Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources.* AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

United States
Environmental Protection
Agency

Office of Air Quality
Planning and Standards
Research Triangle Park NC 27711

EMB Report 91-MWI-9
Volume III
December 1991

Air

Medical Waste Incineration Emission Test Report

Borgess Medical Center
Kalamazoo, Michigan

EPA

MEDICAL WASTE INCINERATION

EMISSION TEST REPORT

Borgess Medical Center
Kalamazoo, Michigan

Volume III

Appendices D - H

Prepared for:

Michael L. Toney
Emissions Measurement Branch
U.S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

Prepared by:

Radian Corporation
1300 Nelson Highway/Chapel Hill Road
Post Office Box 13000
Research Triangle Park, North Carolina 27709

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APPENDIX D

CEM DATA

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CEM TABLES

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORECTED TO 7% OXYGEN----------					
12:15:33	12.53	4.72	14.39	6.11	5.73	161.99		7.847684	23.89865	10.14809	NA	269.06	
12:16:33	12.80	4.63	11.99	6.18	5.57	157.33		7.951024	20.582	10.60026	NA	270.0704	
12:17:33	13.01	4.82	18.65	6.38	5.51	152.96		8.479086	32.84436	11.22481	NA	269.3149	
12:18:33	12.54	5.12	18.45	6.24	6.42	156.27		8.506486	30.68572	10.37424	NA	259.8646	
12:19:33	11.70	4.87	16.71	6.12	6.35	152.43		7.364577	25.25379	9.242813	NA	230.3648	
12:20:33	12.33	5.09	17.64	6.20	5.82	140.77		8.257263	28.6054	10.04548	NA	228.2221	
12:21:33	13.04	4.98	16.91	6.49	5.29	125.32		8.814114	29.92213	11.48802	NA	221.7234	
12:22:32	13.30	4.97	14.95	6.35	5.25	121.81		9.080307	27.34275	11.60641	NA	222.7522	
12:23:01	13.40	4.99	13.55	6.24	5.13	119.14		9.234721	25.10055	11.55023	NA	220.6628	
12:23:16	13.49	4.99	13.27	6.35	5.07	117.03		9.359667	24.89498	11.90503	NA	219.4818	
12:23:30	13.46	4.88	12.93	6.31	5.03	116.70		9.125033	24.16226	11.7945	NA	218.1368	
12:23:45	13.53	4.76	13.11	6.30	4.99	115.72		8.983536	24.72631	11.87935	NA	218.3257	
12:24:00	13.60	4.74	12.60	6.46	4.93	114.45		9.028406	24.00303	12.30551	NA	218.0614	
12:24:15	13.66	4.80	12.87	6.49	4.90	113.80		9.221543	24.70542	12.459	NA	218.4962	
12:24:30	13.73	4.94	12.54	6.57	4.91	112.73		9.586015	24.30646	12.72794	NA	218.5306	
12:25:30	13.68	4.91	11.64	6.82	5.14	110.69		9.440311	22.40123	13.1143	NA	212.9839	
12:26:30	12.46	5.14	11.27	6.56	5.91	113.78		8.454206	18.5577	10.80555	NA	187.3222	
12:27:30	12.39	6.18	9.97	6.57	5.35	106.49		10.09569	16.29898	10.73116	NA	174.0462	
12:28:30	13.53	4.47	6.12	6.68	5.00	101.28		8.437708	11.55096	12.60711	NA	191.0575	
12:29:30	13.21	4.12	2.79	6.62	5.46	97.80		7.440331	5.036905	11.96527	NA	176.8175	
12:30:34	12.31	4.13	4.45	6.30	5.60	95.45		6.677628	7.207479	10.19246	NA	154.5054	
12:31:34	12.95	4.20	6.73	6.44	5.09	84.83		7.345125	11.77079	11.27513	NA	148.4064	
12:32:34	12.87	4.11	6.69	6.50	5.24	88.83		7.102731	11.5795	11.24626	NA	153.7034	
12:33:34	12.84	4.37	6.40	6.47	5.32	92.12		7.53664	11.04124	11.17074	NA	158.9457	
12:34:34	12.27	4.14	3.91	6.41	5.91	99.49		6.666384	6.295061	10.31265	NA	160.1789	
12:35:33	11.93	4.35	2.79	8.40	5.68	98.00	969.88	6.743809	4.316587	13.01023	NA	151.7797	1502.122
12:36:33	12.95	4.31	3.66	6.57	4.95	86.88	970.28	7.531752	6.395287	11.48788	NA	151.931	1696.862
12:37:33	13.71	4.00	5.74	6.83	5.12	82.98	970.24	7.74052	11.0892	13.20542	NA	160.3783	1875.226
12:38:33	12.62	4.17	6.22	6.41	5.40	83.95	969.90	7.004794	10.44805	10.76087	NA	140.9879	1628.809
12:39:33	12.63	3.95	6.29	6.46	5.24	82.72	969.88	6.641541	10.57179	10.84748	NA	138.9743	1629.536
12:40:33	12.86	4.03	4.94	6.42	5.30	82.41	969.71	6.966867	8.535736	11.09364	NA	142.4303	1676.006

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	----------CORECTED TO 7% OXYGEN---------- THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
12:41:33	12.25	4.36	5.16	6.48	5.84	101.84	968.90	7.000337	8.2932	10.40175	NA	163.5692	1556.151
12:42:33	12.96	4.09	3.84	6.42	4.94	89.53	968.94	7.161499	6.715077	11.24336	NA	156.7293	1696.178
12:43:33	13.64	3.96	6.07	6.61	5.15	75.70	969.45	7.582661	11.63465	12.65422	NA	145.0101	1857.141
12:44:33	12.87	3.93	5.36	6.37	5.17	72.43	896.48	6.794635	9.279851	11.02604	NA	125.3704	1551.667
12:45:33	13.00	3.86	3.99	6.36	5.05	71.04	969.25	6.793446	7.027226	11.20085	NA	125.0534	1706.244
12:46:33	13.13	3.82	2.55	6.29	4.88	70.49	860.10	6.826453	4.564839	11.24793	NA	126.0477	1537.919
12:47:33	13.22	3.72	1.75	6.27	4.88	71.87	968.61	6.728876	3.159922	11.34839	NA	130.0355	1752.645
12:48:32	13.01	3.91	2.19	6.34	5.42	76.86	968.24	6.877178	3.858416	11.17042	NA	135.3278	1704.692
12:49:32	12.27	3.86	2.42	6.30	5.38	77.30	968.20	6.223678	3.904518	10.14492	NA	124.489	1559.326
12:50:32	12.99	3.85	2.64	6.56	5.11	75.51	1064.39	6.769921	4.631958	11.52439	NA	132.7065	1870.618
12:51:32	13.12	3.70	3.59	6.83	4.76	73.70	968.16	6.613502	6.415518	12.20113	NA	131.6769	1729.761
12:52:32	13.83	3.65	6.30	6.74	4.58	70.55	967.94	7.181728	12.39161	13.2508	NA	138.6975	1902.859
12:53:32	13.55	3.71	8.55	6.47	4.73	69.39	967.89	7.027937	16.18374	12.23119	NA	131.2813	1831.154
12:54:32	13.44	3.71	8.08	6.54	4.67	68.39	967.83	6.908127	15.05728	12.19498	NA	127.4407	1803.463
12:55:32	13.38	3.89	5.03	6.56	4.74	69.94	1071.66	7.19907	9.307205	12.12612	NA	129.3177	1981.408
12:56:32	12.82	3.97	2.92	6.38	5.77	80.75	944.30	6.8375	5.028487	10.97587	NA	138.9183	1624.529
12:57:32	12.92	3.85	1.66	6.51	4.47	73.71	759.35	6.707352	2.883691	11.34586	NA	128.3782	1322.458
12:58:32	14.53	3.73	1.32	6.68	4.41	68.75	813.52	8.140071	2.885143	14.57798	NA	150.1304	1776.523
12:59:32	13.67	3.73	1.24	6.55	4.84	61.94	751.55	7.164289	2.375417	12.58494	NA	119.0118	1444.051
13:00:32	13.29	3.66	1.79	6.62	4.76	61.74	933.27	6.684963	3.263739	12.09507	NA	112.837	1705.764
13:01:31	13.88	3.64	2.50	6.81	4.37	64.19	751.48	7.210418	4.959295	13.48893	NA	127.1506	1488.553
13:02:31	14.24	3.50	3.42	7.08	4.43	64.03	830.89	7.297791	7.125703	14.7618	NA	133.5577	1733.138
13:03:31	13.41	3.69	4.29	6.95	5.50	71.20	886.83	6.836889	7.956881	12.89251	NA	132.0546	1644.812
13:04:31	12.71	4.00	2.48	6.66	4.66	71.98	750.38	6.789192	4.204917	11.31095	NA	122.1854	1273.701
13:05:31	14.51	3.73	1.43	6.87	3.98	67.40	750.53	8.117549	3.117576	14.94137	NA	146.6048	1632.577
13:06:31	14.67	3.62	1.08	6.97	4.22	66.90	760.61	8.066806	2.403825	15.56105	NA	149.256	1697.051
13:07:31	13.88	3.55	1.29	6.93	4.49	67.26	750.36	7.023751	2.560462	13.7154	NA	133.1776	1485.782
13:08:31	14.10	3.67	1.28	6.97	3.99	64.63	715.99	7.508788	2.623751	14.24675	NA	132.1408	1463.82
13:09:31	14.61	3.61	1.47	7.05	3.89	62.07	740.01	7.966129	3.240227	15.58051	NA	137.1045	1634.669
13:10:31	14.49	3.85	1.98	7.05	4.57	60.36	794.42	8.336496	4.295413	15.2758	NA	130.7974	1721.593
13:11:31	12.84	4.04	1.38	6.87	5.71	79.24	680.82	6.964495	2.383735	11.84099	NA	136.6481	1174.018

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBEk 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								-----CORECTED TO 7% OXYGEN-----					
13:12:31	13.03	3.84	0.62	6.72	4.68	78.66	577.74	6.791909	1.095384	11.87434	NA	138.9739	1020.739
13:13:31	14.44	3.92	0.15	7.03	4.03	72.97	577.85	8.432472	0.322161	15.14762	NA	157.1318	1244.285
13:14:30	14.76	3.88	-0.07	7.20	4.10	66.09	577.94	8.794291	-0.16196	16.30005	NA	149.6102	1308.282
13:15:30	14.23	3.91	0.17	6.92	4.42	67.11	577.92	8.145209	0.348555	14.41841	NA	139.9235	1204.9
13:16:30	13.73	3.90	-0.07	6.90	4.39	66.02	577.93	7.559232	-0.14232	13.3818	NA	127.9953	1120.49
13:17:30	13.81	3.95	0.02	7.01	4.53	58.83	578.12	7.738358	0.032014	13.75001	NA	115.334	1133.381
13:18:30	13.38	4.50	0.33	6.89	5.09	66.61	512.44	8.314769	0.608407	12.73243	NA	123.0605	946.7845
13:19:30	13.94	4.40	0.34	6.99	3.89	62.80	482.62	8.783116	0.67662	13.9546	NA	125.355	963.3487
13:20:30	15.00	3.83	0.41	7.19	4.10	66.82	482.44	9.019984	0.955389	16.92046	NA	157.305	1135.712
13:21:30	13.94	3.88	0.07	7.13	4.42	76.09	482.10	7.748435	0.139943	14.25396	NA	152.0272	963.2855
13:22:30	14.04	3.81	0.35	7.17	4.09	74.80	482.04	7.714222	0.711559	14.51658	NA	151.53	976.5432
13:23:30	14.65	3.71	0.32	7.23	3.88	69.73	482.12	8.259755	0.706186	16.07962	NA	155.0535	1072.136
13:24:30	14.68	3.78	0.47	7.12	4.21	70.23	562.71	8.458308	1.053902	15.91469	NA	156.9979	1257.917
13:25:30	13.39	3.95	1.47	6.89	5.50	89.84	749.88	7.308976	2.713858	12.76174	NA	166.337	1388.463
13:26:30	13.07	4.23	1.62	6.68	4.58	104.33	749.58	7.5017	2.875483	11.85225	NA	185.1141	1330.02
13:27:30	14.53	3.97	1.10	7.04	4.09	95.19	669.47	8.659132	2.388615	15.34647	NA	207.5723	1459.915
13:28:29	14.80	3.89	0.81	7.13	3.99	84.76	685.71	8.858344	1.851279	16.24059	NA	193.0643	1561.871
13:29:29	14.62	3.88	0.84	7.05	4.09	75.12	669.90	8.587674	1.8495	15.60816	NA	166.2898	1482.969
13:30:29	14.52	3.92	0.65	6.90	4.09	66.88	765.31	8.540798	1.411321	15.01493	NA	145.6259	1666.308
13:31:29	14.20	3.92	0.86	6.98	4.36	67.18	780.38	8.120959	1.79098	14.47021	NA	139.3232	1618.378
13:32:29	13.79	4.03	0.58	6.81	4.74	66.95	950.84	7.882774	1.131569	13.31825	NA	130.8501	1858.36
13:33:29	13.77	4.11	0.82	6.73	4.29	58.88	1061.83	8.012333	1.6017	13.12099	NA	114.7491	2069.504
13:34:29	14.65	4.10	1.43	6.87	3.91	50.62	1077.90	9.117482	3.175585	15.27133	NA	112.5305	2396.195
13:35:29	14.43	4.08	1.77	6.94	4.12	53.89	1141.44	8.76792	3.801582	14.93097	NA	115.8678	2454.031
13:36:29	14.32	4.07	2.28	6.98	3.98	50.97	1141.93	8.590645	4.814084	14.75511	NA	107.6882	2412.809
13:37:29	14.85	4.01	4.63	7.04	3.57	42.61	1112.17	9.225977	10.63106	16.18128	NA	97.92964	2555.992
13:38:29	15.13	4.10	2.62	7.10	3.73	46.53	1047.19	9.887698	6.311641	17.11163	NA	112.1394	2523.692
13:39:29	14.35	4.01	4.06	7.11	4.60	55.61	1359.13	8.52215	8.627147	15.0946	NA	118.0753	2886.056
13:40:29	12.92	4.24	5.62	6.97	5.15	71.56	970.21	7.373445	9.786647	12.13167	NA	124.5904	1689.183
13:41:36	13.89	4.06	2.59	7.53	4.07	63.70	857.75	8.044319	5.131379	14.92389	NA	126.2638	1700.191
13:42:36	15.04	4.12	3.69	7.63	4.06	58.59	899.81	9.776799	8.754928	18.08637	NA	138.9132	2133.547

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	----------CORECTED TO 7% OXYGEN---------- THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
13:43:36	14.13	4.11	5.35	7.34	4.56	60.73	936.67	8.437136	10.97627	15.0621	NA	124.6852	1923.222
13:44:36	13.95	4.21	6.09	7.13	4.22	57.59	879.01	8.430511	12.17722	14.26821	NA	115.2055	1758.361
13:45:35	14.59	4.26	7.28	7.30	3.91	54.25	817.25	9.398011	16.05379	16.0864	NA	119.5559	1801.161
13:46:35	14.71	4.42	5.35	7.22	3.93	53.67	804.81	9.934606	12.01741	16.22051	NA	120.5584	1807.705
13:47:35	14.34	4.49	3.67	7.12	4.80	57.57	791.66	9.518655	7.779681	15.08906	NA	121.9809	1677.297
13:48:35	12.92	4.94	2.10	6.94	5.08	60.73	597.54	8.602003	3.661545	12.09771	NA	105.8302	1041.268
13:49:35	14.10	4.62	1.74	7.06	4.03	59.06	576.13	9.434718	3.557589	14.43347	NA	120.7094	1177.419
13:50:35	14.88	4.83	1.57	7.08	3.95	54.87	551.16	11.16216	3.624314	16.35568	NA	126.6923	1272.672
13:51:35	14.39	4.65	1.52	7.09	4.27	57.67	480.78	9.928321	3.240667	15.14154	NA	123.145	1026.556
13:52:35	14.03	4.61	1.42	7.19	4.09	50.05	480.93	9.333635	2.880967	14.53471	NA	101.2416	972.8406
13:53:35	14.54	4.72	1.42	7.20	3.71	47.77	434.98	10.30633	3.100598	15.71683	NA	104.3298	950.0099
13:54:35	14.72	4.76	1.55	7.15	4.28	51.15	473.50	10.70206	3.486773	16.06937	NA	114.9999	1064.626
13:55:35	13.57	4.71	1.49	6.94	4.76	50.90	480.84	8.934099	2.82608	13.15264	NA	96.46553	911.2448
13:56:35	13.51	4.80	1.52	7.08	4.52	48.24	398.93	9.026031	2.866009	13.31735	NA	90.71616	750.1463
13:57:35	14.13	4.72	1.58	7.16	3.96	42.66	373.26	9.697378	3.248612	14.71525	NA	87.62824	766.7269
13:58:34	14.81	4.90	1.64	7.19	3.85	41.57	373.22	11.19279	3.751627	16.42027	NA	94.96229	852.5422
13:59:34	14.56	4.97	1.67	7.04	4.00	43.33	391.33	10.89374	3.652235	15.42955	NA	95.00041	857.9035
14:00:34	14.35	5.16	1.45	7.27	4.03	44.14	373.15	10.95273	3.083826	15.43234	NA	93.63974	791.6047
14:01:34	14.38	5.20	1.85	6.99	4.29	48.17	455.52	11.0819	3.940453	14.91297	NA	102.7038	971.258
14:02:34	13.46	4.68	1.99	6.90	4.77	55.08	425.95	8.756272	3.726076	12.89789	NA	102.9684	796.3211
14:03:34	14.02	4.69	1.93	7.06	4.08	47.67	462.51	9.475083	3.905112	14.25027	NA	96.28389	934.0953
14:04:34	14.43	4.77	1.81	7.55	3.95	46.13	480.62	10.25095	3.887451	16.22843	NA	99.11655	1032.636
14:05:34	14.45	4.85	2.03	7.65	3.95	43.89	480.74	10.44821	4.367757	16.48444	NA	94.56556	1035.875
14:06:34	14.43	4.77	2.16	7.66	3.96	40.43	480.89	10.25363	4.652467	16.47716	NA	86.91353	1033.91
14:07:34	14.38	4.83	2.51	7.33	3.99	41.92	462.68	10.30424	5.351371	15.63924	NA	89.40911	986.729
14:08:34	14.33	4.81	2.08	7.18	4.20	49.87	519.40	10.19009	4.401639	15.19334	NA	105.5783	1099.498
14:09:34	13.35	4.71	2.48	7.03	5.30	67.39	558.95	8.665399	4.571715	12.92773	NA	124.0188	1028.589
14:10:34	12.50	4.60	2.00	6.70	5.42	63.70	575.02	7.605066	3.301835	11.08072	NA	105.4231	951.595
14:11:34	13.36	4.48	1.92	6.57	4.55	54.87	575.24	8.271597	3.54859	12.1274	NA	101.2098	1061.108
14:12:33	13.97	4.26	1.47	6.74	4.53	50.62	575.29	8.5507	2.941964	13.52086	NA	101.532	1153.95
14:13:33	13.63	4.20	1.32	6.61	4.65	52.18	575.23	8.03113	2.513675	12.62671	NA	99.70358	1099.112

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	CORECTED TO 7% OXYGEN: THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
14:14:33	13.51	4.22	1.03	6.55	4.53	55.87	575.06	7.936166	1.934459	12.32155	NA	105.1306	1082.137
14:15:33	13.80	4.23	1.04	6.78	4.34	53.16	510.84	8.27813	2.035485	13.26553	NA	104.031	999.7551
15:28:28	12.87	4.12	6.82	5.60	5.54	72.10	759.46	7.136902	11.81842	9.692069	NA	124.8623	1315.265
15:29:28	12.58	4.09	7.35	5.53	5.27	69.83	759.47	6.830532	12.2808	9.236072	NA	116.6172	1268.383
15:30:27	13.57	4.10	7.31	5.96	4.83	68.13	759.53	7.778587	13.8685	11.29948	NA	129.1831	1440.161
15:31:27	13.46	3.98	9.18	5.93	5.75	73.94	893.68	7.424234	17.13847	11.08217	NA	138.0819	1668.938
15:32:27	11.33	4.29	11.18	5.74	6.83	94.95	1004.50	6.224284	16.2387	8.339444	NA	137.8636	1458.443
15:33:27	11.84	4.18	8.41	5.64	5.80	96.53	1038.20	6.410184	12.90198	8.656856	NA	148.1694	1593.612
15:34:27	13.11	4.12	10.40	5.71	5.38	91.89	1053.79	7.341687	18.55593	10.17837	NA	163.8931	1879.603
15:35:32	13.44	4.16	13.06	5.74	5.17	86.78	1060.09	7.748366	24.34234	10.69232	NA	161.7577	1975.901
15:36:32	13.76	4.14	8.19	5.78	4.96	81.34	950.90	8.063308	15.93382	11.24401	NA	158.3191	1850.777
15:37:32	13.80	4.24	11.66	5.79	5.06	81.54	950.35	8.290526	22.80991	11.32758	NA	159.5343	1859.283
15:38:32	13.05	4.29	12.85	5.64	5.88	86.47	1053.76	7.593797	22.7499	9.989856	NA	153.1168	1865.884
15:39:32	11.70	4.41	14.06	5.55	6.53	99.97	972.32	6.66305	21.23042	8.382268	NA	150.963	1468.3
15:40:32	12.05	4.51	13.24	5.69	5.89	92.21	981.78	7.084873	20.78553	8.940952	NA	144.7636	1541.389
15:41:32	13.06	4.53	13.79	5.78	5.50	87.24	949.76	8.028391	24.4436	10.24766	NA	154.6118	1683.29
15:42:32	13.36	4.54	13.76	5.86	5.34	87.11	949.61	8.370927	25.37145	10.80221	NA	160.6285	1751.051
15:43:32	13.46	4.59	13.06	5.90	5.21	85.76	949.55	8.565287	24.39508	11.00903	NA	160.1414	1773.128
15:44:31	13.63	4.61	12.19	5.91	5.11	85.09	949.38	8.801859	23.30436	11.29538	NA	162.609	1814.307
15:45:31	13.71	4.65	12.26	5.90	5.28	90.28	949.37	8.988068	23.6998	11.40664	NA	174.5639	1835.622
15:46:31	12.65	4.70	9.60	5.85	6.19	102.98	948.78	7.923289	16.1766	9.84928	NA	173.5309	1598.722
15:47:31	12.22	4.60	6.69	5.74	5.60	93.50	943.17	7.374688	10.71693	9.202979	NA	149.772	1510.887
15:48:31	13.51	4.62	6.84	5.91	5.02	85.44	842.74	8.697544	12.86869	11.12125	NA	160.7707	1585.833
15:49:31	13.80	4.56	7.54	5.98	5.06	85.36	811.62	8.929708	14.76986	11.72472	NA	167.2225	1590.035
15:50:31	13.30	4.59	7.67	5.83	5.47	83.37	835.05	8.392143	14.01967	10.66535	NA	152.4726	1527.216
15:51:31	12.59	4.54	5.96	5.75	5.23	77.77	733.81	7.595566	9.974981	9.620671	NA	130.147	1228.068
15:52:31	13.64	4.45	5.84	6.25	4.83	76.00	738.31	8.518931	11.18047	11.9553	NA	145.4511	1412.976
15:53:31	13.13	4.54	7.20	6.21	5.94	86.82	908.19	8.129576	12.88345	11.11823	NA	155.3252	1624.713

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	----------CORECTED TO 7% OXYGEN---------- THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
15:54:31	11.97	4.53	7.41	5.93	5.63	85.07	733.24	7.050158	11.52553	9.231368	NA	132.3819	1141.03
15:55:31	13.50	4.53	7.23	6.01	4.96	79.40	733.35	8.515639	13.58624	11.28814	NA	149.1056	1377.202
15:56:31	13.96	4.61	7.76	6.05	4.89	75.44	733.47	9.236056	15.55197	12.11688	NA	151.1422	1469.418
15:57:30	13.38	4.54	6.00	6.10	5.46	75.99	733.53	8.386512	11.08536	11.27005	NA	140.39	1355.229
15:58:30	12.59	4.51	5.04	6.21	5.28	71.02	733.74	7.539767	8.432316	10.39123	NA	118.8619	1227.987
15:59:30	13.65	4.50	5.32	6.25	4.77	66.14	734.23	8.624974	10.20632	11.98044	NA	126.7693	1407.29
16:00:30	13.41	4.48	7.18	6.07	5.75	73.09	754.33	8.319914	13.32221	11.26433	NA	135.609	1399.578
16:01:30	12.07	4.54	7.31	6.01	5.72	74.61	741.95	7.14044	11.50545	9.464373	NA	117.4233	1167.714
16:02:30	13.27	4.35	5.95	6.07	4.81	67.35	820.86	7.932307	10.85451	11.07105	NA	122.7739	1496.269
16:03:30	13.80	4.22	6.23	6.31	5.18	65.74	850.17	8.255001	12.21008	12.36233	NA	128.7364	1664.903
16:04:30	12.84	4.15	6.52	6.01	5.41	64.83	849.71	7.146811	11.24073	10.35534	NA	111.7632	1464.962
16:05:30	13.13	4.08	6.45	6.07	4.75	62.66	758.34	7.296362	11.53683	10.86357	NA	112.1453	1357.318
16:06:30	14.07	4.03	6.62	6.61	4.72	60.90	758.42	8.20749	13.48158	13.46309	NA	123.9752	1543.858
16:07:30	13.40	4.02	7.04	6.31	5.30	61.61	773.30	7.454028	13.04807	11.68979	NA	114.1208	1432.423
16:08:30	12.33	4.08	7.11	6.15	6.19	76.42	834.17	6.624605	11.53842	9.974229	NA	123.9714	1353.288
16:09:30	11.67	4.12	8.23	6.10	6.65	87.58	849.19	6.203521	12.40247	9.187532	NA	131.9516	1279.496
16:10:29	12.33	4.18	5.52	5.99	5.34	74.21	710.15	6.784842	8.957874	9.71914	NA	120.3704	1151.821
16:11:29	14.12	4.11	3.57	6.11	4.51	61.99	663.17	8.419199	7.308823	12.52911	NA	127.0842	1359.485
16:12:29	14.02	4.05	3.58	6.09	5.16	62.81	663.15	8.185585	7.224871	12.31315	NA	126.9337	1340.076
16:13:29	12.80	4.08	3.79	5.90	5.39	62.00	663.22	7.007272	6.51189	10.1209	NA	106.4035	1138.256
16:14:29	12.95	4.19	4.23	5.90	5.02	59.58	632.69	7.330482	7.399767	10.31309	NA	104.1438	1105.985
16:15:29	13.77	4.14	4.72	6.11	5.06	64.10	726.29	8.069855	9.207724	11.90838	NA	125.0048	1416.479
16:16:29	12.60	4.16	6.00	6.22	5.95	73.29	835.32	6.964198	10.04699	10.42594	NA	122.7758	1399.267
16:17:29	12.70	4.20	5.21	6.06	4.99	65.06	758.25	7.119324	8.838059	10.27419	NA	110.2638	1285.153
16:18:29	14.18	4.18	7.25	6.11	4.69	62.02	758.31	8.643077	15.00519	12.64721	NA	128.2905	1568.561
16:19:29	13.80	4.24	6.05	6.01	5.20	61.61	743.78	8.306086	11.83775	11.76263	NA	120.5596	1455.358
16:20:29	13.12	5.21	5.46	5.85	4.96	59.07	663.29	9.308395	9.750273	10.454	NA	105.5287	1184.981
16:21:29	14.10	4.40	5.59	6.17	4.46	55.83	647.58	9.009386	11.43201	12.62394	NA	114.1981	1324.589
16:22:29	13.97	4.25	6.37	6.18	5.22	59.06	677.43	8.529659	12.76404	12.39464	NA	118.3973	1358.009
16:23:28	12.35	4.25	7.47	6.08	5.80	70.36	695.78	6.911343	12.14029	9.886536	NA	114.4161	1131.505
16:24:28	12.93	4.17	6.02	6.25	5.22	67.30	662.88	7.268064	10.49579	10.90035	NA	117.4222	1156.514

