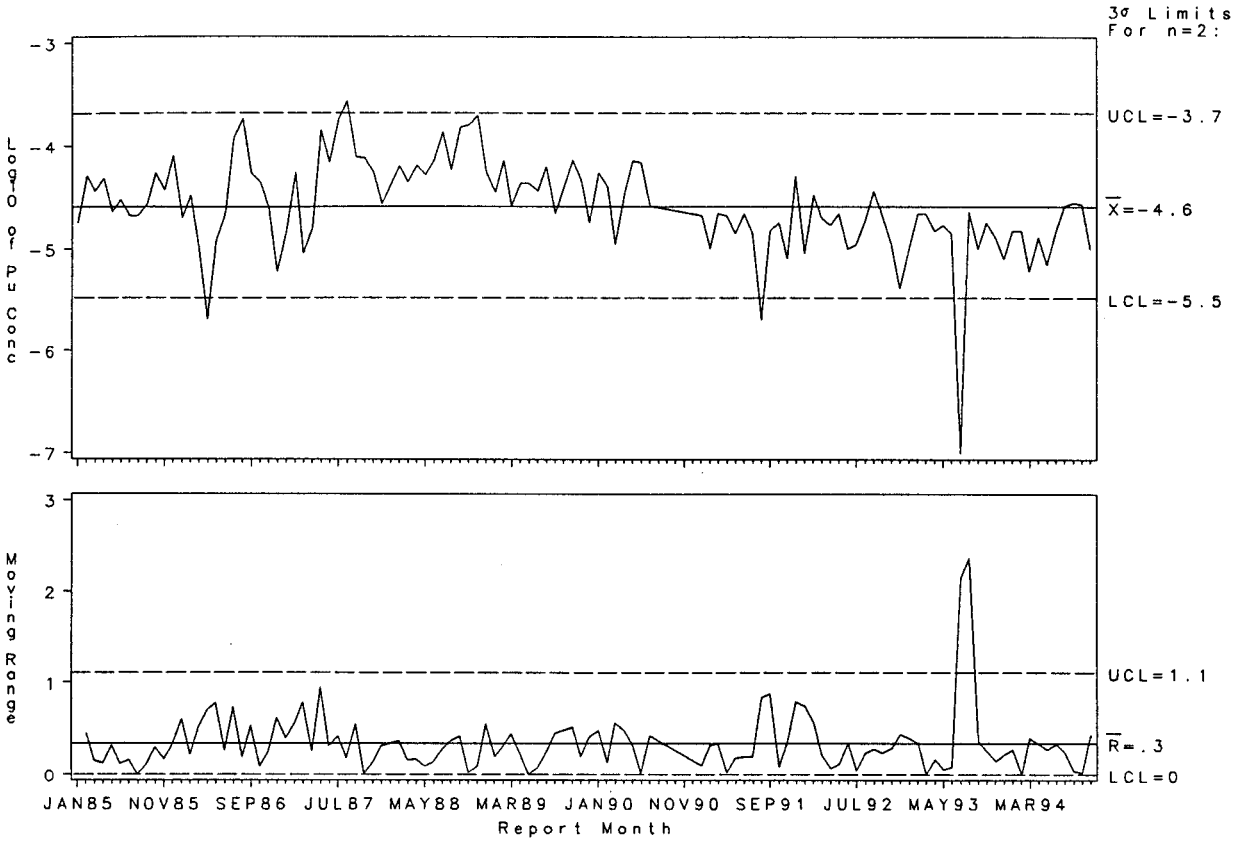


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000011	0.000006	0.000005	0.000008	0.000022
1991	12	0.000010	0.000009	0.000003	0.000007	0.000034
1992	12	0.000009	0.000005	0.000003	0.000008	0.000016
1993	10	0.000012	0.000021	0.000002	0.000007	0.000071
1994	10	0.000003	0.000002	0.000000	0.000003	0.000007

Air Sampler S-18 Results Jan85-Oct94

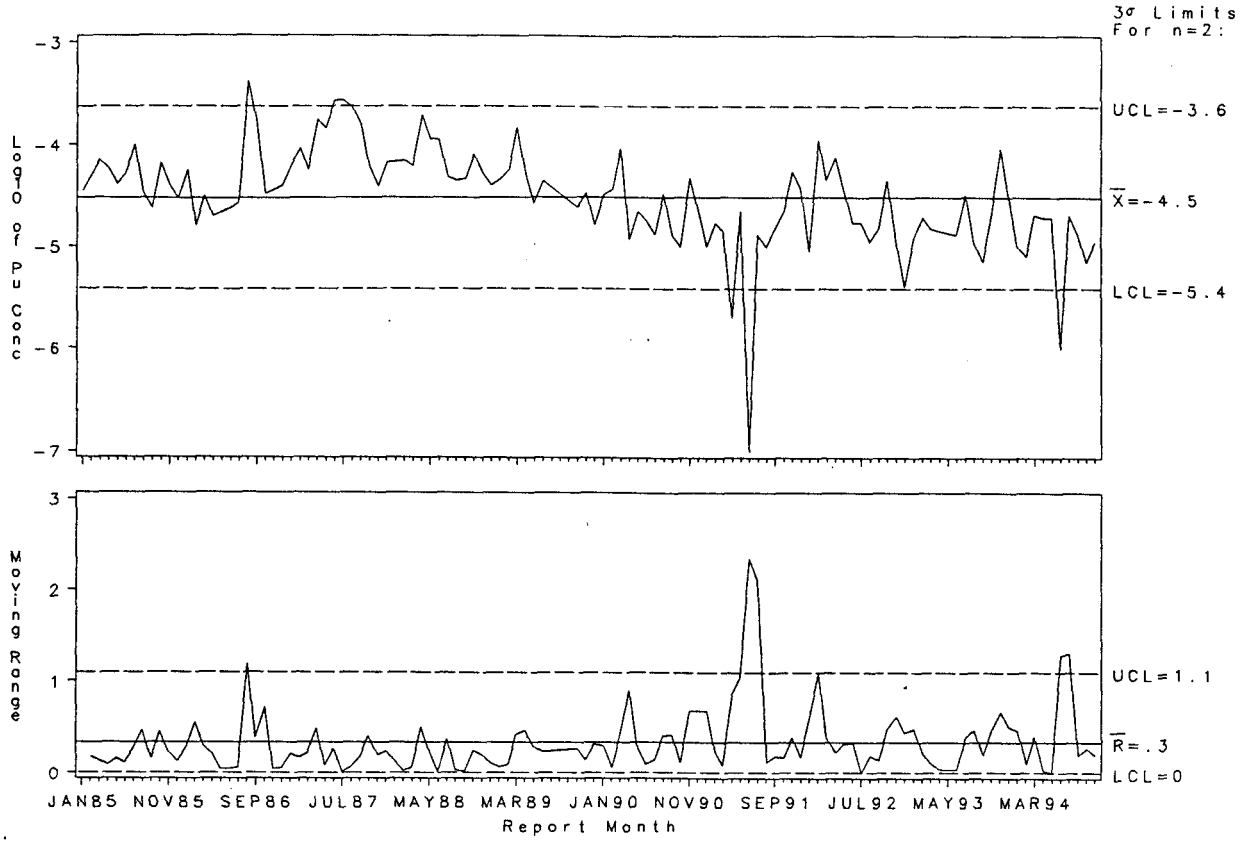


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000037	0.000018	0.000018	0.000033	0.000080
1986	12	0.000044	0.000054	0.000002	0.000024	0.000182
1987	12	0.000083	0.000078	0.000009	0.000062	0.000271
1988	11	0.000095	0.000053	0.000044	0.000064	0.000194
1989	11	0.000043	0.000019	0.000018	0.000043	0.000072
1990	7	0.000043	0.000022	0.000011	0.000040	0.000071
1991	12	0.000018	0.000012	0.000002	0.000017	0.000050
1992	12	0.000018	0.000010	0.000004	0.000018	0.000036
1993	12	0.000014	0.000007	0.000000	0.000015	0.000023
1994	10	0.000016	0.000008	0.000006	0.000015	0.000028

Air Sampler S-19 Results Jan85-Oct94

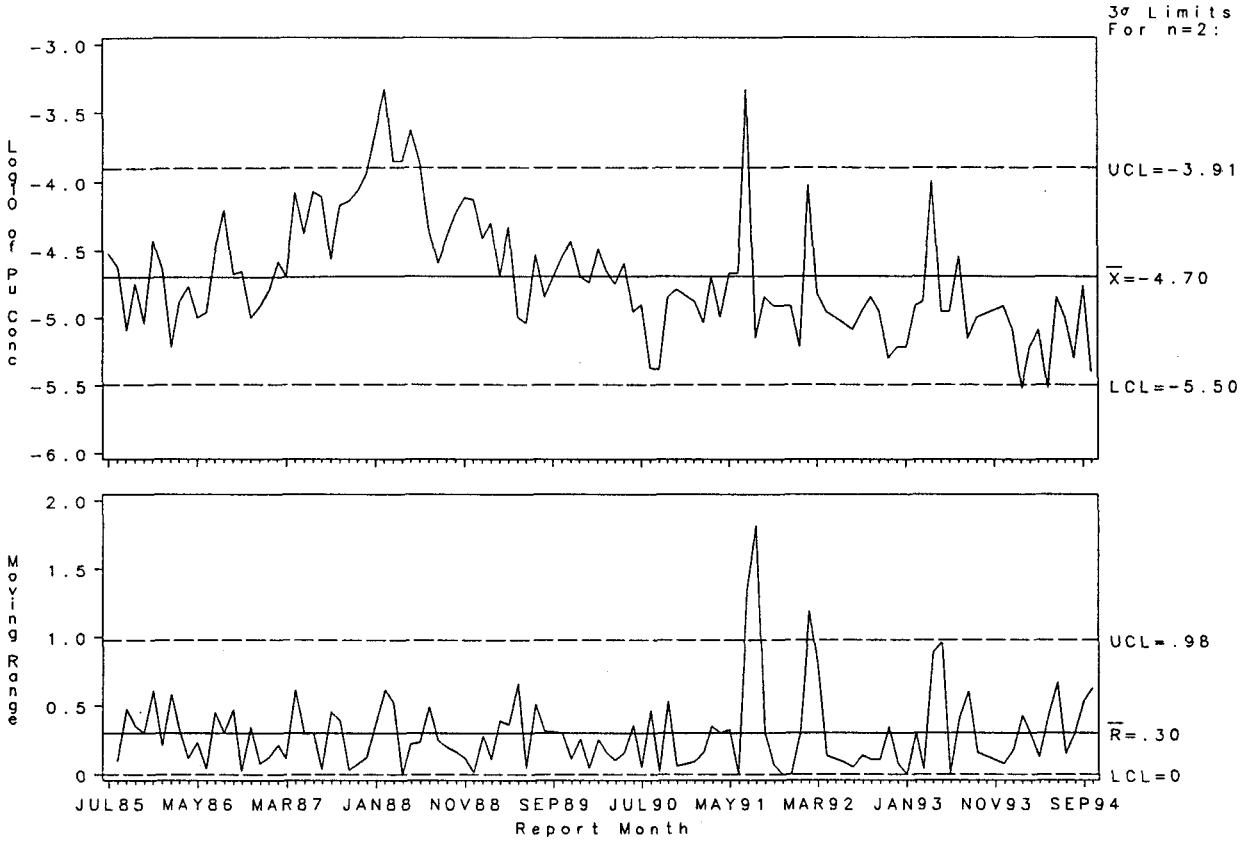


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000050	0.000021	0.000024	0.000047	0.000099
1986	12	0.000074	0.000113	0.000016	0.000033	0.000407
1987	12	0.000135	0.000084	0.000039	0.000119	0.000267
1988	11	0.000078	0.000046	0.000040	0.000062	0.000193
1989	9	0.000049	0.000039	0.000016	0.000044	0.000147
1990	11	0.000030	0.000024	0.000010	0.000022	0.000092
1991	12	0.000018	0.000015	0.000000	0.000015	0.000054
1992	12	0.000033	0.000032	0.000004	0.000017	0.000110
1993	11	0.000024	0.000024	0.000007	0.000015	0.000092
1994	10	0.000013	0.000007	0.000001	0.000012	0.000020

Air Sampler S-20 Results Jul85-Oct94

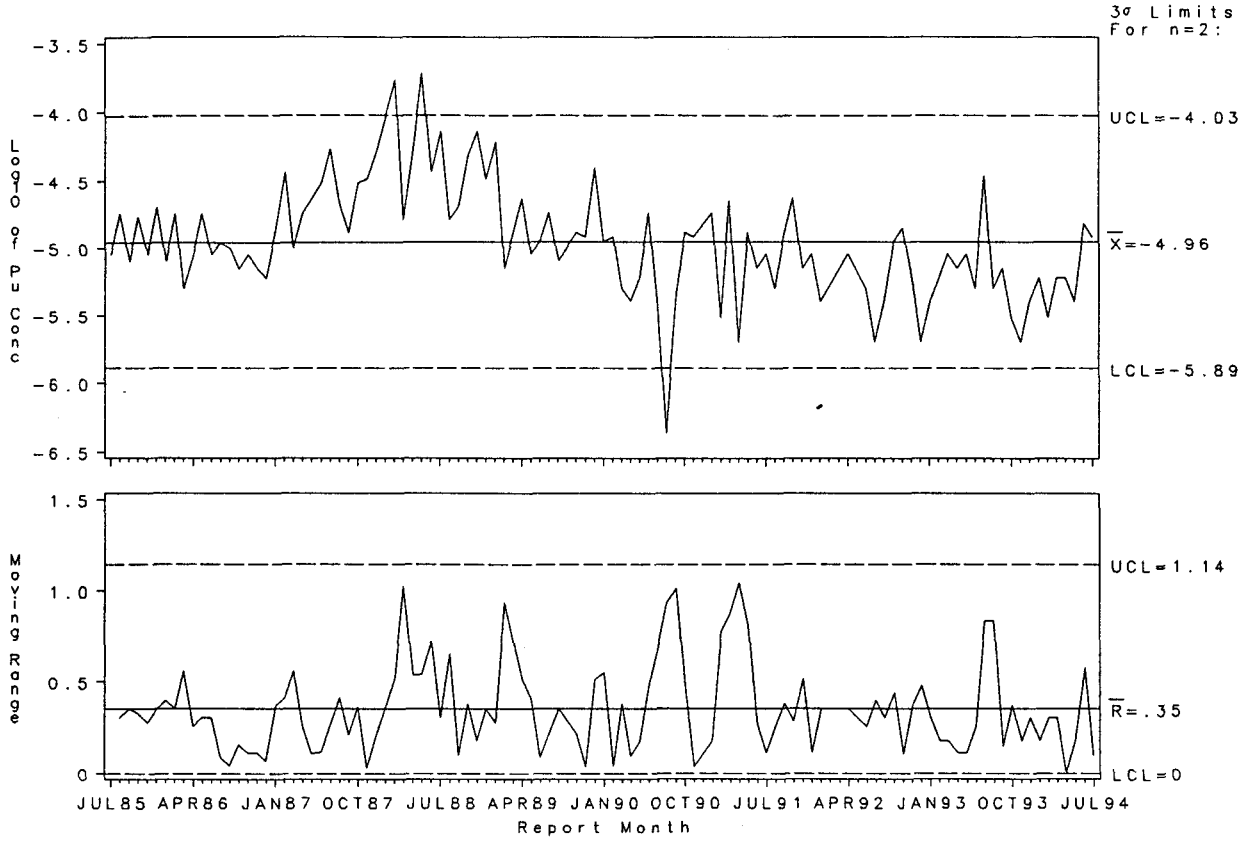


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	6	0.000021	0.000012	0.000008	0.000021	0.000037
1986	12	0.000020	0.000015	0.000006	0.000015	0.000062
1987	12	0.000059	0.000032	0.000016	0.000069	0.000113
1988	11	0.000129	0.000127	0.000025	0.000075	0.000466
1989	11	0.000027	0.000014	0.000009	0.000028	0.000049
1990	11	0.000016	0.000008	0.000004	0.000016	0.000032
1991	12	0.000051	0.000129	0.000007	0.000013	0.000459
1992	11	0.000017	0.000025	0.000005	0.000011	0.000093
1993	10	0.000021	0.000028	0.000006	0.000012	0.000100
1994	10	0.000008	0.000005	0.000003	0.000007	0.000017

Air Sampler S-21 Results Jul85-Jul94

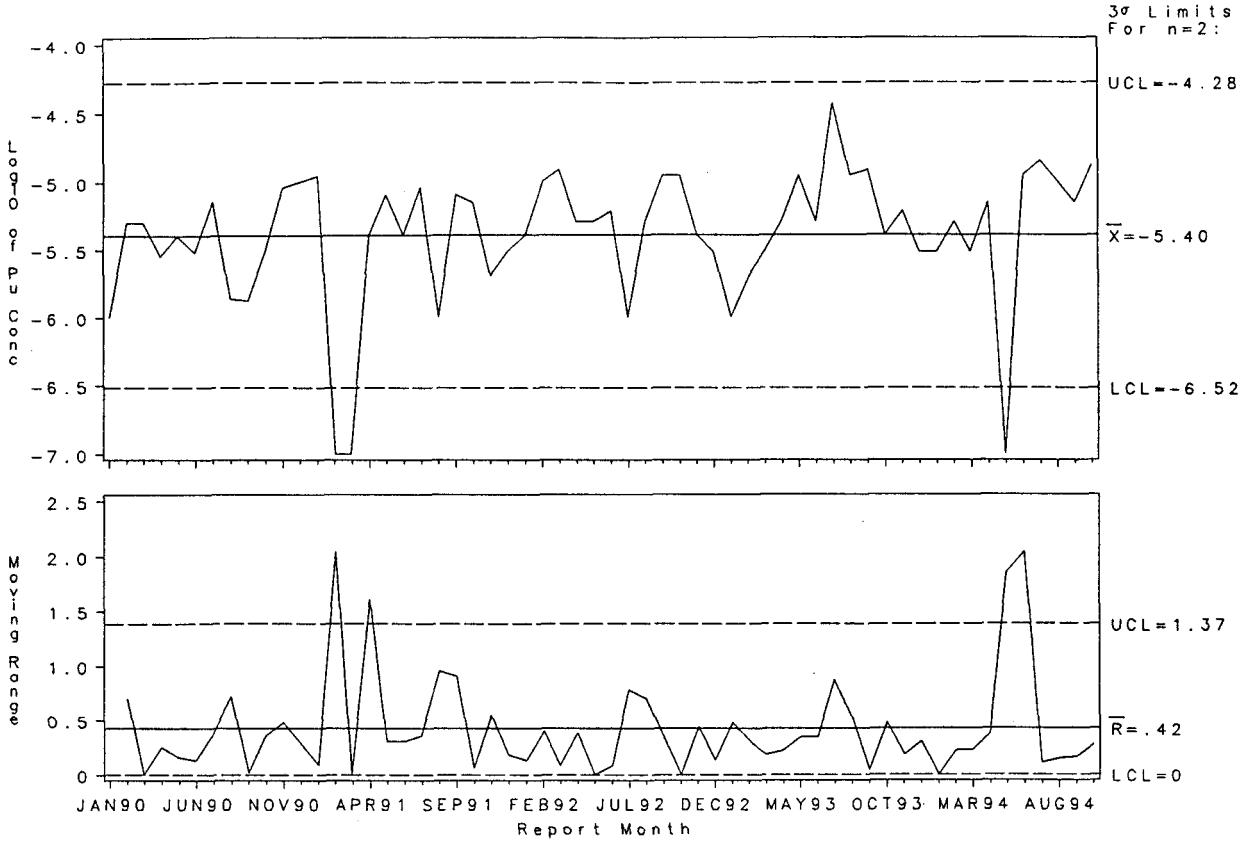


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	6	0.000014	0.000005	0.000008	0.000013	0.000020
1986	12	0.000010	0.000004	0.000005	0.000009	0.000018
1987	12	0.000028	0.000014	0.000010	0.000027	0.000054
1988	11	0.000066	0.000060	0.000016	0.000048	0.000190
1989	10	0.000020	0.000017	0.000007	0.000013	0.000060
1990	11	0.000008	0.000005	0.000000	0.000006	0.000018
1991	12	0.000011	0.000007	0.000002	0.000009	0.000023
1992	9	0.000006	0.000004	0.000002	0.000005	0.000014
1993	12	0.000008	0.000009	0.000002	0.000006	0.000034
1994	7	0.000007	0.000004	0.000003	0.000006	0.000015

Air Sampler S-22 Results Jan90-Oct94

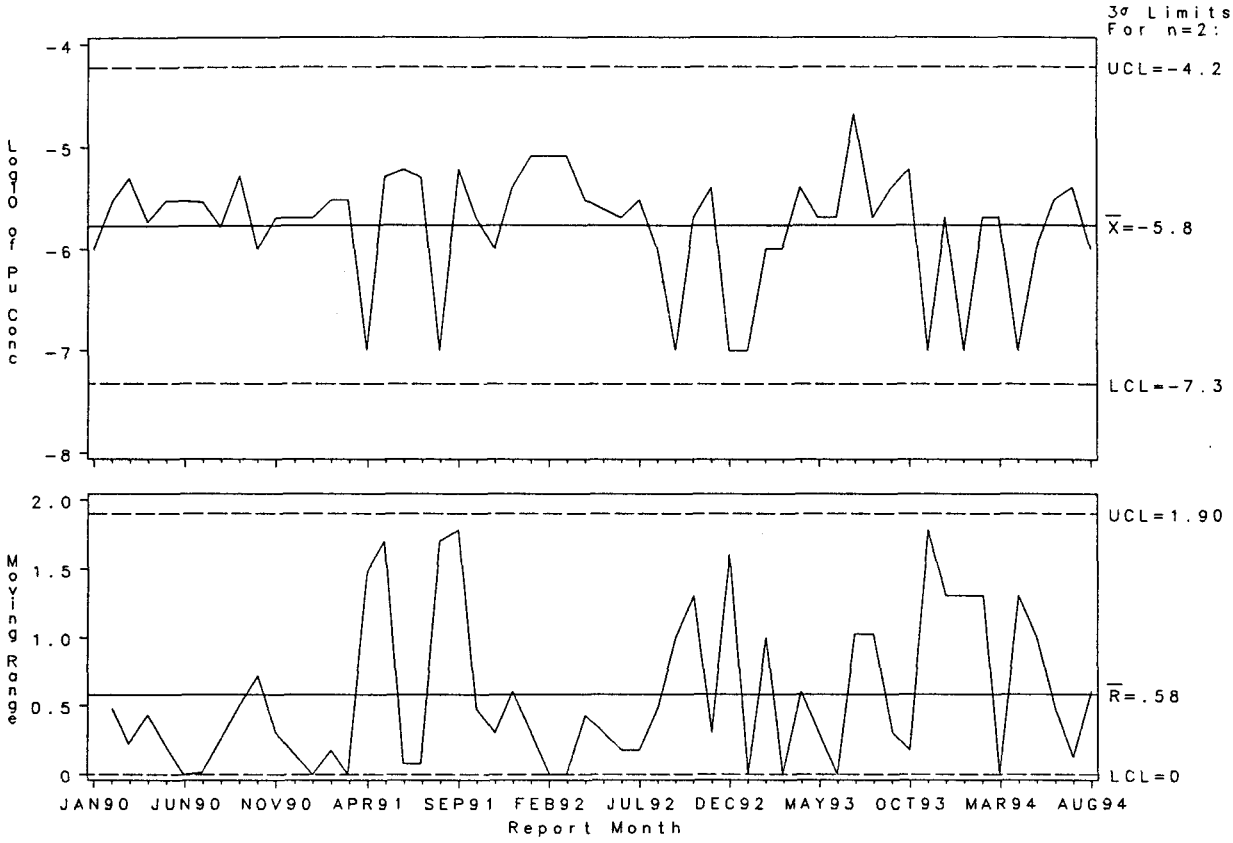


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000004	0.000003	0.000001	0.000003	0.000009
1991	12	0.000005	0.000004	-.000001	0.000004	0.000011
1992	12	0.000006	0.000004	0.000001	0.000005	0.000012
1993	12	0.000008	0.000010	0.000001	0.000005	0.000037
1994	10	0.000007	0.000005	0.000000	0.000007	0.000014

Air Sampler S-23 Results Jan90-Aug94

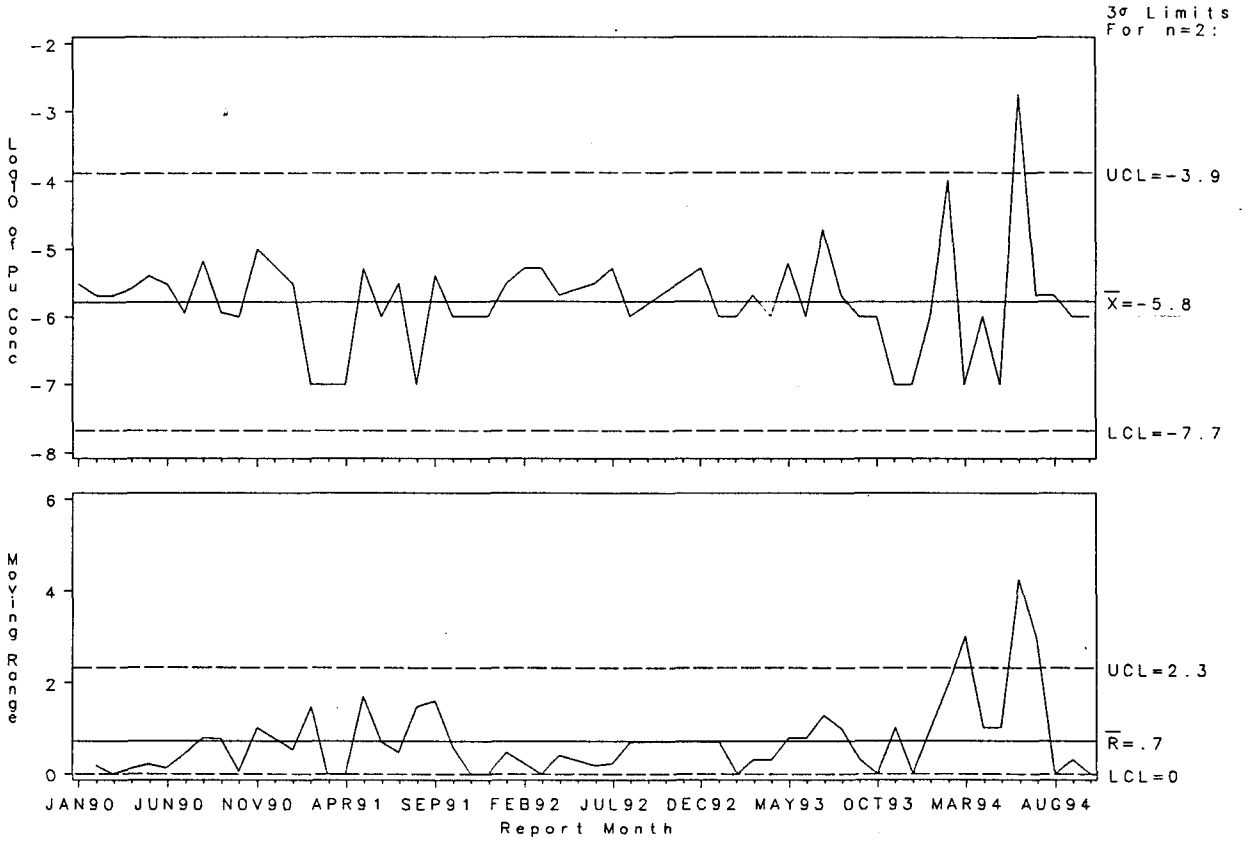


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000003	0.000001	0.000001	0.000003	0.000005
1991	12	0.000003	0.000002	-.000001	0.000003	0.000006
1992	11	0.000004	0.000003	0.000000	0.000003	0.000008
1993	12	0.000004	0.000006	0.000000	0.000002	0.000021
1994	8	0.000002	0.000001	0.000000	0.000002	0.000004

Air Sampler S-24 Results Jan90-Oct94

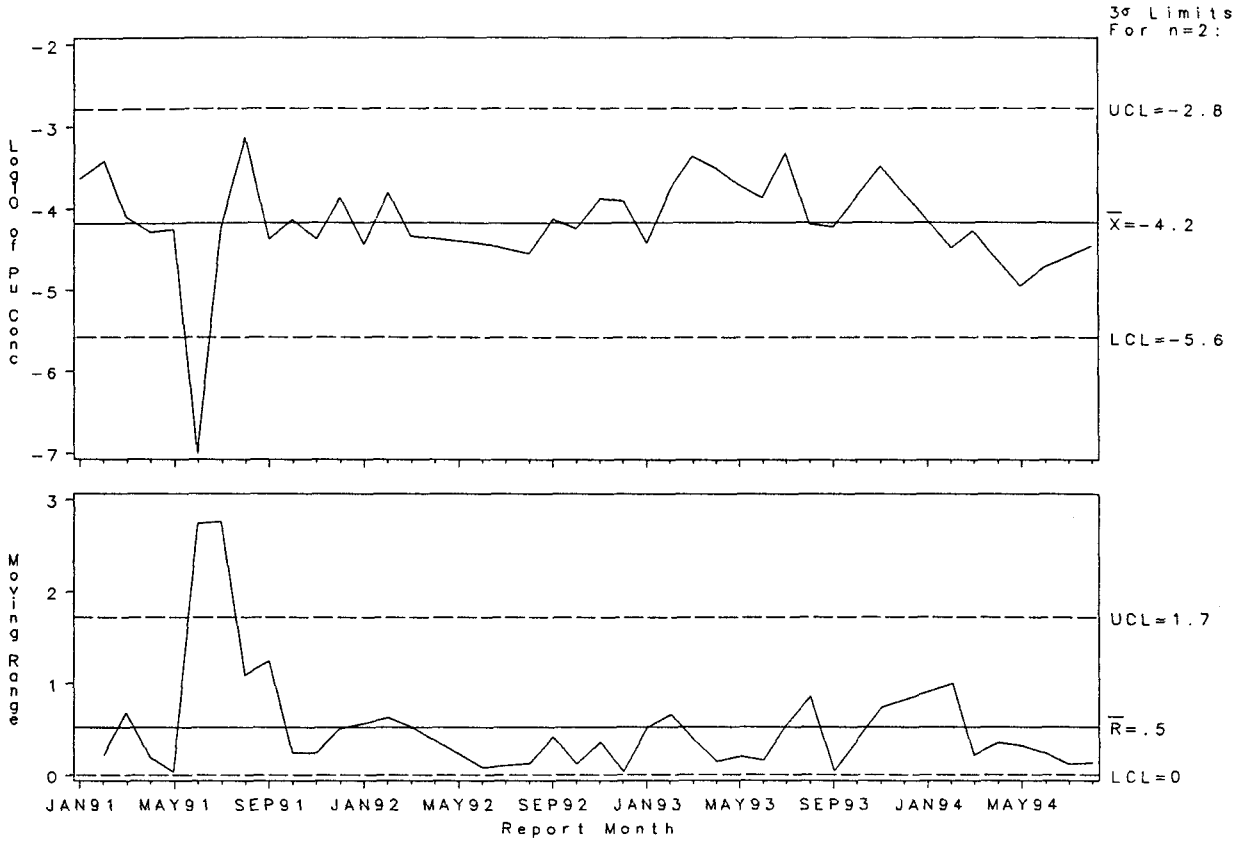


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1990	11	0.000003	0.000003	0.000001	0.000003	0.000010
1991	12	0.000001	0.000002	-.000001	0.000001	0.000005
1992	8	0.000004	0.000002	0.000001	0.000004	0.000005
1993	12	0.000003	0.000005	0.000000	0.000001	0.000019
1994	10	0.000191	0.000565	-.000001	0.000001	0.001797

Air Sampler S-25 Results Jan91-Aug94

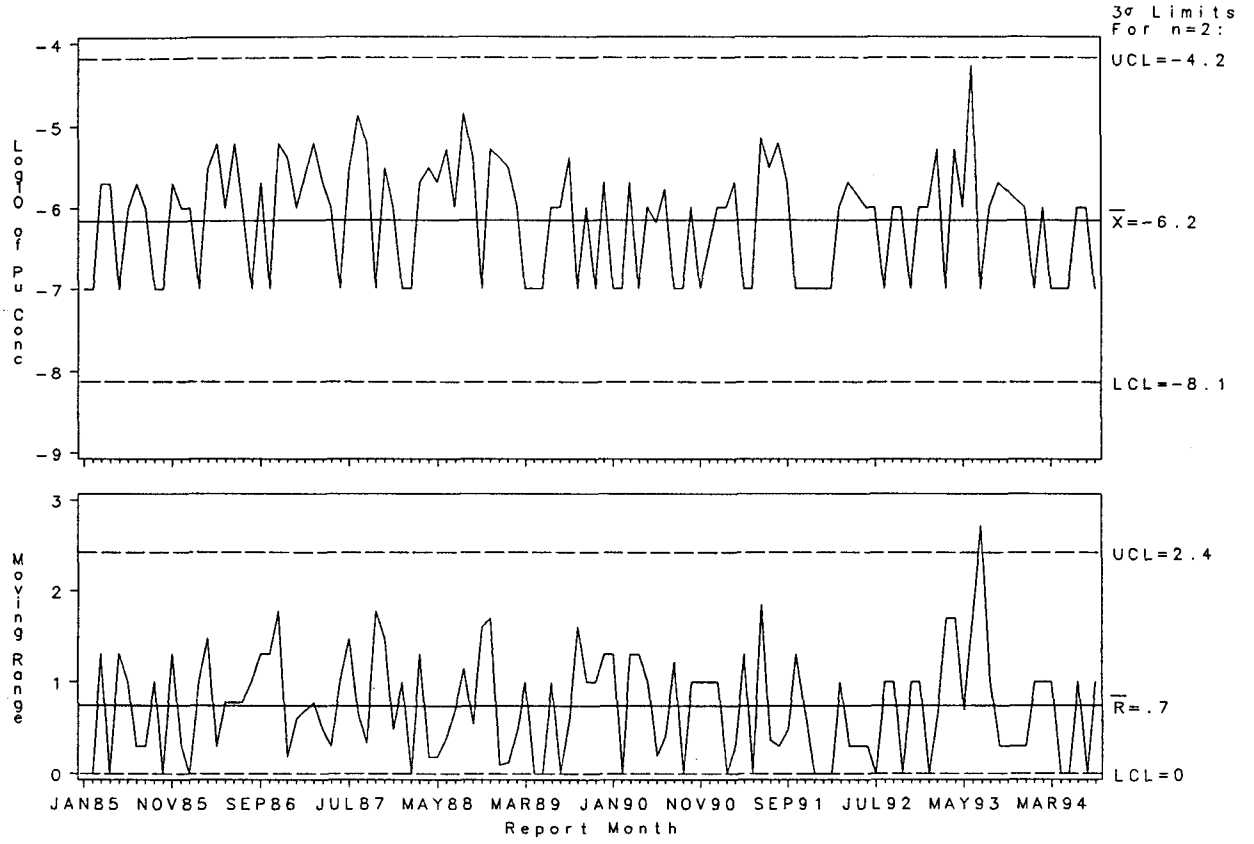


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1991	12	0.000154	0.000205	0.000000	0.000065	0.000713
1992	9	0.000075	0.000046	0.000028	0.000056	0.000151
1993	10	0.000215	0.000152	0.000037	0.000180	0.000460
1994	7	0.000028	0.000013	0.000011	0.000025	0.000052