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORECTED TO 7% OXYGEN					
16:25:28	13.60	4.14	5.87	5.95	5.08	64.74	647.24	7.891193	11.16685	11.32145	NA	123.2619	1232.318
16:26:28	13.64	4.11	6.13	5.93	5.06	65.79	571.16	7.868626	11.74139	11.3503	NA	125.9621	1093.522
16:27:28	13.68	4.05	5.43	5.99	5.00	66.18	569.84	7.791284	10.45325	11.53772	NA	127.4394	1097.326
16:28:28	13.71	3.90	4.52	6.04	4.93	65.24	569.89	7.5292	8.728379	11.67926	NA	126.0916	1101.43
16:29:28	13.71	3.82	4.52	6.02	5.24	66.06	614.00	7.383302	8.750602	11.65248	NA	127.7645	1187.52
16:30:28	12.58	4.95	6.09	5.86	6.17	85.07	618.10	8.266731	10.1763	9.783225	NA	142.0518	1032.129
16:31:28	11.98	3.82	6.31	6.17	6.00	96.40	613.42	5.960829	9.833766	9.618371	NA	150.2354	955.9767
16:32:28	12.60	3.65	5.91	6.28	5.73	91.57	662.12	6.114548	9.897611	10.51511	NA	153.4168	1109.33
16:33:28	12.92	3.60	5.97	5.84	5.61	90.88	722.91	6.264823	10.40212	10.18171	NA	158.3633	1259.662
16:34:28	12.98	3.57	6.41	5.83	5.55	89.46	664.51	6.259874	11.25734	10.22916	NA	157.0619	1166.701
16:35:28	13.00	3.51	7.00	5.88	5.51	85.01	738.88	6.183718	12.32245	10.34488	NA	149.6552	1300.718
16:36:27	13.06	3.48	7.59	5.83	5.40	82.90	757.43	6.163834	13.45443	10.32339	NA	146.8875	1342.057
16:37:27	13.08	3.45	9.20	5.92	5.35	81.33	745.23	6.136267	16.35392	10.52417	NA	144.5573	1324.642
16:38:27	13.17	3.45	5.63	6.01	5.20	76.64	710.75	6.211535	10.1315	10.80245	NA	137.8606	1278.504
16:39:27	13.36	3.46	4.62	6.23	5.11	74.48	662.53	6.368996	8.518723	11.47981	NA	137.254	1220.938
16:40:27	13.51	3.45	4.55	6.34	4.95	71.74	662.60	6.498301	8.565603	11.92532	NA	134.9746	1246.68
16:41:27	13.74	3.47	4.32	6.37	4.84	69.32	662.74	6.750299	8.388329	12.38314	NA	134.6588	1287.393
16:42:27	13.79	3.50	4.11	6.59	4.94	70.11	694.78	6.848906	8.030013	12.89343	NA	137.1226	1358.782
16:43:27	13.27	3.54	5.65	6.58	5.48	77.63	619.93	6.448213	10.29022	12.00023	NA	141.4756	1129.749
16:44:27	13.16	3.52	5.57	6.62	5.17	67.15	569.77	6.331157	10.01147	11.89167	NA	120.6609	1023.85
16:45:27	13.73	3.51	4.67	6.41	4.89	61.52	569.93	6.797541	9.042608	12.41992	NA	119.2285	1104.577
(pre & post port change averages)	13.67	4.28	4.25	6.82	4.69	75.51	738.16	8.28	4.72	13.81		127.41	1456.22
	13.15	4.17	7.24	6.02	5.34	76.00	772.93	7.52	12.98	10.87		136.32	1390.89
FINAL AVG	13.47	4.24	5.39	6.51	4.94	75.69	753.31	8.01	9.82	12.38		140.80	1427.75
CV	0.06	0.11	0.77	0.08	0.13	0.29	0.25	0.14	0.74	0.17		0.25	0.26

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								Corrected to 7% Oxygen					
11:33:20	12.46	3.52	0.00	8.05	4.97	94.56	791.14	5.80	0.00	13.25	NA	156	1303
11:34:20	13.57	3.56	0.00	7.28	4.13	109.16	863.16	6.75	0.00	13.80	NA	207	1637
11:35:20	13.84	3.58	0.00	7.22	4.05	111.25	863.06	7.06	0.00	14.22	NA	219	1699
11:36:20	13.72	3.66	0.00	6.81	4.23	109.15	858.98	7.09	0.00	13.19	NA	211	1663
11:37:20	13.18	3.70	0.00	6.78	4.59	90.98	780.15	6.67	0.00	12.20	NA	164	1405
11:38:20	12.68	3.73	0.00	7.04	5.23	105.97	867.25	6.30	0.00	11.90	NA	179	1466
11:39:20	12.17	3.76	0.00	6.77	4.85	106.15	611.30	5.99	0.00	10.78	NA	169	973
11:40:20	13.65	3.76	0.00	6.97	4.54	95.46	585.10	7.21	0.00	13.36	NA	183	1121
11:41:20	12.93	3.79	0.00	6.89	4.66	93.54	585.11	6.61	0.00	12.02	NA	163	1020
11:42:20	13.09	3.76	0.00	6.99	4.49	95.94	603.61	6.69	0.00	12.43	NA	171	1074
11:43:20	13.04	3.77	0.00	7.34	4.86	113.51	645.55	6.67	0.00	12.98	NA	201	1142
11:44:20	12.99	3.74	0.00	7.18	4.58	118.44	692.76	6.58	0.00	12.61	NA	208	1218
11:45:19	13.52	3.80	0.00	7.06	4.65	115.84	676.70	7.15	0.00	13.30	NA	218	1274
11:46:19	12.86	3.80	0.00	7.47	5.04	111.79	663.61	6.56	0.00	12.91	NA	193	1147
11:47:19	12.61	3.78	0.00	7.01	5.43	132.86	704.38	6.34	0.00	11.75	NA	223	1181
11:48:19	12.04	3.75	0.00	6.57	5.36	125.02	791.75	5.88	0.00	10.30	NA	196	1242
11:49:19	13.00	3.74	0.00	6.85	4.98	110.21	861.76	6.58	0.00	12.05	NA	194	1515
11:50:19	13.27	3.71	0.00	6.82	4.75	106.06	861.72	6.76	0.00	12.43	NA	193	1570
11:51:19	13.38	3.71	0.00	6.77	4.68	102.69	895.56	6.85	0.00	12.51	NA	190	1655
11:52:19	13.33	3.70	2.67	6.61	4.83	103.58	954.19	6.79	4.90	12.13	NA	190	1751
11:53:19	12.88	3.71	4.37	6.57	4.87	101.95	877.31	6.43	7.57	11.38	NA	177	1520
11:54:19	12.98	3.70	5.28	6.85	4.83	102.67	894.59	6.49	9.27	12.02	NA	180	1570
11:55:19	12.62	3.73	6.09	6.92	5.49	115.49	842.83	6.26	10.22	11.62	NA	194	1414
11:56:19	12.25	3.74	3.42	6.73	5.15	102.02	753.16	6.02	5.50	10.81	NA	164	1211
11:57:19	12.98	3.70	2.96	6.75	4.86	92.86	740.74	6.50	5.19	11.84	NA	163	1300
11:58:18	12.93	3.72	3.64	6.96	4.91	83.39	721.49	6.49	6.34	12.13	NA	145	1258
11:59:18	13.35	3.74	3.41	7.27	4.27	79.90	708.46	6.90	6.29	13.38	NA	147	1305

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								Corrected to 7% Oxygen					
12:00:18	13.96	3.76	2.90	7.51	4.51	71.22	770.40	7.53	5.81	15.04	NA	143	1542
12:01:18	13.12	3.75	2.47	7.67	4.48	72.41	706.28	6.69	4.41	13.70	NA	129	1262
12:02:18	13.80	3.75	4.77	7.64	4.63	84.29	861.07	7.35	9.35	14.95	NA	165	1685
12:03:18	13.42	3.78	7.53	7.42	4.50	83.05	1082.00	7.03	14.00	13.79	NA	154	2011
12:04:18	13.74	3.79	16.96	7.34	4.55	76.55	1213.41	7.36	32.93	14.25	NA	149	2356
12:05:18	13.63	3.78	21.70	7.13	4.51	81.49	1231.24	7.22	41.49	13.62	NA	156	2354
12:06:18	13.69	3.77	20.98	6.97	4.33	85.40	1142.12	7.27	40.46	13.45	NA	165	2203
12:07:18	13.94	3.77	19.37	7.00	4.20	78.69	1142.22	7.53	38.67	13.97	NA	157	2281
12:08:18	14.02	3.78	18.21	6.99	4.16	72.22	1142.26	7.63	36.80	14.13	NA	146	2308
12:09:18	13.84	3.81	17.39	7.05	4.77	76.70	913.98	7.49	34.23	13.88	NA	151	1799
12:10:18	11.98	3.85	14.18	7.02	5.29	86.62	1535.20	6.00	22.09	10.94	NA	135	2392
12:11:17	13.42	3.92	26.25	10.84	4.45	96.42	1628.16	7.29	48.79	20.15	NA	179	3026
12:12:17	13.79	3.97	26.63	16.51	4.26	91.27	1537.27	7.77	52.04	32.26	NA	178	3005
12:13:17	14.03	4.04	21.30	9.22	4.09	86.54	1348.06	8.17	43.10	18.66	NA	175	2727
12:14:17	13.86	4.06	17.08	9.03	4.29	84.27	1347.76	8.01	33.71	17.82	NA	166	2660
12:15:20	13.71	4.08	14.48	8.68	4.19	79.56	1335.63	7.89	28.01	16.78	NA	154	2584
12:16:20	13.75	4.11	13.18	8.33	4.31	78.50	1355.68	7.99	25.61	16.17	NA	153	2634
12:17:20	13.02	4.13	13.96	8.01	5.40	81.96	1217.91	7.28	24.61	14.13	NA	144	2147
12:18:20	12.70	4.15	11.31	8.01	4.82	88.39	1162.39	7.03	19.16	13.57	NA	150	1969
12:19:20	13.54	4.16	10.46	7.59	4.37	88.52	1093.82	7.87	19.75	14.34	NA	167	2066
12:20:20	14.04	4.16	9.09	7.17	4.02	82.21	972.79	8.43	18.42	14.53	NA	167	1971
12:21:19	14.12	4.16	8.64	7.22	4.07	79.06	972.57	8.53	17.71	14.80	NA	162	1993
12:22:19	13.73	4.13	6.57	7.16	4.51	72.07	972.74	8.02	12.74	13.89	NA	140	1887
12:23:19	13.19	4.12	5.25	7.23	4.60	74.98	1068.67	7.42	9.47	13.03	NA	135	1926
12:24:19	12.98	4.08	6.61	7.24	4.44	73.49	787.49	7.17	11.59	12.70	NA	129	1382
12:25:19	14.19	4.07	5.71	7.65	4.09	63.38	757.59	8.43	11.83	15.86	NA	131	1569
12:26:19	13.39	4.10	4.53	7.33	4.35	62.88	757.30	7.58	8.39	13.57	NA	116	1401

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								Corrected to 7% Oxygen					
12:27:19	13.69	4.21	3.67	7.94	4.09	68.85	904.40	8.11	7.08	15.31	NA	133	1744
12:28:19	13.66	4.19	1.44	10.45	4.52	80.91	824.12	8.05	2.76	20.08	NA	155	1583
12:29:19	13.59	4.13	0.69	9.24	4.32	83.26	756.02	7.87	1.31	17.57	NA	158	1438
12:30:19	13.77	4.10	2.27	7.99	4.28	86.84	792.59	7.99	4.43	15.56	NA	169	1544
12:31:19	13.37	4.06	3.85	7.54	4.96	99.95	854.03	7.50	7.12	13.93	NA	185	1578
12:32:19	12.86	4.01	2.52	7.36	4.48	97.40	766.47	6.93	4.36	12.72	NA	168	1325
12:33:19	13.73	3.99	2.85	7.04	4.24	95.47	843.29	7.73	5.52	13.64	NA	185	1635
12:34:18	13.88	3.97	2.48	6.98	4.21	95.09	857.29	7.87	4.92	13.84	NA	188	1699
12:35:18	13.85	3.96	1.78	6.84	4.25	97.51	857.19	7.80	3.50	13.48	NA	192	1690
12:36:18	13.61	3.91	2.98	6.68	4.50	96.63	857.21	7.45	5.67	12.72	NA	184	1633
12:37:18	13.10	3.89	1.39	6.61	4.63	94.37	811.82	6.93	2.47	11.79	NA	168	1447
12:38:18	13.16	3.88	2.17	6.73	4.54	95.26	873.51	6.98	3.89	12.09	NA	171	1569
12:39:18	13.01	3.93	3.68	6.79	5.27	105.15	933.35	6.92	6.49	11.97	NA	185	1645
12:40:18	12.70	4.00	2.18	6.82	4.99	91.80	1173.38	6.79	3.70	11.56	NA	156	1989
12:41:18	13.16	4.11	5.59	7.05	4.76	89.50	1245.91	7.38	10.04	12.66	NA	161	2238
12:42:18	13.32	4.12	11.42	6.95	4.69	88.99	1245.76	7.56	20.94	12.74	NA	163	2285
12:43:18	13.35	4.17	12.81	6.80	4.61	88.17	1157.23	7.68	23.58	12.51	NA	162	2130
12:44:18	13.41	4.15	11.42	6.80	4.58	89.43	1094.25	7.71	21.20	12.62	NA	166	2031
12:45:18	13.40	4.12	9.52	6.68	4.58	91.17	1061.18	7.63	17.64	12.39	NA	169	1967
12:46:18	13.20	4.35	10.49	6.64	5.02	97.79	1319.37	7.85	18.93	11.99	NA	177	2382
12:47:17	13.07	5.10	9.63	6.86	4.06	79.02	967.76	9.04	17.10	12.17	NA	140	1717
12:48:17	14.27	5.48	6.61	7.08	3.89	78.73	967.59	11.49	13.87	14.86	NA	165	2030
12:49:17	14.01	5.81	5.92	6.86	4.17	83.63	967.36	11.72	11.95	13.83	NA	169	1951
12:50:17	13.72	6.07	6.75	6.77	4.33	86.44	966.99	11.75	13.07	13.12	NA	167	1873
12:51:17	13.44	5.81	6.35	6.71	4.48	92.58	966.56	10.84	11.84	12.50	NA	173	1802
12:52:17	13.29	5.30	6.67	6.64	4.59	92.97	966.11	9.68	12.18	12.13	NA	170	1764
12:53:17	13.15	4.98	3.93	6.60	4.64	87.73	966.03	8.94	7.04	11.83	NA	157	1733

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,w	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								Corrected to 7% Oxygen					
12:54:17	13.18	4.77	3.06	6.58	4.57	86.46	965.92	8.58	5.50	11.83	NA	156	1738
12:55:17	13.27	4.60	5.43	6.72	4.54	86.07	965.69	8.38	9.89	12.25	NA	157	1760
12:56:17	13.21	4.46	4.72	6.63	4.63	88.02	965.44	8.07	8.53	11.98	NA	159	1745
12:57:17	13.15	4.37	4.64	6.51	4.61	89.84	965.30	7.84	8.33	11.68	NA	161	1731
12:58:17	13.16	4.28	6.49	6.46	4.56	91.42	964.94	7.68	11.65	11.61	NA	164	1733
12:59:17	13.27	4.22	6.86	6.45	4.51	92.51	964.74	7.70	12.50	11.75	NA	169	1758
13:00:16	13.13	4.22	7.54	6.64	4.84	98.29	928.09	7.55	13.49	11.88	NA	176	1661
13:01:16	12.76	4.20	8.89	6.58	4.84	97.22	927.56	7.17	15.17	11.23	NA	166	1583
13:02:16	12.88	4.16	7.57	6.51	4.75	94.04	757.66	7.21	13.12	11.29	NA	163	1313
13:03:16	13.04	4.17	7.07	6.53	4.68	90.82	749.75	7.39	12.52	11.55	NA	161	1326
13:04:16	13.08	4.19	6.32	6.60	4.67	88.49	749.76	7.46	11.24	11.73	NA	157	1333
13:05:16	13.13	4.19	6.35	6.73	4.58	86.53	749.49	7.50	11.36	12.04	NA	155	1342
13:06:16	13.29	4.14	3.89	6.65	4.49	84.69	749.47	7.57	7.11	12.16	NA	155	1369
13:07:16	13.35	4.12	2.07	6.67	4.43	83.28	749.26	7.58	3.80	12.28	NA	153	1379
13:08:16	13.40	4.07	3.19	6.77	4.34	81.60	749.44	7.54	5.92	12.55	NA	151	1390
13:09:16	13.51	4.04	3.78	6.79	4.29	81.18	749.24	7.61	7.11	12.77	NA	153	1410
13:10:16	13.59	4.00	3.92	6.79	4.22	80.36	749.11	7.61	7.45	12.91	NA	153	1424
13:11:16	13.68	4.00	4.08	6.77	4.17	78.83	749.26	7.71	7.86	13.05	NA	152	1443
13:12:16	13.72	3.96	3.78	6.79	4.14	78.39	749.01	7.67	7.33	13.16	NA	152	1451
13:13:15	13.71	3.97	4.62	6.72	4.11	78.40	748.96	7.67	8.93	13.01	NA	152	1449
13:14:15	13.80	3.94	5.56	6.80	4.04	74.15	748.96	7.72	10.89	13.32	NA	145	1467
13:15:15	13.88	3.96	5.35	6.91	3.99	72.23	749.06	7.84	10.61	13.70	NA	143	1484
13:16:15	13.93	4.02	4.43	6.97	3.95	71.25	748.97	8.01	8.84	13.91	NA	142	1494
13:17:15	13.96	4.03	3.17	6.99	3.92	71.06	748.70	8.06	6.36	14.00	NA	142	1500
13:18:15	14.00	4.02	2.20	7.07	3.87	69.55	698.96	8.09	4.43	14.24	NA	140	1409
13:19:15	14.04	3.99	2.28	7.11	3.83	68.11	608.32	8.07	4.62	14.41	NA	138	1232
13:20:15	14.09	3.99	2.42	7.14	3.78	66.74	652.01	8.15	4.94	14.58	NA	136	1331

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	Corrected to 7% Oxygen: THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
13:21:15	14.05	3.99	2.77	7.42	4.07	68.01	697.17	8.09	5.61	15.06	NA	138	1414
13:22:15	13.01	3.99	3.97	8.32	5.29	84.89	706.14	7.03	6.99	14.66	NA	149	1243
13:23:15	12.40	3.98	3.77	10.49	4.80	81.50	667.85	6.50	6.16	17.16	NA	133	1092
13:24:15	13.74	4.00	3.15	7.87	4.02	72.65	667.95	7.77	6.11	15.28	NA	141	1296
13:25:15	14.12	4.05	3.26	8.02	3.80	68.83	660.35	8.32	6.68	16.45	NA	141	1355
13:26:14	14.25	4.03	3.27	8.08	3.76	66.96	591.10	8.44	6.84	16.90	NA	140	1236
13:27:14	14.07	4.00	2.82	7.71	4.12	66.25	575.27	8.14	5.73	15.70	NA	135	1171
13:28:14	13.33	4.01	2.33	7.05	4.17	65.22	559.17	7.37	4.28	12.94	NA	120	1027
13:29:14	13.85	4.04	2.33	7.28	4.15	69.89	660.47	7.96	4.59	14.36	NA	138	1302
13:30:14	12.98	4.05	2.65	7.36	4.92	79.30	651.56	7.12	4.66	12.92	NA	139	1144
13:31:14	13.02	4.11	2.68	7.67	4.22	76.32	581.11	7.24	4.73	13.53	NA	135	1025
13:32:14	13.99	4.20	2.53	8.58	3.88	70.40	659.58	8.45	5.08	17.26	NA	142	1327
13:33:14	14.11	4.22	2.48	8.52	3.98	67.13	667.14	8.64	5.07	17.44	NA	137	1366
13:34:14	13.41	4.19	2.74	7.64	4.43	66.76	667.20	7.78	5.09	14.18	NA	124	1239
13:35:14	13.45	4.15	2.79	7.84	3.79	62.20	667.20	7.74	5.20	14.64	NA	116	1245
13:36:14	14.21	4.13	2.86	8.08	3.96	61.74	667.15	8.57	5.93	16.77	NA	128	1385
13:37:14	13.38	4.15	3.80	7.37	4.77	68.72	731.03	7.68	7.02	13.62	NA	127	1350
13:38:14	11.88	4.17	5.21	7.05	5.90	74.64	560.93	6.43	8.03	10.86	NA	115	864
13:39:13	12.78	4.17	4.01	7.37	4.76	65.51	479.85	7.15	6.87	12.63	NA	112	822
13:40:13	13.80	4.15	3.93	8.20	4.41	61.87	479.87	8.13	7.70	16.07	NA	121	940
13:41:13	13.48	4.13	3.14	9.31	4.57	63.17	479.68	7.73	5.88	17.42	NA	118	898
13:42:13	14.14	4.15	2.48	9.29	3.80	55.53	479.68	8.53	5.11	19.12	NA	114	987
13:43:13	13.91	4.18	2.36	7.42	3.94	54.72	391.79	8.31	4.68	14.74	NA	109	779
13:44:13	13.55	4.21	3.54	7.73	4.94	69.30	564.58	7.96	6.70	14.61	NA	131	1068
13:45:13	12.16	4.26	3.24	7.53	4.86	86.36	557.62	6.77	5.15	11.97	NA	137	886
13:46:13	13.43	4.27	3.21	7.36	4.36	79.06	557.80	7.94	5.97	13.69	NA	147	1038
13:47:13	13.78	4.27	3.34	7.19	4.25	74.87	593.87	8.35	6.53	14.04	NA	146	1160

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								Corrected to 7% Oxygen					
13:48:13	13.63	4.31	3.72	7.07	4.75	86.90	706.40	8.25	7.11	13.52	NA	166	1351
13:49:13	13.30	4.33	4.23	7.25	4.70	93.15	883.28	7.92	7.73	13.26	NA	170	1615
13:50:13	13.47	4.32	4.30	7.58	4.50	88.49	851.25	8.08	8.04	14.18	NA	166	1592
13:51:13	13.69	4.31	4.66	7.48	4.31	81.55	835.58	8.30	8.98	14.42	NA	157	1611
13:52:12	13.91	4.25	5.10	7.84	4.15	77.41	770.47	8.45	10.14	15.59	NA	154	1533
13:53:12	14.06	4.24	5.72	7.77	4.04	74.86	760.16	8.63	11.64	15.80	NA	152	1546
13:54:12	14.10	4.31	5.44	7.70	4.07	72.91	778.79	8.81	11.12	15.76	NA	149	1593
13:55:12	13.53	4.31	5.23	7.38	5.05	82.97	797.61	8.13	9.86	13.91	NA	156	1504
13:56:12	12.70	4.33	4.49	7.80	4.49	96.69	696.95	7.34	7.62	13.21	NA	164	1181
13:57:12	13.86	4.34	4.49	9.13	4.21	99.26	715.95	8.58	8.87	18.05	NA	196	1415
13:58:12	14.02	4.33	4.07	9.52	4.02	86.79	676.74	8.75	8.22	19.25	NA	175	1368
13:59:12	14.14	4.33	3.40	9.45	3.94	77.32	665.19	8.90	6.99	19.42	NA	159	1368
14:00:12	13.82	4.33	3.51	8.14	4.39	75.38	665.19	8.50	6.89	15.98	NA	148	1306
14:01:12	13.28	4.33	3.51	7.60	4.18	72.95	649.27	7.90	6.41	13.87	NA	133	1185
14:02:12	13.90	4.35	3.58	7.49	4.22	73.92	713.06	8.64	7.11	14.88	NA	147	1417
14:03:12	12.96	4.39	3.78	7.67	4.96	79.62	533.91	7.69	6.62	13.43	NA	139	935
14:04:12	13.70	4.41	3.17	8.77	3.86	62.32	477.82	8.52	6.13	16.93	NA	120	923
14:05:11	14.16	4.42	2.63	7.64	4.13	56.15	477.88	9.11	5.42	15.76	NA	116	985
14:06:11	13.60	4.39	2.41	7.43	3.99	54.65	477.77	8.37	4.59	14.15	NA	104	910
14:07:11	14.40	4.43	2.24	7.59	3.50	52.71	477.70	9.46	4.78	16.22	NA	113	1021
14:08:11	14.21	4.40	1.99	7.62	3.98	50.27	477.57	9.14	4.14	15.84	NA	104	993
14:09:11	14.01	4.36	2.08	7.65	3.58	50.56	492.87	8.79	4.20	15.44	NA	102	994
14:10:11	14.46	4.30	2.83	7.83	4.44	57.57	505.30	9.29	6.11	16.90	NA	124	1091
14:11:11	13.51	4.31	2.52	7.58	4.27	52.42	370.27	8.12	4.74	14.25	NA	99	697
14:12:11	14.35	4.36	2.30	7.47	3.63	51.24	370.25	9.26	4.87	15.83	NA	109	785
14:13:11	14.75	4.44	2.26	7.35	3.37	50.52	370.11	10.02	5.10	16.61	NA	114	836
14:14:11	14.99	4.43	2.16	7.23	3.27	49.77	370.95	10.42	5.08	16.99	NA	117	872