Air Sampler S-31 Results Jan85-Aug94

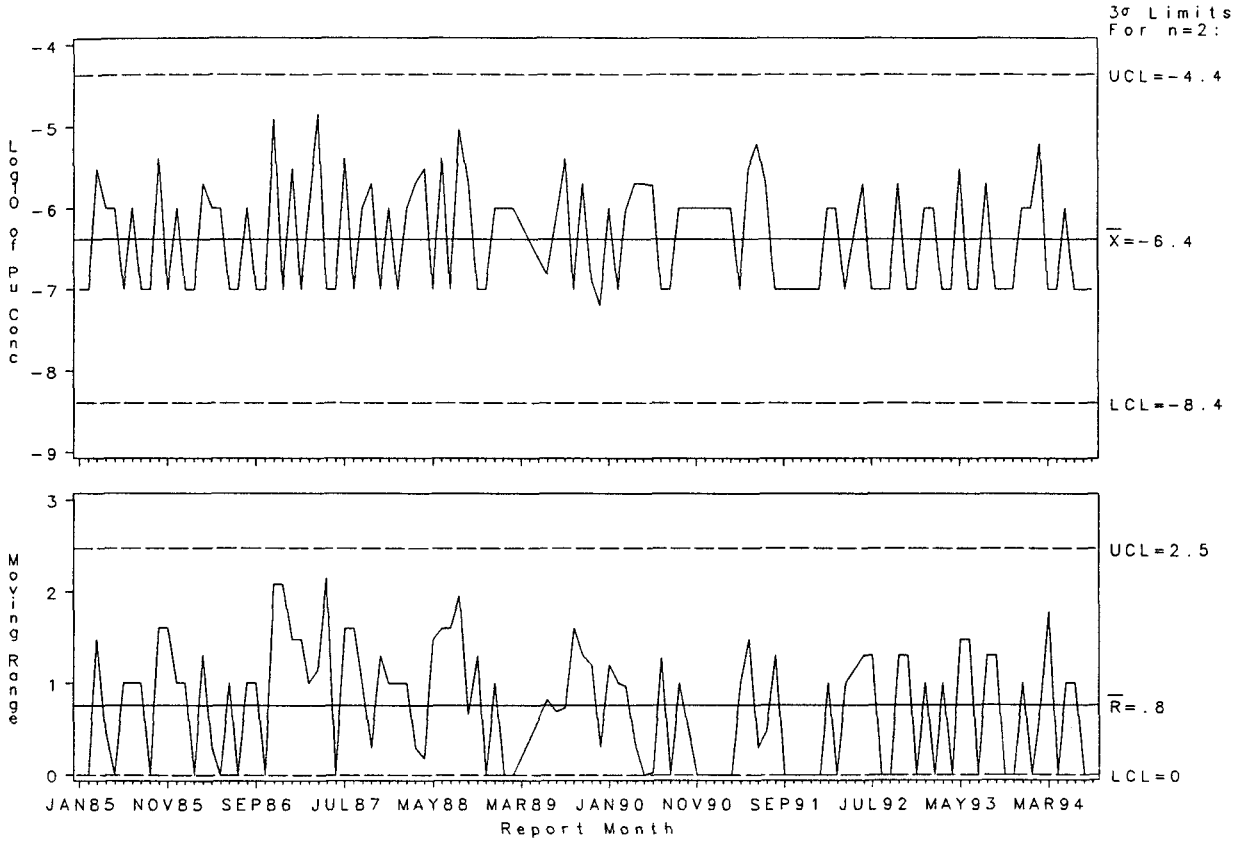


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000000	0.000002	-.000003	0.000001	0.000002
1986	12	0.000003	0.000002	0.000000	0.000002	0.000006
1987	11	0.000003	0.000004	0.000000	0.000002	0.000013
1988	12	0.000003	0.000004	0.000000	0.000003	0.000014
1989	12	0.000001	0.000001	-.000001	0.000001	0.000004
1990	11	0.000000	0.000001	-.000001	0.000000	0.000002
1991	11	0.000002	0.000003	-.000003	0.000001	0.000007
1992	11	0.000001	0.000001	0.000000	0.000001	0.000002
1993	10	0.000007	0.000016	0.000000	0.000001	0.000052
1994	8	0.000000	0.000001	0.000000	0.000000	0.000001

Air Sampler S-32 Results Jan85-Aug94

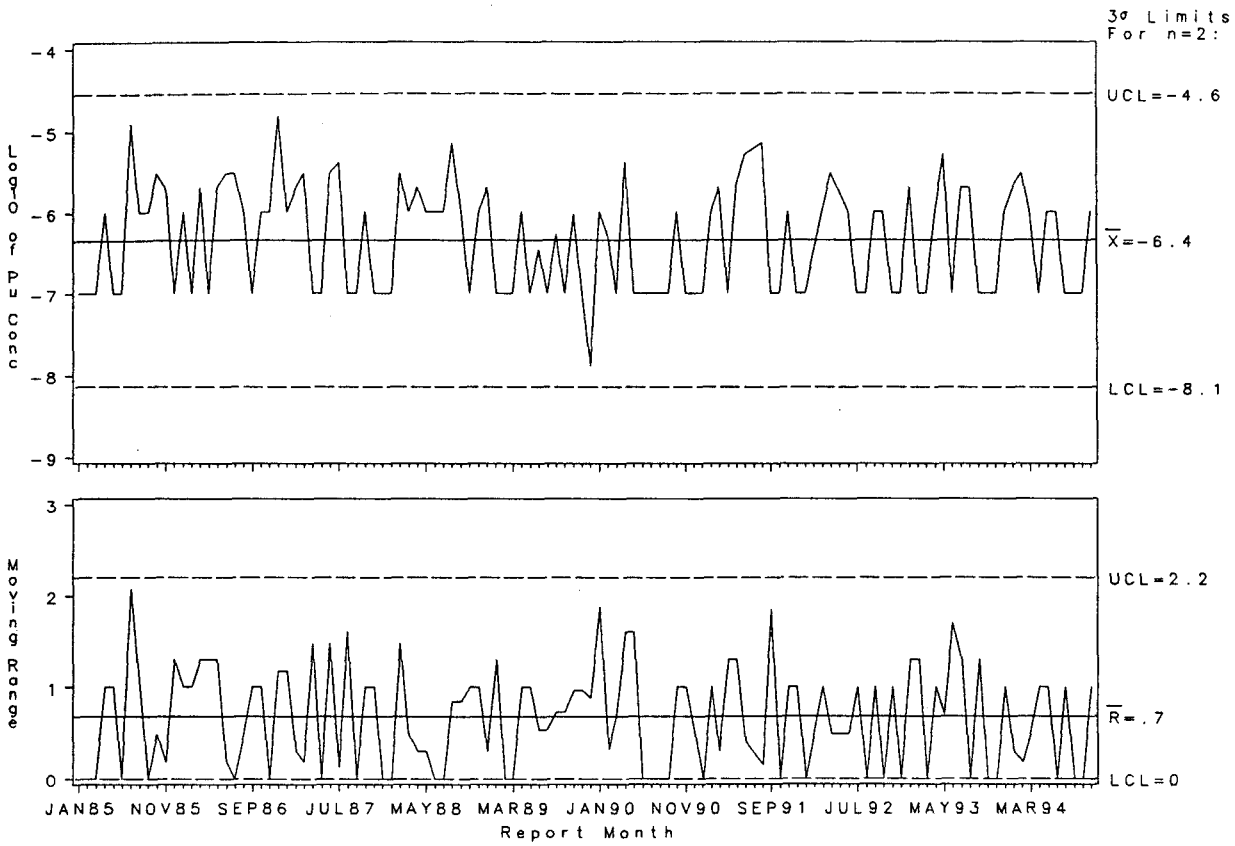


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000001	0.000002	-.000003	0.000001	0.000004
1986	12	0.000001	0.000004	-.000002	0.000000	0.000012
1987	12	0.000002	0.000004	-.000001	0.000001	0.000014
1988	12	0.000002	0.000003	-.000002	0.000001	0.000009
1989	9	0.000001	0.000001	0.000000	0.000001	0.000004
1990	10	0.000001	0.000001	-.000000	0.000001	0.000002
1991	12	0.000001	0.000002	-.000003	0.000001	0.000006
1992	11	0.000000	0.000001	-.000001	0.000000	0.000002
1993	12	0.000001	0.000001	0.000000	0.000000	0.000003
1994	8	0.000001	0.000002	-.000001	0.000000	0.000006

Air Sampler S-33 Results Jan85-Oct94

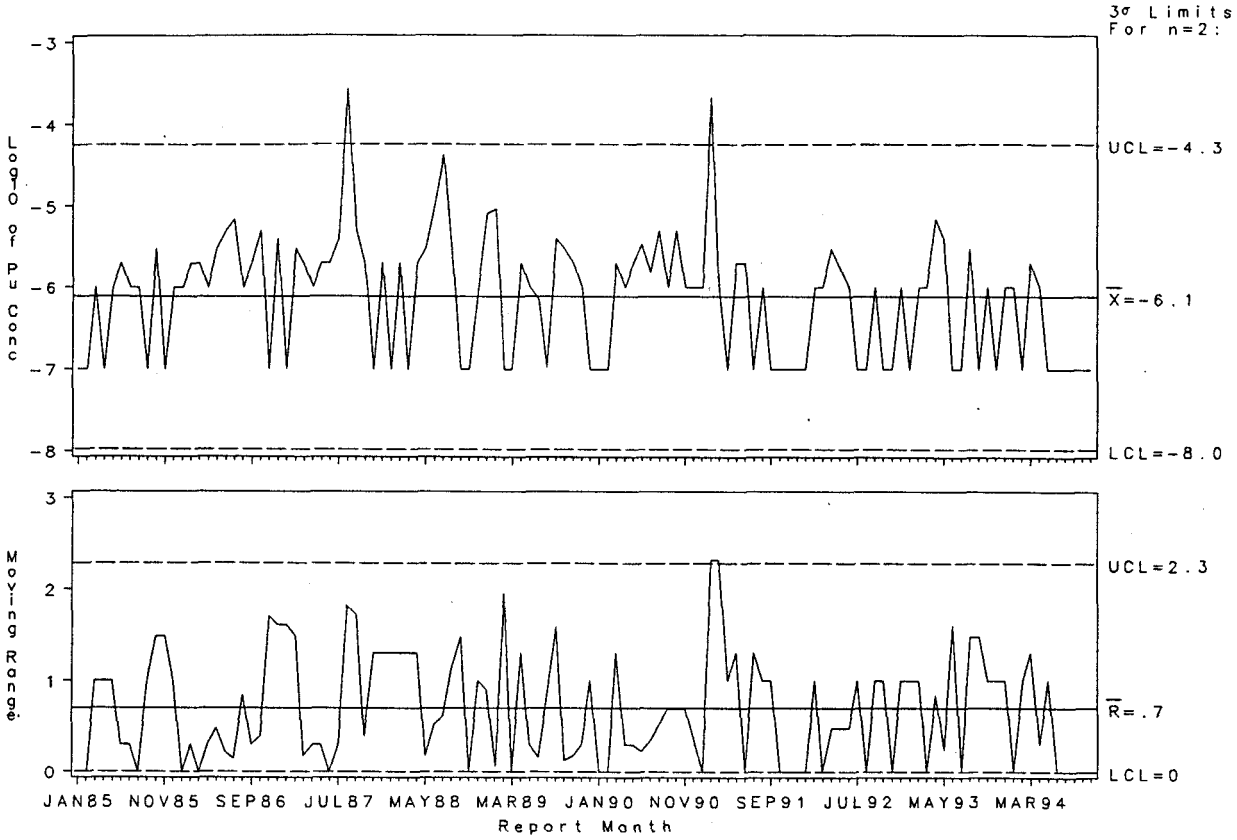


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000001	0.000004	-.000002	0.000001	0.000012
1986	12	0.000002	0.000004	0.000000	0.000001	0.000015
1987	12	0.000001	0.000002	-.000001	0.000001	0.000004
1988	12	0.000002	0.000002	-.000001	0.000001	0.000007
1989	12	0.000000	0.000000	-.000001	0.000000	0.000001
1990	11	0.000000	0.000001	-.000001	0.000000	0.000004
1991	11	0.000001	0.000003	-.000002	0.000001	0.000007
1992	10	0.000001	0.000001	0.000000	0.000001	0.000003
1993	12	0.000001	0.000002	-.000001	0.000001	0.000005
1994	10	0.000001	0.000001	0.000000	0.000001	0.000003

Air Sampler S-34 Results Jan85-Oct94

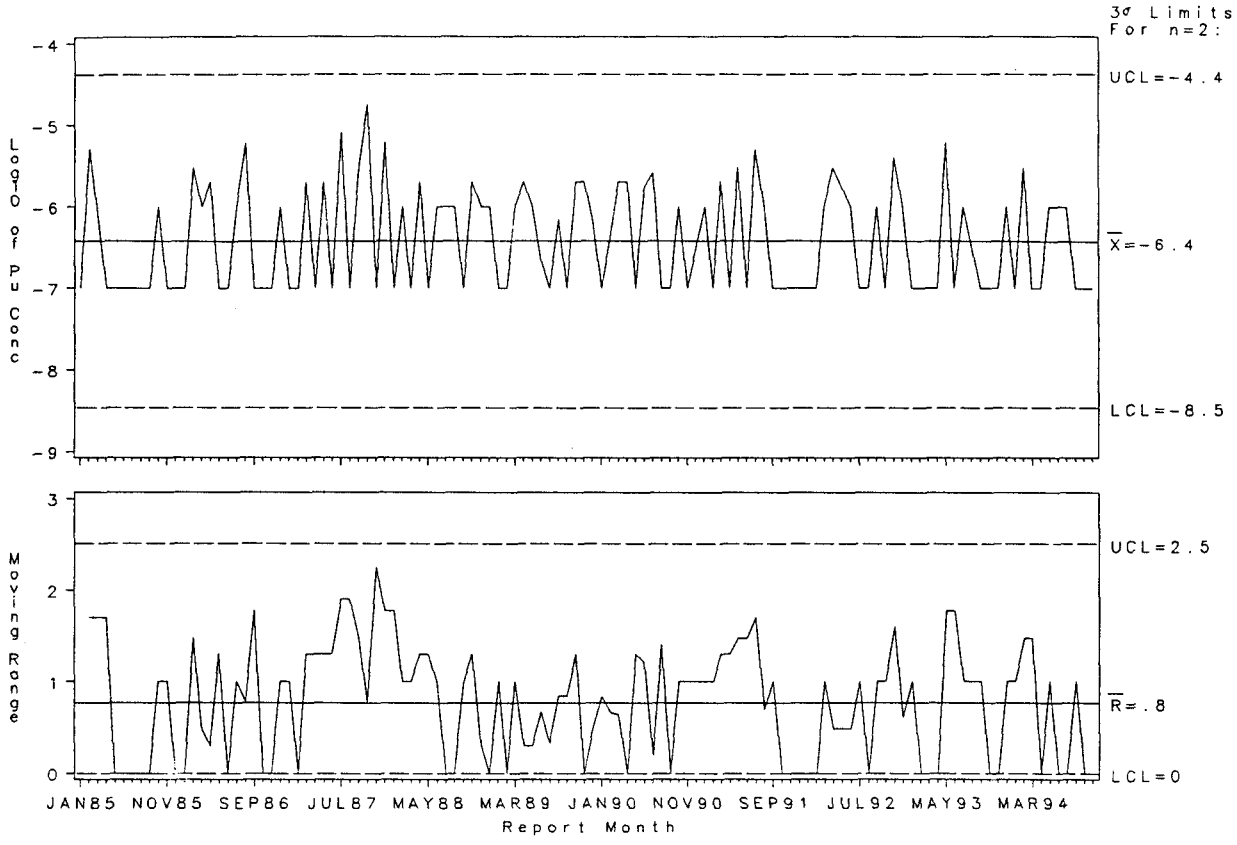


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000001	0.000001	-.000001	0.000001	0.000003
1986	12	0.000003	0.000002	0.000000	0.000002	0.000007
1987	12	0.000024	0.000075	-.000001	0.000002	0.000263
1988	12	0.000006	0.000012	-.000001	0.000002	0.000041
1989	12	0.000002	0.000003	-.000000	0.000001	0.000009
1990	11	0.000002	0.000002	-.000001	0.000002	0.000005
1991	12	0.000018	0.000060	-.000002	0.000001	0.000208
1992	11	0.000001	0.000001	0.000000	0.000001	0.000003
1993	12	0.000002	0.000002	0.000000	0.000001	0.000007
1994	9	0.000000	0.000001	0.000000	0.000000	0.000002

Air Sampler S-35 Results Jan85-Oct94

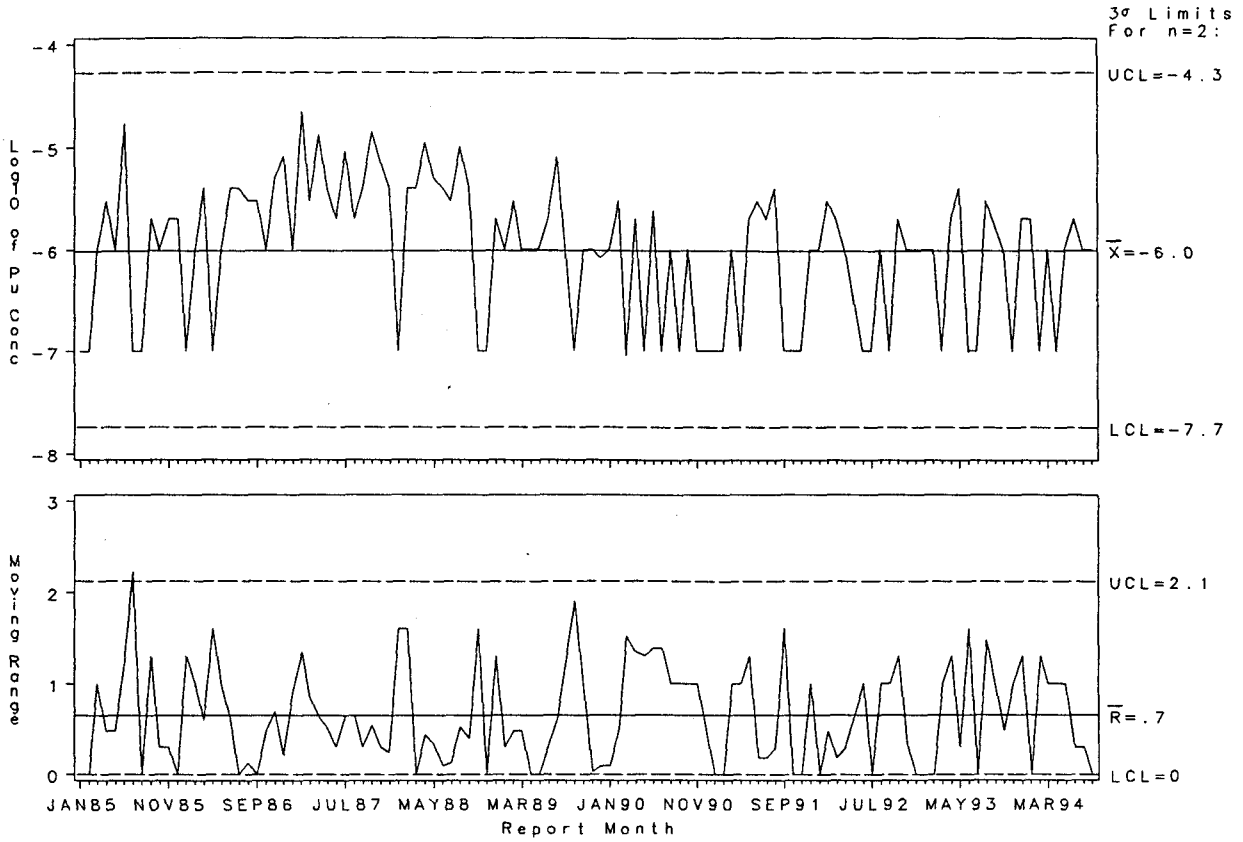


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	11	0.000000	0.000002	-.000002	0.000000	0.000005
1986	12	0.000001	0.000002	-.000001	0.000001	0.000006
1987	12	0.000003	0.000006	-.000001	0.000001	0.000018
1988	12	0.000001	0.000001	-.000001	0.000001	0.000002
1989	12	0.000001	0.000001	-.000001	0.000001	0.000002
1990	11	0.000001	0.000001	-.000001	0.000000	0.000003
1991	12	0.000001	0.000002	-.000003	0.000000	0.000005
1992	11	0.000001	0.000001	0.000000	0.000001	0.000004
1993	11	0.000001	0.000002	0.000000	0.000000	0.000006
1994	10	0.000001	0.000001	0.000000	0.000000	0.000003

Air Sampler S-36 Results Jan85-Aug94

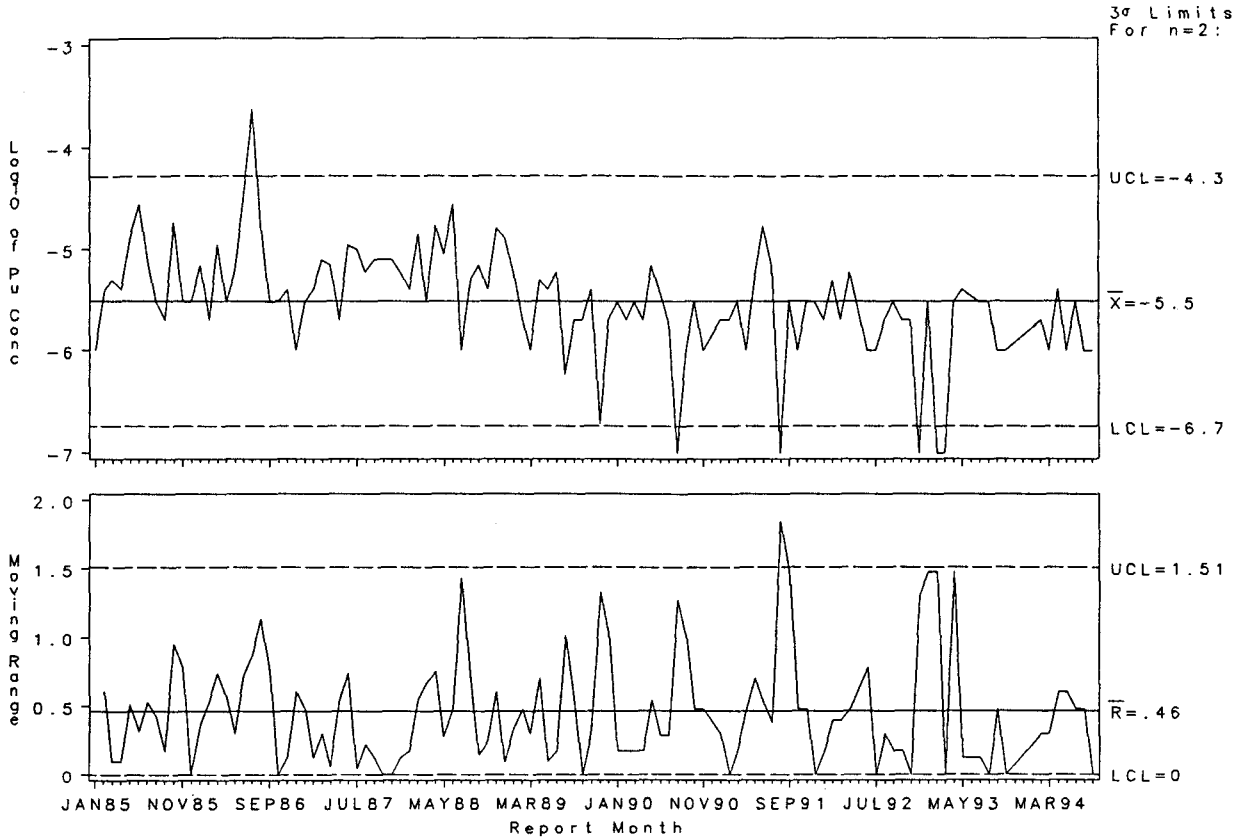


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000005	-.000002	0.000001	0.000017
1986	12	0.000003	0.000002	0.000000	0.000003	0.000008
1987	12	0.000007	0.000006	0.000001	0.000004	0.000022
1988	12	0.000004	0.000004	0.000000	0.000004	0.000011
1989	11	0.000002	0.000002	0.000000	0.000001	0.000008
1990	11	0.000001	0.000001	-.000000	0.000001	0.000003
1991	12	0.000001	0.000002	-.000001	0.000001	0.000004
1992	11	0.000001	0.000001	0.000000	0.000001	0.000003
1993	11	0.000001	0.000001	0.000000	0.000001	0.000004
1994	8	0.000001	0.000001	0.000000	0.000001	0.000002

Air Sampler S-37 Results Jan85-Aug94

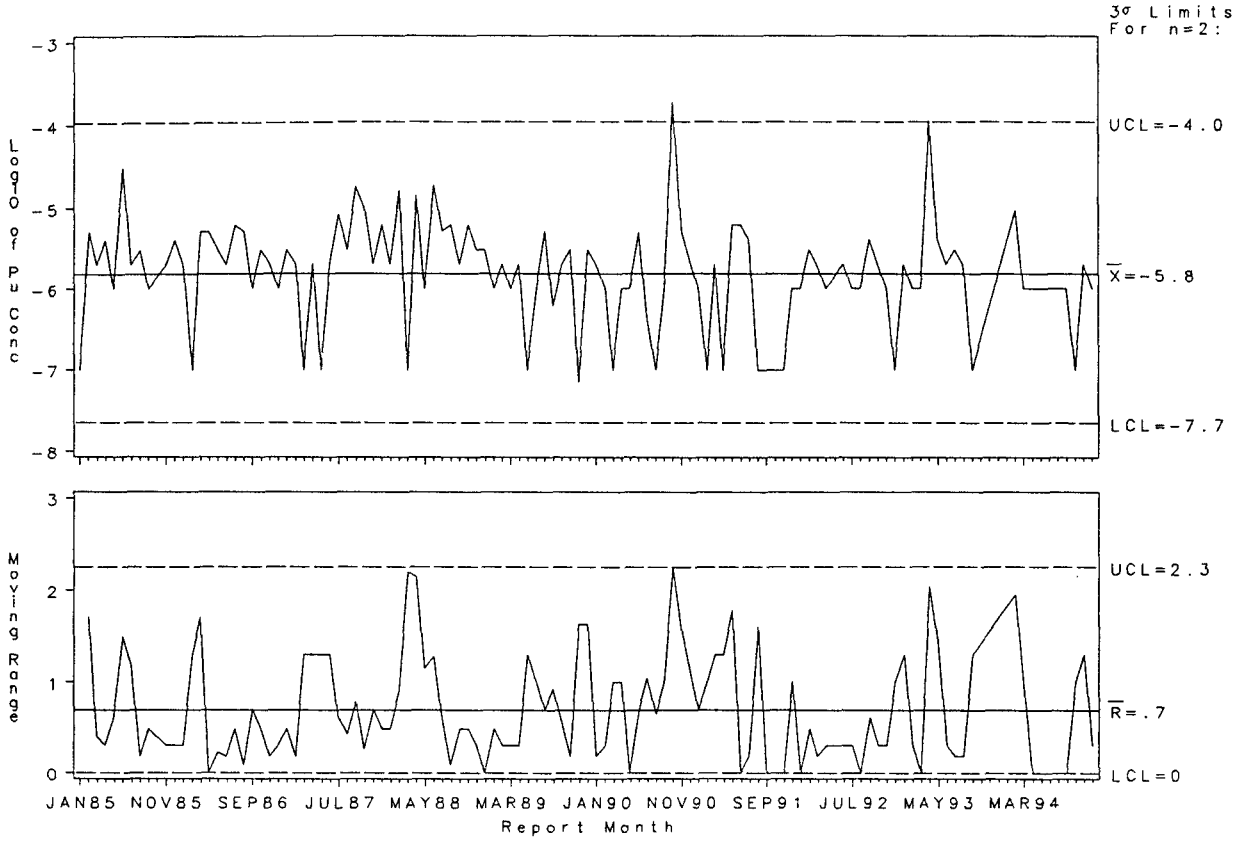


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000008	0.000008	0.000001	0.000004	0.000027
1986	12	0.000027	0.000065	0.000001	0.000005	0.000231
1987	12	0.000007	0.000003	0.000002	0.000008	0.000011
1988	12	0.000010	0.000008	0.000001	0.000008	0.000027
1989	12	0.000003	0.000002	0.000000	0.000002	0.000006
1990	11	0.000002	0.000002	0.000000	0.000002	0.000007
1991	12	0.000004	0.000005	0.000000	0.000003	0.000017
1992	11	0.000002	0.000002	0.000000	0.000002	0.000006
1993	9	0.000002	0.000002	0.000000	0.000003	0.000004
1994	7	0.000002	0.000001	0.000001	0.000001	0.000004

Air Sampler S-38 Results Jan85-Nov94

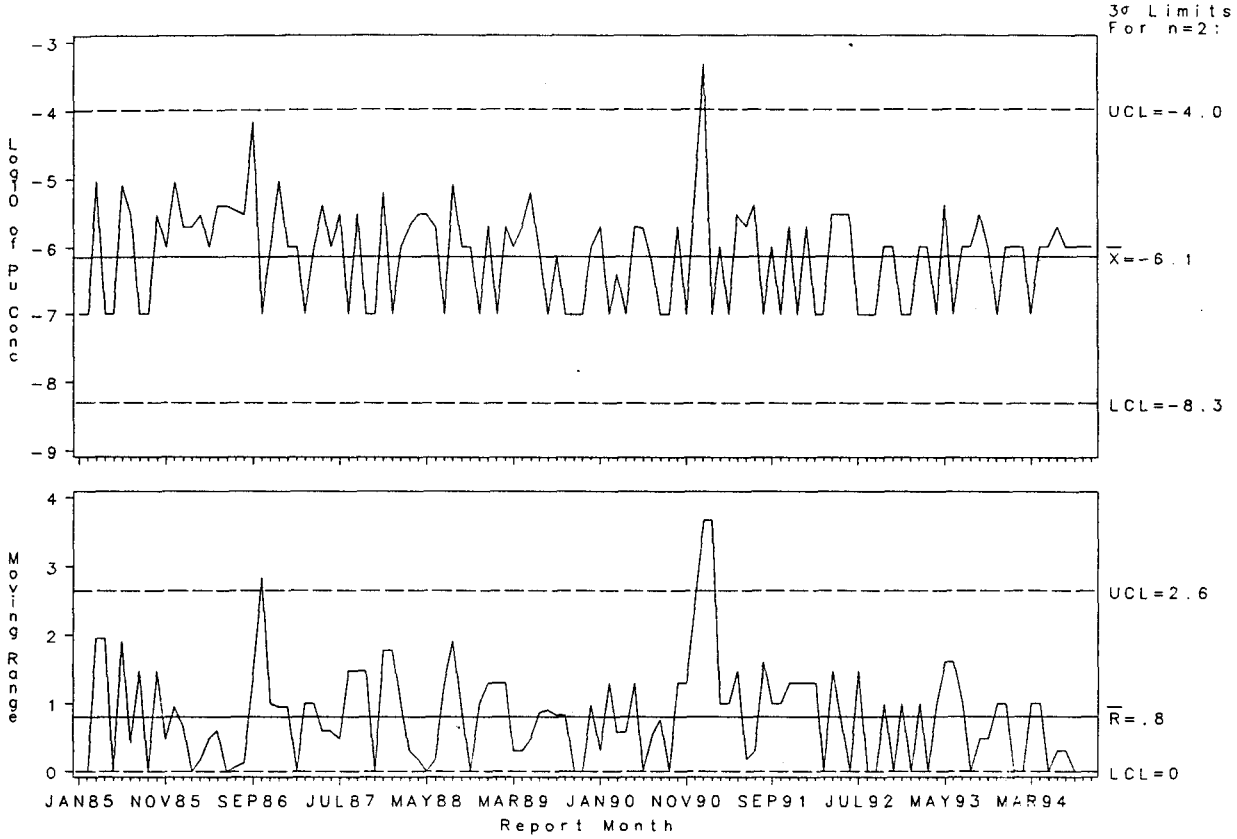


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	11	0.000005	0.000009	-.000002	0.000002	0.000031
1986	12	0.000003	0.000002	0.000000	0.000003	0.000006
1987	12	0.000005	0.000005	0.000000	0.000003	0.000018
1988	12	0.000006	0.000006	0.000000	0.000004	0.000019
1989	12	0.000002	0.000001	0.000000	0.000002	0.000005
1990	11	0.000018	0.000054	-.000000	0.000001	0.000181
1991	12	0.000001	0.000003	-.000002	0.000001	0.000006
1992	11	0.000002	0.000001	0.000000	0.000001	0.000004
1993	9	0.000014	0.000036	0.000000	0.000002	0.000109
1994	9	0.000002	0.000003	0.000000	0.000001	0.000009

Air Sampler S-39 Results Jan85-Oct94

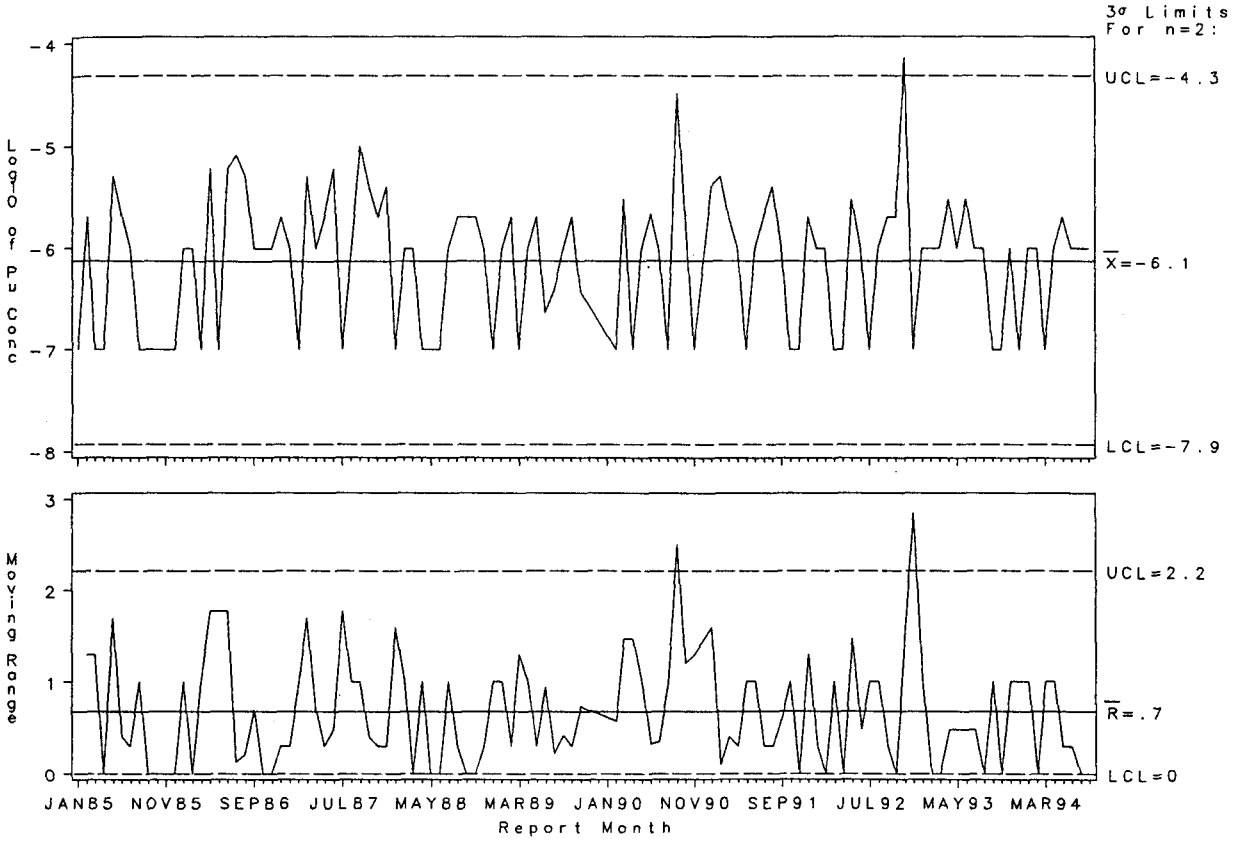


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000004	-.000002	0.000001	0.000009
1986	11	0.000009	0.000020	0.000000	0.000003	0.000068
1987	12	0.000002	0.000002	-.000001	0.000001	0.000006
1988	12	0.000002	0.000002	0.000000	0.000002	0.000008
1989	12	0.000001	0.000002	-.000001	0.000001	0.000006
1990	11	0.000001	0.000001	-.000001	0.000000	0.000002
1991	12	0.000040	0.000135	-.000002	0.000001	0.000468
1992	11	0.000001	0.000001	0.000000	0.000000	0.000003
1993	12	0.000001	0.000001	0.000000	0.000001	0.000004
1994	10	0.000001	0.000000	0.000000	0.000001	0.000002