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	Corrected to 7% Oxygen: THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
14:15:11	14.84	4.46	1.98	7.26	3.62	48.72	385.73	10.23	4.54	16.64	NA	112	884
14:16:11	14.08	4.45	2.11	7.62	3.58	49.68	370.03	9.08	4.30	15.53	NA	101	754
14:17:11	14.47	4.40	2.87	7.76	3.87	53.19	442.78	9.50	6.19	16.75	NA	115	956
14:18:11	13.44	4.35	3.91	9.17	5.00	56.12	404.28	8.11	7.27	17.08	NA	105	753
14:19:10	13.50	4.32	3.63	8.22	4.40	50.39	369.89	8.11	6.82	15.45	NA	95	695
14:20:10	14.13	4.32	3.34	7.72	4.03	50.87	369.79	8.87	6.85	15.84	NA	104	759
14:21:10	14.44	4.35	2.95	7.55	3.70	51.74	369.68	9.35	6.35	16.25	NA	111	795
14:22:10	14.73	4.33	3.17	7.34	3.49	51.07	369.68	9.76	7.13	16.54	NA	115	833
14:23:10	14.84	4.35	2.81	7.28	3.51	49.94	369.64	9.96	6.45	16.68	NA	114	847
14:24:10	14.21	4.28	2.64	7.48	4.25	50.38	423.15	8.88	5.48	15.54	NA	105	879
14:25:10	13.24	4.25	4.12	8.49	4.60	67.78	459.10	7.71	7.47	15.39	NA	123	833
											NA		
											NA		
15:42:32	13.85	5.14	2.32	7.77	4.04	50.15	752.33	10.13	4.57	15.32	NA	99	1484
15:43:32	13.90	5.43	2.65	8.27	4.41	56.12	915.71	10.79	5.26	16.43	NA	111	1819
15:44:32	13.34	5.99	2.73	13.35	4.37	61.53	1126.57	11.00	5.02	24.53	NA	113	2070
15:45:32	14.49	6.24	1.97	9.74	3.70	50.10	936.16	13.52	4.28	21.12	NA	109	2030
15:46:32	14.48	6.34	1.44	7.98	3.66	49.85	781.27	13.73	3.12	17.26	NA	108	1691
15:47:32	14.43	6.64	2.54	8.07	4.25	60.10	846.20	14.28	5.46	17.34	NA	129	1819
15:48:32	13.20	6.78	3.22	8.07	5.10	90.78	923.74	12.23	5.82	14.57	NA	164	1667
15:49:32	13.08	7.05	4.19	7.05	5.00	104.81	937.65	12.54	7.45	12.53	NA	186	1667
15:50:32	13.19	7.21	4.90	6.84	4.91	103.26	937.59	12.99	8.82	12.32	NA	186	1690
15:51:32	13.28	7.00	6.10	6.83	4.82	102.56	937.49	12.78	11.12	12.46	NA	187	1710
15:52:32	13.42	6.74	5.77	6.81	4.71	100.43	937.49	12.52	10.73	12.66	NA	187	1743
15:53:32	13.47	6.63	6.32	6.78	4.63	98.66	858.82	12.41	11.84	12.69	NA	185	1607
15:54:32	13.58	6.58	7.91	6.78	4.53	94.25	842.87	12.50	15.02	12.88	NA	179	1601
15:55:32	13.69	6.74	7.18	6.85	4.43	90.25	890.86	12.98	13.83	13.19	NA	174	1717

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	Corrected to 7% Oxygen: THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
15:56:31	13.87	6.68	5.87	6.83	4.37	88.28	842.97	13.20	11.59	13.50	NA	174	1666
15:57:31	13.89	6.68	3.90	6.96	4.31	88.74	812.69	13.26	7.74	13.81	NA	176	1612
15:58:31	13.95	6.70	1.67	6.96	4.22	85.82	751.32	13.40	3.34	13.92	NA	172	1502
15:59:31	14.05	6.79	1.41	6.98	4.13	80.92	751.39	13.76	2.85	14.16	NA	164	1524
16:00:31	14.12	6.91	1.39	7.22	4.07	78.87	687.97	14.17	2.86	14.80	NA	162	1411
16:01:31	14.16	7.10	1.42	7.19	3.98	75.99	688.66	14.65	2.94	14.84	NA	157	1421
16:02:31	14.21	7.16	1.91	7.16	3.88	73.19	657.47	14.87	3.97	14.88	NA	152	1365
16:03:31	14.37	7.32	2.93	7.15	3.74	68.96	641.94	15.60	6.24	15.23	NA	147	1367
16:04:31	14.55	7.53	2.51	7.29	3.64	64.16	595.29	16.50	5.50	15.96	NA	141	1304
16:05:31	14.48	7.84	2.24	7.22	3.84	61.53	628.21	16.97	4.85	15.63	NA	133	1359
16:06:31	14.16	8.09	1.74	7.02	3.82	60.04	580.81	16.69	3.59	14.46	NA	124	1197
16:07:31	14.52	8.20	1.23	7.32	3.47	58.03	565.31	17.88	2.67	15.95	NA	126	1232
16:08:31	14.44	8.32	0.78	7.30	4.26	60.95	641.08	17.88	1.68	15.71	NA	131	1378
16:09:30	12.70	8.69	0.00	9.04	5.64	76.02	581.54	14.73	0.00	15.32	NA	129	985
16:10:30	12.99	8.97	0.00	10.03	4.57	73.62	656.25	15.77	0.00	17.63	NA	129	1153
16:11:30	14.12	8.68	0.00	9.32	4.27	71.39	657.34	17.79	0.00	19.11	NA	146	1348
16:12:30	14.21	8.64	0.00	8.99	4.04	71.98	657.30	17.94	0.00	18.68	NA	150	1365
16:13:30	14.34	8.55	0.00	7.89	3.92	72.24	657.32	18.14	0.00	16.72	NA	153	1394
16:14:30	14.40	8.47	0.00	7.41	3.86	72.70	657.28	18.10	0.00	15.85	NA	155	1405
16:15:30	14.23	8.45	0.00	7.28	4.21	78.83	685.98	17.62	0.00	15.19	NA	164	1431
16:16:30	13.47	8.50	0.00	8.32	4.97	90.93	615.82	15.89	0.00	15.55	NA	170	1152
16:17:30	13.64	8.44	0.00	11.72	4.24	75.48	564.74	16.15	0.00	22.42	NA	144	1081
16:18:30	14.37	8.39	0.00	8.34	3.88	73.04	564.76	17.87	0.00	17.75	NA	156	1203
16:19:30	14.47	8.28	0.00	8.11	3.99	75.12	564.61	17.89	0.00	17.51	NA	162	1220
16:20:30	14.06	8.42	0.00	7.89	4.11	78.07	564.59	17.12	0.00	16.04	NA	159	1148
16:21:30	14.27	8.54	0.00	7.54	3.72	76.38	564.58	17.91	0.00	15.81	NA	160	1184
16:22:29	14.44	8.43	0.00	7.71	3.95	78.71	564.46	18.15	0.00	16.59	NA	169	1215

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BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								Corrected to 7% Oxygen					
16:23:29	14.15	8.58	0.00	8.07	3.97	82.15	607.05	17.65	0.00	16.61	NA	169	1250
16:24:29	14.02	8.57	0.00	15.62	4.40	83.34	668.44	17.30	0.00	31.55	NA	168	1350
16:25:29	14.10	8.57	0.00	10.80	3.87	67.51	898.52	17.50	0.00	22.08	NA	138	1836
16:26:29	14.68	8.49	0.00	7.70	3.71	59.71	937.43	19.00	0.00	17.22	NA	134	2097
16:27:29	14.41	9.54	0.00	7.48	3.61	57.87	937.20	20.42	0.00	16.01	NA	124	2007
16:28:29	14.90	8.69	0.00	7.26	3.36	60.87	937.41	20.15	0.00	16.83	NA	141	2172
16:29:29	14.93	9.03	0.51	7.07	3.55	61.22	937.24	21.03	1.20	16.47	NA	143	2183
16:30:29	14.62	8.89	0.04	7.05	3.55	66.01	990.00	19.67	0.09	15.58	NA	146	2190
16:31:29	14.15	8.56	0.66	12.09	5.05	82.21	1106.59	17.64	1.36	24.91	NA	169	2280
16:32:29	13.37	8.54	0.27	11.11	4.43	70.14	1274.15	15.76	0.50	20.50	NA	129	2352
16:33:29	14.36	8.54	5.38	7.68	3.84	60.22	1316.34	18.15	11.44	16.34	NA	128	2799
16:34:29	14.72	8.95	7.89	7.62	3.63	58.06	1183.64	20.13	17.74	17.12	NA	131	2661
16:35:28	14.93	9.36	5.02	7.55	3.50	59.35	1065.93	21.79	11.70	17.57	NA	138	2482
16:36:28	14.76	9.54	3.88	7.49	3.75	63.21	1004.01	21.60	8.78	16.96	NA	143	2274
16:37:28	14.27	9.48	3.00	7.37	3.84	63.83	972.13	19.89	6.30	15.46	NA	134	2039
16:38:28	14.09	9.72	2.83	16.39	4.58	82.15	1123.89	19.83	5.77	33.45	NA	168	2293
16:39:28	13.24	9.06	1.23	45.31	4.90	103.42	1066.24	16.44	2.24	82.25	NA	188	1935
16:40:28	13.83	8.56	1.66	9.71	4.36	94.79	942.50	16.83	3.27	19.10	NA	186	1853
16:41:28	14.14	8.38	3.98	7.40	4.15	85.90	937.68	17.24	8.19	15.22	NA	177	1929
16:42:28	14.25	8.29	3.17	7.33	4.09	78.39	877.92	17.34	6.63	15.33	NA	164	1836
16:43:28	14.07	8.22	0.00	7.22	4.06	71.46	842.47	16.74	0.00	14.71	NA	146	1715
16:44:28	14.18	8.22	0.00	7.16	3.88	71.68	780.63	17.00	0.00	14.79	NA	148	1614
16:45:28	14.28	8.11	0.00	7.36	4.12	73.13	809.79	17.03	0.00	15.45	NA	154	1700
16:46:28	13.52	8.34	0.00	7.89	4.92	73.71	656.74	15.72	0.00	14.87	NA	139	1237
16:47:28	13.87	7.93	0.00	7.44	4.34	69.92	656.83	15.68	0.00	14.71	NA	138	1298
16:48:27	14.24	7.81	0.00	7.21	4.07	68.80	648.75	16.30	0.00	15.04	NA	144	1354
16:49:27	14.45	7.73	0.00	7.18	3.84	66.13	588.19	16.66	0.00	15.47	NA	142	1267

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CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	Corrected to 7% Oxygen: THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
16:50:27	14.48	7.75	0.00	7.06	3.83	62.48	586.69	16.79	0.00	15.29	NA	135	1271
16:51:27	14.35	7.72	0.00	7.33	3.65	61.42	564.64	16.38	0.00	15.55	NA	130	1199
16:52:27	14.50	7.57	0.00	7.97	3.89	63.76	618.96	16.43	0.00	17.31	NA	138	1344
16:53:27	13.52	7.57	0.00	17.38	4.65	82.25	586.75	14.25	0.00	32.73	NA	155	1105
16:54:27	14.10	7.69	0.00	10.07	3.49	73.40	477.03	15.71	0.00	20.56	NA	150	974
16:55:27	14.90	7.76	0.00	7.22	3.12	59.29	469.91	17.98	0.00	16.75	NA	137	1089
16:56:27	15.19	7.62	0.00	7.00	3.15	50.81	470.17	18.55	0.00	17.04	NA	124	1144
16:57:27	14.75	7.65	0.00	7.10	3.35	50.16	470.22	17.30	0.00	16.05	NA	113	1063
16:58:27	14.57	7.73	0.00	7.41	3.34	52.50	470.12	16.97	0.00	16.26	NA	115	1032
16:59:27	14.69	7.72	0.00	7.63	3.33	52.51	515.80	17.27	0.00	17.09	NA	118	1155
17:00:27	14.11	7.36	0.00	11.69	4.44	57.80	657.12	15.06	0.00	23.92	NA	118	1344
17:01:26	13.49	7.89	0.11	10.67	3.95	58.80	657.16	14.79	0.21	20.01	NA	110	1233
17:02:26	14.75	8.03	0.00	7.42	3.37	53.25	626.04	18.15	0.00	16.79	NA	120	1416
17:03:26	15.20	7.96	0.00	7.15	3.09	51.57	579.45	19.43	0.00	17.45	NA	126	1413
17:04:26	15.21	7.60	0.00	7.05	3.36	51.70	573.20	18.58	0.00	17.23	NA	126	1401
17:05:26	14.32	7.59	0.00	7.12	3.56	52.28	611.65	16.04	0.00	15.04	NA	110	1292
17:06:26	14.53	7.74	0.00	7.18	3.23	53.70	592.41	16.88	0.00	15.66	NA	117	1292
17:07:26	14.51	7.36	0.00	7.65	4.53	67.58	938.50	16.01	0.00	16.64	NA	147	2041
17:08:26	12.73	7.40	0.00	8.58	5.08	68.43	1370.21	12.59	0.00	14.61	NA	116	2332
17:09:26	13.60	6.98	1.33	7.76	4.36	74.83	1351.23	13.28	2.52	14.77	NA	142	2572
17:10:26	14.14	7.09	6.27	7.38	3.99	75.64	1272.84	14.58	12.88	15.18	NA	155	2616
17:11:26	14.50	7.18	7.69	7.39	3.65	69.32	1134.42	15.60	16.71	16.05	NA	151	2465
17:12:26	14.79	7.61	7.65	8.30	3.50	66.80	1125.05	17.32	17.42	18.91	NA	152	2561
17:13:26	14.62	7.90	7.63	7.77	3.85	65.30	1158.82	17.48	16.89	17.19	NA	144	2564
17:14:25	13.79	8.39	7.45	10.05	4.66	74.77	1280.73	16.39	14.57	19.65	NA	146	2504
17:15:25	13.22	8.14	4.28	21.04	4.18	73.92	921.79	14.74	7.75	38.07	NA	134	1668
17:16:25	14.35	7.58	0.25	8.23	3.99	74.65	758.74	16.09	0.52	17.45	NA	158	1610

BORGESS MEDICAL CENTER

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CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								Corrected to 7% Oxygen					
17:17:25	14.09	7.24	1.23	7.19	4.08	75.46	939.25	14.78	2.50	14.68	NA	154	1917
17:18:25	14.06	7.57	2.13	7.31	3.95	79.99	939.07	15.38	4.32	14.86	NA	163	1908
17:19:25	14.37	7.45	3.51	7.22	3.62	75.94	939.25	15.86	7.48	15.38	NA	162	2000
17:20:25	14.49	7.30	3.81	7.16	3.83	70.93	939.41	15.84	8.27	15.53	NA	154	2038
17:21:25	14.21	7.43	1.57	8.17	4.04	70.98	930.19	15.44	3.27	16.97	NA	147	1932
17:22:25	13.87	7.48	0.16	15.94	3.95	68.18	725.15	14.79	0.31	31.52	NA	135	1434
17:23:25	14.88	7.37	0.00	8.17	3.44	57.99	725.71	17.00	0.00	18.84	NA	134	1675
17:24:25	14.70	7.86	0.30	7.23	3.53	54.26	725.78	17.62	0.67	16.20	NA	122	1627
17:25:25	14.90	7.48	3.01	6.97	3.17	58.68	805.75	17.35	6.97	16.16	NA	136	1868
17:26:25	15.19	7.03	2.77	7.00	3.39	56.73	939.84	17.12	6.76	17.05	NA	138	2289
17:27:24	14.29	7.06	0.50	7.56	3.77	55.92	940.04	14.84	1.05	15.89	NA	118	1977
17:28:24	14.60	7.19	2.51	7.75	3.34	61.76	1041.67	15.87	5.54	17.10	NA	136	2299
17:29:24	14.30	7.19	5.54	13.36	4.25	78.05	919.90	15.13	11.67	28.15	NA	164	1937
17:30:24	14.24	7.21	1.52	8.95	3.68	74.54	731.35	15.06	3.16	18.68	NA	156	1527
17:31:24	14.71	7.17	2.38	7.30	3.55	69.13	896.41	16.08	5.34	16.39	NA	155	2012
17:32:24	14.76	7.12	4.80	7.23	3.46	63.73	797.67	16.12	10.87	16.38	NA	144	1807
17:33:24	14.79	7.12	6.32	7.17	3.56	64.44	725.29	16.18	14.36	16.29	NA	146	1649
17:34:24	14.60	7.10	6.86	7.09	3.60	64.45	725.22	15.67	15.13	15.63	NA	142	1600
17:35:24	14.70	7.08	5.41	7.13	3.60	65.88	802.41	15.89	12.13	15.98	NA	148	1800
17:36:24	14.22	6.90	5.24	13.58	4.38	76.04	939.00	14.37	10.91	28.25	NA	158	1954
17:37:24	13.95	6.94	3.29	12.66	3.80	63.67	939.58	13.88	6.59	25.32	NA	127	1879
17:38:24	14.55	6.83	4.25	7.27	3.67	64.55	939.60	14.95	9.32	15.91	NA	141	2057
17:39:24	14.66	6.79	6.49	7.13	3.56	69.03	867.56	15.14	14.47	15.88	NA	154	1934
17:40:23	14.75	6.80	6.39	7.14	3.46	73.35	785.12	15.39	14.44	16.14	NA	166	1775
17:41:23	14.84	6.80	5.78	7.17	3.40	76.26	750.81	15.59	13.25	16.44	NA	175	1722
17:42:23	14.87	6.85	4.44	7.12	3.38	79.28	721.07	15.78	10.23	16.40	NA	183	1661
17:43:23	14.53	6.65	3.21	15.27	4.27	96.05	888.69	14.52	7.00	33.32	NA	210	1939

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	Corrected to 7% Oxygen: THC (ppmCH4,w	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
17:44:23	13.84	6.76	0.90	35.69	3.42	80.54	936.80	13.32	1.78	70.30	NA	159	1845
17:45:23	15.30	6.64	0.80	7.98	3.10	68.85	1016.43	16.48	1.99	19.81	NA	171	2521
17:46:23	14.67	6.48	4.03	7.46	3.57	62.58	932.60	14.46	8.99	16.63	NA	140	2079
17:47:23	14.48	7.15	6.60	7.43	3.01	61.82	939.53	15.49	14.29	16.08	NA	134	2034
17:48:23	15.46	7.11	8.18	7.25	3.14	62.28	1068.07	18.16	20.89	18.53	NA	159	2728
(pre & post port change averages)	13.52	4.14	4.99	7.47	4.41	81.02	783.10	7.85	9.47	14.17		152	1472
	14.25	7.66	2.24	8.90	3.95	70.54	815.34	16.10	4.73	18.47		147	1709
FINAL AVE.	13.83	5.63	3.83	8.07	4.21	76.58	796.75	11.34	7.46	15.99	NA	150	1573
CV	0.05	0.33	1.12	0.40	0.12	0.21	0.29	0.39	1.11	0.39		0	0

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	HCl	CORRECTED TO 7 % OXYGEN					
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
12:07:15	15.31	2.55	0.00	5.23	3.65	53.71	359.21	6.33	0.00	13.00	NA	133.46	892.57
12:08:15	15.22	2.44	0.00	5.09	3.84	56.95	373.08	5.98	0.00	12.45	NA	139.38	913.15
12:09:15	14.95	2.45	0.00	4.95	3.84	58.94	374.03	5.73	0.00	11.58	NA	137.79	874.46
12:10:15	15.00	2.50	0.00	4.87	3.76	55.42	372.96	5.89	0.00	11.48	NA	130.61	878.91
12:11:15	15.08	2.46	0.00	4.80	3.80	51.85	373.59	5.87	0.00	11.47	NA	123.86	892.33
12:12:15	14.62	2.34	0.00	4.78	4.68	59.64	466.48	5.18	0.00	10.58	NA	131.94	1031.85
12:13:15	13.78	2.30	0.10	4.80	4.64	72.35	556.42	4.48	0.20	9.36	NA	141.16	1085.59
12:14:14	14.41	2.43	0.03	4.85	3.89	62.63	586.15	5.21	0.06	10.40	NA	134.17	1255.70
12:15:14	15.67	2.46	0.00	4.75	3.65	57.96	586.30	6.53	0.00	12.62	NA	153.94	1557.33
12:16:14	15.00	2.28	0.00	4.86	3.99	52.41	586.34	5.38	0.00	11.45	NA	123.56	1382.46
12:17:14	14.79	2.27	0.00	4.72	3.85	50.81	559.28	5.18	0.00	10.75	NA	115.68	1273.30
12:18:14	15.01	2.33	0.00	4.70	3.66	54.71	500.18	5.51	0.00	11.10	NA	129.09	1180.18
12:19:14	15.06	2.21	0.40	4.72	4.62	62.52	627.63	5.26	0.94	11.23	NA	148.80	1493.72
12:20:14	13.47	2.28	0.30	4.81	4.70	74.18	487.05	4.26	0.57	9.00	NA	138.78	911.17
12:21:14	14.60	2.33	0.00	4.89	4.09	72.62	402.03	5.14	0.00	10.78	NA	160.14	886.55
12:22:14	15.02	2.45	0.00	4.64	3.88	68.08	402.13	5.78	0.00	10.96	NA	160.90	950.41
12:23:14	15.12	2.43	0.00	4.70	4.12	66.84	418.75	5.85	0.00	11.31	NA	160.81	1007.41
12:24:14	14.14	3.66	0.00	4.94	4.62	68.50	402.21	7.52	0.00	10.14	NA	140.81	826.76
12:25:14	14.80	2.58	0.00	4.72	4.11	63.14	402.34	5.88	0.00	10.76	NA	143.92	917.15
12:26:14	15.15	2.54	0.00	4.64	3.96	62.44	402.43	6.15	0.00	11.21	NA	150.95	972.87
12:27:13	15.16	2.37	0.00	4.50	4.50	68.14	464.90	5.74	0.00	10.91	NA	165.07	1126.27
12:28:13	13.94	2.27	0.00	4.70	4.75	62.83	404.82	4.53	0.00	9.39	NA	125.52	808.73
12:29:13	14.88	2.27	0.23	4.67	4.20	55.55	402.54	5.25	0.52	10.79	NA	128.34	930.05
12:30:13	15.18	2.28	0.00	4.67	4.03	55.60	402.53	5.54	0.00	11.34	NA	135.03	977.64
12:31:13	15.27	2.30	0.03	4.61	3.98	57.11	402.48	5.68	0.08	11.37	NA	140.90	992.96
12:32:13	15.30	2.36	0.00	4.56	3.86	55.93	402.53	5.86	0.00	11.32	NA	138.89	999.61
12:33:13	15.38	2.37	0.00	4.44	3.85	53.99	402.59	5.97	0.00	11.17	NA	135.90	1013.38

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	(ppmV,dry)	CORRECTED TO 7 % OXYGEN: THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
12:34:13	15.25	2.34	0.36	4.63	4.22	56.55	447.60	5.76	0.87	11.39	NA	139.13	1101.24
12:35:13	14.38	2.16	0.65	5.29	4.81	64.84	500.27	4.60	1.39	11.28	NA	138.27	1066.79
12:36:13	14.56	2.35	0.11	5.02	4.13	58.20	554.50	5.15	0.23	11.00	NA	127.55	1215.22
12:37:13	15.09	2.42	0.21	5.09	4.15	53.57	586.78	5.79	0.49	12.18	NA	128.25	1404.77
12:38:13	14.99	2.44	0.34	5.00	4.14	51.35	586.83	5.75	0.80	11.77	NA	120.86	1381.26
12:39:13	15.02	2.37	0.31	4.95	4.11	52.68	586.83	5.60	0.74	11.69	NA	124.51	1386.99
12:40:12	15.07	2.22	0.03	4.82	4.04	55.88	586.74	5.30	0.07	11.50	NA	133.18	1398.31
12:41:12	15.14	2.18	0.16	4.76	4.15	63.16	625.36	5.27	0.39	11.48	NA	152.33	1508.30
12:42:12	14.25	2.02	0.40	4.47	5.08	86.93	594.25	4.22	0.84	9.33	NA	181.64	1241.66
12:43:12	14.17	2.03	0.26	4.49	4.60	93.93	582.12	4.19	0.54	9.28	NA	193.97	1202.08
12:44:12	14.58	2.02	0.12	4.45	4.41	96.46	586.07	4.44	0.27	9.78	NA	212.11	1288.74
12:45:12	14.64	2.01	0.01	4.46	4.36	94.29	562.37	4.46	0.02	9.90	NA	209.34	1248.49
12:46:12	14.65	2.02	0.00	4.51	4.28	91.89	499.87	4.50	0.00	10.03	NA	204.34	1111.62
12:47:12	14.76	2.24	0.00	6.51	4.22	93.16	499.88	5.08	0.00	14.74	NA	210.81	1131.10
12:48:12	14.61	2.13	0.00	6.30	4.55	88.82	537.81	4.71	0.00	13.92	NA	196.23	1188.10
12:49:12	13.90	2.08	0.00	5.29	4.95	90.00	524.08	4.13	0.00	10.51	NA	178.84	1041.40
12:50:12	14.37	2.01	0.00	4.98	4.42	70.77	419.01	4.27	0.00	10.59	NA	150.55	891.34
12:51:12	14.36	2.61	0.00	5.26	4.68	65.05	402.56	5.55	0.00	11.17	NA	138.17	855.02
12:52:12	14.46	2.95	0.00	11.29	4.17	66.88	402.57	6.37	0.00	24.36	NA	144.32	868.66
12:53:11	14.93	2.28	0.00	7.42	4.17	62.24	402.56	5.30	0.00	17.28	NA	144.88	937.03
12:54:11	14.62	2.23	0.00	5.45	4.13	63.10	402.57	4.94	0.00	12.05	NA	139.60	890.70
12:55:11	14.75	2.27	0.00	4.97	4.01	62.62	402.59	5.12	0.00	11.22	NA	141.46	909.46
12:56:11	14.56	2.21	0.00	4.99	4.60	61.28	402.60	4.84	0.00	10.94	NA	134.35	882.66
12:57:11	14.27	2.70	0.00	5.44	4.07	61.36	477.51	5.67	0.00	11.39	NA	128.59	1000.78
12:58:11	15.38	2.63	0.00	4.64	3.44	68.60	500.38	6.63	0.00	11.70	NA	172.87	1260.94
12:59:11	15.83	2.28	0.00	4.44	3.61	65.44	500.49	6.26	0.00	12.17	NA	179.46	1372.47
13:00:11	14.94	2.23	0.00	4.63	3.84	62.88	500.53	5.19	0.00	10.81	NA	146.73	1168.04