Air Sampler S-40 Results Jan85-Aug94

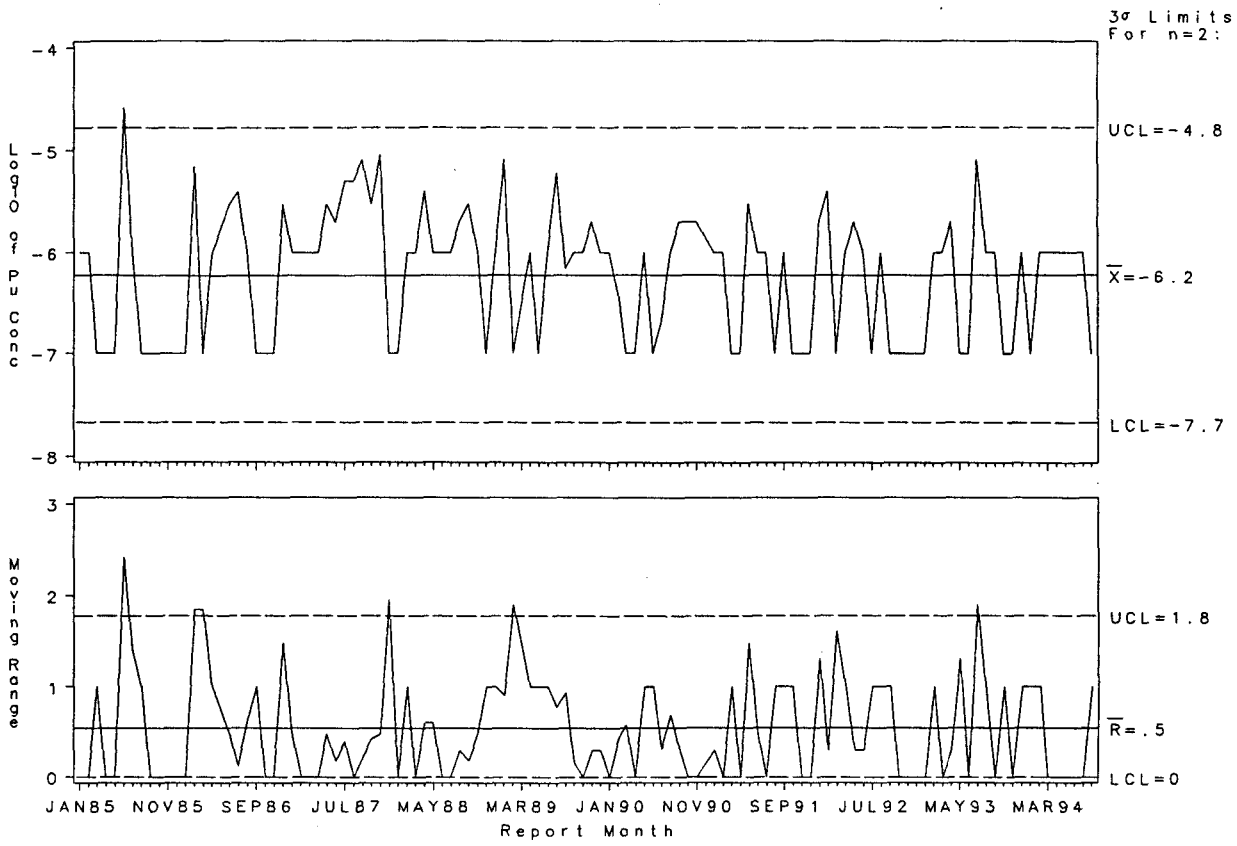


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000000	0.000002	-.000003	0.000000	0.000005
1986	12	0.000003	0.000003	0.000000	0.000001	0.000008
1987	12	0.000003	0.000003	-.000001	0.000002	0.000010
1988	12	0.000001	0.000001	-.000001	0.000001	0.000002
1989	10	0.000001	0.000001	0.000000	0.000001	0.000002
1990	10	0.000004	0.000010	-.000000	0.000001	0.000032
1991	12	0.000002	0.000002	0.000000	0.000002	0.000005
1992	12	0.000007	0.000020	0.000000	0.000001	0.000071
1993	12	0.000001	0.000001	0.000000	0.000001	0.000003
1994	8	0.000001	0.000001	0.000000	0.000001	0.000002

Air Sampler S-41 Results Jan85-Aug94

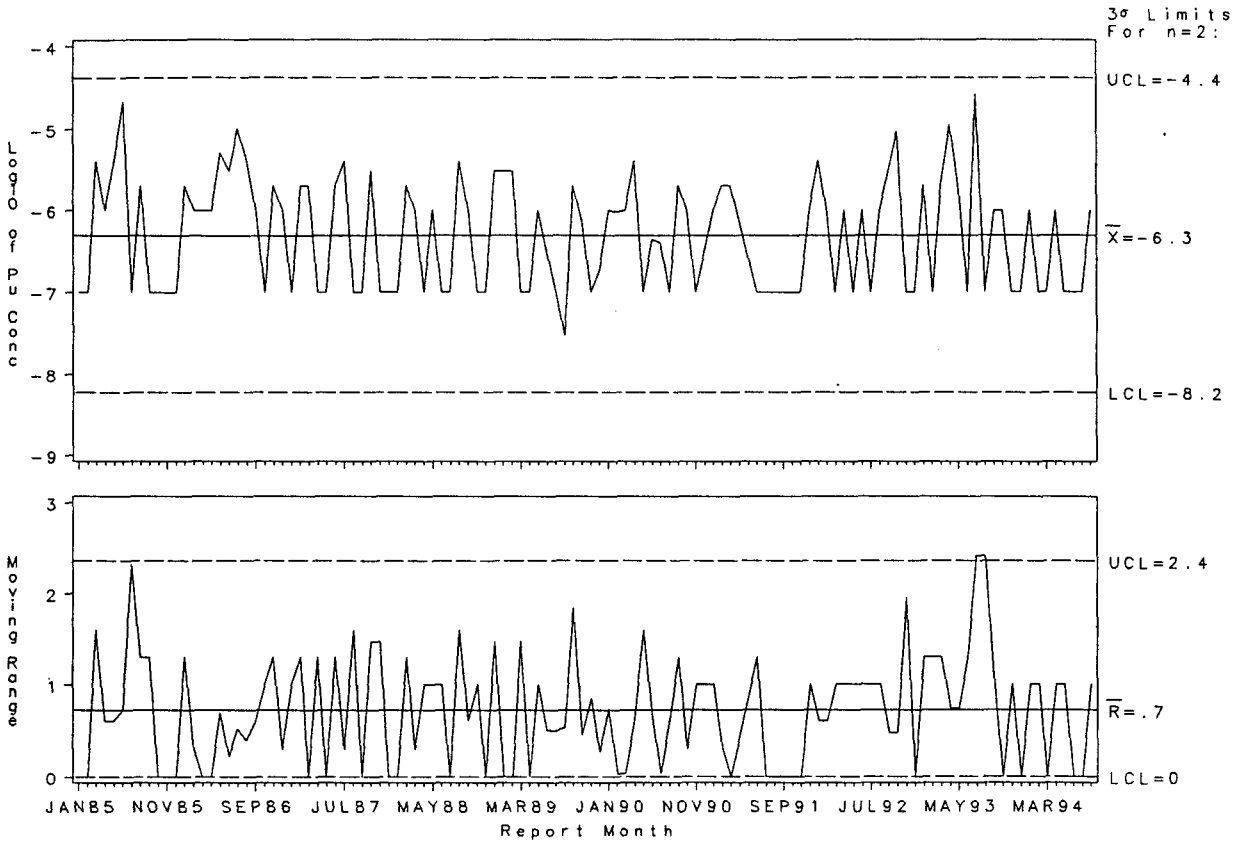


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000008	-.000003	-.000001	0.000026
1986	11	0.000002	0.000002	-.000001	0.000001	0.000007
1987	12	0.000003	0.000003	0.000000	0.000003	0.000009
1988	12	0.000001	0.000001	-.000001	0.000001	0.000004
1989	11	0.000002	0.000003	-.000004	0.000001	0.000008
1990	11	0.000001	0.000001	-.000000	0.000001	0.000002
1991	12	0.000000	0.000001	-.000002	0.000001	0.000003
1992	12	0.000001	0.000001	0.000000	0.000001	0.000004
1993	12	0.000001	0.000002	0.000000	0.000001	0.000008
1994	8	0.000001	0.000000	0.000000	0.000001	0.000001

Air Sampler S-42 Results Jan85-Aug94

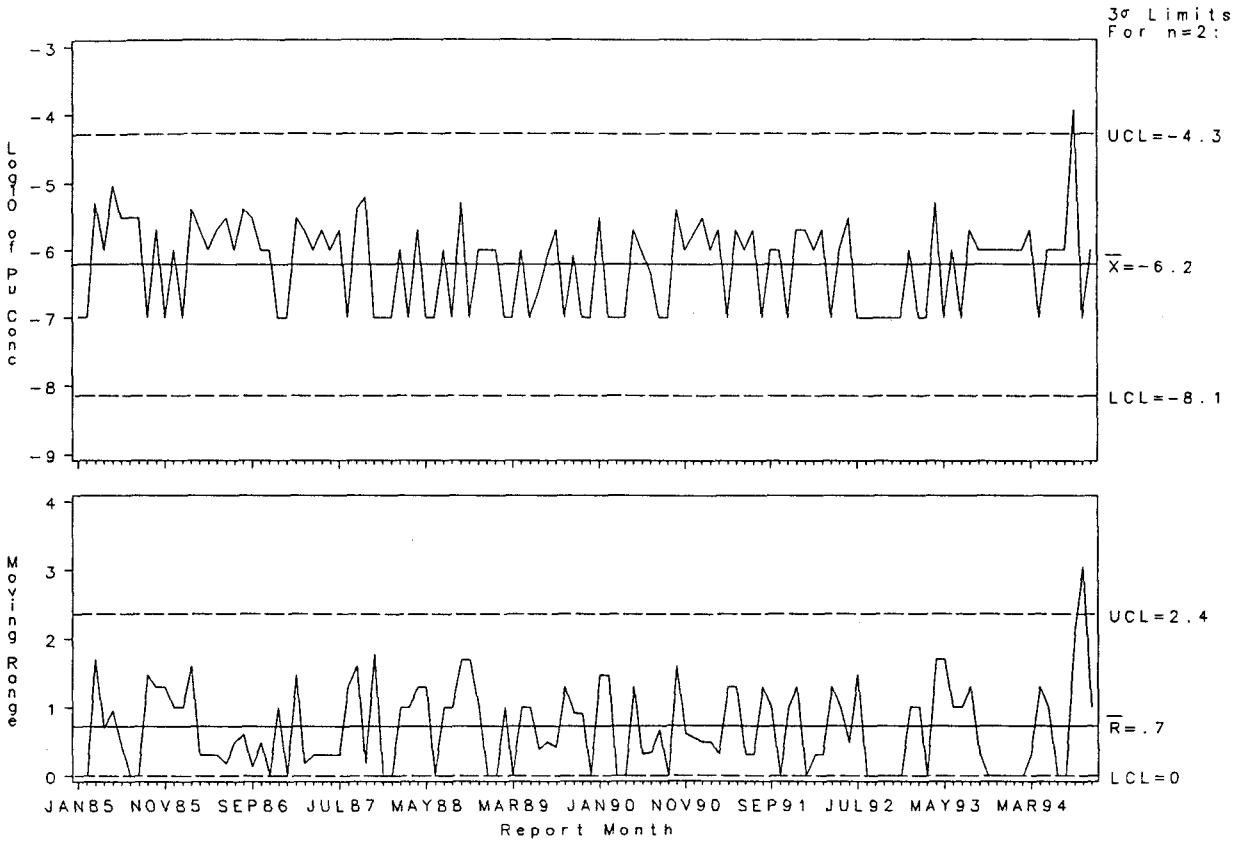


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000006	-.000001	0.000000	0.000021
1986	12	0.000003	0.000003	0.000000	0.000002	0.000010
1987	12	0.000001	0.000002	-.000001	0.000000	0.000004
1988	12	0.000001	0.000001	0.000000	0.000001	0.000004
1989	12	0.000001	0.000001	-.000000	0.000000	0.000003
1990	11	0.000001	0.000001	0.000000	0.000001	0.000004
1991	10	0.000001	0.000001	-.000001	0.000000	0.000002
1992	12	0.000002	0.000003	0.000000	0.000001	0.000009
1993	12	0.000004	0.000008	0.000000	0.000001	0.000026
1994	8	0.000000	0.000001	-.000001	0.000000	0.000001

Air Sampler S-43 Results Jan85-Oct94

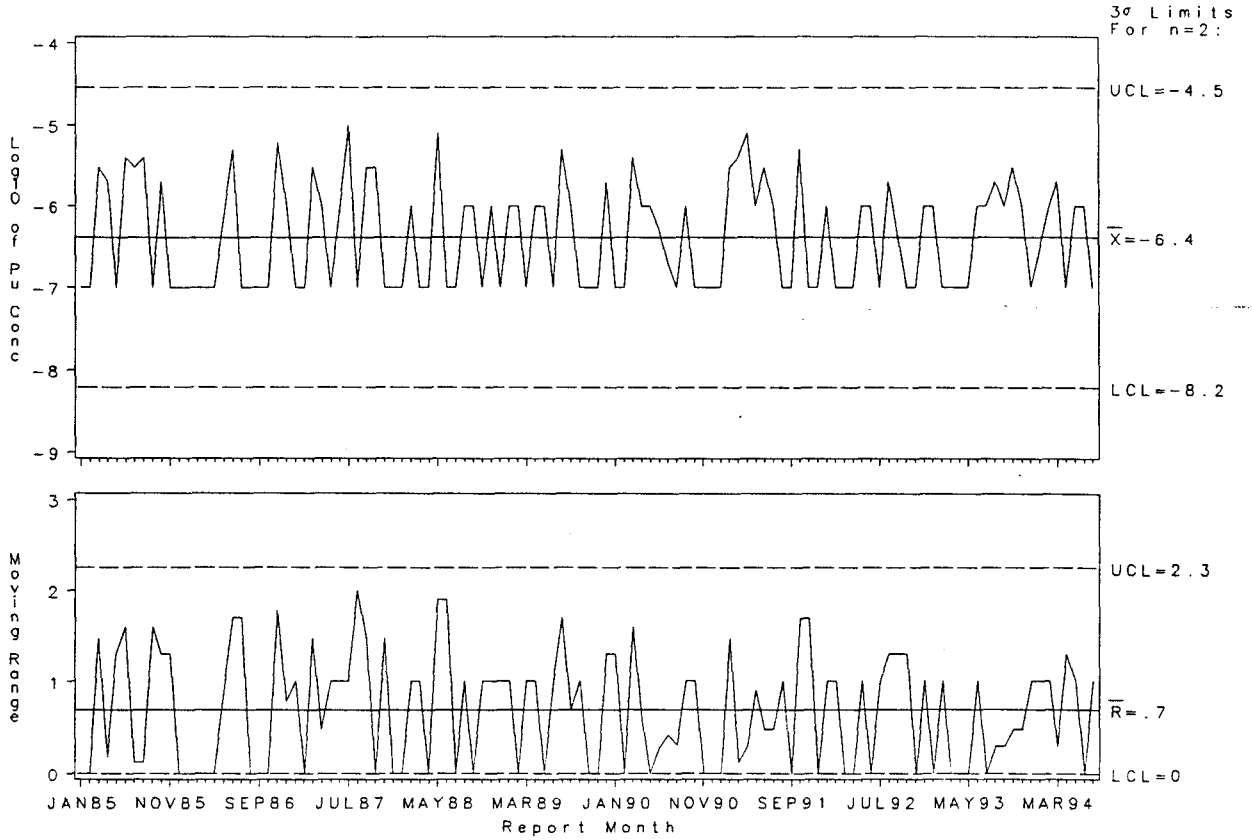


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000003	-.000002	0.000002	0.000009
1986	12	0.000002	0.000001	0.000000	0.000002	0.000004
1987	12	0.000002	0.000002	-.000001	0.000002	0.000006
1988	12	0.000001	0.000002	-.000001	0.000001	0.000005
1989	12	0.000000	0.000001	-.000001	0.000000	0.000002
1990	11	0.000001	0.000002	-.000001	0.000000	0.000004
1991	12	0.000001	0.000001	-.000001	0.000001	0.000003
1992	10	0.000001	0.000001	0.000000	0.000001	0.000003
1993	11	0.000001	0.000002	-.000001	0.000001	0.000005
1994	9	0.000013	0.000037	0.000000	0.000001	0.000113

Air Sampler S-44 Results Jan85-Jul94

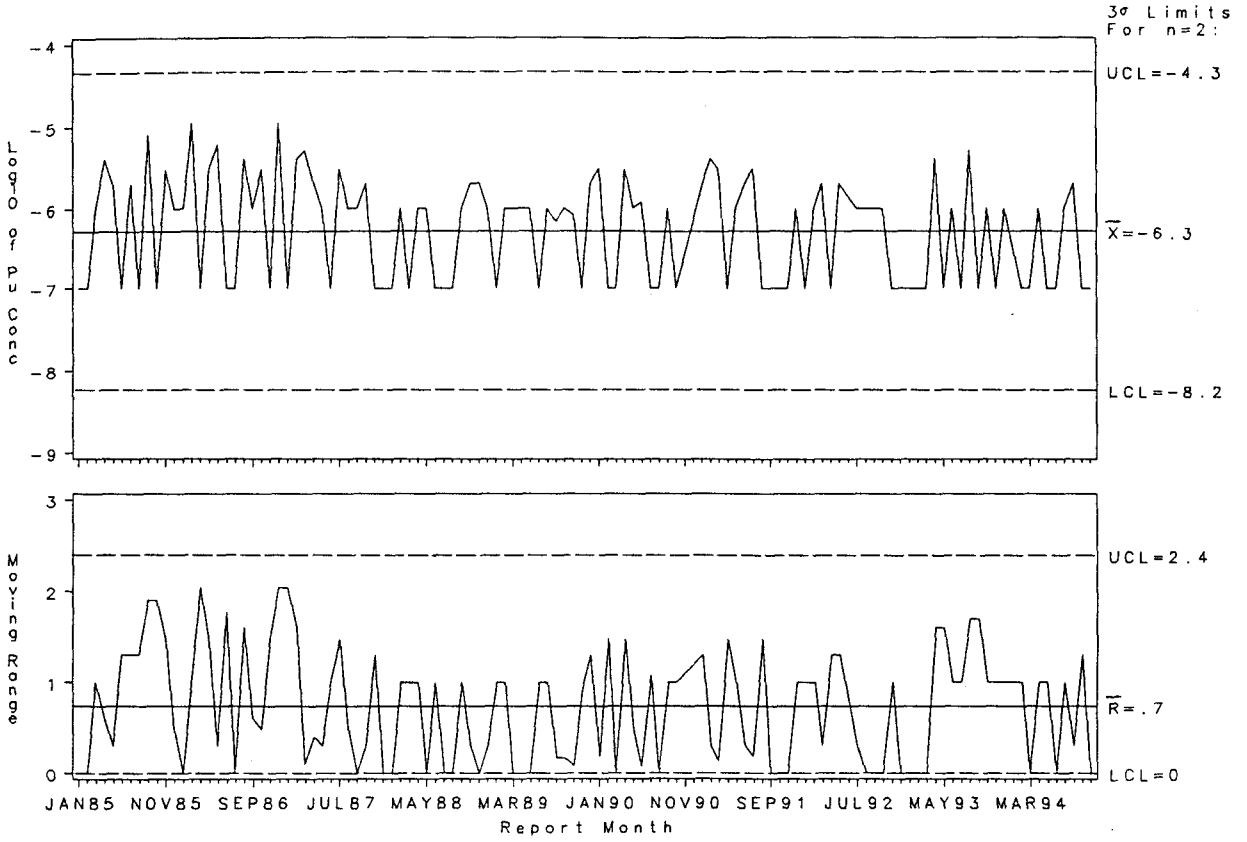


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000001	0.000003	-.000003	0.000001	0.000004
1986	11	0.000001	0.000002	-.000002	0.000000	0.000006
1987	12	0.000002	0.000003	-.000001	0.000001	0.000010
1988	12	0.000001	0.000002	-.000001	0.000000	0.000008
1989	12	0.000001	0.000002	-.000001	0.000001	0.000005
1990	11	0.000001	0.000001	-.000001	0.000000	0.000004
1991	12	0.000002	0.000003	-.000001	0.000001	0.000008
1992	11	0.000001	0.000001	0.000000	0.000000	0.000002
1993	12	0.000001	0.000001	-.000001	0.000001	0.000003
1994	6	0.000001	0.000001	0.000000	0.000001	0.000002

Air Sampler S-51 Results Jan85-Oct94

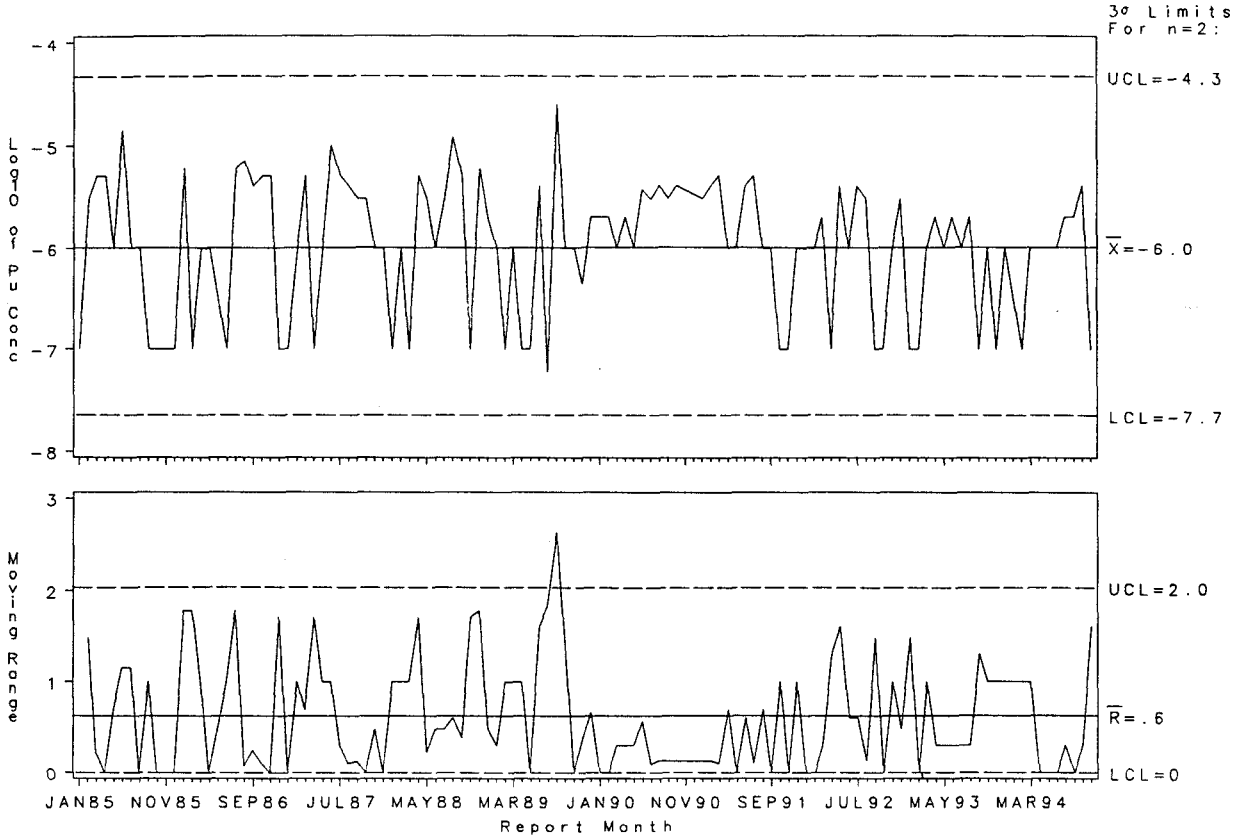


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000001	0.000003	-.000002	0.000001	0.000008
1986	12	0.000003	0.000004	-.000001	0.000002	0.000011
1987	12	0.000002	0.000002	-.000001	0.000001	0.000005
1988	12	0.000000	0.000001	-.000003	0.000001	0.000002
1989	12	0.000001	0.000001	-.000001	0.000001	0.000002
1990	10	0.000001	0.000001	-.000000	0.000001	0.000003
1991	12	0.000001	0.000002	-.000003	0.000001	0.000004
1992	11	0.000001	0.000001	0.000000	0.000001	0.000002
1993	12	0.000001	0.000002	-.000001	0.000000	0.000005
1994	9	0.000000	0.000001	0.000000	0.000000	0.000002

Air Sampler S-52 Results Jan85-Oct94

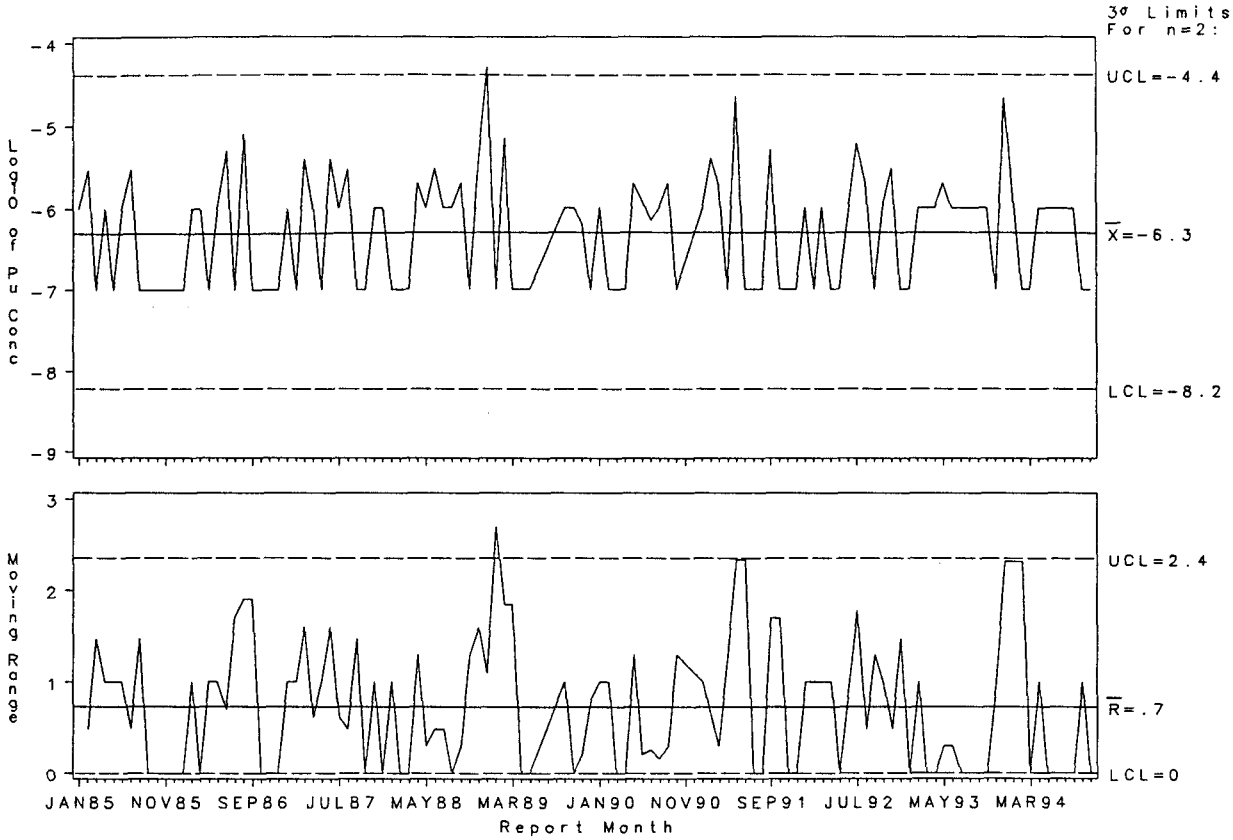


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000004	-.000001	0.000001	0.000014
1986	11	0.000003	0.000003	0.000000	0.000004	0.000007
1987	12	0.000003	0.000003	0.000000	0.000002	0.000010
1988	12	0.000003	0.000004	-.000001	0.000003	0.000012
1989	12	0.000003	0.000007	0.000000	0.000001	0.000025
1990	10	0.000003	0.000001	0.000001	0.000002	0.000004
1991	12	0.000002	0.000002	-.000001	0.000001	0.000005
1992	12	0.000002	0.000001	0.000000	0.000001	0.000004
1993	12	0.000001	0.000001	0.000000	0.000001	0.000002
1994	9	0.000001	0.000001	0.000000	0.000001	0.000004

Air Sampler S-53 Results Jan85-Oct94

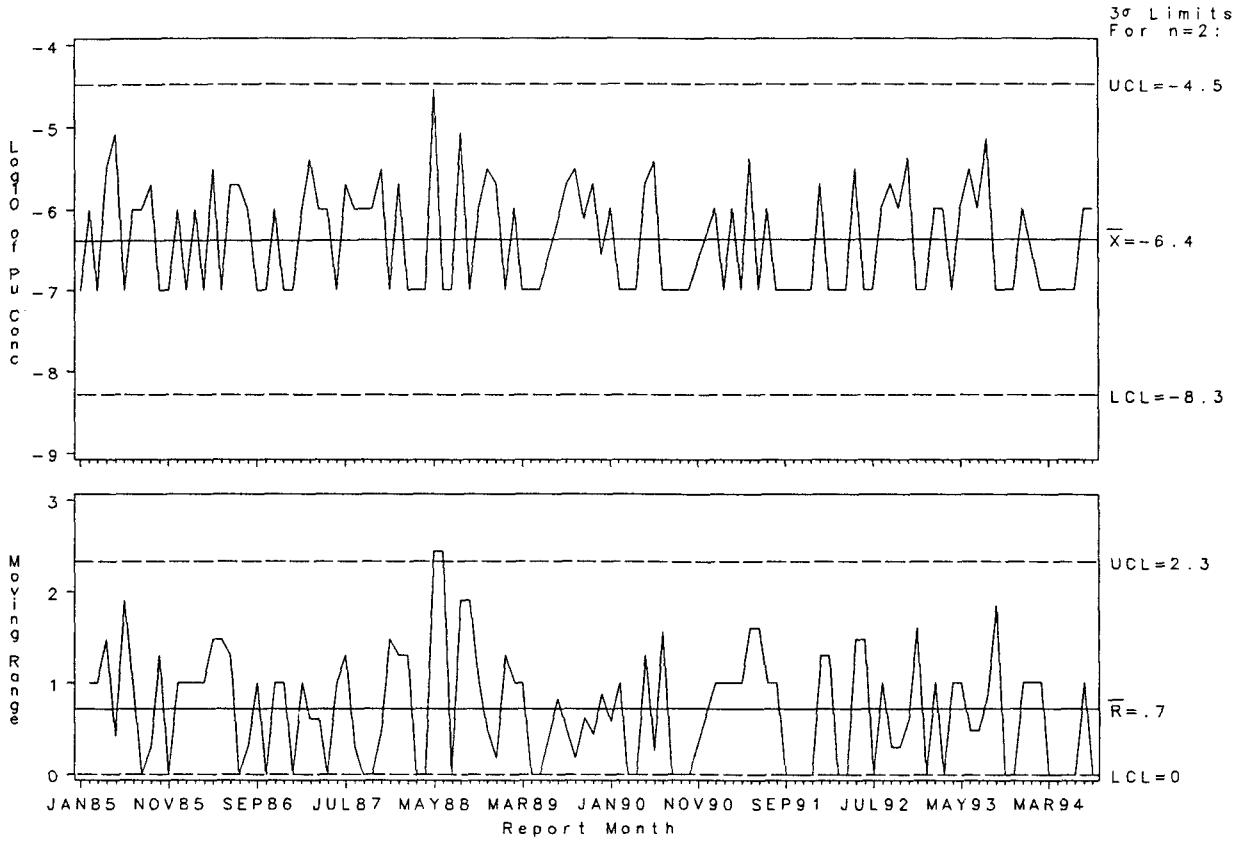


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000000	0.000002	-.000002	0.000000	0.000003
1986	12	0.000001	0.000003	-.000001	0.000000	0.000008
1987	12	0.000001	0.000002	-.000001	0.000001	0.000004
1988	12	0.000005	0.000014	-.000001	0.000001	0.000050
1989	9	0.000001	0.000002	-.000000	0.000000	0.000007
1990	10	0.000001	0.000001	-.000001	0.000001	0.000002
1991	12	0.000002	0.000007	-.000002	0.000000	0.000022
1992	11	0.000001	0.000002	0.000000	0.000001	0.000006
1993	12	0.000003	0.000006	0.000000	0.000001	0.000021
1994	9	0.000001	0.000001	0.000000	0.000001	0.000001

Air Sampler S-54 Results Jan85-Aug94

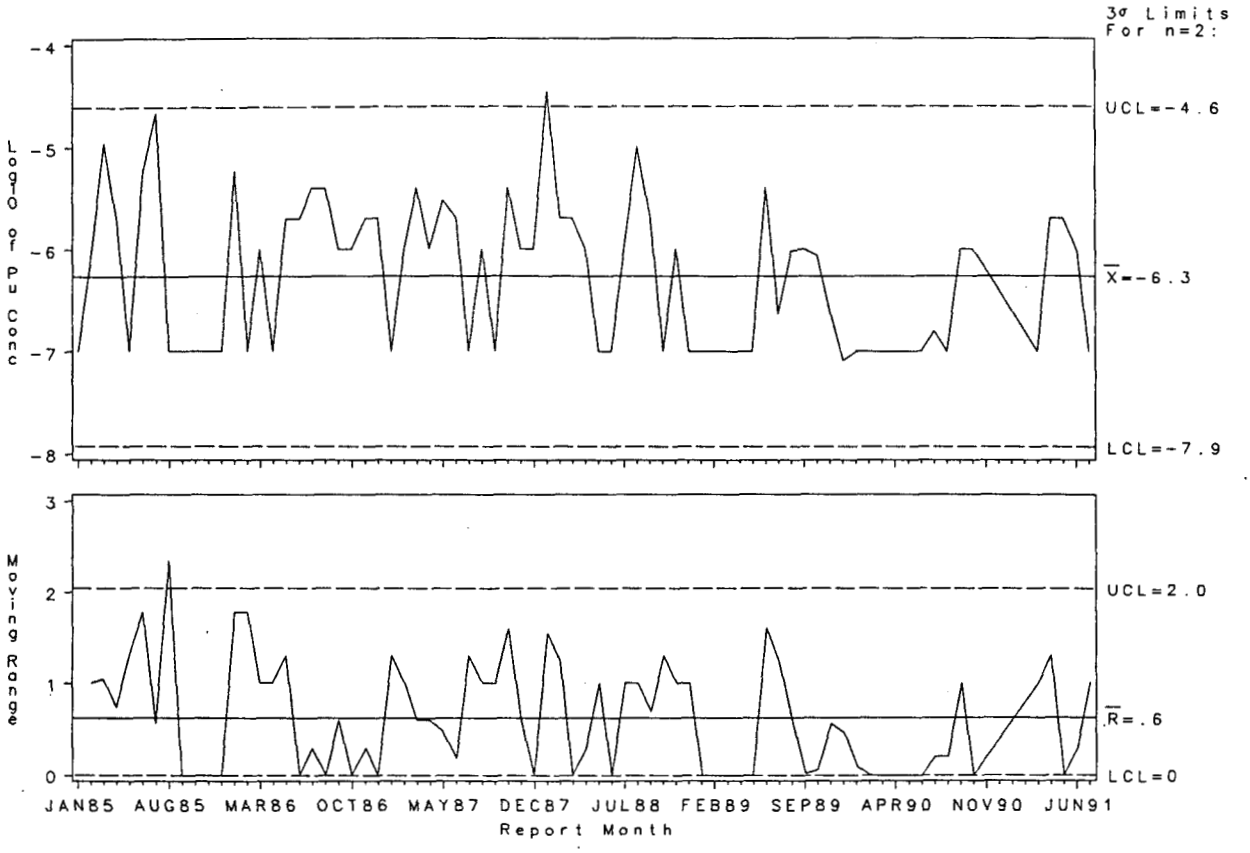


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000001	0.000003	-.000002	0.000001	0.000008
1986	12	0.000001	0.000001	0.000000	0.000001	0.000003
1987	12	0.000001	0.000001	0.000000	0.000001	0.000004
1988	12	0.000003	0.000008	-.000002	0.000001	0.000028
1989	11	0.000001	0.000001	0.000000	0.000001	0.000003
1990	10	0.000000	0.000001	-.000001	0.000000	0.000004
1991	12	-0.000000	0.000002	-.000003	0.000000	0.000004
1992	12	0.000001	0.000001	0.000000	0.000001	0.000004
1993	12	0.000001	0.000002	0.000000	0.000001	0.000007
1994	7	0.000000	0.000000	0.000000	0.000000	0.000001