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	(ppmV,dry)	CORRECTED TO 7 % OXYGEN: THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
13:01:11	15.13	2.39	0.00	4.75	3.58	68.67	500.36	5.77	0.00	11.46	NA	165.54	1206.27
13:02:11	15.39	2.42	0.00	4.74	3.55	64.67	500.37	6.09	0.00	11.96	NA	163.01	1261.21
13:03:11	15.15	2.31	0.00	4.83	3.79	57.02	500.59	5.58	0.00	11.67	NA	137.82	1210.05
13:04:11	15.03	2.29	0.00	4.66	3.90	61.57	544.06	5.41	0.00	11.03	NA	145.74	1287.91
13:05:11	14.44	2.29	0.00	4.80	4.64	77.56	500.07	4.92	0.00	10.33	NA	166.88	1075.90
13:06:11	14.29	2.86	0.00	4.90	4.38	72.91	500.16	6.01	0.00	10.30	NA	153.37	1052.14
13:07:10	15.02	2.69	0.00	4.71	3.84	67.86	500.30	6.35	0.00	11.13	NA	160.27	1181.69
13:08:10	15.50	2.58	0.00	4.56	3.62	64.85	500.36	6.64	0.00	11.73	NA	167.05	1288.86
13:09:10	15.74	2.54	0.00	4.57	3.44	56.84	493.12	6.85	0.00	12.32	NA	153.22	1329.21
13:10:10	15.59	2.47	0.00	4.63	3.79	50.32	432.75	6.46	0.00	12.11	NA	131.75	1132.95
13:11:10	14.59	2.48	0.00	4.62	4.39	53.98	527.04	5.47	0.00	10.18	NA	119.00	1161.84
13:12:10	14.71	2.48	0.00	4.88	3.86	55.18	402.55	5.58	0.00	10.95	NA	123.90	903.85
13:13:10	15.12	2.56	0.00	5.35	3.85	52.74	382.00	6.15	0.00	12.86	NA	126.91	919.16
13:14:10	14.78	3.12	0.00	5.23	4.11	56.20	380.34	7.08	0.00	11.87	NA	127.60	863.63
13:15:10	14.21	3.20	0.00	5.31	4.81	66.54	441.94	6.66	0.00	11.04	NA	138.26	918.27
13:16:10	14.31	2.35	0.00	4.72	4.53	82.12	499.91	4.96	0.00	9.95	NA	173.12	1053.89
13:17:10	14.54	2.15	0.00	4.57	4.42	95.47	499.67	4.69	0.00	9.99	NA	208.63	1091.93
13:18:10	14.44	2.07	0.00	4.45	5.03	99.34	600.83	4.44	0.00	9.58	NA	213.64	1292.15
13:19:10	13.64	2.08	0.00	4.25	4.76	94.34	499.72	3.99	0.00	8.14	NA	180.56	956.47
13:20:09	14.61	2.06	0.00	4.37	4.29	83.66	499.85	4.54	0.00	9.65	NA	184.79	1104.00
13:21:09	14.86	2.09	0.00	4.45	4.18	80.11	499.94	4.81	0.00	10.23	NA	184.35	1150.38
13:22:09	14.70	2.08	0.00	4.49	4.34	72.78	467.08	4.67	0.00	10.08	NA	163.23	1047.50
13:23:09	14.68	2.38	0.00	4.47	4.03	69.30	467.17	5.31	0.00	9.99	NA	154.86	1044.03
13:24:09	15.15	2.11	0.00	4.50	4.12	65.93	428.98	5.09	0.00	10.88	NA	159.49	1037.79
13:25:09	14.66	2.24	0.20	4.48	4.19	64.31	407.79	4.99	0.45	9.98	NA	143.22	908.12
13:26:09	14.66	2.30	1.71	4.48	4.75	75.71	478.55	5.13	3.81	9.98	NA	168.77	1066.79
13:27:09	13.73	2.01	1.18	4.50	5.17	71.68	402.38	3.89	2.29	8.72	NA	138.90	779.71

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	(ppmV,dry)	CORRECTED TO 7 % OXYGEN: THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
13:28:09	14.36	1.96	0.72	4.54	4.48	69.52	402.55	4.17	1.53	9.64	NA	147.77	855.60
13:29:09	14.83	1.95	0.39	4.52	4.17	67.38	402.63	4.46	0.90	10.36	NA	154.40	922.67
13:30:09	15.10	1.96	0.32	4.49	4.10	62.91	402.76	4.69	0.76	10.75	NA	150.73	965.03
13:31:09	14.78	1.96	0.13	4.51	4.33	58.62	402.86	4.44	0.30	10.23	NA	133.11	914.74
13:32:09	14.82	2.21	0.00	4.54	3.86	57.39	402.95	5.06	0.00	10.39	NA	131.22	921.29
13:33:08	15.34	2.09	0.24	4.48	4.25	59.09	419.47	5.22	0.59	11.21	NA	147.82	1049.28
13:34:08	13.74	1.95	0.66	4.51	5.42	66.74	402.75	3.78	1.28	8.75	NA	129.49	781.45
13:35:08	14.07	1.94	0.38	4.55	4.46	67.29	370.35	3.95	0.77	9.25	NA	136.85	753.19
13:36:08	15.05	1.97	0.30	4.47	3.98	64.33	331.28	4.69	0.71	10.61	NA	152.77	786.69
13:37:08	15.38	2.01	0.00	4.56	3.92	61.09	334.63	5.07	0.00	11.47	NA	153.79	842.41
13:38:08	14.91	1.94	0.00	4.49	4.31	58.87	370.77	4.50	0.00	10.42	NA	136.64	860.60
13:39:08	14.46	2.86	0.00	4.52	4.06	58.58	316.88	6.17	0.00	9.76	NA	126.41	683.77
13:40:08	15.40	2.30	0.00	4.60	3.80	60.45	348.72	5.81	0.00	11.62	NA	152.85	881.74
13:41:08	14.43	2.70	0.44	5.33	5.27	66.91	402.76	5.80	0.95	11.45	NA	143.67	864.75
13:42:08	14.21	2.55	0.00	5.41	3.88	58.49	327.76	5.30	0.00	11.25	NA	121.53	680.99
13:43:08	15.77	2.34	0.00	4.67	3.66	51.92	316.98	6.36	0.00	12.65	NA	140.75	859.35
13:44:08	15.35	2.32	0.00	4.62	3.78	48.39	317.03	5.81	0.00	11.57	NA	121.20	793.97
13:45:08	15.36	3.25	0.00	4.53	3.55	48.95	316.96	8.15	0.00	11.37	NA	122.87	795.55
13:46:07	15.95	2.53	0.00	4.47	3.41	49.71	316.95	7.09	0.00	12.54	NA	139.45	889.13
13:47:07	15.44	2.29	0.00	4.59	3.92	48.78	319.03	5.84	0.00	11.67	NA	124.11	811.76
13:48:07	14.80	4.94	0.21	4.64	4.27	55.87	438.09	11.25	0.47	10.56	NA	127.21	997.47
13:49:07	14.61	2.28	0.54	4.68	4.42	60.96	500.77	5.03	1.20	10.35	NA	134.74	1106.90
13:50:07	15.05	2.33	0.72	4.59	4.04	52.58	501.01	5.54	1.70	10.92	NA	125.01	1191.17
13:51:07	15.23	2.33	0.55	4.54	3.88	48.96	501.09	5.72	1.35	11.12	NA	120.01	1228.20
13:52:07	15.44	2.32	0.30	4.51	3.70	46.42	502.58	5.91	0.76	11.48	NA	118.22	1279.90
13:53:07	15.62	2.34	0.09	4.39	3.58	43.74	513.30	6.18	0.23	11.55	NA	115.23	1352.36
13:54:07	15.79	2.35	0.00	4.34	3.46	42.96	501.22	6.38	0.00	11.80	NA	116.88	1363.63

BORGESS MEDICAL CENTER

INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2	THC	SO2	CO	CO2	NOX		CORRECTED TO 7 % OXYGEN					
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
13:55:07	15.65	2.16	0.48	4.42	4.31	50.48	602.23	5.72	1.26	11.71	NA	133.58	1593.75
13:56:07	13.79	3.49	0.06	4.85	4.61	54.56	433.75	6.82	0.12	9.48	NA	106.67	848.04
13:57:07	15.33	2.67	0.00	4.66	3.42	48.41	403.15	6.66	0.00	11.65	NA	120.90	1006.89
13:58:07	15.69	2.19	0.00	4.55	3.85	43.59	403.25	5.85	0.00	12.14	NA	116.32	1075.98
13:59:06	14.85	2.56	0.00	4.65	3.68	41.91	403.28	5.88	0.00	10.68	NA	96.33	926.98
14:00:06	15.86	2.33	0.00	4.43	3.42	43.48	419.82	6.41	0.00	12.22	NA	119.81	1156.88
14:01:06	15.38	2.12	0.00	4.55	3.86	43.56	403.33	5.33	0.00	11.47	NA	109.74	1016.20
14:02:06	14.92	2.33	0.00	4.86	4.00	46.55	482.38	5.40	0.00	11.28	NA	108.19	1121.08
14:03:06	14.65	2.21	0.00	5.96	4.23	51.77	587.47	4.92	0.00	13.26	NA	115.15	1306.80
14:04:06	15.17	2.06	0.00	5.26	3.92	46.45	587.57	5.00	0.00	12.75	NA	112.64	1424.93
14:05:06	14.79	2.05	0.00	5.04	3.80	44.95	587.55	4.66	0.00	11.48	NA	102.28	1336.87
14:06:06	15.32	2.07	0.00	4.86	3.50	47.78	671.50	5.16	0.00	12.11	NA	119.09	1673.67
14:07:06	15.52	2.15	0.00	4.76	3.70	49.02	657.36	5.54	0.00	12.29	NA	126.54	1697.00
15:18:45	15.01	2.06	0.72	4.99	4.13	62.33	599.38	4.87	1.70	11.78	NA	147.13	1414.75
15:19:45	14.08	3.81	0.98	4.87	5.24	78.11	781.88	7.75	2.00	9.92	NA	159.10	1592.45
15:20:45	13.48	3.98	0.90	5.16	4.64	83.22	731.20	7.46	1.69	9.65	NA	155.83	1369.23
15:21:45	14.70	2.12	0.36	4.62	4.19	72.16	616.08	4.74	0.81	10.35	NA	161.68	1380.47
15:22:45	14.65	2.11	0.12	4.45	4.09	65.61	546.24	4.70	0.27	9.90	NA	145.96	1215.26
15:23:45	14.76	2.15	0.26	4.45	4.03	63.98	501.04	4.88	0.60	10.08	NA	144.85	1134.40
15:24:45	14.52	2.12	0.00	4.44	4.22	62.91	501.04	4.62	0.01	9.66	NA	137.03	1091.36
15:25:45	14.50	2.14	0.00	4.47	3.79	55.40	438.47	4.64	0.00	9.71	NA	120.29	952.03
15:26:45	15.20	2.14	0.13	4.80	4.18	55.04	548.56	5.21	0.33	11.70	NA	134.18	1337.31
15:27:45	13.57	2.42	0.00	5.86	5.53	60.67	563.52	4.58	0.00	11.11	NA	114.97	1067.99

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CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	(ppmV,dry)	CORRECTED TO 7 % OXYGEN: THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
15:28:45	13.93	2.22	0.00	4.98	4.37	60.35	501.09	4.42	0.00	9.94	NA	120.38	999.63
15:29:45	15.01	2.05	0.00	4.69	3.95	52.84	501.26	4.84	0.00	11.07	NA	124.63	1182.27
15:30:45	15.34	2.17	0.00	4.72	3.77	50.69	405.98	5.44	0.00	11.81	NA	126.75	1015.21
15:31:44	15.20	2.18	0.00	4.70	3.75	53.10	403.25	5.32	0.00	11.47	NA	129.49	983.41
15:32:44	15.43	2.27	0.00	4.64	3.53	51.47	403.23	5.77	0.00	11.80	NA	130.73	1024.24
15:33:44	15.57	2.40	0.00	4.61	3.56	52.71	403.26	6.26	0.00	12.04	NA	137.56	1052.37
15:34:44	14.58	2.56	0.00	4.84	5.14	59.58	497.64	5.62	0.00	10.63	NA	130.95	1093.72
15:35:44	13.69	2.14	0.00	4.93	4.55	72.38	511.20	4.14	0.00	9.51	NA	139.63	986.20
15:36:44	14.81	2.01	0.00	4.64	3.99	69.12	504.03	4.59	0.00	10.59	NA	157.86	1151.17
15:37:44	15.30	2.01	0.00	4.74	3.78	60.92	489.64	5.00	0.00	11.78	NA	151.25	1215.66
15:38:44	15.09	1.98	0.00	4.70	3.92	55.17	480.65	4.73	0.00	11.24	NA	132.00	1150.02
15:39:44	14.99	2.03	0.00	4.65	3.77	50.72	456.99	4.77	0.00	10.96	NA	119.38	1075.60
15:40:44	15.31	2.09	0.00	4.69	3.52	44.86	414.43	5.20	0.00	11.66	NA	111.49	1030.05
15:41:44	14.86	2.09	0.00	4.79	4.55	52.98	549.66	4.82	0.00	11.02	NA	121.97	1265.47
15:42:44	14.18	2.07	0.06	4.76	4.41	61.89	671.31	4.28	0.12	9.85	NA	128.10	1389.53
15:43:44	14.55	2.00	0.07	4.76	4.17	63.28	671.31	4.37	0.16	10.42	NA	138.45	1468.72
15:44:43	14.68	1.98	0.00	4.77	4.02	59.20	662.36	4.43	0.00	10.66	NA	132.29	1480.25
15:45:43	14.88	1.98	0.00	4.94	3.82	55.17	587.30	4.58	0.00	11.42	NA	127.39	1356.13
15:46:43	15.11	2.18	0.00	5.12	3.69	52.55	587.30	5.23	0.00	12.30	NA	126.21	1410.58
15:47:43	15.33	2.13	0.00	5.04	3.38	45.22	520.47	5.31	0.00	12.59	NA	112.92	1299.68
15:48:43	15.54	2.05	0.14	4.73	4.23	50.82	618.93	5.32	0.35	12.26	NA	131.79	1605.18
15:49:43	13.30	2.10	0.53	4.83	5.03	69.33	498.86	3.84	0.98	8.83	NA	126.82	912.55
15:50:43	14.65	2.25	0.00	4.77	3.55	66.97	412.52	5.01	0.00	10.60	NA	148.92	917.37
15:51:43	15.97	2.34	0.00	4.72	3.26	58.14	424.34	6.61	0.00	13.32	NA	164.04	1197.31
15:52:43	15.82	2.38	0.00	4.62	3.41	46.90	403.24	6.50	0.00	12.62	NA	128.25	1102.64
15:53:43	15.68	2.40	0.00	4.53	3.31	42.08	403.34	6.39	0.00	12.07	NA	112.03	1073.80
15:54:43	15.84	2.44	0.00	4.44	3.26	39.90	403.26	6.72	0.00	12.20	NA	109.61	1107.90

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CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	(ppmV,dry)	----------CORRECTED TO 7 % OXYGEN---------- THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
15:55:43	15.88	2.45	0.00	4.55	3.17	41.99	403.26	6.79	0.00	12.61	NA	116.21	1116.17
15:56:43	15.55	2.16	0.24	4.77	4.47	47.10	469.25	5.61	0.63	12.39	NA	122.27	1218.19
15:57:43	13.70	2.29	0.00	5.11	4.70	55.41	403.06	4.41	0.00	9.86	NA	106.92	777.77
15:58:42	15.07	2.45	0.00	4.58	3.77	62.18	402.90	5.83	0.00	10.92	NA	148.16	959.91
15:59:42	15.63	2.51	0.00	4.46	3.56	60.54	402.91	6.61	0.00	11.75	NA	159.62	1062.31
16:00:42	15.85	2.52	0.00	4.39	3.47	56.70	402.89	6.92	0.00	12.08	NA	155.94	1108.06
16:01:42	15.76	2.53	0.00	4.28	3.52	46.69	419.82	6.84	0.00	11.57	NA	126.17	1134.38
16:02:42	15.62	2.57	0.00	4.23	3.29	48.43	460.49	6.77	0.00	11.14	NA	127.57	1213.02
16:03:42	16.02	2.46	0.00	4.32	3.70	54.53	551.27	7.02	0.00	12.30	NA	155.33	1570.43
16:04:42	14.43	2.59	0.00	5.68	4.71	56.90	481.34	5.56	0.00	12.20	NA	122.29	1034.60
16:05:42	14.75	2.31	0.00	4.96	3.93	57.64	402.79	5.21	0.00	11.20	NA	130.18	909.79
16:06:42	15.52	2.38	0.00	4.60	3.51	56.57	402.86	6.16	0.00	11.88	NA	146.16	1040.90
16:07:42	15.86	2.40	0.00	4.55	3.43	55.46	475.94	6.61	0.00	12.53	NA	152.87	1311.85
16:08:42	15.50	2.62	0.00	4.59	3.87	54.72	477.12	6.75	0.00	11.80	NA	140.80	1227.63
16:09:42	15.32	2.66	0.00	4.52	3.41	54.80	419.21	6.61	0.00	11.25	NA	136.49	1044.07
16:10:42	15.91	2.46	0.00	4.35	3.58	59.78	491.82	6.85	0.00	12.11	NA	166.49	1369.71
16:11:41	14.86	2.26	0.00	4.83	4.86	60.08	538.13	5.19	0.00	11.10	NA	138.15	1237.50
16:12:41	13.93	2.34	0.00	5.75	4.20	55.49	402.48	4.67	0.00	11.46	NA	110.60	802.23
16:13:41	15.61	2.33	0.00	4.82	3.52	51.39	402.52	6.13	0.00	12.68	NA	135.08	1057.96
16:14:41	15.89	2.34	0.00	4.66	3.59	48.37	402.58	6.50	0.00	12.93	NA	134.25	1117.40
16:15:41	15.37	2.30	0.00	4.62	3.73	48.72	452.11	5.77	0.00	11.60	NA	122.39	1135.84
16:16:41	15.28	2.29	0.00	4.63	3.64	50.14	402.53	5.67	0.00	11.44	NA	124.02	995.59
16:17:41	15.40	2.35	0.00	4.64	3.55	50.51	402.49	5.93	0.00	11.73	NA	127.64	1017.02
16:18:41	15.37	2.11	0.00	4.84	4.10	49.70	474.14	5.31	0.00	12.16	NA	124.88	1191.45
16:19:41	13.88	2.30	0.00	8.96	5.37	54.90	462.00	4.56	0.00	17.73	NA	108.70	914.74
16:20:41	13.98	2.05	0.00	5.82	4.58	61.93	402.38	4.11	0.00	11.69	NA	124.37	807.98
16:21:41	14.89	2.01	0.00	4.73	4.07	60.48	402.45	4.65	0.00	10.93	NA	139.85	930.56

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CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	HCl (ppmV,dry)	CORRECTED TO 7 % OXYGEN: THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
16:22:41	15.26	2.06	0.00	4.65	3.93	57.46	402.46	5.07	0.00	11.46	NA	141.67	992.23
16:23:41	15.10	2.04	0.00	4.69	4.09	54.92	402.49	4.90	0.00	11.24	NA	131.68	965.01
16:24:40	14.99	2.14	0.00	4.60	3.87	50.70	402.57	5.04	0.00	10.82	NA	119.17	946.23
16:25:40	15.20	2.10	0.00	4.56	3.97	50.94	402.54	5.11	0.00	11.13	NA	124.20	981.52
16:26:40	14.36	2.48	0.00	7.03	5.22	58.57	489.39	5.27	0.00	14.94	NA	124.53	1040.52
16:27:40	13.79	2.00	0.00	6.60	4.53	57.85	500.39	3.90	0.00	12.89	NA	113.08	978.09
16:28:40	14.95	1.90	0.00	4.77	4.02	52.79	500.50	4.45	0.00	11.14	NA	123.28	1168.78
16:29:40	15.36	1.95	0.00	4.77	3.77	49.34	430.49	4.90	0.00	11.98	NA	123.91	1081.00
16:30:40	15.35	1.93	0.00	4.74	3.88	44.48	402.60	4.84	0.00	11.87	NA	111.41	1008.32
16:31:40	15.15	2.08	0.00	4.63	3.81	43.09	402.57	5.03	0.00	11.20	NA	104.25	973.89
16:32:40	15.25	2.11	0.00	4.67	3.77	41.95	402.64	5.20	0.00	11.50	NA	103.20	990.56
16:33:40	15.19	2.01	0.00	4.73	4.19	41.44	442.23	4.90	0.00	11.50	NA	100.83	1076.02
16:34:40	14.24	1.99	0.00	4.91	4.49	48.97	586.82	4.16	0.00	10.25	NA	102.18	1224.57
16:35:40	14.98	2.14	0.00	4.96	3.67	47.71	543.25	5.02	0.00	11.63	NA	112.00	1275.30
16:36:40	15.64	2.09	0.00	4.80	3.78	47.18	526.04	5.51	0.00	12.69	NA	124.63	1389.58
16:37:39	15.12	2.12	0.00	4.70	3.86	46.55	500.73	5.10	0.00	11.29	NA	111.89	1203.64
16:38:39	15.33	3.01	0.00	4.70	3.48	43.02	432.02	7.50	0.00	11.72	NA	107.30	1077.43
16:39:39	15.93	2.21	0.00	4.63	3.51	40.70	421.91	6.17	0.00	12.94	NA	113.75	1179.26
16:40:39	15.09	2.19	0.00	4.84	4.52	50.45	527.54	5.23	0.00	11.59	NA	120.79	1263.13
16:41:39	14.18	2.81	0.00	4.91	4.11	61.74	402.61	5.82	0.00	10.16	NA	127.73	833.01
16:42:39	15.71	2.36	0.00	4.78	3.46	54.31	388.23	6.32	0.00	12.82	NA	145.52	1040.30
16:43:39	15.78	2.52	0.00	4.72	3.49	42.45	402.92	6.82	0.00	12.80	NA	115.16	1093.09
16:44:39	15.65	2.41	0.00	4.79	3.45	38.25	359.58	6.37	0.00	12.67	NA	101.21	951.46
16:45:39	15.70	2.33	0.00	4.63	3.45	37.55	403.07	6.23	0.00	12.38	NA	100.46	1078.28
16:46:39	15.73	2.25	0.00	4.65	3.28	38.25	343.73	6.03	0.00	12.48	NA	102.76	923.51
16:47:39	15.82	2.09	0.00	4.64	3.81	41.67	391.01	5.71	0.00	12.69	NA	113.96	1069.39
16:48:39	14.39	2.01	0.00	4.78	5.00	56.88	419.53	4.30	0.00	10.21	NA	121.54	896.45

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CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2	THC	SO2	CO	CO2	NOX		THC	SO2	CO	CO2	NOX	HCl
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								----------CORRECTED TO 7 % OXYGEN----------					
16:49:39	13.89	2.27	0.00	4.76	4.40	73.68	402.72	4.50	0.00	9.42	NA	146.00	797.98
16:50:38	15.24	2.08	0.00	4.96	3.67	68.72	402.83	5.11	0.00	12.18	NA	168.89	989.98
16:51:38	15.65	2.16	0.00	5.04	3.58	68.68	402.86	5.72	0.00	13.33	NA	181.77	1066.19
16:52:38	15.50	2.11	0.00	5.05	3.43	63.72	403.03	5.42	0.00	12.99	NA	163.88	1036.60
16:53:38	15.70	2.17	0.00	4.99	3.32	58.69	388.09	5.79	0.00	13.33	NA	156.86	1037.17
16:54:38	15.80	2.18	0.00	4.91	3.22	54.03	346.74	5.93	0.00	13.40	NA	147.39	945.92
16:57:38	15.37	2.11	0.00	5.15	3.31	35.25	403.49	5.31	0.00	12.96	NA	88.66	1014.78
16:58:38	14.78	2.00	0.00	5.10	3.87	54.15	388.82	4.55	0.00	11.58	NA	123.02	883.29
16:59:38	14.95	2.07	0.00	5.15	3.31	38.67	360.01	4.84	0.00	12.03	NA	90.36	841.28
17:00:38	15.26	2.02	0.00	5.15	3.70	42.92	403.57	4.98	0.00	12.71	NA	105.81	994.94
17:01:38	14.07	1.92	0.00	5.21	4.51	49.62	545.54	3.90	0.00	10.61	NA	100.97	1110.05
17:02:38	14.28	1.98	0.00	5.23	3.56	44.30	813.23	4.16	0.00	10.99	NA	93.07	1708.58
17:03:37	15.51	2.05	0.00	5.41	3.49	47.91	940.89	5.28	0.00	13.93	NA	123.51	2425.34
17:04:37	15.16	1.97	0.00	5.20	3.69	53.73	1011.48	4.78	0.00	12.61	NA	130.16	2450.42
17:05:37	15.06	1.93	0.00	5.30	3.60	49.43	998.05	4.61	0.00	12.62	NA	117.75	2377.29
17:06:37	15.23	1.97	0.00	5.29	3.47	42.57	899.27	4.82	0.00	12.96	NA	104.35	2204.47
17:07:37	15.38	1.96	0.00	5.43	3.52	41.83	910.58	4.93	0.00	13.66	NA	105.28	2291.98
17:08:37	14.45	1.93	0.00	5.66	4.83	88.49	1056.35	4.15	0.00	12.20	NA	190.79	2277.73
17:09:37	13.50	1.91	0.00	5.12	4.76	87.90	1276.46	3.59	0.00	9.62	NA	165.16	2398.54
17:10:37	14.19	1.91	2.36	5.34	4.59	69.56	1436.59	3.95	4.90	11.06	NA	144.20	2977.99
17:11:37	14.46	1.84	7.40	5.19	4.49	80.40	1468.56	3.96	15.99	11.20	NA	173.65	3171.67
17:12:37	14.58	1.90	11.66	4.92	4.34	85.50	1534.75	4.17	25.66	10.84	NA	188.14	3377.10
17:13:37	14.66	1.94	12.50	4.79	4.23	84.01	1520.26	4.32	27.83	10.65	NA	187.03	3384.77
17:14:37	14.71	2.08	13.98	4.82	4.19	81.90	1451.15	4.67	31.39	10.83	NA	183.86	3257.90
17:15:37	14.70	2.38	10.77	5.15	4.26	75.73	1323.59	5.33	24.13	11.54	NA	169.71	2966.30
17:16:36	14.46	2.40	6.55	4.97	4.43	76.28	1318.41	5.17	14.10	10.74	NA	164.70	2846.54
17:17:36	13.80	2.69	4.95	4.82	4.92	73.95	1235.54	5.27	9.70	9.44	NA	144.85	2420.29

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INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	HCl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	HCl (ppmV,dry
								CORRECTED TO 7 % OXYGEN					
17:18:36	14.41	2.77	0.00	4.39	4.06	57.60	1175.51	5.93	0.00	9.40	NA	123.36	2517.55
(pre & post	14.87	2.36	0.11	4.84	4.13	62.54	462.65	5.49	0.25	11.21		143.86	1073.80
port change	14.99	2.23	0.63	4.90	3.97	56.03	568.68	5.31	1.37	11.60		131.69	1326.74
averages)													
FINAL AVG	14.93	2.30	0.37	4.87	4.05	59.31	515.22	5.40	0.81	11.40		137.83	1199.22
CV	0.04	0.15	4.67	0.13	0.12	0.21	0.42	0.17	4.71	0.13		0.17	0.38

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSIOM MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
11:17:49	15.29	2.67	0.49	4.43	3.57	75.98	381.83	6.61	1.22	10.98	NA	188.28	946.23
11:18:49	15.16	2.36	0.02	4.41	3.90	67.72	382.04	5.73	0.05	10.68	NA	164.00	925.28
11:19:48	14.47	2.27	0.00	4.39	4.01	66.73	382.15	4.90	0.00	9.49	NA	144.30	826.43
11:20:48	14.84	2.59	0.00	4.39	3.63	65.11	382.28	5.94	0.00	10.07	NA	149.44	877.40
11:21:48	15.16	2.73	0.00	4.29	3.44	66.47	351.89	6.61	0.00	10.41	NA	161.09	852.79
11:22:48	15.19	2.47	1.00	4.18	4.46	60.78	450.88	6.01	2.43	10.16	NA	147.94	1097.43
11:23:48	12.98	3.11	1.64	4.24	5.71	71.13	330.48	5.46	2.87	7.44	NA	124.79	579.76
11:24:48	13.91	2.68	0.83	4.40	4.37	78.75	292.55	5.33	1.66	8.75	NA	156.66	581.96
11:25:48	15.06	2.69	0.37	4.19	3.89	76.36	292.73	6.41	0.89	9.98	NA	181.85	697.08
11:26:48	15.26	2.68	0.00	4.11	4.02	72.47	293.00	6.60	0.00	10.14	NA	178.56	721.95
11:27:48	14.45	2.46	0.00	4.26	4.42	69.41	293.06	5.30	0.00	9.18	NA	149.69	631.97
11:28:48	14.36	2.71	0.00	4.16	3.98	66.68	293.23	5.77	0.00	8.84	NA	141.76	623.43
11:29:48	14.91	2.84	0.00	4.11	4.11	66.20	293.20	6.58	0.00	9.53	NA	153.50	679.86
11:30:48	14.17	2.78	0.19	4.18	4.84	71.41	292.90	5.75	0.40	8.62	NA	147.39	604.54
11:31:48	14.30	2.83	0.00	4.19	4.15	77.66	247.74	5.97	0.00	8.83	NA	163.60	521.94
11:32:48	14.79	2.81	0.00	4.27	3.96	77.81	277.33	6.41	0.00	9.71	NA	177.14	631.35
11:33:47	14.88	2.78	0.06	4.22	3.90	74.07	277.14	6.42	0.13	9.74	NA	171.13	640.28
11:34:47	14.62	2.59	0.00	4.06	4.28	73.31	291.93	5.74	0.00	8.98	NA	162.35	646.52
11:35:47	14.07	2.61	0.00	4.04	4.17	71.29	277.03	5.31	0.00	8.23	NA	145.15	564.07
11:36:47	14.49	2.68	0.00	4.57	4.02	67.15	277.11	5.80	0.00	9.91	NA	145.57	600.68
11:37:47	13.87	2.57	0.25	4.36	5.04	82.52	357.18	5.08	0.49	8.62	NA	163.24	706.54
11:38:47	13.36	2.53	0.13	4.09	4.70	94.94	381.29	4.65	0.24	7.54	NA	174.92	702.52
11:39:47	13.76	2.44	0.31	3.98	4.51	92.20	381.41	4.75	0.60	7.75	NA	179.47	742.47
11:40:47	13.93	2.41	0.23	4.04	4.39	85.68	381.58	4.81	0.46	8.06	NA	170.95	761.33
11:41:47	13.79	2.36	0.98	4.02	5.09	104.14	455.43	4.62	1.91	7.86	NA	203.58	890.27
11:42:47	12.71	3.59	1.39	3.77	5.57	126.31	532.90	6.10	2.35	6.39	NA	214.50	904.99
11:43:47	13.28	2.40	1.13	3.78	5.26	123.64	573.41	4.37	2.05	6.90	NA	225.40	1045.38

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
11:44:47	13.45	2.34	1.08	3.82	5.14	115.10	603.33	4.36	2.02	7.12	NA	214.66	1125.21
11:45:47	13.72	2.51	0.95	3.85	4.95	104.69	637.14	4.86	1.83	7.45	NA	202.81	1234.25
11:46:46	13.71	3.16	0.83	11.41	5.00	103.46	617.44	6.10	1.60	22.08	NA	200.14	1194.38
11:47:46	13.51	2.04	1.27	11.60	5.47	109.11	662.00	3.83	2.40	21.82	NA	205.26	1245.40
11:48:46	13.39	1.95	1.19	5.97	4.82	98.30	811.14	3.60	2.19	11.06	NA	181.93	1501.24
11:49:46	13.99	1.94	0.96	5.74	4.89	93.60	940.72	3.90	1.93	11.55	NA	188.25	1892.09
11:50:46	13.45	2.58	1.05	4.87	4.81	82.81	989.31	4.81	1.96	9.09	NA	154.53	1846.13
11:51:46	14.06	2.42	1.27	7.34	4.50	77.11	967.05	4.92	2.57	14.92	NA	156.71	1965.41
11:52:46	14.26	2.10	1.73	6.83	4.56	75.01	966.54	4.40	3.63	14.30	NA	157.13	2024.81
11:53:46	13.84	1.94	2.11	5.06	4.59	74.74	897.74	3.82	4.15	9.96	NA	147.05	1766.45
11:54:46	13.71	1.57	2.86	4.54	5.09	84.84	955.15	3.03	5.52	8.79	NA	164.05	1846.99
11:55:46	13.14	1.63	1.72	4.29	5.06	81.41	762.34	2.93	3.08	7.68	NA	145.92	1366.34
11:56:46	13.75	1.78	0.69	4.17	4.62	77.44	671.38	3.47	1.34	8.11	NA	150.66	1306.08
11:57:46	14.13	1.73	0.71	4.31	4.44	70.27	762.63	3.55	1.45	8.85	NA	144.30	1566.17
11:58:46	13.92	1.70	0.74	4.37	4.64	70.34	762.80	3.39	1.47	8.70	NA	140.13	1519.71
11:59:45	13.71	1.81	0.53	4.48	4.29	68.67	727.81	3.50	1.02	8.65	NA	132.68	1406.33
12:00:45	14.58	1.75	0.45	4.60	3.85	66.31	583.53	3.84	1.00	10.12	NA	145.85	1283.40
12:01:45	14.69	1.77	0.81	4.77	4.16	68.80	680.01	3.97	1.80	10.69	NA	154.01	1522.35
12:02:45	13.92	1.83	0.53	4.76	4.48	61.93	607.99	3.65	1.05	9.48	NA	123.29	1210.43
12:03:45	14.65	1.86	0.32	4.61	3.81	58.23	740.72	4.14	0.70	10.25	NA	129.45	1646.59
12:04:45	14.98	1.85	0.75	4.57	3.74	53.61	765.35	4.35	1.76	10.73	NA	125.87	1796.81
12:05:45	14.90	1.86	1.53	4.41	3.74	56.10	765.57	4.30	3.56	10.21	NA	130.04	1774.71
12:06:45	14.96	2.02	1.79	4.46	3.56	61.02	610.38	4.73	4.18	10.43	NA	142.86	1428.95
12:07:45	15.46	1.94	2.24	4.29	3.49	66.63	586.00	4.96	5.71	10.96	NA	170.10	1495.95
12:08:45	14.73	1.69	1.76	4.40	4.18	69.55	650.05	3.81	3.97	9.90	NA	156.60	1463.69
12:09:45	13.60	1.78	0.96	4.77	4.82	67.93	642.23	3.39	1.83	9.07	NA	129.30	1222.52
12:10:45	14.74	2.03	0.56	4.61	3.58	53.94	495.91	4.57	1.26	10.39	NA	121.71	1119.00

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSIOM MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
12:11:45	15.12	1.89	0.48	4.60	3.93	56.15	411.18	4.55	1.15	11.08	NA	135.12	989.48
12:12:44	14.41	2.00	0.32	4.60	3.79	50.64	410.95	4.28	0.69	9.84	NA	108.47	880.29
12:13:44	15.05	2.26	0.49	4.47	3.50	48.51	410.40	5.38	1.18	10.63	NA	115.25	975.15
12:14:44	15.12	2.12	1.16	4.44	4.08	51.49	500.07	5.11	2.80	10.68	NA	123.77	1202.02
12:15:44	13.61	2.20	1.59	4.69	5.15	57.12	434.82	4.19	3.03	8.93	NA	108.88	828.80
12:16:44	14.61	2.27	0.78	4.48	3.63	52.78	408.67	5.02	1.73	9.90	NA	116.67	903.34
12:17:44	15.70	2.15	0.58	4.43	3.38	45.68	378.45	5.75	1.55	11.83	NA	122.05	1011.06
12:18:44	15.14	1.82	0.43	4.60	3.96	49.50	408.67	4.39	1.03	11.11	NA	119.52	986.81
12:19:44	14.38	2.11	0.48	4.52	3.80	50.06	408.60	4.49	1.03	9.62	NA	106.65	870.44
12:20:44	15.36	2.27	0.25	4.44	3.21	42.62	408.92	5.70	0.62	11.13	NA	106.91	1025.77
12:21:44	15.28	1.80	0.50	4.35	4.04	52.95	408.74	4.46	1.25	10.77	NA	131.02	1011.35
12:22:44	13.46	1.98	1.34	4.26	5.25	63.38	556.40	3.71	2.50	7.96	NA	118.40	1039.34
12:23:44	13.69	3.20	1.42	4.48	4.28	67.74	584.25	6.17	2.73	8.64	NA	130.58	1126.18
12:24:44	14.95	1.95	1.49	4.43	3.79	66.60	584.69	4.56	3.48	10.34	NA	155.50	1365.19
12:25:43	15.11	1.94	1.35	4.55	3.71	65.95	584.96	4.66	3.24	10.92	NA	158.44	1405.28
12:26:43	15.19	1.96	1.20	4.36	3.59	63.52	585.41	4.78	2.92	10.62	NA	154.63	1425.06
12:27:43	15.32	1.84	1.13	4.39	3.65	62.20	585.89	4.58	2.82	10.93	NA	154.97	1459.77
12:28:43	14.44	2.57	1.48	4.72	4.38	63.69	675.59	5.54	3.19	10.16	NA	137.13	1454.73
12:29:43	13.73	2.01	1.84	5.21	4.66	69.16	675.43	3.90	3.56	10.10	NA	134.02	1308.78
12:30:43	14.70	1.94	1.36	4.66	3.67	68.96	766.85	4.36	3.06	10.45	NA	154.68	1720.20
12:31:43	15.43	1.95	1.81	4.57	3.44	63.21	903.11	4.96	4.59	11.61	NA	160.67	2295.71
12:32:43	15.50	1.84	4.19	4.65	3.53	61.14	871.39	4.73	10.79	11.98	NA	157.51	2244.92
12:33:43	14.77	3.75	4.78	4.63	3.97	57.98	768.39	8.51	10.83	10.50	NA	131.43	1741.63
12:34:43	14.95	3.83	5.19	4.47	3.34	55.61	769.05	8.95	12.12	10.44	NA	129.85	1795.81
12:35:43	15.37	1.91	5.41	4.60	4.31	61.60	1001.25	4.81	13.60	11.57	NA	154.74	2515.05
12:36:43	13.33	2.05	2.55	4.88	4.54	72.80	741.54	3.77	4.68	8.95	NA	133.60	1360.97
12:37:43	15.02	2.19	1.26	4.75	3.47	63.35	587.72	5.18	2.97	11.24	NA	149.88	1390.38

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	CORRECTED TO 7% OXYGEN: THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
12:38:42	15.63	2.24	1.07	4.73	3.39	55.78	587.23	5.89	2.82	12.48	NA	147.05	1548.02
12:39:42	14.97	2.08	0.81	4.73	3.89	58.57	586.43	4.88	1.91	11.10	NA	137.40	1375.69
12:40:42	14.53	2.24	0.91	4.70	3.53	54.34	586.01	4.88	1.98	10.25	NA	118.54	1278.31
12:41:42	15.44	2.21	0.70	4.74	3.25	49.93	585.79	5.64	1.79	12.06	NA	127.13	1491.47
12:42:42	15.41	2.14	1.02	4.65	3.42	51.36	640.88	5.42	2.58	11.77	NA	130.10	1623.38
12:43:42	14.38	1.95	1.64	4.75	4.69	59.75	648.95	4.17	3.51	10.13	NA	127.44	1384.18
12:44:42	14.32	6.29	1.22	4.57	3.54	45.35	585.39	13.28	2.58	9.65	NA	95.78	1236.43
12:45:42	15.69	2.26	0.88	4.60	3.29	41.84	496.53	6.02	2.35	12.28	NA	111.58	1324.21
12:46:42	15.05	1.91	0.56	4.82	3.77	49.29	473.13	4.54	1.32	11.46	NA	117.20	1124.90
12:47:42	14.51	1.93	0.48	4.71	3.61	47.88	409.78	4.21	1.05	10.24	NA	104.19	891.74
12:48:42	15.20	2.13	0.40	4.69	3.21	41.11	410.25	5.19	0.98	11.42	NA	100.24	1000.35
12:49:42	15.43	1.95	0.19	4.81	3.53	44.83	433.07	4.96	0.47	12.23	NA	114.02	1101.39
12:50:42	14.08	1.84	0.00	4.64	4.74	52.25	474.63	3.75	0.00	9.44	NA	106.43	966.68
12:51:41	13.92	1.98	0.20	4.79	3.91	49.92	410.67	3.94	0.40	9.54	NA	99.41	817.91
12:52:41	14.97	1.95	0.04	4.76	3.57	47.42	411.10	4.57	0.10	11.16	NA	111.24	964.35
12:53:41	15.21	2.04	0.00	4.62	3.42	44.07	411.46	4.99	0.01	11.28	NA	107.64	1004.95
12:54:41	15.39	2.03	0.19	4.58	3.34	40.44	411.91	5.11	0.49	11.54	NA	101.94	1038.36
12:55:41	15.16	1.86	0.18	4.54	3.60	44.46	411.99	4.51	0.44	11.00	NA	107.68	997.94
12:56:41	14.64	1.75	0.00	4.57	3.80	45.23	412.15	3.89	0.00	10.15	NA	100.47	915.64
12:57:41	14.09	1.71	0.69	4.57	4.79	54.09	581.06	3.48	1.40	9.33	NA	110.34	1185.30
12:58:41	13.81	1.89	0.72	4.55	3.93	56.94	587.98	3.71	1.41	8.92	NA	111.65	1152.93
12:59:51	15.24	2.11	0.72	4.63	3.31	48.21	547.70	5.19	1.76	11.37	NA	118.39	1344.92
13:00:51	15.39	2.13	0.48	4.62	3.59	51.03	575.85	5.37	1.22	11.65	NA	128.67	1451.97
13:01:51	14.80	2.15	0.24	4.65	3.61	46.72	487.61	4.90	0.55	10.60	NA	106.41	1110.71
13:02:51	15.00	2.24	0.00	4.70	3.47	45.86	484.12	5.28	0.00	11.08	NA	108.10	1141.08
13:03:51	15.04	2.20	0.04	4.76	3.56	47.93	493.54	5.22	0.09	11.29	NA	113.61	1169.95
13:04:50	14.38	2.02	0.90	4.70	4.63	50.40	549.64	4.31	1.92	10.03	NA	107.50	1172.24

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSIOM MONITORS FOR SEPTEMBER 11, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
13:05:50	13.79	2.04	0.79	4.75	4.15	52.15	483.41	3.99	1.55	9.29	NA	101.97	945.12
13:06:50	14.72	2.18	0.33	5.23	3.65	49.90	483.32	4.90	0.74	11.77	NA	112.26	1087.27
13:07:50	15.09	2.21	0.69	5.04	3.48	56.84	483.23	5.27	1.65	12.06	NA	135.91	1155.38
13:08:50	15.29	2.17	0.75	4.89	3.42	59.36	513.79	5.39	1.85	12.11	NA	147.01	1272.44
13:09:50	14.98	2.06	0.62	5.12	3.61	63.21	483.18	4.84	1.45	12.02	NA	148.53	1135.30
13:10:50	14.72	2.06	0.68	5.86	4.01	59.43	553.39	4.63	1.52	13.18	NA	133.56	1243.72
13:11:50	13.87	2.04	0.96	8.96	4.41	62.37	549.77	4.02	1.89	17.70	NA	123.24	1086.32
13:12:50	14.46	2.12	0.93	6.66	3.70	52.88	491.94	4.58	2.02	14.37	NA	114.18	1062.23
13:13:50	15.16	2.13	1.20	5.33	3.56	48.27	574.49	5.16	2.90	12.91	NA	116.92	1391.39
13:14:50	15.14	1.97	1.07	5.10	3.68	47.40	574.69	4.76	2.58	12.31	NA	114.39	1386.88
13:15:50	14.60	2.27	1.16	5.14	3.80	46.90	582.72	5.02	2.56	11.34	NA	103.55	1286.61
13:16:50	14.96	2.35	1.26	4.99	3.24	40.07	603.52	5.49	2.94	11.68	NA	93.73	1411.72
13:17:49	15.21	2.18	1.43	4.90	3.93	44.75	716.25	5.33	3.49	11.97	NA	109.34	1750.18
14:17:45	14.12	1.65	2.04	4.10	4.37	77.11	585.78	3.38	4.18	8.40	NA	158.16	1201.54
14:18:45	14.23	1.70	2.19	4.09	4.20	72.96	615.29	3.54	4.57	8.52	NA	152.13	1282.87
14:19:45	14.00	1.75	1.94	4.11	4.94	73.45	768.11	3.52	3.90	8.27	NA	147.88	1546.42
14:20:45	13.22	1.69	1.49	3.93	5.20	86.16	662.75	3.06	2.69	7.11	NA	155.87	1198.97
14:21:45	13.31	1.77	1.54	3.91	4.89	84.54	662.83	3.24	2.82	7.16	NA	154.74	1213.25
14:22:44	13.90	1.71	2.77	4.18	4.56	79.22	663.07	3.38	5.51	8.30	NA	157.20	1315.78
14:23:44	14.18	1.71	4.57	4.18	4.47	75.89	693.65	3.54	9.45	8.65	NA	157.02	1435.24
14:24:44	14.27	1.79	2.79	4.21	4.41	73.41	663.36	3.75	5.85	8.84	NA	153.93	1390.96
14:25:44	14.04	1.86	2.60	4.40	4.87	75.98	722.40	3.77	5.27	8.91	NA	153.90	1463.16
14:26:44	13.07	2.07	3.18	4.73	5.54	77.89	607.28	3.67	5.64	8.41	NA	138.33	1078.51
14:27:44	13.58	2.21	1.46	4.94	4.66	67.30	484.08	4.20	2.77	9.38	NA	127.85	919.65

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

								CORRECTED TO 7% OXYGEN					
TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
14:28:44	14.35	2.09	1.33	4.93	4.42	66.03	483.59	4.43	2.82	10.47	NA	140.19	1026.79
14:29:44	14.27	1.99	1.45	4.51	4.57	67.78	483.29	4.17	3.03	9.47	NA	142.19	1013.77
14:30:44	13.94	1.89	1.38	4.30	4.44	66.03	483.10	3.79	2.75	8.59	NA	131.94	965.41
14:31:44	14.16	1.87	1.29	4.19	4.40	66.99	482.92	3.86	2.66	8.65	NA	138.11	995.56
14:32:44	14.17	1.86	1.20	4.21	4.40	67.91	482.76	3.84	2.48	8.69	NA	140.20	996.58
14:33:44	13.79	1.98	2.24	4.26	5.19	89.24	1105.78	3.86	4.38	8.33	NA	174.38	2160.80
14:34:44	12.91	2.29	4.18	4.26	5.55	124.83	1428.97	3.98	7.27	7.40	NA	217.17	2486.08
14:35:43	13.23	2.07	25.89	4.09	5.02	132.40	1508.84	3.74	46.90	7.41	NA	239.83	2733.01
14:36:43	13.78	1.98	17.75	4.25	4.63	120.53	1267.10	3.87	34.66	8.30	NA	235.33	2474.06
14:37:43	14.22	2.05	14.80	4.74	4.33	105.43	1090.56	4.27	30.80	9.86	NA	219.36	2269.05
14:38:43	14.41	2.14	12.86	4.68	4.26	96.63	964.85	4.58	27.56	10.02	NA	207.05	2067.32
14:39:43	14.13	2.33	11.72	4.34	4.67	93.96	964.73	4.80	24.08	8.92	NA	193.05	1982.03
14:40:43	13.02	2.54	9.24	4.25	5.94	98.09	746.49	4.48	16.30	7.50	NA	172.98	1316.39
14:41:43	13.01	2.60	3.09	4.09	5.09	87.26	580.95	4.58	5.44	7.21	NA	153.80	1023.95
14:42:43	13.99	2.60	2.87	4.35	4.55	81.79	580.01	5.23	5.77	8.75	NA	164.50	1166.52
14:43:43	14.43	2.59	2.20	4.71	4.14	77.55	578.95	5.57	4.74	10.11	NA	166.66	1244.19
14:44:43	14.66	2.59	3.58	4.59	4.35	81.60	577.51	5.78	7.97	10.23	NA	181.91	1287.39
14:45:43	13.70	6.38	4.36	4.49	5.19	102.86	576.15	12.32	8.42	8.67	NA	198.54	1112.11
14:46:43	13.62	3.10	3.58	4.20	4.77	101.68	575.23	5.91	6.84	8.02	NA	194.22	1098.74
14:47:43	14.28	2.27	2.76	4.45	4.26	88.56	574.96	4.77	5.80	9.34	NA	185.86	1206.69
14:48:42	14.74	2.18	1.78	4.76	4.12	80.65	574.66	4.92	4.01	10.74	NA	182.10	1297.47
14:49:42	14.04	2.21	2.00	4.47	5.24	91.13	853.02	4.47	4.06	9.06	NA	184.66	1728.47
14:50:42	12.99	2.45	2.54	4.43	5.47	97.31	1599.70	4.31	4.46	7.79	NA	170.97	2810.74
14:51:42	12.78	2.39	32.62	5.47	5.96	113.11	1923.48	4.10	55.85	9.36	NA	193.65	3293.08
14:52:42	13.04	2.63	35.74	4.70	4.79	97.50	1500.90	4.64	63.19	8.30	NA	172.38	2653.65
14:53:42	13.98	2.94	24.45	4.46	4.64	94.16	1493.85	5.91	49.08	8.96	NA	189.03	2998.99
14:54:42	14.08	3.24	20.98	4.38	4.52	87.68	1321.95	6.59	42.74	8.92	NA	178.63	2693.27

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)
14:55:42	14.19	3.16	13.46	4.33	4.47	84.41	1314.48
14:56:42	14.15	3.09	11.46	4.40	4.88	94.11	1375.08
14:57:42	13.03	3.16	16.79	4.51	5.97	131.53	1454.54
14:58:42	12.50	3.13	23.57	4.07	5.89	103.36	1353.72
14:59:42	12.90	3.04	19.73	4.02	5.46	96.04	1177.76
15:00:42	13.20	2.85	15.00	4.24	5.25	94.83	1059.81
15:01:42	13.32	2.67	13.05	4.03	5.13	96.62	959.78
15:02:41	13.40	2.57	11.96	3.91	5.12	99.82	959.86
15:03:41	13.35	2.53	12.51	3.87	5.13	99.64	960.09
15:04:41	13.36	2.58	12.16	3.94	5.04	99.03	960.42
15:05:41	13.51	2.45	10.89	4.11	4.87	96.00	960.66
15:06:41	13.90	2.31	4.63	4.07	4.56	87.12	961.18
15:07:41	13.91	2.38	8.78	4.27	4.56	88.21	961.21
15:08:41	14.18	2.29	4.18	4.90	4.22	78.93	769.83
15:09:41	14.43	2.17	7.64	4.94	4.12	71.91	758.49
15:10:41	14.47	2.29	7.73	4.66	4.02	70.88	758.83
15:11:41	14.81	2.29	2.98	4.47	3.77	64.12	742.48
15:12:41	14.99	2.12	0.87	4.46	3.83	59.95	626.48
15:13:41	14.41	2.11	1.35	4.90	4.49	58.48	759.90
15:14:41	13.47	2.14	0.99	4.97	5.00	62.63	759.66
15:15:40	13.56	2.20	1.05	4.16	4.50	58.10	683.66
15:16:40	14.37	2.21	1.73	4.28	4.11	57.25	610.64
15:17:40	14.41	1.88	2.90	4.38	4.32	61.32	580.18
15:18:40	14.10	1.89	2.68	4.36	4.27	59.65	580.55
15:19:40	14.28	1.94	2.13	4.24	4.31	62.83	580.47
15:20:40	13.65	1.94	1.12	4.36	5.12	80.32	579.86
15:21:40	13.76	2.01	0.38	4.14	4.36	75.95	566.01

----------CORRECTED TO 7% OXYGEN----------

THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
6.55	27.89	8.98	NA	174.95	2724.21
6.35	23.59	9.05	NA	193.74	2830.70
5.58	29.66	7.96	NA	232.40	2569.99
5.18	38.99	6.73	NA	170.99	2239.51
5.28	34.28	6.98	NA	166.84	2046.07
5.14	27.09	7.66	NA	171.27	1914.18
4.90	23.93	7.39	NA	177.20	1760.18
4.76	22.19	7.26	NA	185.12	1780.02
4.66	23.04	7.13	NA	183.57	1768.71
4.76	22.42	7.26	NA	182.66	1771.53
4.61	20.50	7.74	NA	180.62	1807.47
4.59	9.20	8.08	NA	172.88	1907.47
4.73	17.47	8.50	NA	175.54	1912.75
4.74	8.64	10.13	NA	163.26	1592.36
4.67	16.42	10.61	NA	154.51	1629.78
4.94	16.69	10.07	NA	153.14	1639.45
5.22	6.80	10.19	NA	146.29	1693.83
4.97	2.04	10.47	NA	140.89	1472.27
4.52	2.89	10.49	NA	125.26	1627.75
4.02	1.85	9.31	NA	117.24	1422.01
4.17	2.00	7.88	NA	110.06	1295.05
4.70	3.69	9.11	NA	121.85	1299.55
4.03	6.22	9.39	NA	131.32	1242.56
3.87	5.48	8.90	NA	121.96	1186.99
4.07	4.47	8.91	NA	131.88	1218.35
3.72	2.16	8.36	NA	153.93	1111.26
3.90	0.75	8.06	NA	147.79	1101.44