Air Sampler S-55 Results Jan85-Jul91

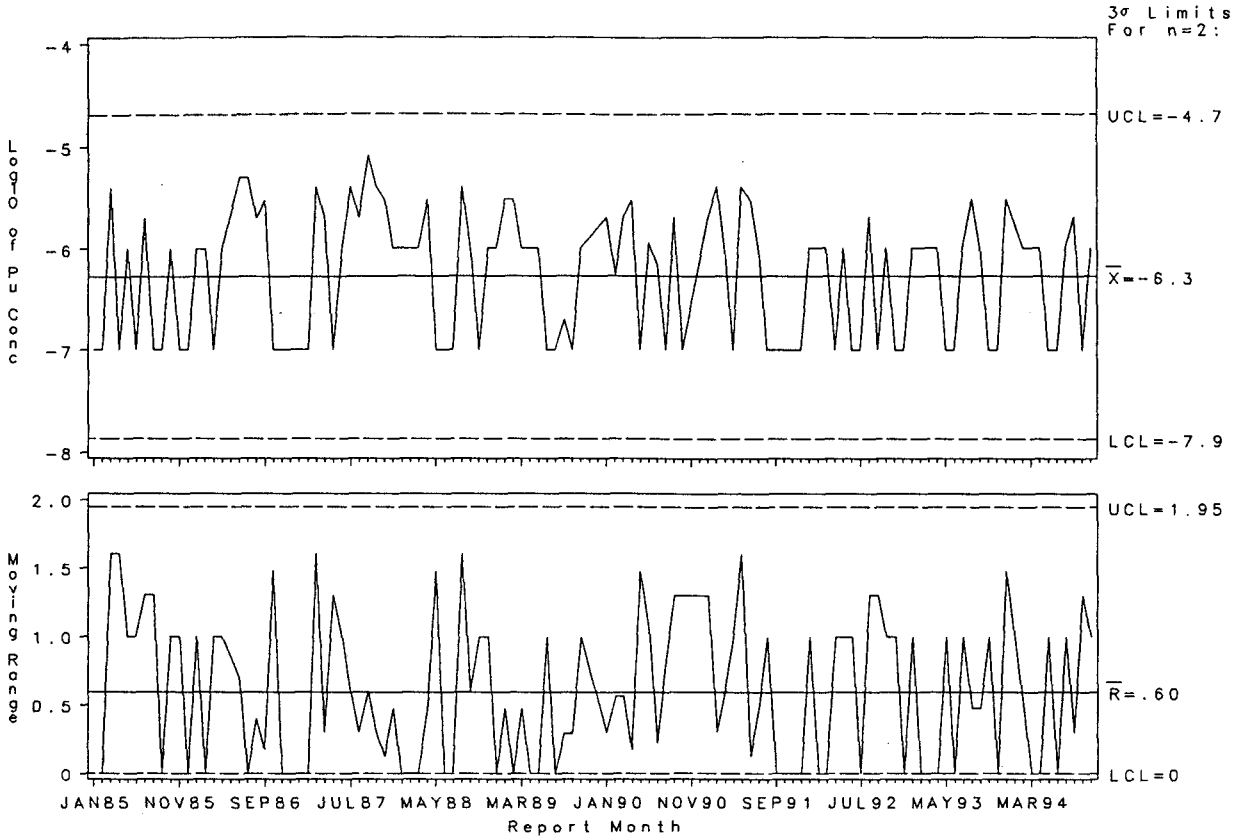


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000003	0.000007	-.000001	0.000000	0.000022
1986	12	0.000002	0.000002	0.000000	0.000002	0.000006
1987	12	0.000002	0.000001	0.000000	0.000001	0.000004
1988	12	0.000004	0.000010	-.000001	0.000001	0.000035
1989	12	0.000001	0.000001	0.000000	0.000000	0.000004
1990	10	0.000000	0.000001	-.000001	0.000000	0.000001
1991	5	0.000001	0.000001	0.000000	0.000001	0.000002

Air Sampler S-56 Results Jan85-Oct94

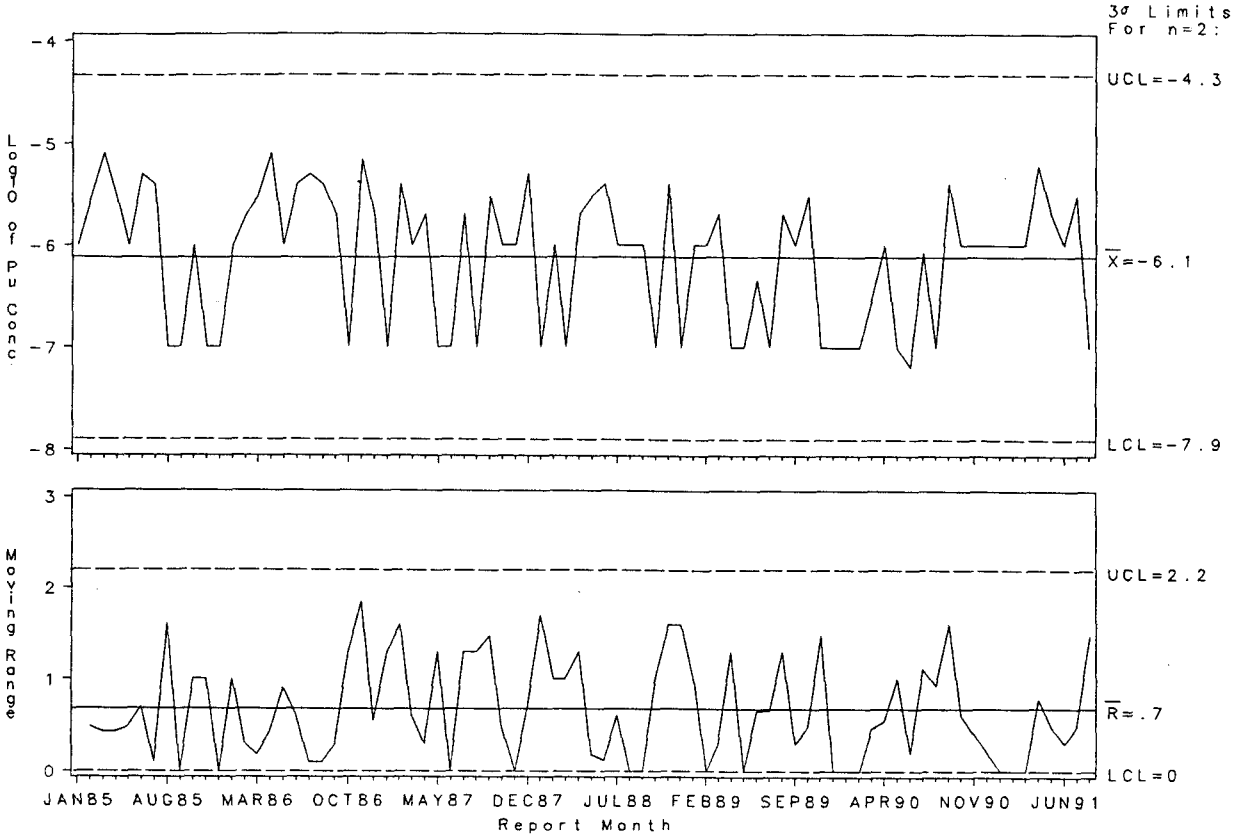


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	-0.000000	0.000002	-.000002	-.000001	0.000004
1986	11	0.000002	0.000002	0.000000	0.000001	0.000005
1987	12	0.000002	0.000003	-.000001	0.000002	0.000008
1988	12	0.000001	0.000002	-.000002	0.000001	0.000004
1989	10	0.000001	0.000001	-.000000	0.000001	0.000003
1990	10	0.000001	0.000001	0.000000	0.000001	0.000003
1991	12	0.000001	0.000002	-.000002	0.000001	0.000004
1992	12	0.000001	0.000001	0.000000	0.000001	0.000002
1993	12	0.000001	0.000001	0.000000	0.000001	0.000003
1994	9	0.000001	0.000001	0.000000	0.000001	0.000002

Air Sampler S-57 Results Jan85-Aug91

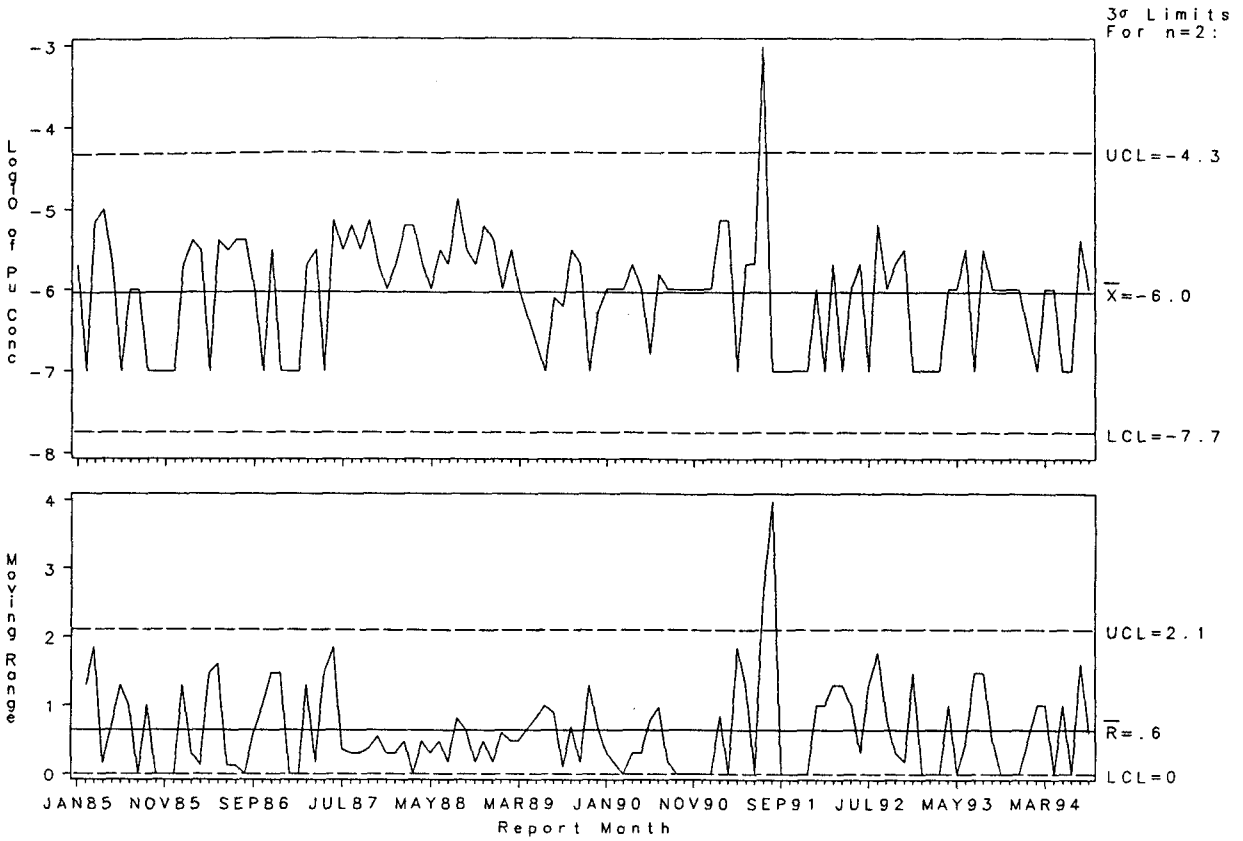


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000003	-.000001	0.000001	0.000008
1986	12	0.000003	0.000002	0.000000	0.000003	0.000008
1987	12	0.000002	0.000002	-.000001	0.000001	0.000005
1988	12	0.000001	0.000002	-.000001	0.000001	0.000004
1989	12	0.000001	0.000002	-.000003	0.000001	0.000003
1990	10	0.000001	0.000001	-.000000	0.000000	0.000004
1991	8	0.000002	0.000002	0.000000	0.000001	0.000006

Air Sampler S-58 Results Jan85-Aug94

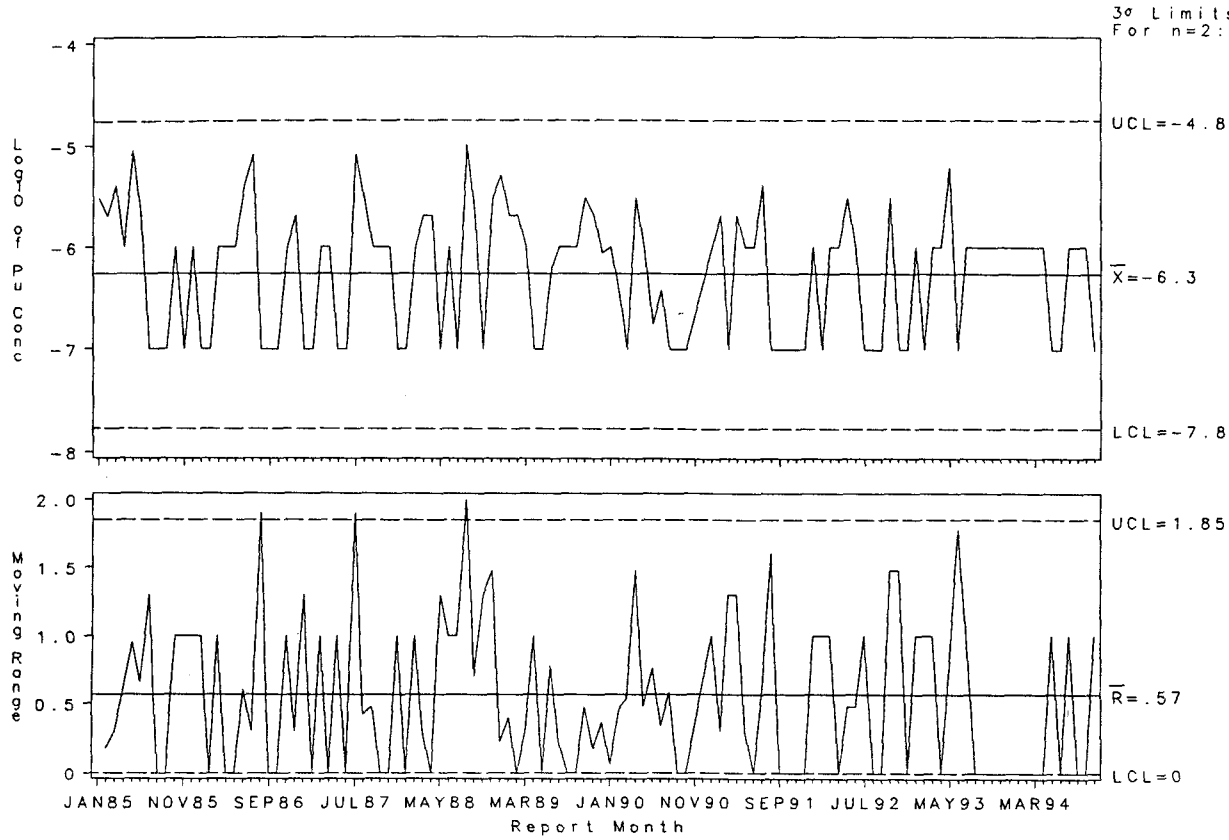


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000004	-.000003	0.000001	0.000010
1986	12	0.000002	0.000002	0.000000	0.000003	0.000004
1987	12	0.000003	0.000003	0.000000	0.000003	0.000007
1988	12	0.000004	0.000003	0.000001	0.000003	0.000013
1989	10	0.000001	0.000001	-.000001	0.000001	0.000003
1990	9	0.000001	0.000000	0.000000	0.000001	0.000002
1991	12	0.000078	0.000268	-.000002	0.000001	0.000928
1992	12	0.000002	0.000002	0.000000	0.000001	0.000006
1993	12	0.000001	0.000001	0.000000	0.000001	0.000003
1994	7	0.000001	0.000001	0.000000	0.000001	0.000004

Air Sampler S-59 Results Jan85-Oct94

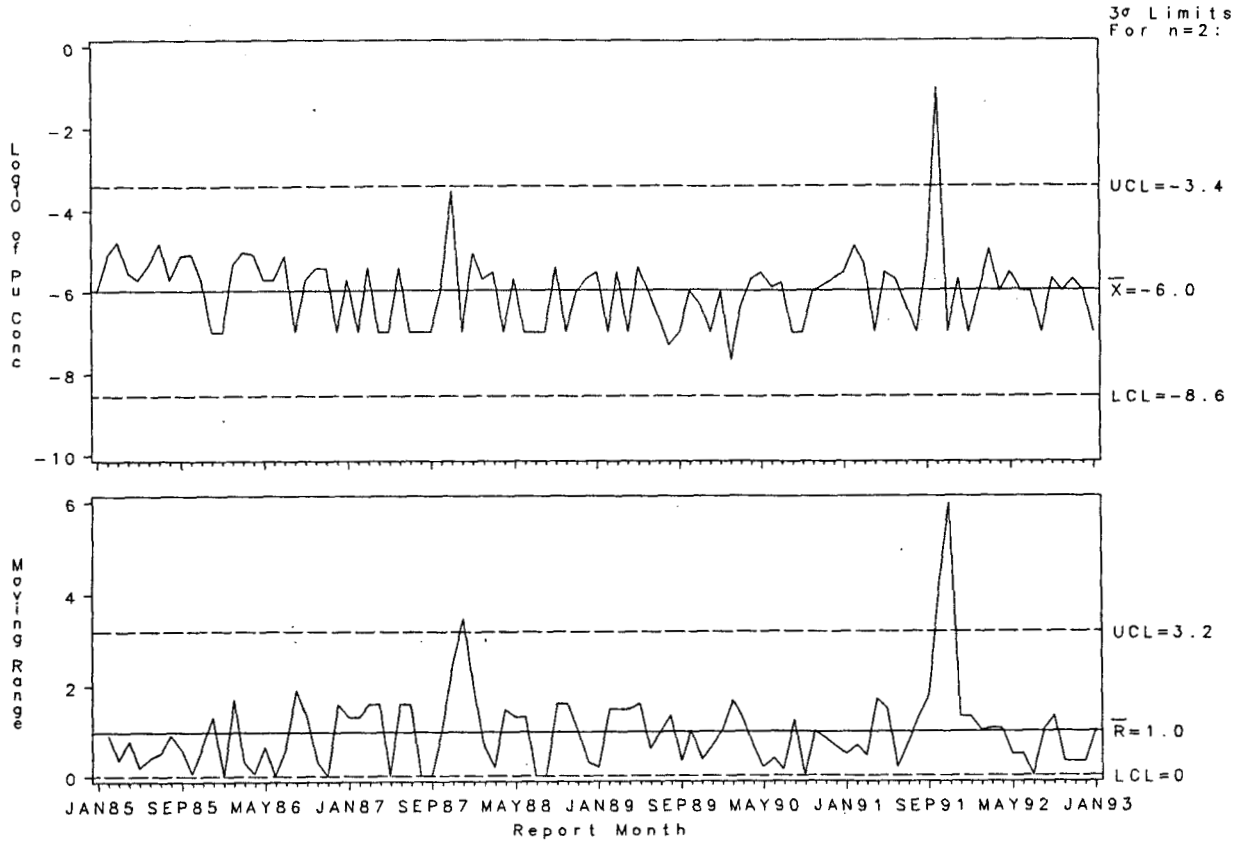


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000003	-.000001	0.000001	0.000009
1986	12	0.000002	0.000002	0.000000	0.000001	0.000008
1987	12	0.000001	0.000002	-.000001	0.000001	0.000008
1988	12	0.000002	0.000003	-.000001	0.000002	0.000010
1989	12	0.000001	0.000001	0.000000	0.000001	0.000003
1990	10	0.000001	0.000001	-.000000	0.000000	0.000003
1991	12	0.000001	0.000002	-.000002	0.000001	0.000004
1992	12	0.000001	0.000001	0.000000	0.000001	0.000003
1993	9	0.000001	0.000002	0.000000	0.000001	0.000006
1994	9	0.000001	0.000001	0.000000	0.000001	0.000001