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	----------CORRECTED TO 7% OXYGEN---------- THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
15:22:40	14.54	1.96	0.24	4.33	3.97	66.13	536.92	4.28	0.53	9.45	NA	144.48	1173.08
15:23:40	14.62	2.04	0.34	4.55	4.17	66.84	579.61	4.52	0.75	10.08	NA	147.87	1282.32
15:24:40	13.91	2.19	0.62	4.33	4.42	70.39	565.29	4.37	1.24	8.62	NA	140.04	1124.59
15:25:40	14.10	2.22	0.53	4.30	3.90	65.80	401.86	4.54	1.08	8.79	NA	134.60	822.01
15:26:40	14.84	2.12	0.55	4.55	3.74	60.27	401.41	4.88	1.26	10.44	NA	138.35	921.39
15:27:40	14.41	2.05	0.60	4.57	4.54	60.96	561.59	4.38	1.28	9.78	NA	130.48	1201.91
15:28:39	13.52	2.02	0.59	4.85	4.44	57.89	445.59	3.80	1.10	9.13	NA	108.97	838.72
15:29:39	14.59	2.00	0.36	4.68	3.76	54.62	400.52	4.41	0.78	10.30	NA	120.31	882.20
15:30:39	15.06	2.04	0.48	4.75	3.47	51.25	400.40	4.87	1.14	11.31	NA	122.02	953.25
15:31:39	15.36	2.06	0.66	4.65	3.38	45.90	400.66	5.16	1.66	11.67	NA	115.22	1005.68
15:32:39	15.31	2.15	0.60	4.64	3.40	44.78	400.69	5.34	1.49	11.54	NA	111.37	996.59
15:33:39	15.40	2.12	0.45	4.64	3.24	42.55	400.77	5.35	1.14	11.72	NA	107.46	1012.15
15:34:39	15.56	2.07	0.59	4.73	3.43	41.38	500.82	5.40	1.55	12.30	NA	107.65	1302.81
15:35:39	14.52	1.94	0.43	5.55	4.06	54.07	446.96	4.22	0.94	12.09	NA	117.79	973.72
15:36:39	14.54	1.87	0.21	5.01	3.67	54.63	400.63	4.09	0.46	10.94	NA	119.37	875.49
15:37:39	14.80	1.97	0.04	4.81	3.30	47.36	400.99	4.48	0.10	10.96	NA	107.89	913.51
15:38:39	15.58	2.08	0.00	4.87	2.95	42.20	401.23	5.44	0.00	12.72	NA	110.32	1048.79
15:39:39	15.58	1.95	0.00	4.86	3.24	45.65	401.35	5.08	0.00	12.70	NA	119.28	1048.59
15:40:39	14.99	1.88	0.00	4.86	3.32	44.97	470.51	4.43	0.00	11.44	NA	105.84	1107.47
15:41:38	14.66	1.82	0.00	4.88	4.25	45.81	517.31	4.05	0.00	10.87	NA	102.09	1152.72
15:42:38	14.01	1.84	0.15	4.94	3.96	59.56	577.12	3.72	0.31	9.97	NA	120.19	1164.63
15:43:38	14.76	2.02	0.27	4.85	3.47	59.21	698.85	4.58	0.61	10.99	NA	134.01	1581.66
15:44:38	15.16	2.05	0.53	4.69	3.38	56.43	638.24	4.97	1.28	11.37	NA	136.76	1546.77
15:45:38	15.30	2.06	0.48	4.62	3.29	52.68	577.67	5.12	1.19	11.47	NA	130.78	1434.17
15:46:38	15.45	2.09	0.57	4.57	3.21	50.36	577.89	5.33	1.46	11.66	NA	128.54	1474.95
15:47:38	15.45	2.01	0.64	4.49	3.42	49.70	608.39	5.13	1.62	11.46	NA	126.71	1551.11
15:48:38	14.54	1.81	0.52	4.89	4.15	48.62	578.13	3.96	1.15	10.68	NA	106.22	1263.05

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSIOM MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
15:49:38	14.56	1.87	0.28	4.78	3.73	50.89	578.16	4.10	0.62	10.47	NA	111.55	1267.21
15:50:38	14.74	1.91	0.40	4.90	3.45	44.89	578.55	4.30	0.91	11.05	NA	101.27	1305.23
15:51:38	14.98	1.84	0.68	4.83	3.49	45.89	578.48	4.32	1.60	11.35	NA	107.75	1358.23
15:52:38	14.89	1.87	0.65	4.82	3.49	45.81	578.40	4.33	1.49	11.15	NA	106.02	1338.46
15:53:38	14.97	1.97	0.67	4.94	3.41	44.63	578.05	4.62	1.57	11.57	NA	104.61	1355.07
15:54:37	15.00	2.12	0.63	4.85	3.53	47.08	577.27	5.00	1.48	11.42	NA	110.85	1359.05
15:55:37	14.32	2.21	0.80	4.62	4.68	52.07	540.32	4.67	1.70	9.76	NA	109.98	1141.20
15:56:37	13.52	2.14	0.68	4.36	4.21	46.08	399.80	4.04	1.27	8.21	NA	86.75	752.56
15:57:37	14.96	2.04	0.71	4.66	3.59	41.64	399.40	4.79	1.66	10.91	NA	97.46	934.83
15:58:37	15.06	2.04	0.65	4.65	3.79	42.90	428.67	4.86	1.54	11.06	NA	102.11	1020.35
15:59:37	14.37	1.93	0.55	4.58	3.86	43.65	398.72	4.10	1.17	9.75	NA	92.90	848.62
16:00:37	14.69	1.93	0.37	4.55	3.56	42.01	398.55	4.33	0.84	10.17	NA	94.03	892.08
16:01:37	15.00	1.99	0.18	4.61	3.39	41.94	398.31	4.69	0.42	10.87	NA	98.84	938.76
16:02:37	15.08	1.91	0.25	4.75	3.34	37.28	398.36	4.55	0.59	11.34	NA	88.99	950.82
16:03:37	14.94	1.91	0.20	4.74	3.56	42.75	398.21	4.46	0.46	11.05	NA	99.64	928.22
16:04:37	14.23	1.87	0.00	4.66	4.70	62.49	397.55	3.89	0.00	9.71	NA	130.17	828.19
16:05:37	13.26	1.89	0.00	4.47	4.80	75.50	397.12	3.43	0.00	8.14	NA	137.45	722.91
16:06:37	13.93	1.90	0.00	4.46	4.44	67.44	397.61	3.78	0.00	8.90	NA	134.48	792.91
16:07:36	14.31	1.84	0.00	4.55	4.04	62.23	397.86	3.89	0.00	9.61	NA	131.29	839.34
16:08:36	14.70	1.86	0.00	4.80	3.78	58.64	398.15	4.16	0.00	10.76	NA	131.50	892.90
16:09:36	14.55	1.84	0.00	4.81	4.16	59.47	398.31	4.02	0.00	10.52	NA	130.12	871.43
16:10:36	13.84	1.82	0.00	4.41	4.15	58.86	430.37	3.59	0.00	8.68	NA	115.89	847.43
16:11:36	13.80	1.90	0.00	4.52	5.01	107.95	570.94	3.72	0.00	8.86	NA	211.30	1117.58
16:12:36	12.97	1.90	0.00	4.18	4.85	126.12	396.92	3.33	0.00	7.33	NA	221.12	695.88
16:13:36	14.03	1.84	0.00	4.42	4.54	84.25	516.77	3.73	0.00	8.93	NA	170.43	1045.43
16:14:36	14.01	1.85	0.00	4.49	4.39	70.89	398.75	3.72	0.00	9.06	NA	142.94	803.96
16:15:36	14.29	1.85	0.00	4.45	4.19	64.12	399.12	3.88	0.00	9.34	NA	134.77	838.85

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSIOM MONITORS FOR SEPTEMBER 11, 1991

								CORRECTED TO 7% OXYGEN					
TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
16:16:36	14.49	1.83	0.00	4.48	3.91	54.49	399.56	3.96	0.00	9.71	NA	118.14	866.23
16:17:36	14.53	1.89	0.00	4.36	4.33	53.79	400.32	4.12	0.00	9.51	NA	117.46	874.11
(pre & post	14.55	2.25	0.92	4.77	4.07	64.38	544.68	4.96	2.03	10.52	0.00	139.97	1199.50
port change	14.20	2.17	4.17	4.51	4.33	71.33	679.08	4.52	8.00	9.48	0.00	145.85	1386.74
averages)													
FINAL AVG	14.37	2.21	2.54	4.64	4.20	67.86	611.88	4.74	5.02	10.00		142.91	1293.12
CV	0.05	0.24	2.05	0.17	0.15	0.30	0.44	0.24	1.92	0.19		0.22	0.38

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN----------					
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
12:30:10	13.38	2.53	5.29	3.76	2.29	53.59	649.32	4.667669	9.77131	6.953107	4.239129	99.03519	1199.996
12:31:10	14.86	2.31	4.07	4.00	1.68	51.45	649.71	5.316997	9.370692	9.20009	3.866261	118.378	1494.828
12:32:10	15.26	2.28	2.55	4.17	1.32	50.69	631.05	5.61213	6.295216	10.27413	3.264831	124.9829	1556.045
12:33:10	15.67	2.35	2.16	3.99	1.10	47.05	614.80	6.261344	5.750201	10.61277	2.929913	125.1199	1635.04
12:34:10	15.40	2.35	2.06	3.77	1.23	43.82	575.93	5.933532	5.201804	9.515805	3.098406	110.6862	1454.808
12:35:10	15.25	2.32	1.82	3.86	1.18	43.56	586.63	5.701194	4.486225	9.492911	2.895228	107.1081	1442.573
12:36:10	14.81	2.32	2.62	4.05	2.19	47.91	650.73	5.289664	5.975996	9.243367	5.000068	109.3536	1485.351
12:37:09	13.74	2.30	1.80	3.93	2.65	49.42	520.92	4.453947	3.497072	7.626921	5.145094	95.88901	1010.698
12:38:09	14.62	2.36	0.62	3.81	1.17	35.13	485.40	5.215528	1.380659	8.42651	2.588792	77.71494	1073.775
12:39:09	15.56	2.21	-0.14	4.08	1.14	37.69	485.42	5.761278	-0.3732	10.61619	2.963995	98.04628	1262.701
12:40:09	14.65	2.15	-0.40	4.27	1.18	38.73	485.47	4.785626	-0.88888	9.500481	2.616783	86.19438	1080.327
12:41:09	15.29	2.21	-0.48	4.20	0.72	35.43	485.86	5.471421	-1.18869	10.40115	1.79049	87.80233	1203.93
12:42:09	15.72	2.17	-0.39	3.93	0.95	36.93	485.82	5.814886	-1.04945	10.54478	2.553551	99.1027	1303.811
12:43:09	14.57	2.07	-0.01	3.76	2.11	45.38	485.60	4.545666	-0.01122	8.244678	4.631203	99.58483	1065.618
12:44:09	13.88	1.99	0.18	4.05	1.55	42.09	485.89	3.939237	0.357106	8.015169	3.06081	83.32747	961.8879
12:45:09	14.95	2.08	0.53	4.07	1.10	39.24	486.16	4.853724	1.240443	9.507235	2.57769	91.7436	1136.533
12:46:09	15.67	2.08	0.41	3.92	0.92	38.36	486.40	5.527461	1.078047	10.42346	2.44508	101.9296	1292.618
12:47:09	15.44	2.09	0.26	3.69	0.99	39.25	486.43	5.306922	0.666665	9.382916	2.530775	99.84722	1237.417
12:48:09	15.51	2.02	-0.02	3.82	0.76	35.29	486.76	5.204963	-0.0644	9.853584	1.964997	90.96942	1254.918
12:49:09	15.38	1.87	-0.08	3.99	1.01	36.32	486.90	4.696694	-0.197	10.0547	2.540233	91.45137	1225.987
12:50:08	14.51	1.85	0.29	3.97	1.86	42.19	486.76	4.022958	0.638798	8.639356	4.035219	91.76091	1058.699
12:51:08	13.36	1.89	0.41	3.93	1.77	50.44	486.56	3.481193	0.74888	7.231992	3.255885	92.94274	896.4992
12:52:08	14.93	2.00	0.26	3.88	0.88	46.36	486.91	4.648242	0.606809	9.04788	2.046314	107.993	1134.36
12:53:08	15.67	2.02	0.13	4.07	0.80	51.05	486.99	5.367418	0.344135	10.8144	2.116939	135.7077	1294.619
12:54:08	15.20	1.96	0.12	4.08	0.88	66.82	486.56	4.782122	0.304211	9.939611	2.137145	162.8546	1185.782
12:55:08	15.04	1.94	0.24	3.94	0.81	80.29	486.52	4.596247	0.564697	9.3479	1.913007	190.5903	1154.868
12:56:11	15.07	1.94	0.69	3.86	0.68	77.26	548.88	4.634558	1.634357	9.199142	1.616787	184.1991	1308.602

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
12:57:11	15.24	1.87	0.45	3.94	0.73	62.44	423.40	4.606693	1.11468	9.671423	1.801201	153.4234	1040.402
12:58:11	14.50	1.68	1.12	4.12	1.51	56.88	411.78	3.654899	2.43733	8.948865	3.267959	123.4911	894.0306
12:59:11	13.97	1.82	0.87	4.08	0.91	56.69	383.19	3.643567	1.754088	8.172524	1.833854	113.681	768.3601
13:00:11	15.48	1.98	1.11	3.89	0.44	49.94	357.52	5.075502	2.839424	9.971121	1.118373	128.0367	916.6462
13:01:11	15.83	2.00	0.73	3.81	0.45	41.58	381.51	5.467429	2.001194	10.42945	1.226651	113.9561	1045.492
13:02:11	15.19	1.84	-0.14	4.06	0.76	40.34	411.44	4.485093	-0.33339	9.890316	1.851172	98.26137	1002.268
13:03:11	14.22	1.85	1.63	4.05	1.67	48.95	475.80	3.859631	3.391743	8.434852	3.484431	101.8776	990.2258
13:04:11	13.35	1.91	1.74	4.13	1.71	50.69	410.29	3.520957	3.199488	7.612494	3.139152	93.32138	755.4064
13:05:11	14.13	1.92	1.48	3.76	0.36	43.59	409.92	3.93992	3.035763	7.724701	0.74313	89.45983	841.2951
13:06:11	15.41	1.97	1.34	3.63	0.09	38.63	409.44	4.996122	3.38627	9.191884	0.21947	97.78682	1036.355
13:07:11	15.73	2.00	1.42	3.78	0.88	36.32	408.98	5.373168	3.819964	10.17634	2.370624	97.69988	1100.046
13:08:11	15.19	1.95	1.25	3.95	1.64	38.49	408.31	4.740968	3.056502	9.615408	3.991579	93.74493	994.4933
13:09:10	14.31	2.05	1.39	3.95	1.44	37.48	407.80	4.313211	2.921325	8.319917	3.040667	78.99762	859.5644
13:10:10	15.03	2.13	1.78	3.81	1.94	39.76	483.35	5.055954	4.218842	9.029687	4.597548	94.18659	1145.025
13:11:10	14.07	2.16	1.17	3.80	2.12	45.56	409.39	4.405366	2.378639	7.724016	4.306408	92.71638	833.1764
13:12:10	15.04	2.24	0.79	3.89	1.34	45.83	405.72	5.311029	1.880787	9.242331	3.178522	108.7624	962.8726
13:13:10	15.71	2.28	0.93	3.93	1.19	42.41	405.19	6.096925	2.47997	10.50683	3.195278	113.4782	1084.183
13:14:10	15.46	2.25	1.19	3.72	1.33	41.58	404.63	5.747088	3.04169	9.509923	3.387882	106.2311	1033.812
13:15:10	15.30	2.20	1.49	3.67	1.31	44.11	404.07	5.469399	3.705016	9.110116	3.261214	109.5286	1003.406
13:16:10	15.27	2.07	1.62	3.75	1.36	45.72	436.14	5.111752	3.993501	9.263273	3.347171	112.8459	1076.437
13:17:10	15.13	1.94	2.08	3.95	1.89	57.07	532.99	4.674471	5.023032	9.52037	4.566365	137.6096	1285.092
13:18:10	13.84	1.85	2.95	3.78	3.02	88.83	503.02	3.632614	5.812839	7.447869	5.940561	174.8712	990.2801
13:19:10	13.89	1.81	2.17	3.52	2.27	91.50	498.66	3.578613	4.293152	6.984894	4.504328	181.3297	988.2735
13:20:10	14.64	1.65	2.09	3.72	2.03	84.05	498.57	3.661465	4.63372	8.259157	4.516556	186.6049	1106.883
13:21:10	14.46	1.63	1.67	3.67	2.16	82.63	498.57	3.510494	3.60283	7.915514	4.657804	178.247	1075.477
13:22:10	14.40	1.59	1.30	3.64	1.98	76.88	498.65	3.41142	2.785294	7.782452	4.225636	164.4275	1066.535
13:23:09	14.42	1.58	1.21	3.57	2.22	77.43	498.73	3.386559	2.602118	7.662628	4.763314	166.2115	1070.582

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
13:24:09	13.62	1.72	1.28	3.39	2.81	77.13	507.27	3.287259	2.441538	6.477528	5.360155	147.246	968.3547
13:25:09	12.87	1.66	1.45	3.57	3.28	91.07	540.76	2.880775	2.515426	6.17789	5.683257	157.5919	935.7364
13:26:09	13.47	1.60	1.40	3.61	2.72	92.82	583.89	2.984223	2.611086	6.758166	5.087758	173.6592	1092.376
13:27:09	13.87	1.47	1.68	3.74	2.23	78.07	584.16	2.914552	3.313025	7.389761	4.404058	154.3681	1155.018
13:28:09	14.69	1.38	2.10	4.09	2.11	66.51	584.19	3.094028	4.70531	9.145201	4.721923	148.7476	1306.598
13:29:09	14.36	1.36	2.04	3.87	2.11	60.48	504.92	2.886675	4.330517	8.223562	4.495711	128.6067	1073.703
13:30:09	14.41	1.35	2.52	4.03	2.46	65.71	543.77	2.884658	5.39283	8.623788	5.263081	140.6962	1164.255
13:31:09	12.54	1.44	3.26	3.77	4.58	99.15	639.66	2.397013	5.412674	6.272157	7.614577	164.7911	1063.156
13:32:09	11.94	1.45	3.20	3.89	4.61	99.17	689.85	2.252709	4.964661	6.026623	7.146511	153.7659	1069.678
13:33:14	11.90	1.43	3.86	4.02	4.77	99.36	797.24	2.205442	5.953934	6.206366	7.366325	153.4612	1231.296
13:34:14	12.27	1.37	8.32	3.78	4.32	102.83	808.87	2.204187	13.39858	6.082519	6.960094	165.6806	1303.202
13:35:14	12.50	1.41	14.86	3.48	4.07	101.08	767.94	2.329053	24.57967	5.747846	6.730152	167.1706	1270.034
13:36:14	12.61	1.42	21.33	3.27	3.98	100.62	754.43	2.381135	35.76471	5.477975	6.666062	168.6791	1264.708
13:37:14	12.71	1.45	22.10	3.25	3.77	99.40	754.77	2.463188	37.48515	5.517499	6.402836	168.6254	1280.48
13:38:13	12.97	1.44	22.29	3.27	3.54	97.40	754.85	2.518464	39.05986	5.728592	6.202125	170.6813	1322.827
13:39:13	13.18	1.42	22.45	3.35	3.39	99.77	754.91	2.56216	40.4087	6.024385	6.097686	179.5836	1358.802
13:40:13	13.21	1.41	20.67	3.19	3.33	98.91	755.23	2.542999	37.36932	5.76538	6.02159	178.8533	1365.676
13:41:13	13.25	1.39	22.42	3.26	3.34	98.64	755.15	2.533152	40.75543	5.916271	6.069168	179.2708	1372.44
13:42:13	13.21	1.44	23.39	3.32	3.34	100.39	769.12	2.59344	42.26358	5.99361	6.039446	181.4125	1389.833
13:43:13	13.25	1.41	21.23	3.37	3.27	99.16	699.21	2.569862	38.56274	6.113939	5.932005	180.1319	1270.186
13:44:13	13.34	1.45	6.75	3.25	3.07	96.84	670.80	2.662589	12.39532	5.97962	5.650284	177.946	1232.652
13:45:13	13.55	1.43	7.84	3.30	2.98	95.16	670.85	2.709689	14.82622	6.24656	5.634421	179.9901	1268.879
13:46:13	13.71	1.42	10.90	3.37	2.81	91.96	671.00	2.736521	21.07123	6.505326	5.425747	177.7457	1296.965
13:47:13	13.87	1.41	13.04	3.45	2.66	91.46	671.07	2.779504	25.78429	6.820169	5.263353	180.8031	1326.646
13:48:13	14.04	1.39	13.08	3.49	2.55	88.12	658.73	2.821845	26.52269	7.075282	5.163061	178.627	1335.229
13:49:13	14.21	1.42	13.77	3.44	2.46	84.01	670.46	2.955022	28.59334	7.139219	5.116316	174.4925	1392.597
13:50:13	14.34	1.41	13.98	3.54	2.34	79.79	671.60	2.988819	29.646	7.496845	4.970357	169.1733	1424.007

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
13:51:12	14.44	1.44	11.74	3.65	2.24	77.65	671.73	3.094116	25.2657	7.855521	4.815672	167.0859	1445.338
13:52:12	14.48	1.54	12.52	3.72	2.25	79.14	671.90	3.343771	27.11955	8.053983	4.880691	171.4027	1455.251
13:53:12	14.50	1.55	6.52	3.70	2.08	74.10	632.61	3.366859	14.16051	8.03865	4.528818	161.0373	1374.884
13:54:12	14.72	1.53	4.94	3.72	1.91	70.03	589.33	3.440041	11.10629	8.361372	4.288738	157.5403	1325.777
13:55:12	14.89	1.52	4.90	3.81	1.97	69.48	589.51	3.51211	11.3216	8.810286	4.558131	160.5744	1362.501
13:56:12	14.46	1.61	2.15	3.75	2.09	68.06	589.49	3.46472	4.634513	8.097709	4.505955	146.8706	1272.066
13:57:12	14.47	1.64	1.33	3.57	1.96	66.45	534.52	3.550157	2.878006	7.721747	4.244647	143.5423	1154.699
14:03:15	13.28	1.71	2.13	3.33	2.82	71.61	671.10	3.118194	3.888241	6.068581	5.141543	130.6971	1224.84
14:04:15	13.92	1.65	2.13	3.50	2.11	66.90	643.18	3.294014	4.233377	6.959179	4.210208	133.1974	1280.634
14:05:14	14.67	1.67	2.50	3.54	2.06	64.96	671.19	3.733469	5.572719	7.892521	4.604363	144.851	1496.596
14:06:14	14.42	1.65	2.55	3.41	2.05	63.16	642.88	3.535186	5.469065	7.302513	4.394385	135.4463	1378.58
14:07:14	14.42	1.66	1.86	3.49	2.24	65.28	630.14	3.554521	3.992067	7.483655	4.799914	139.9295	1350.751
14:08:14	13.70	1.64	1.64	3.40	2.22	63.46	588.23	3.170492	3.163006	6.573926	4.282879	122.5574	1136.103
14:09:14	14.08	1.55	1.29	3.34	2.22	64.14	588.38	3.154559	2.634064	6.801586	4.528243	130.7088	1199.099
14:10:14	13.55	1.59	2.86	3.37	3.39	74.58	629.40	3.002802	5.415752	6.37409	6.415211	141.0741	1190.621
14:11:14	13.07	1.57	3.29	3.31	2.80	84.71	588.15	2.792097	5.838662	5.865449	4.972448	150.3133	1043.573
14:12:14	14.10	1.56	2.81	3.51	2.28	75.29	629.99	3.181887	5.75388	7.169174	4.661357	153.9404	1288.021
14:13:14	14.38	1.53	2.65	3.48	2.41	65.85	671.77	3.26857	5.647729	7.407434	5.141133	140.2833	1431.162
14:14:14	13.50	1.51	2.96	3.28	2.58	62.40	589.04	2.842166	5.564346	6.158996	4.85613	117.2557	1106.826
14:15:14	13.84	1.55	3.21	3.36	2.21	59.12	602.25	3.04357	6.318356	6.610915	4.345982	116.3487	1185.27
14:16:14	13.79	1.62	4.34	3.50	3.27	65.62	659.05	3.164232	8.474021	6.828995	6.386413	128.2099	1287.605
14:17:14	12.82	1.61	4.60	3.42	3.27	65.15	727.90	2.77894	7.913831	5.893932	5.633707	112.1183	1252.678
14:18:13	13.53	1.64	4.20	3.53	2.77	63.11	810.38	3.094017	7.913628	6.650573	5.217163	119.0294	1528.489
14:19:13	14.14	1.78	6.70	4.33	2.20	61.15	837.64	3.649309	13.77409	8.900226	4.519115	125.6682	1721.394
14:20:13	14.53	1.76	10.14	4.34	2.22	61.01	770.32	3.843558	22.13385	9.479298	4.844041	133.1587	1681.295
14:21:13	14.44	1.70	7.61	3.71	2.12	62.28	728.46	3.666776	16.38506	7.979789	4.557677	134.0741	1568.264
14:22:13	14.23	1.64	5.42	3.48	2.46	61.83	670.72	3.425059	11.3042	7.248274	5.130883	128.8671	1398.01

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN----------					
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
14:23:13	13.51	1.70	3.54	3.44	3.00	66.16	644.27	3.189974	6.650646	6.466976	5.644224	124.3868	1211.335
14:24:13	13.51	1.59	2.41	3.84	2.36	61.94	502.80	2.990731	4.533948	7.220959	4.43855	116.4484	945.322
14:25:13	14.41	1.56	1.56	3.94	2.03	58.27	501.87	3.346549	3.346495	8.432445	4.356887	124.7595	1074.52
14:26:13	14.50	1.54	0.84	3.82	2.03	54.08	501.90	3.353936	1.83353	8.289212	4.41818	117.4365	1089.901
14:27:13	14.04	1.48	0.61	3.71	2.23	52.97	456.06	3.001408	1.242735	7.508781	4.510364	107.3107	923.9862
14:28:13	14.35	1.52	0.37	3.84	1.66	49.34	406.27	3.227608	0.785116	8.15082	3.525199	104.7666	862.5989
14:29:13	14.94	1.48	0.11	4.18	1.60	49.13	406.12	3.459291	0.253146	9.741492	3.738362	114.5865	947.2313
14:30:13	14.86	1.53	0.54	4.22	2.22	53.11	467.84	3.519377	1.252954	9.711981	5.119074	122.2422	1076.756
14:31:12	13.54	1.56	1.07	4.06	3.03	81.56	422.98	2.939098	2.021507	7.675367	5.729389	154.0204	798.7968
14:32:12	13.90	1.55	0.74	3.87	2.19	91.66	405.65	3.078097	1.473724	7.68149	4.344124	182.1233	806.0168
14:33:12	14.68	1.52	0.56	4.04	2.01	78.34	405.90	3.405159	1.251158	9.021728	4.494915	175.0009	906.7401
14:34:12	14.48	1.45	0.34	3.99	2.14	72.10	405.98	3.141952	0.737583	8.633708	4.624951	156.1139	879.0779
14:35:12	14.41	1.45	0.36	3.78	1.97	68.64	406.24	3.115942	0.777799	8.096275	4.21581	147.0444	870.2617
14:36:12	14.67	1.43	0.34	3.86	1.74	63.07	406.24	3.191255	0.753105	8.609882	3.8857	140.7885	906.8208
14:37:12	14.83	1.43	0.27	4.00	1.92	58.95	450.96	3.272051	0.624022	9.157293	4.396094	135.0488	1033.169
14:38:12	14.10	1.46	0.65	4.04	2.88	64.18	545.74	2.985474	1.321442	8.251962	5.882689	131.1372	1115.032
14:39:12	14.02	1.51	0.46	3.88	2.35	66.93	409.69	3.042522	0.937056	7.838273	4.74362	135.247	827.8599
14:40:12	14.38	1.44	0.27	3.80	2.29	69.77	406.33	3.062979	0.579827	8.090836	4.886285	148.7352	866.1791
14:41:12	14.40	1.37	0.03	3.81	2.15	67.25	406.36	2.92379	0.073148	8.14302	4.606177	143.7611	868.6773
14:42:12	14.51	1.37	-0.18	4.00	2.01	63.41	406.39	2.975073	-0.38295	8.711497	4.37177	138.0181	884.4779
14:43:12	14.57	1.37	-0.25	3.99	1.92	60.99	406.71	3.000823	-0.53867	8.768719	4.209145	133.9821	893.5267
14:44:11	14.75	1.39	-0.29	3.96	1.86	57.13	406.90	3.130604	-0.6477	8.958578	4.209328	129.0987	919.4228
14:45:11	14.27	1.38	0.11	3.99	3.05	61.46	422.89	2.896594	0.222994	8.377558	6.389916	128.9133	886.969
14:46:11	13.25	1.42	-0.18	3.93	2.62	56.36	354.19	2.580347	-0.33424	7.146984	4.769692	102.4514	643.8621
14:47:11	14.61	1.43	-0.61	4.05	1.65	48.42	322.18	3.155983	-1.34591	8.962125	3.639929	107.0809	712.5289
14:48:11	15.17	1.48	-0.65	4.02	1.47	46.49	322.28	3.586592	-1.58222	9.763452	3.561979	112.7885	781.9633
14:49:11	15.20	1.53	-0.78	4.06	1.53	46.61	322.43	3.719521	-1.9037	9.889505	3.732441	113.6646	786.2888

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
14:50:11	14.82	1.41	-0.85	4.16	1.83	46.14	313.28	3.229353	-1.95466	9.511487	4.185977	105.5435	716.5638
14:51:11	14.60	1.41	-0.65	4.19	1.94	42.55	319.43	3.113254	-1.4398	9.244289	4.276462	93.90208	704.8624
14:52:11	14.14	1.42	-0.05	4.10	2.69	54.37	322.28	2.929662	-0.1098	8.436964	5.540436	111.8057	662.7791
14:53:11	14.58	1.52	-0.41	4.12	1.37	51.20	322.48	3.341064	-0.89574	9.051611	3.009175	112.5458	708.7905
14:54:11	15.60	1.57	-0.63	4.24	1.46	58.56	322.25	4.119585	-1.64718	11.11572	3.814792	153.52	844.8422
14:55:11	15.22	1.57	-0.49	4.29	1.44	58.07	322.29	3.844243	-1.21009	10.49037	3.532137	142.0454	788.4332
14:56:11	15.34	1.60	-0.53	4.12	1.32	57.25	322.34	3.997516	-1.32425	10.28924	3.306177	142.9951	805.1905
14:57:10	15.44	1.63	-0.41	4.06	1.26	57.69	294.36	4.155381	-1.05017	10.33404	3.216803	146.9792	749.9339
14:58:10	15.48	1.56	-0.53	4.10	1.40	55.36	308.42	4.000158	-1.3503	10.52382	3.593352	141.9639	790.8647
14:59:10	14.28	1.31	0.23	4.25	3.03	67.18	322.21	2.753361	0.491917	8.917948	6.36431	141.0939	676.7191
15:00:10	13.60	1.39	-0.10	4.01	2.20	70.52	322.37	2.639786	-0.18635	7.634667	4.180087	134.273	613.7881
15:01:10	14.92	1.40	-0.08	4.05	1.74	75.21	388.28	3.245662	-0.18647	9.408841	4.052559	174.7643	902.2053
15:02:10	15.15	1.42	-0.14	4.10	1.69	65.63	407.56	3.428865	-0.33103	9.914974	4.089028	158.7081	985.5196
15:03:10	14.94	1.36	-0.34	4.21	1.85	62.89	407.49	3.169283	-0.79117	9.829689	4.314459	146.6774	950.4159
15:04:10	14.82	1.33	-0.57	4.13	1.74	59.20	407.76	3.051364	-1.2946	9.45051	3.990595	135.4339	932.834
15:05:10	14.96	1.37	-0.52	4.18	1.74	59.54	432.11	3.206249	-1.20943	9.781051	4.064783	139.2481	1010.561
15:06:10	14.36	1.27	-0.42	4.50	2.72	65.65	463.43	2.701478	-0.88929	9.567008	5.775656	139.5899	985.4256
15:07:10	13.64	1.30	-0.37	4.44	2.46	67.48	357.98	2.48325	-0.70262	8.50239	4.715699	129.14	685.0405
15:08:10	14.56	1.31	-0.31	3.92	1.99	65.42	358.68	2.869004	-0.67059	8.593752	4.361739	143.4496	786.5035
15:09:10	14.72	1.29	-0.57	3.88	2.13	61.67	408.00	2.910138	-1.27855	8.723835	4.78817	138.7712	918.0749
15:10:10	14.49	1.32	-0.24	3.89	2.08	61.19	350.52	2.854854	-0.51777	8.444566	4.518067	132.689	760.1287
15:11:09	14.55	1.43	-0.39	4.04	2.01	60.16	364.26	3.130849	-0.85808	8.836017	4.403943	131.6672	797.1978
15:12:09	14.68	1.56	-0.63	3.90	1.85	56.49	329.59	3.481844	-1.41656	8.718101	4.142142	126.3187	737.0015
15:13:09	14.87	1.63	-0.66	3.98	1.74	53.94	322.38	3.768408	-1.51697	9.179814	4.011356	124.354	743.2683
15:14:09	14.98	1.79	-0.30	3.94	1.60	51.19	356.88	4.200842	-0.70765	9.26029	3.757333	120.2035	838.0898

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
15:15:09	15.24	1.71	-0.18	3.84	1.49	48.93	372.01	4.194677	-0.44491	9.431526	3.664282	120.1969	913.7938
15:16:09	15.24	1.62	-0.23	4.00	1.52	48.68	321.50	3.965003	-0.57533	9.810826	3.718356	119.4538	788.9578
15:17:09	15.28	1.64	-0.35	3.98	1.40	46.39	321.37	4.065701	-0.86554	9.853669	3.454082	114.8139	795.3361
15:18:09	15.26	1.62	9.78	5.14	2.68	64.70	448.42	3.989085	24.10493	12.65767	6.61331	159.4158	1104.887
15:20:09	11.05	1.28	2.07	6.04	4.75	107.43	421.66	1.812666	2.919074	8.519429	6.705006	151.5905	594.9911
15:21:09	12.19	1.30	1.23	3.67	4.40	124.63	476.78	2.069394	1.966254	5.851453	7.016998	198.8761	760.7905
15:22:09	12.40	1.28	1.11	3.47	4.33	123.32	501.16	2.09241	1.814046	5.672551	7.079835	201.5873	819.2308
15:23:09	12.43	1.33	1.31	3.44	4.84	126.32	500.84	2.185274	2.150641	5.644057	7.939998	207.2169	821.5886
15:24:08	11.66	1.33	1.29	3.58	4.97	123.25	500.89	2.006774	1.935866	5.388144	7.484099	185.4292	753.6108
15:25:08	12.16	1.30	1.49	3.46	4.63	114.85	501.14	2.072862	2.369874	5.497631	7.366803	182.5967	796.739
15:26:08	12.17	1.28	1.55	3.26	4.44	112.60	501.66	2.039092	2.471008	5.188699	7.06987	179.3279	798.9311
15:27:08	12.40	1.27	1.52	3.26	4.25	108.23	501.72	2.081502	2.486318	5.330725	6.945933	177.0681	820.8418
15:28:08	12.54	1.28	2.37	3.36	4.64	111.31	549.32	2.130759	3.935253	5.594899	7.726434	185.1684	913.8103
15:29:08	11.42	1.27	3.18	3.38	5.68	115.51	558.38	1.867042	4.657128	4.95248	8.324016	169.4155	818.9791
15:30:08	11.36	1.27	2.52	3.23	4.60	107.95	511.10	1.854619	3.67172	4.699368	6.707255	157.2523	744.547
15:31:08	12.77	1.27	1.93	3.24	3.76	102.04	497.37	2.173784	3.308933	5.548004	6.436499	174.5197	850.6159
15:32:08	13.18	1.26	1.98	3.31	3.39	99.29	459.01	2.27497	3.566591	5.954656	6.110863	178.861	826.8434
15:33:08	13.53	1.30	2.06	3.44	3.08	97.75	502.02	2.452853	3.882167	6.496425	5.80831	184.4508	947.3119
15:34:08	13.81	1.29	1.95	3.34	2.95	96.79	501.95	2.535775	3.822642	6.552814	5.78503	189.7645	984.0571
15:35:08	13.92	1.29	1.51	3.39	2.79	95.16	486.11	2.563198	3.009068	6.747533	5.547862	189.5358	968.2653
15:36:08	14.16	1.26	1.51	3.45	2.65	93.11	502.03	2.608919	3.115139	7.11977	5.461582	192.1305	1035.948
15:37:07	14.24	1.27	1.30	3.65	2.49	87.83	502.35	2.641666	2.723598	7.625989	5.189187	183.339	1048.627
15:38:07	14.39	1.29	1.20	3.86	2.36	83.71	486.26	2.765065	2.553232	8.251946	5.04326	178.7474	1038.379
15:39:07	14.46	1.26	1.18	4.01	2.30	82.91	502.34	2.721581	2.541569	8.66299	4.966458	178.8977	1083.961
15:40:07	14.51	1.29	1.09	4.10	2.24	79.30	469.92	2.803037	2.380199	8.916879	4.864368	172.4183	1021.679
15:41:07	14.48	1.31	0.69	4.16	2.23	77.16	469.92	2.829519	1.489628	9.015419	4.837367	167.0236	1017.179
15:42:07	14.64	1.25	0.52	4.30	2.22	75.29	502.40	2.769194	1.151956	9.541321	4.933767	167.224	1115.921

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								-----CORRECTED TO 7% OXYGEN-----					
15:43:07	14.20	1.28	0.50	3.96	2.54	74.23	503.13	2.649073	1.030132	8.205266	5.27341	153.8846	1043.094
15:44:07	14.06	1.27	0.50	3.82	2.19	72.38	435.83	2.57673	1.015309	7.773671	4.450896	147.1244	885.8928
15:45:07	14.67	1.27	0.47	4.08	2.14	72.98	458.81	2.840795	1.058055	9.108398	4.779896	162.9502	1024.396
15:46:07	14.14	1.29	0.40	4.53	2.51	75.20	452.31	2.65818	0.823874	9.319203	5.153923	154.7175	930.5388
15:47:07	14.03	1.33	0.29	3.97	2.40	73.47	441.53	2.686044	0.579826	8.019506	4.844243	148.5835	892.9531
15:48:07	14.56	1.43	0.28	4.04	2.07	71.09	453.83	3.13148	0.616097	8.842669	4.539003	155.7896	994.5276
15:49:07	14.53	1.47	0.24	3.95	2.43	71.53	469.86	3.216235	0.534488	8.624929	5.301397	156.0487	1025.071
15:50:06	14.11	1.62	0.16	3.78	2.42	71.76	483.68	3.322022	0.328625	7.732907	4.94729	146.8479	989.733
15:51:06	14.34	1.63	-0.39	3.94	2.18	68.26	405.43	3.446379	-0.82186	8.359843	4.615567	144.6799	859.3186
15:52:06	14.50	1.66	-0.55	3.87	2.13	65.70	404.95	3.596366	-1.1845	8.400782	4.619628	142.677	879.4273
15:53:06	14.48	1.73	-0.54	3.71	2.10	67.22	404.27	3.745198	-1.16031	8.045331	4.560407	145.6266	875.8632
15:54:06	14.54	1.78	-0.64	3.76	1.99	65.79	403.71	3.893258	-1.4005	8.218671	4.342206	143.7531	882.1829
15:55:06	14.85	1.82	-0.94	3.83	1.69	59.49	402.06	4.174386	-2.16281	8.804697	3.874069	136.6694	923.7186
15:56:06	14.74	1.75	-0.75	3.93	2.33	62.05	390.53	3.955443	-1.69236	8.854755	5.245417	139.9211	880.6395
15:57:06	13.69	1.74	-0.72	3.55	2.18	62.48	402.08	3.35655	-1.38419	6.85446	4.202779	120.5021	775.5105
15:58:06	14.74	1.63	-0.81	3.75	1.75	60.47	401.68	3.67884	-1.81831	8.451286	3.951385	136.3484	905.7329
15:59:06	14.63	1.56	-0.89	3.77	2.31	64.60	401.41	3.46142	-1.96599	8.350154	5.115867	143.1343	889.3395
16:00:06	13.62	1.52	-0.84	3.49	2.36	63.08	401.29	2.905775	-1.61191	6.662614	4.515397	120.4506	766.2845
16:01:06	14.09	1.58	-0.84	3.78	2.12	61.46	401.21	3.226756	-1.72291	7.707403	4.33437	125.4238	818.7781
16:02:06	14.37	1.57	-0.71	3.58	2.04	58.81	401.08	3.333645	-1.50244	7.627242	4.333462	125.1958	853.7666
16:03:05	14.40	1.45	-0.80	3.70	1.96	56.06	400.97	3.104439	-1.7194	7.918563	4.201903	119.951	858.0331
16:04:05	14.49	1.50	-0.72	3.86	1.92	55.37	400.80	3.258237	-1.56226	8.362585	4.172176	120.023	868.7998
16:05:05	14.51	1.44	-0.79	3.78	1.89	53.98	401.00	3.129777	-1.71608	8.225812	4.114194	117.4617	872.6463
16:06:05	14.54	1.36	-0.85	4.08	1.82	54.01	386.72	2.979385	-1.85148	8.911814	3.982906	117.9681	844.6829
16:07:05	14.68	1.41	-0.87	4.05	1.54	52.84	358.29	3.154668	-1.95489	9.048884	3.432752	118.1297	800.9309
16:08:05	15.24	1.47	-0.94	4.21	1.42	51.85	330.76	3.598848	-2.31639	10.33171	3.497135	127.3035	812.1015
16:09:05	15.28	1.56	-0.86	4.21	1.38	50.39	330.47	3.847989	-2.12998	10.40737	3.405778	124.5544	816.8845

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
16:10:05	15.27	1.50	-0.71	4.26	1.52	49.06	344.54	3.70272	-1.76402	10.52898	3.756394	121.2047	851.1298
16:11:05	14.71	1.44	-0.64	4.86	2.03	44.30	344.11	3.239055	-1.43159	10.9207	4.560765	99.47877	772.7468
16:12:05	14.87	1.58	-0.81	4.44	1.60	49.08	316.94	3.653048	-1.86431	10.24449	3.680363	113.1723	730.7484
16:13:05	15.15	1.68	-0.95	4.31	1.28	48.07	317.01	4.067638	-2.28923	10.42645	3.090142	116.1919	766.2391
16:14:05	15.79	1.71	-0.87	4.35	1.16	49.15	331.49	4.662123	-2.37106	11.82857	3.1673	133.6901	901.6716
16:15:05	15.30	1.53	-0.88	4.14	1.77	49.03	317.23	3.807164	-2.18399	10.2923	4.399891	121.746	787.7866
16:16:04	14.55	1.52	-0.95	4.31	1.53	47.96	317.50	3.326636	-2.07036	9.438255	3.350185	105.0506	695.3951
16:17:04	15.63	1.67	-0.89	4.46	1.12	48.52	317.57	4.40986	-2.34425	11.75166	2.959973	127.8639	836.9578
16:18:04	15.00	1.39	-0.48	4.82	3.00	49.88	360.47	3.283607	-1.12107	11.34466	7.06361	117.4225	848.6339
16:19:04	13.75	1.45	-0.49	4.67	2.37	46.76	317.88	2.823804	-0.96187	9.090571	4.600564	90.92632	618.1758
16:20:04	14.93	1.45	-0.65	4.68	1.73	45.91	317.99	3.386753	-1.51679	10.90946	4.037741	106.9127	740.5747
16:21:04	15.32	1.58	-0.82	5.29	1.50	44.00	318.06	3.940408	-2.03107	13.16476	3.724947	109.6097	792.2517
16:22:04	15.44	1.57	-0.96	5.39	1.74	40.84	318.11	4.003222	-2.44063	13.72945	4.440664	104.0408	810.3593
(pre & post	14.36	1.68	3.07	3.82	2.07	63.65	515.90	3.66	5.95	8.28	4.27	134.13	1095.49
port change	14.15	1.46	0.33	3.97	2.50	72.30	419.06	3.11	0.49	8.46	4.97	146.00	867.98
averages)													
FINAL AVE.	14.30	1.61	2.24	3.87	2.20	66.28	486.46	3.49	4.29	8.34	4.49	137.74	1026.34
	0.06	0.18	2.13	0.10	0.43	0.31	0.26	0.27	2.07	0.19	0.31	0.21	0.23

BORGESS MEDICAL WASTE

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
								----------CORRECTED TO 7% OXYGEN-----				
10:05:45	13.71	1.89	6.35	3.24	4.23	75.93	408.20	3.65	12.29	6.27	8.18	146.85
10:06:45	13.78	1.73	6.15	3.30	4.28	76.68	408.17	3.38	12.00	6.44	8.36	149.70
10:07:45	13.75	1.74	5.42	3.27	4.11	69.10	408.27	3.39	10.54	6.36	8.00	134.38
10:08:45	13.82	1.78	4.77	3.25	3.93	58.77	408.46	3.49	9.36	6.37	7.70	115.31
10:09:45	14.01	1.78	4.34	3.36	3.68	52.93	408.65	3.60	8.76	6.77	7.43	106.80
10:10:45	14.15	1.72	4.67	3.59	3.89	52.09	441.70	3.54	9.60	7.40	8.00	107.22
10:11:45	13.60	1.86	4.23	3.84	3.95	55.84	472.78	3.55	8.06	7.32	7.53	106.40
10:12:45	13.50	1.86	3.44	3.27	4.12	54.24	472.99	3.48	6.46	6.15	7.74	101.85
10:13:45	13.33	1.86	3.33	3.31	3.08	49.00	408.94	3.42	6.11	6.08	5.66	90.01
10:14:45	14.50	1.82	3.29	3.61	3.53	50.16	505.96	3.95	7.14	7.83	7.66	108.93
10:15:45	13.05	1.84	2.96	3.34	3.33	49.85	457.23	3.26	5.24	5.91	5.90	88.24
10:16:45	14.67	1.76	3.11	3.80	2.65	45.72	424.96	3.94	6.94	8.48	5.91	102.05
10:17:45	13.87	1.73	3.27	3.70	3.65	49.18	506.12	3.42	6.46	7.31	7.22	97.28
10:18:45	13.92	1.82	3.25	3.86	2.90	45.43	537.69	3.62	6.47	7.69	5.77	90.49
10:19:45	13.71	1.77	5.95	4.13	4.94	54.89	549.37	3.42	11.49	7.98	9.55	106.09
10:20:44	12.90	2.87	5.50	3.71	3.86	55.54	409.04	4.98	9.56	6.45	6.71	96.50
10:21:44	14.60	2.12	5.56	4.07	3.06	56.67	409.01	4.67	12.28	8.98	6.75	125.02
10:22:44	14.86	1.84	5.29	4.47	3.20	53.71	409.09	4.23	12.18	10.30	7.36	123.65
10:23:44	14.03	2.97	4.69	4.44	3.30	56.75	409.15	6.01	9.49	8.99	6.68	114.90
10:24:44	14.89	2.22	4.26	4.32	2.26	52.95	409.20	5.13	9.86	10.00	5.23	122.41
10:25:44	15.27	1.85	3.89	4.26	3.14	57.12	409.15	4.57	9.59	10.51	7.74	140.99
10:26:44	13.30	2.16	5.32	3.92	4.36	69.66	505.47	3.94	9.72	7.16	7.96	127.33
10:27:44	13.31	1.95	6.22	3.87	4.17	79.07	576.82	3.58	11.40	7.09	7.63	144.81
10:28:44	14.00	2.01	6.27	4.02	3.54	93.87	632.20	4.04	12.64	8.11	7.12	189.08
10:29:44	14.32	2.00	6.42	4.06	3.37	98.84	620.01	4.22	13.56	8.58	7.11	208.71
10:30:44	14.54	1.96	6.91	4.00	3.17	98.85	604.75	4.28	15.09	8.74	6.92	215.92
10:31:44	14.72	1.87	7.09	3.98	3.01	98.85	618.83	4.20	15.95	8.96	6.77	222.37

BORGESS MEDICAL WASTE

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
								----------CORRECTED TO 7% OXYGEN-----				
10:32:44	14.81	1.87	6.55	4.01	2.81	96.12	590.11	4.26	14.95	9.16	6.42	219.29
10:33:43	14.50	1.81	8.48	4.10	4.25	92.31	744.43	3.93	18.40	8.90	9.23	200.45
10:34:43	13.16	1.86	6.16	3.96	3.79	88.99	564.64	3.34	11.06	7.11	6.80	159.73
10:35:43	14.65	1.85	4.15	3.84	2.71	76.93	503.60	4.11	9.23	8.53	6.02	171.14
10:36:43	15.29	1.82	4.05	3.90	2.48	58.86	470.91	4.51	10.02	9.65	6.14	145.74
10:37:43	14.54	1.72	4.36	3.85	3.45	52.72	503.81	3.77	9.52	8.42	7.55	115.18
10:38:43	14.23	2.06	3.90	3.83	2.29	51.67	408.77	4.29	8.14	7.99	4.77	107.70
10:39:43	15.67	2.02	3.66	3.95	2.17	49.38	436.14	5.38	9.73	10.51	5.77	131.35
10:40:43	14.61	1.92	3.98	3.86	3.84	54.96	503.91	4.25	8.79	8.54	8.49	121.46
10:41:43	13.19	4.35	5.21	3.70	3.34	54.93	504.03	7.85	9.40	6.66	6.01	98.97
10:42:43	15.34	1.99	4.28	3.88	2.24	43.08	504.13	4.98	10.69	9.70	5.60	107.62
10:43:43	15.11	1.79	3.73	3.81	3.06	46.33	558.79	4.29	8.95	9.16	7.34	111.25
10:44:43	14.17	2.21	3.40	3.76	2.28	36.19	590.76	4.57	7.02	7.76	4.72	74.71
10:45:43	15.85	1.95	3.10	3.93	2.22	32.44	590.98	5.37	8.52	10.81	6.09	89.22
10:46:42	14.43	1.76	3.12	3.69	2.69	36.43	551.07	3.78	6.71	7.92	5.78	78.23
10:47:42	14.99	1.89	3.14	3.85	1.91	33.37	515.21	4.44	7.37	9.05	4.49	78.43
10:48:42	15.09	1.72	4.72	4.16	3.96	43.86	643.46	4.13	11.30	9.97	9.49	105.02
10:49:42	12.63	6.17	4.65	4.20	3.82	50.74	674.84	10.36	7.82	7.05	6.42	85.27
10:50:42	14.77	2.08	4.18	3.82	2.48	44.25	608.34	4.72	9.47	8.66	5.63	100.27
10:51:42	15.36	1.93	4.29	3.86	2.31	42.28	672.48	4.85	10.77	9.68	5.79	106.14
10:52:42	15.45	1.90	5.13	3.79	2.41	44.22	689.46	4.85	13.08	9.67	6.15	112.77
10:53:42	14.57	2.38	4.74	3.73	2.95	47.43	660.74	5.23	10.42	8.20	6.48	104.18
10:54:42	14.53	3.15	4.92	4.01	3.06	51.86	756.93	6.88	10.73	8.73	6.67	113.08
10:55:42	14.85	1.85	4.57	4.11	2.37	45.81	760.84	4.25	10.51	9.43	5.44	105.23
10:56:42	14.68	1.86	4.43	3.83	3.05	46.01	722.43	4.15	9.89	8.56	6.81	102.76
10:57:42	14.86	4.06	4.10	3.78	1.85	37.13	675.26	9.35	9.44	8.69	4.27	85.47
10:58:42	15.78	1.82	3.56	3.78	2.55	43.96	675.12	4.94	9.66	10.27	6.92	119.36