Air Sampler S-60 Results Jan85-Jan93

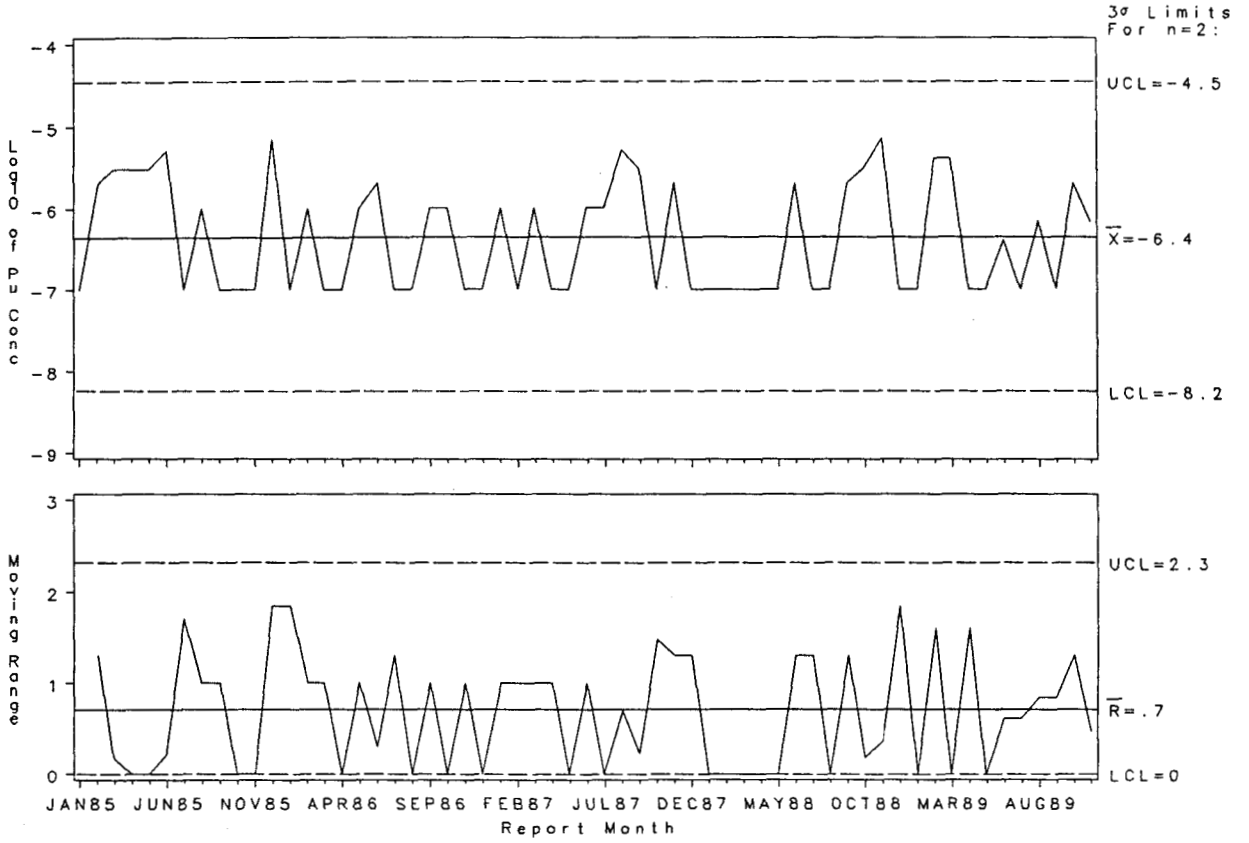


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000006	0.000006	0.000000	0.000004	0.000018
1986	12	0.000004	0.000004	0.000000	0.000003	0.000010
1987	12	0.000026	0.000086	-.000002	0.000000	0.000299
1988	12	0.000002	0.000003	-.000002	0.000002	0.000009
1989	11	0.000001	0.000002	-.000001	0.000000	0.000004
1990	10	0.000001	0.000001	-.000001	0.000001	0.000003
1991	11	0.008336	0.027638	-.000002	0.000003	0.091667
1992	12	0.000002	0.000003	0.000000	0.000001	0.000011
1993	1	0.000000	.	0.000000	0.000000	0.000000

Air Sampler S-61 Results Jan85-Nov89

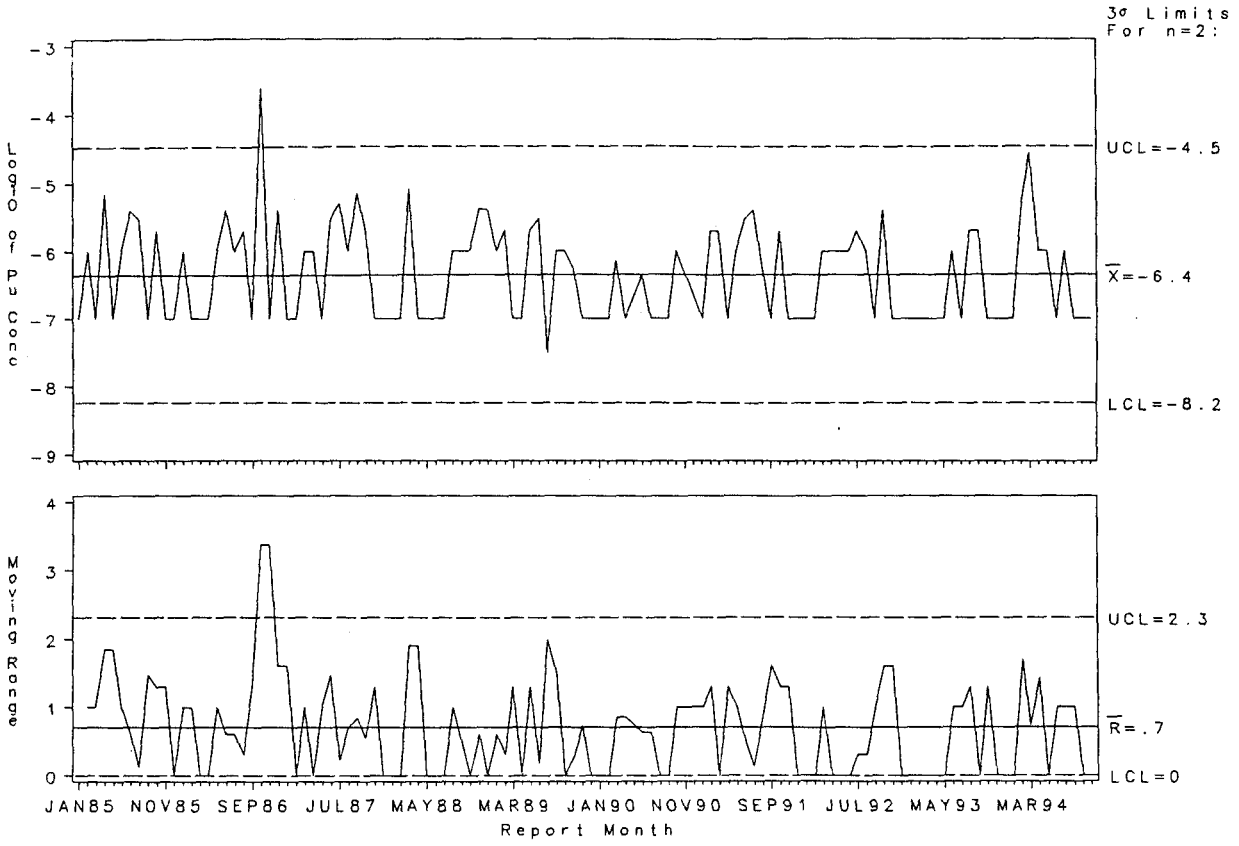


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000003	-.000003	0.000002	0.000007
1986	12	0.000000	0.000001	-.000001	0.000000	0.000002
1987	12	0.000001	0.000003	-.000006	0.000001	0.000005
1988	10	0.000001	0.000003	-.000002	0.000000	0.000007
1989	11	0.000001	0.000002	-.000001	0.000000	0.000004

Air Sampler S-62 Results Jan85-Oct94

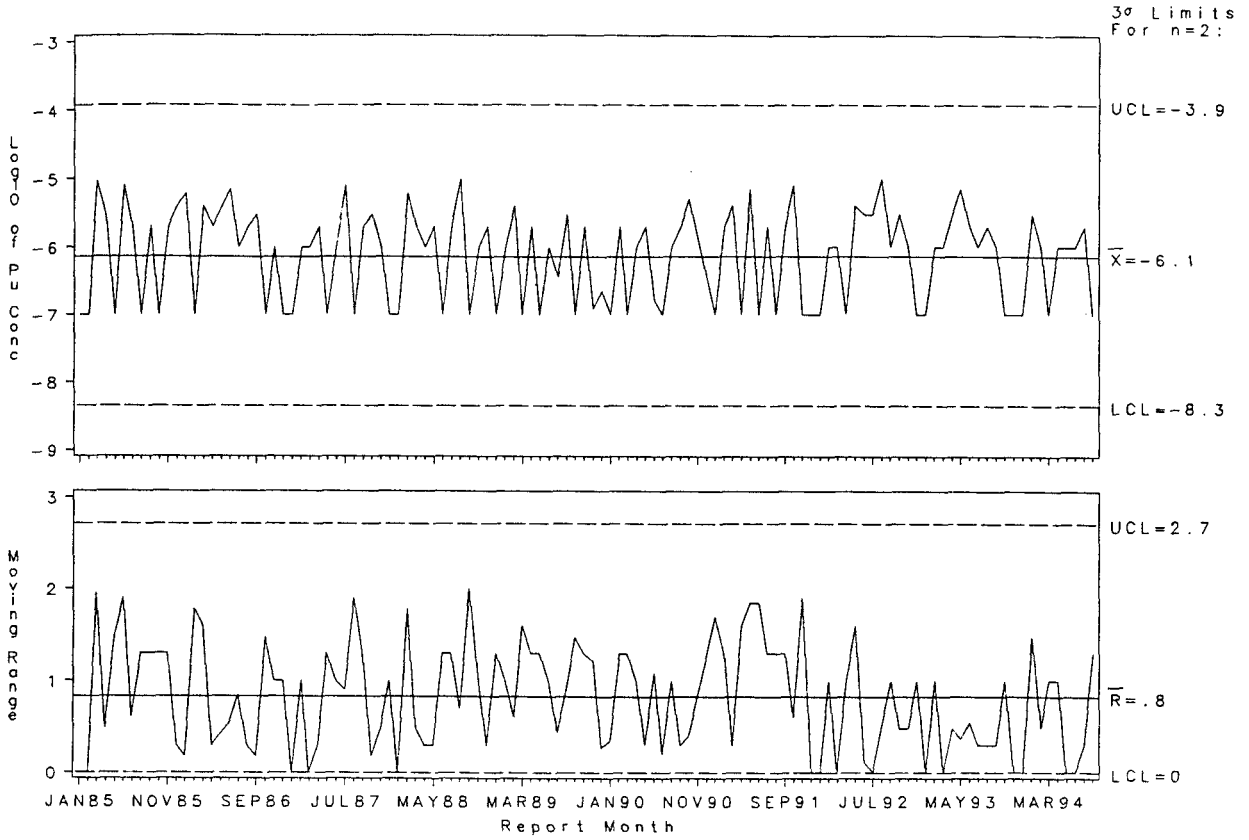


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000001	0.000003	-.000002	0.000001	0.000007
1986	12	0.000020	0.000067	-.000001	0.000001	0.000232
1987	12	0.000001	0.000003	-.000001	0.000001	0.000007
1988	11	0.000001	0.000003	-.000001	0.000000	0.000008
1989	12	0.000001	0.000001	-.000001	0.000001	0.000003
1990	8	-0.000000	0.000001	-.000002	0.000000	0.000001
1991	11	0.000001	0.000001	0.000000	0.000001	0.000004
1992	12	0.000001	0.000001	0.000000	0.000001	0.000004
1993	12	0.000000	0.000001	0.000000	0.000000	0.000002
1994	10	0.000003	0.000008	0.000000	0.000001	0.000027

Air Sampler S-68 Results Jan85-Aug94

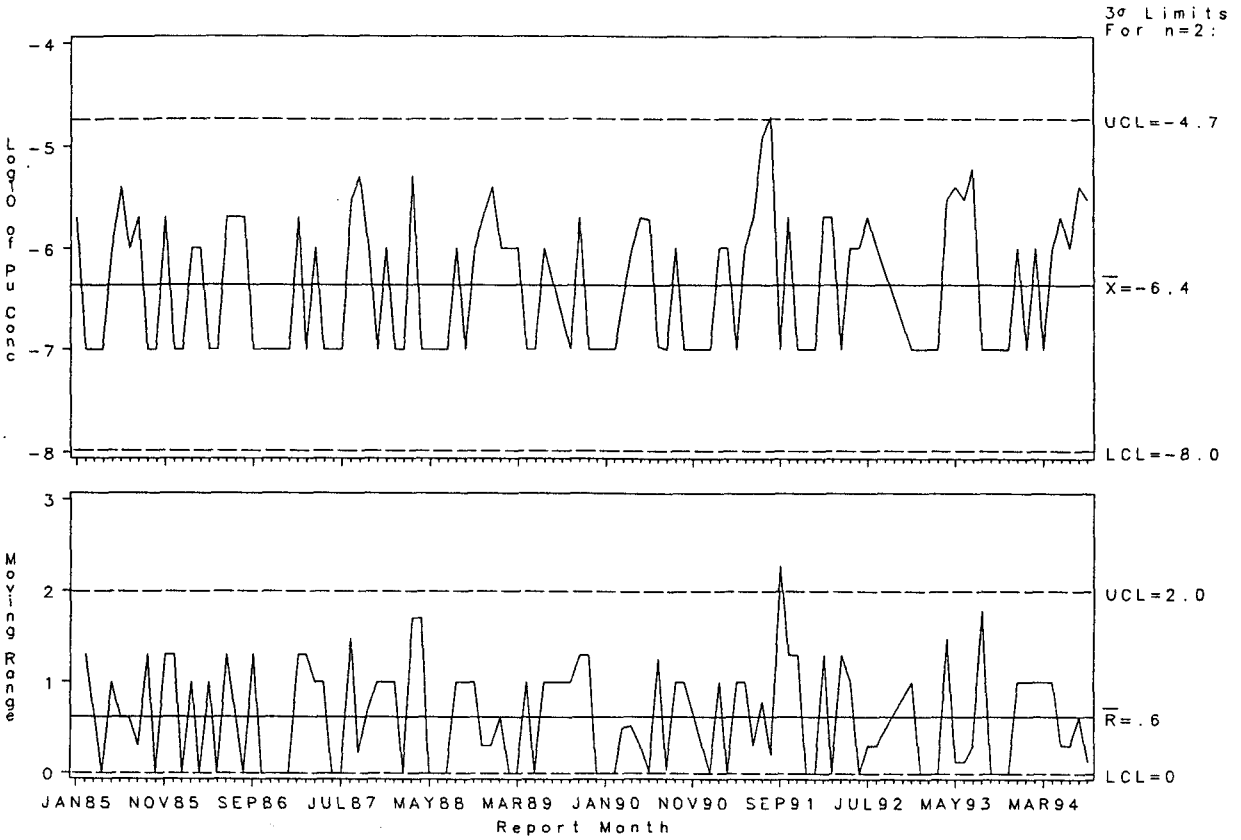


Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	12	0.000002	0.000003	-.000002	0.000002	0.000009
1986	11	0.000002	0.000002	0.000000	0.000002	0.000007
1987	12	0.000002	0.000002	0.000000	0.000001	0.000008
1988	12	0.000002	0.000003	-.000002	0.000002	0.000010
1989	12	0.000001	0.000001	0.000000	0.000001	0.000004
1990	10	0.000001	0.000002	-.000001	0.000001	0.000005
1991	12	0.000002	0.000003	-.000002	0.000001	0.000008
1992	12	0.000002	0.000003	0.000000	0.000001	0.000010
1993	12	0.000002	0.000002	0.000000	0.000001	0.000007
1994	8	0.000001	0.000001	0.000000	0.000001	0.000003

Air Sampler S-73 Results Jan85-Aug94



Annual Summaries

Units are pCi/m^3

Year	N	Mean	Std Dev	Minimum	Median	Maximum
1985	11	0.000001	0.000002	-.000004	0.000001	0.000004
1986	11	0.000000	0.000001	-.000001	0.000000	0.000002
1987	12	0.000001	0.000002	-.000001	0.000001	0.000005
1988	12	0.000001	0.000002	-.000001	0.000000	0.000005
1989	10	0.000000	0.000001	-.000001	0.000001	0.000002
1990	10	0.000000	0.000001	-.000001	0.000000	0.000002
1991	12	0.000003	0.000006	-.000002	0.000001	0.000019
1992	9	0.000001	0.000001	0.000000	0.000001	0.000002
1993	12	0.000001	0.000002	-.000001	0.000000	0.000006
1994	8	0.000002	0.000001	0.000000	0.000001	0.000004

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