BORGESS MEDICAL WASTE
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
								----------CORRECTED TO 7% OXYGEN-----				
10:59:41	13.98	2.01	3.36	3.67	2.37	39.64	609.74	4.04	6.75	7.37	4.76	79.68
11:00:41	15.91	2.19	3.05	3.86	1.73	33.27	591.63	6.11	8.50	10.74	4.82	92.64
11:01:41	14.81	1.66	2.82	3.82	2.93	42.75	591.35	3.80	6.44	8.71	6.68	97.52
11:02:41	14.12	1.67	3.11	3.86	2.80	43.81	582.01	3.42	6.36	7.92	5.74	89.77
11:03:41	14.78	1.78	3.17	3.83	2.46	43.47	413.24	4.05	7.21	8.71	5.60	98.78
11:04:41	15.25	1.73	2.97	3.87	2.54	42.00	424.31	4.26	7.31	9.53	6.25	103.36
11:05:41	14.50	1.69	3.02	3.83	2.74	42.85	440.68	3.66	6.56	8.31	5.95	93.02
11:06:41	14.67	1.72	2.88	3.82	2.40	41.24	408.03	3.83	6.43	8.52	5.36	91.98
11:07:41	14.88	1.82	2.77	3.84	2.33	41.85	408.01	4.21	6.41	8.87	5.37	96.70
11:08:41	14.94	1.76	2.73	3.79	2.29	41.65	408.06	4.10	6.36	8.85	5.34	97.16
11:09:41	14.75	1.65	3.34	3.83	3.48	53.58	482.48	3.74	7.55	8.65	7.87	121.01
11:10:41	13.57	3.88	3.00	3.69	2.70	45.85	414.31	7.36	5.69	7.01	5.13	86.99
11:11:41	15.63	1.79	2.83	3.92	2.52	46.60	407.99	4.73	7.45	10.33	6.64	122.83
11:12:40	14.03	1.66	2.74	4.02	2.94	43.14	408.07	3.36	5.55	8.14	5.96	87.31
11:13:40	15.31	1.92	2.82	4.06	1.82	28.30	408.62	4.78	7.01	10.10	4.53	70.35
11:14:40	15.08	1.65	2.65	3.94	3.14	41.15	440.86	3.94	6.34	9.40	7.51	98.24
11:15:40	13.75	1.65	2.57	3.73	2.42	42.73	408.07	3.21	5.00	7.26	4.70	83.08
11:16:40	15.52	1.70	2.69	3.90	2.33	40.55	465.38	4.40	6.94	10.10	6.01	104.85
11:17:40	13.87	1.62	3.60	3.75	4.36	51.54	497.01	3.19	7.12	7.40	8.61	101.85
11:18:40	13.23	1.57	3.08	3.30	2.77	37.31	408.40	2.84	5.58	5.97	5.02	67.58
11:19:40	15.17	1.56	2.65	3.53	2.58	33.90	408.51	3.79	6.43	8.58	6.27	82.25
11:20:40	13.73	1.57	2.87	3.33	3.66	46.00	471.74	3.04	5.56	6.46	7.09	89.20
11:21:40	13.17	1.77	3.61	3.39	3.44	67.79	525.25	3.17	6.49	6.10	6.19	121.88
11:22:40	14.82	1.67	3.69	3.45	3.04	61.74	569.67	3.81	8.43	7.88	6.96	141.17
11:23:40	14.03	1.54	3.59	3.39	3.98	65.19	591.18	3.12	7.27	6.87	8.05	131.97
11:24:40	13.30	2.58	3.67	3.30	3.77	65.66	591.24	4.71	6.71	6.03	6.89	120.14
11:25:39	14.09	3.18	4.65	3.42	4.02	65.84	668.07	6.50	9.49	6.98	8.21	134.35

BORGESS MEDICAL WASTE

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dr,)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	----------CORRECTED TO 7% OXYGEN----- THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
11:26:39	13.14	1.64	5.2	3.38	4.78	67.77	626.68	2.94	9.37	6.05	8.57	121.47
11:27:39	13.38	2.42	4.91	3.14	3.93	65.68	625.25	4.47	9.07	5.80	7.26	121.38
11:28:39	14.24	1.59	4.5	3.30	3.53	64.79	626.88	3.31	9.43	6.88	7.36	135.16
11:29:39	13.77	1.53	4.3	3.16	4.15	66.18	591.02	2.98	8.42	6.16	8.08	129.01
11:30:39	13.24	1.57	4.1	3.04	3.59	63.76	591.09	2.85	7.61	5.53	6.52	115.77
11:31:39	14.12	1.56	4.31	3.25	3.35	64.66	591.09	3.19	8.83	6.66	6.85	132.47
11:32:39	14.02	1.52	4.9	3.19	4.06	72.17	652.82	3.06	10.04	6.46	8.20	145.86
11:33:39	12.51	1.51	5.51	2.97	4.87	95.64	709.00	2.50	9.13	4.92	8.07	158.50
11:34:39	13.55	1.63	4.8	3.09	3.42	84.64	765.47	3.08	9.25	5.85	6.46	160.01
11:35:39	14.20	1.51	5.9	3.23	3.93	83.72	837.92	3.13	12.42	6.70	8.16	173.67
11:36:39	13.05	1.52	6.6	3.01	3.93	83.81	760.51	2.68	11.78	5.33	6.95	148.35
11:37:39	13.82	1.50	7.7	3.17	3.32	76.93	760.51	2.95	15.16	6.22	6.53	151.09
11:38:38	14.15	1.50	8.2	3.13	3.40	76.82	749.87	3.09	16.97	6.45	7.00	158.24
11:39:38	13.18	1.59	8.6	3.04	5.32	93.38	792.07	2.87	15.61	5.47	9.58	168.14
11:40:38	12.17	2.97	5.4	2.99	4.50	89.39	722.63	4.73	8.69	4.76	7.16	142.29
11:41:38	13.88	1.58	6.2	3.20	3.43	72.76	764.81	3.12	12.33	6.34	6.80	144.09
11:42:38	14.47	1.56	5.8	3.57	3.34	73.46	861.48	3.37	12.62	7.72	7.22	158.88
11:43:38	13.77	1.60	9.84	3.31	4.10	75.30	914.11	3.11	19.20	6.47	8.00	146.89
11:44:38	13.12	1.56	11.45	3.09	3.66	72.30	955.28	2.78	20.46	5.52	6.55	129.20
11:45:38	13.63	1.60	18.3	3.38	4.18	79.32	1027.93	3.07	35.03	6.45	7.98	151.57
11:46:38	13.36	1.72	8.9	3.29	3.21	70.92	765.88	3.18	16.58	6.06	5.91	130.70
11:47:38	14.84	1.66	5.71	3.38	3.08	70.14	689.14	3.81	13.08	7.75	7.06	160.81
12:45:38	14.02	1.89	0.0	3.34	4.11	54.70	808.69	3.81	0.00	6.74	8.29	110.45
12:46:38	12.46	4.97	0.3	3.16	3.88	61.35	679.43	8.19	0.63	5.20	6.39	101.09
12:47:38	14.72	3.48	0.81	3.55	2.77	58.15	815.70	7.83	1.82	7.98	6.23	130.77

BORGESS MEDICAL WASTE
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX
	(%V,dry)	(ppmCH4,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry
								----CORRECTED TO 7% OXYGEN----				
12:48:38	14.85	1.93	1.53	3.71	3.02	60.45	815.40	4.43	3.51	8.53	6.93	138.84
12:49:38	14.53	1.83	1.65	3.56	2.87	59.17	786.48	3.99	3.61	7.76	6.27	129.16
12:50:37	14.83	1.84	5.90	3.54	2.54	55.45	815.59	4.23	13.52	8.11	5.83	126.99
12:51:37	14.79	1.85	9.65	3.64	3.45	61.75	815.29	4.21	21.95	8.27	7.85	140.39
12:52:37	13.77	1.89	4.51	3.58	3.12	61.67	815.33	3.68	8.80	6.98	6.08	120.19
12:53:37	14.82	1.90	1.32	3.57	2.48	63.97	786.16	4.35	3.01	8.16	5.66	146.26
12:54:37	15.16	1.88	2.09	3.65	2.34	62.37	786.14	4.56	5.07	8.84	5.67	151.08
12:55:37	15.21	1.93	5.46	3.74	2.31	60.97	786.18	4.72	13.33	9.14	5.63	148.93
12:56:37	15.22	2.02	7.79	3.71	2.30	61.93	815.08	4.94	19.06	9.07	5.64	151.63
12:57:37	15.05	2.53	6.84	3.70	2.88	67.17	814.85	6.02	16.25	8.79	6.85	159.63
12:58:37	14.65	2.19	3.05	3.99	2.18	49.99	852.54	4.86	6.78	8.86	4.85	111.08
12:59:37	15.92	2.11	0.49	3.80	2.07	44.39	976.43	5.88	1.36	10.63	5.77	123.99
13:00:37	15.44	3.40	3.27	3.77	2.16	45.99	1009.02	8.65	8.31	9.60	5.48	117.01
13:01:37	15.77	2.85	12.55	3.57	1.83	49.03	971.93	7.72	34.00	9.68	4.97	132.88
13:02:37	16.11	2.52	13.72	3.59	1.77	45.76	818.65	7.32	39.81	10.41	5.13	132.78
13:03:36	15.84	2.26	8.24	3.70	2.22	44.25	842.31	6.21	22.62	10.17	6.09	121.48
13:04:36	14.91	2.45	1.50	3.83	2.77	42.40	913.25	5.69	3.48	8.89	6.43	98.33
13:05:36	14.70	2.64	2.67	4.16	2.30	42.42	696.90	5.91	5.98	9.33	5.15	95.11
13:06:36	16.04	2.35	0.86	3.88	1.85	38.55	643.29	6.72	2.47	11.10	5.29	110.19
13:07:36	15.66	2.09	0.62	3.89	2.30	43.20	643.01	5.54	1.65	10.31	6.11	114.65
13:08:36	14.91	2.54	2.17	3.81	2.06	41.43	643.12	5.89	5.04	8.83	4.78	96.12
13:09:36	16.01	2.36	3.05	3.84	1.57	33.51	643.22	6.72	8.69	10.93	4.48	95.33
13:10:36	15.73	2.04	1.22	3.87	2.28	35.85	643.01	5.47	3.29	10.40	6.13	96.32
13:11:36	14.72	2.39	1.09	3.88	2.51	38.68	642.91	5.38	2.45	8.74	5.66	87.04
13:12:36	14.61	2.01	2.19	5.04	3.52	50.85	642.29	4.45	4.83	11.14	7.77	112.42
13:13:36	14.44	2.05	2.08	4.03	2.95	52.86	671.23	4.42	4.49	8.69	6.35	113.82
13:14:36	14.98	2.05	4.19	3.73	2.50	57.39	640.10	4.82	9.85	8.76	5.88	134.84

BORGESS MEDICAL WASTE

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
								----------CORRECTED TO 7% OXYGEN-----				
13:15:36	15.35	2.00	1.99	3.66	2.08	54.90	639.68	5.01	4.97	9.17	5.21	137.43
13:16:36	15.81	2.01	2.22	3.60	1.81	47.02	639.83	5.50	6.07	9.84	4.93	128.38
13:17:35	16.12	2.17	1.10	3.60	1.63	43.26	640.11	6.31	3.18	10.47	4.74	125.68
13:18:35	15.80	2.17	1.43	3.63	2.08	52.97	639.43	5.91	3.90	9.91	5.68	144.38
13:19:35	14.94	2.05	1.68	4.00	3.27	61.22	754.03	4.79	3.92	9.34	7.62	142.75
13:20:35	14.33	2.16	0.84	4.24	2.24	52.46	639.47	4.57	1.77	8.97	4.75	111.03
13:21:35	15.99	2.12	0.75	3.67	1.78	36.78	640.32	5.99	2.11	10.39	5.03	104.08
13:22:35	15.66	1.89	0.65	3.59	2.47	39.15	640.23	5.01	1.71	9.52	6.56	103.85
13:23:35	14.39	2.18	0.87	3.67	2.45	42.03	639.99	4.66	1.86	7.83	5.23	89.78
13:24:35	14.76	2.41	1.55	4.02	3.51	62.94	639.04	5.46	3.52	9.09	7.94	142.44
13:25:35	14.10	1.86	1.36	3.76	3.38	79.81	638.83	3.81	2.77	7.69	6.92	163.17
13:26:35	14.46	1.78	1.12	3.46	3.13	76.77	638.60	3.84	2.42	7.48	6.75	165.83
13:27:35	14.68	1.76	1.32	3.37	2.89	69.42	638.70	3.94	2.96	7.53	6.47	155.12
13:28:35	14.81	1.75	2.27	3.52	2.81	68.53	638.50	3.99	5.18	8.04	6.41	156.44
13:29:35	14.78	1.83	3.42	3.60	3.11	68.19	638.44	4.16	7.77	8.17	7.05	154.75
13:30:34	13.92	2.27	3.65	3.36	4.41	82.61	692.85	4.51	7.27	6.69	8.77	164.50
13:31:34	12.92	2.39	2.35	3.59	4.62	98.85	693.17	4.16	4.09	6.25	8.04	172.09
13:32:34	13.51	1.75	2.92	3.59	4.18	97.31	810.11	3.29	5.50	6.75	7.86	183.14
13:33:34	13.68	1.79	7.13	3.42	3.85	88.61	810.14	3.45	13.74	6.59	7.42	170.70
13:34:34	13.99	1.76	10.37	3.23	3.60	82.10	756.75	3.53	20.86	6.49	7.24	165.10
13:35:34	14.16	1.80	10.18	3.24	3.42	77.12	638.19	3.72	20.99	6.68	7.04	158.99
13:36:34	14.49	1.92	6.11	3.21	2.94	70.49	638.28	4.16	13.24	6.95	6.36	152.74
13:37:34	14.86	1.90	1.86	3.23	2.74	68.45	638.30	4.37	4.28	7.42	6.30	157.41
13:38:34	15.04	1.93	2.33	3.22	2.76	67.78	690.88	4.58	5.53	7.65	6.54	160.88
13:39:34	14.25	2.28	3.77	3.12	4.35	88.58	810.11	4.76	7.89	6.53	9.09	185.11
13:40:34	13.44	2.53	2.44	3.09	3.62	93.50	810.04	4.72	4.54	5.75	6.75	174.29
13:41:34	14.48	1.96	5.44	3.09	3.23	86.59	809.86	4.25	11.79	6.70	7.00	187.57

BORGESS MEDICAL WASTE

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
								----------CORRECTED TO 7% OXYGEN-----				
13:42:34	14.56	1.87	11.38	3.18	3.32	86.21	809.87	4.09	24.96	6.96	7.28	189.04
13:43:33	14.37	1.86	11.70	3.27	3.24	82.19	809.79	3.96	24.91	6.95	6.90	174.99
13:44:33	14.59	1.84	7.61	3.38	3.07	76.49	700.72	4.05	16.76	7.45	6.77	168.52
13:45:33	14.71	1.85	7.88	3.46	2.99	73.46	659.63	4.16	17.71	7.77	6.72	165.04
13:46:33	14.30	1.85	7.57	3.40	4.41	83.20	809.75	3.91	15.95	7.16	9.30	175.29
13:47:33	12.85	2.06	3.47	3.13	4.11	82.73	672.46	3.55	6.00	5.40	7.10	142.91
13:48:33	14.48	1.93	2.15	3.21	2.97	64.70	637.84	4.19	4.66	6.96	6.43	140.10
13:49:33	14.88	1.91	4.16	3.32	3.14	62.01	637.81	4.40	9.59	7.68	7.26	143.16
13:50:33	13.79	1.82	4.39	3.13	3.64	61.17	637.85	3.56	8.57	6.12	7.11	119.55
13:51:33	14.14	1.78	3.32	3.23	2.96	59.45	637.99	3.66	6.82	6.63	6.09	122.21
13:52:33	14.62	1.85	3.35	3.29	2.82	58.96	637.77	4.10	7.41	7.29	6.25	130.51
13:53:33	14.41	1.84	2.21	3.21	3.80	61.62	637.58	3.93	4.74	6.88	8.15	131.94
13:54:33	12.57	2.49	1.93	3.00	4.53	74.31	637.38	4.15	3.21	5.01	7.56	123.96
13:55:33	13.70	1.93	2.41	3.13	3.64	73.40	637.16	3.73	4.65	6.04	7.02	141.70
13:56:32	14.25	1.93	4.02	3.24	3.42	70.17	666.26	4.02	8.40	6.77	7.15	146.70
13:57:32	14.43	1.83	4.28	3.28	3.29	68.04	637.20	3.93	9.19	7.04	7.05	146.10
13:58:32	14.23	1.76	2.51	3.17	3.30	65.21	637.20	3.67	5.24	6.61	6.88	135.89
13:59:32	14.21	1.76	3.34	3.22	3.21	63.99	637.15	3.66	6.95	6.69	6.67	133.03
14:00:32	14.19	1.82	4.70	3.23	3.64	70.03	799.73	3.78	9.74	6.69	7.55	145.16
14:01:32	13.40	1.90	3.48	3.13	4.12	89.41	673.37	3.53	6.45	5.79	7.63	165.62
14:02:32	14.09	4.02	2.58	3.22	3.29	98.50	637.08	8.20	5.27	6.57	6.71	200.92
14:03:32	14.76	1.88	3.46	3.36	3.10	94.62	636.43	4.25	7.83	7.61	7.02	214.32
14:04:32	14.40	1.81	5.76	3.29	3.25	89.09	636.45	3.86	12.33	7.03	6.94	190.63
14:05:32	14.35	2.22	7.05	3.29	3.07	81.54	636.53	4.71	14.97	6.98	6.51	173.08
14:06:32	14.77	2.79	6.03	3.46	2.71	82.22	636.51	6.33	13.67	7.85	6.15	186.29
14:07:32	14.84	1.84	3.43	3.46	3.31	86.23	680.85	4.21	7.87	7.93	7.59	197.75
14:08:32	13.61	4.56	4.28	3.29	4.87	82.71	718.16	8.69	8.16	6.27	9.29	157.72

BORGESS MEDICAL WASTE
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 15, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
								----------CORRECTED TO 7% OXYGEN-----				
14:09:31	13.44	2.63	3.20	3.26	3.70	97.52	637.68	4.90	5.97	6.08	6.89	181.67
14:10:31	14.45	1.81	2.78	3.25	3.24	89.65	637.89	3.89	6.00	7.00	6.98	193.06
14:11:31	14.77	1.81	2.87	3.35	3.03	88.11	479.58	4.10	6.52	7.61	6.88	199.91
14:12:31	14.75	1.78	2.84	3.32	3.18	84.09	469.89	4.03	6.42	7.50	7.19	190.05
14:13:31	14.40	1.74	2.51	3.28	3.18	80.11	469.90	3.73	5.38	7.02	6.80	171.41
14:14:31	14.50	1.73	2.59	3.35	3.14	77.49	469.96	3.75	5.63	7.28	6.82	168.35
14:15:31	14.01	2.01	3.04	3.23	4.50	91.62	610.18	4.04	6.14	6.51	9.07	184.74
14:16:31	13.15	2.26	3.20	3.04	4.22	92.22	796.61	4.06	5.74	5.45	7.57	165.47
14:17:31	14.00	1.74	3.93	3.15	3.45	80.83	638.09	3.51	7.91	6.35	6.94	162.82
14:18:31	14.67	1.70	6.11	3.36	3.06	74.20	638.21	3.80	13.64	7.50	6.83	165.55
14:19:31	14.82	1.75	8.29	3.50	3.12	75.83	638.12	4.01	18.95	8.01	7.13	173.40
14:20:31	14.39	1.74	8.74	3.32	3.28	75.05	638.06	3.71	18.64	7.09	7.01	160.16
14:21:31	14.06	1.85	8.95	3.30	4.30	89.47	726.06	3.77	18.19	6.71	8.75	181.91
14:22:30	13.16	1.80	8.85	3.20	4.13	86.46	637.46	3.24	15.89	5.74	7.42	155.25
14:23:30	14.23	1.75	9.30	3.32	3.40	76.95	637.74	3.65	19.38	6.92	7.08	160.33
14:24:30	14.67	1.77	11.02	3.69	3.15	75.40	637.64	3.95	24.60	8.25	7.03	168.32
14:25:30	14.81	1.79	8.69	3.77	2.96	74.78	637.71	4.09	19.84	8.61	6.77	170.71
14:26:30	14.66	1.73	4.44	3.64	3.27	75.38	637.60	3.85	9.87	8.11	7.27	167.81
14:27:30	14.27	2.83	4.74	3.46	3.20	75.28	637.54	5.93	9.94	7.24	6.71	157.79
14:28:30	14.27	1.94	6.22	3.61	3.76	87.98	637.13	4.07	13.05	7.56	7.89	184.38
14:29:30	14.31	1.79	5.65	3.96	3.00	82.30	637.21	3.78	11.91	8.35	6.33	173.55
14:30:30	14.77	1.71	4.46	3.40	2.89	70.45	637.60	3.88	10.12	7.71	6.55	159.65
14:31:30	14.69	1.68	4.89	3.43	2.86	68.46	608.83	3.76	10.95	7.68	6.41	153.21
14:32:30	14.77	1.66	5.20	3.53	2.77	65.12	514.86	3.75	11.78	7.99	6.28	147.59
14:33:30	14.80	1.65	4.71	3.64	2.80	61.81	469.77	3.77	10.72	8.29	6.38	140.85
14:34:30	14.45	1.64	4.85	3.59	3.23	62.58	478.56	3.54	10.46	7.74	6.96	134.89
14:35:29	13.90	3.76	5.33	3.43	3.65	75.79	637.31	7.48	10.59	6.81	7.26	150.53

BORGESS MEDICAL WASTE

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	----------CORRECTED TO 7% OXYGEN----- THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry
14:36:29	14.41	2.06	4.62	3.52	2.81	78.14	608.76	4.42	9.89	7.54	6.02	167.25
14:37:29	14.96	1.70	3.80	3.49	2.83	72.06	580.89	3.97	8.90	8.16	6.62	168.59
14:38:29	14.81	1.76	3.72	3.58	2.74	65.92	609.27	4.02	8.48	8.16	6.25	150.39
14:39:29	14.83	1.71	4.44	3.78	2.72	64.38	573.32	3.91	10.17	8.65	6.22	147.35
14:40:29	14.86	1.76	5.11	3.95	2.62	60.13	497.98	4.04	11.75	9.10	6.03	138.35
14:41:29	15.06	1.96	5.80	4.55	2.36	60.31	505.63	4.65	13.80	10.83	5.61	143.54
14:42:29	14.72	3.41	6.97	5.28	4.15	89.04	637.01	7.66	15.66	11.87	9.33	200.17
14:43:29	13.83	4.20	4.86	3.77	3.11	78.13	488.38	8.27	9.56	7.41	6.12	153.59
14:44:29	14.91	1.72	3.44	3.56	2.56	63.34	469.52	4.00	7.98	8.25	5.95	146.97
14:45:29	15.37	1.69	3.52	3.93	2.49	60.50	469.45	4.26	8.85	9.88	6.25	151.94
(pre & post port change averages)	14.23	1.96	4.70	3.66	3.27	58.48	568.73	4.13	9.75	7.79	6.77	121.47
	14.57	2.11	4.25	3.53	3.07	68.36	674.97	4.68	9.43	7.89	6.68	149.26
FINAL AVE	14.41	2.05	4.48	3.59	3.16	63.83	625.04	4.43	9.62	7.85	6.71	136.53
CV	0.05	0.30	0.58	0.10	0.23	0.27	0.22	0.29	0.59	0.18	0.16	0.24

027E-027&110

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%v,dry)	(ppmCH4,wet)	(ppmv,dry)	(ppmv,dry)	(%v,dry)	(ppmv,dry)	(ppmv,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
10:15:17	14.78	2.34	1.92	3.08	3.31	64.63	909.27	5.30	4.35	7.00	7.52	146.77	2064.68
10:16:17	13.88	2.26	0.16	2.98	2.99	63.43	805.58	4.47	0.32	5.91	5.93	125.66	1595.84
10:17:17	15.05	2.28	0.94	3.25	3.69	67.35	953.34	5.42	2.24	7.71	8.77	160.05	2265.42
10:18:17	12.14	2.32	4.11	6.79	5.67	68.16	687.45	3.67	6.52	10.77	8.99	108.17	1091.06
10:19:17	14.22	2.25	0.54	3.66	2.52	56.12	494.46	4.67	1.12	7.61	5.23	116.71	1028.34
10:20:17	15.82	2.21	0.18	3.20	2.28	45.01	487.09	6.06	0.50	8.77	6.25	123.26	1333.77
10:21:17	14.55	2.02	0.48	3.05	3.26	53.03	486.92	4.42	1.06	6.66	7.12	116.01	1065.22
10:22:16	14.09	2.02	0.45	3.05	2.44	46.44	487.11	4.13	0.92	6.22	4.99	94.76	993.88
10:23:16	15.27	2.02	0.19	3.14	2.50	43.55	487.07	4.99	0.46	7.76	6.16	107.53	1202.66
10:24:16	14.38	2.10	0.49	2.96	3.10	49.45	490.88	4.49	1.05	6.32	6.62	105.50	1047.29
10:25:16	13.55	2.16	1.11	2.87	4.07	62.19	617.91	4.08	2.10	5.42	7.70	117.54	1167.84
10:26:16	13.20	2.21	1.61	2.81	3.87	84.23	753.90	4.00	2.91	5.07	7.00	152.11	1361.51
10:27:16	14.34	2.27	1.55	3.16	3.04	83.58	687.30	4.82	3.28	6.69	6.45	177.10	1456.41
10:28:16	14.82	2.31	1.55	3.25	2.82	83.00	633.45	5.28	3.54	7.44	6.45	189.86	1449.02
10:29:16	14.71	2.22	1.48	3.24	3.45	82.08	583.49	4.98	3.28	7.28	7.74	184.18	1309.29
10:30:16	13.73	2.20	1.52	3.06	2.85	73.56	523.85	4.27	2.95	5.94	5.52	142.58	1015.38
10:31:16	15.33	2.24	1.07	3.32	2.42	56.73	484.49	5.59	2.67	8.27	6.05	141.60	1209.25
10:32:16	14.20	2.08	1.18	3.08	4.35	79.07	549.58	4.31	2.45	6.39	9.02	163.96	1139.54
10:33:16	12.55	2.05	2.00	2.76	4.37	74.27	622.89	3.41	3.33	4.60	7.27	123.64	1036.93
10:34:16	13.67	1.98	1.05	3.16	4.09	66.79	742.09	3.80	2.02	6.08	7.87	128.43	1426.84
10:35:15	13.96	1.91	0.70	3.24	3.57	77.38	686.11	3.82	1.40	6.48	7.15	154.91	1373.44
10:36:15	14.35	1.86	1.43	3.02	3.40	85.37	661.25	3.95	3.03	6.39	7.22	181.06	1402.46
10:37:15	14.56	1.84	1.81	2.95	3.19	88.09	661.23	4.04	3.97	6.48	6.98	193.09	1449.31
10:38:15	14.69	1.83	1.81	2.98	2.95	84.92	661.26	4.09	4.05	6.68	6.61	190.12	1480.49
10:39:15	14.73	1.79	2.31	3.01	4.00	79.25	710.81	4.03	5.21	6.78	9.01	178.45	1600.60
10:40:15	12.42	1.83	2.49	3.34	4.99	73.04	638.76	3.00	4.09	5.47	8.19	119.76	1047.42
10:41:15	14.04	1.89	1.41	2.91	3.29	72.69	524.11	3.82	2.86	5.90	6.68	147.38	1062.60

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
10:42:15	14.84	1.83	0.95	3.09	2.88	70.20	483.83	4.20	2.18	7.08	6.61	160.90	1108.91
10:43:15	14.76	1.80	0.71	3.09	3.48	67.68	483.91	4.07	1.61	7.00	7.88	153.14	1094.95
10:44:15	13.68	1.82	0.78	2.97	3.09	65.67	484.05	3.50	1.49	5.71	5.94	126.39	931.64
10:45:15	15.12	1.92	0.89	3.37	3.10	55.91	548.26	4.61	2.14	8.09	7.45	134.34	1317.36
10:46:15	13.54	1.99	0.99	4.13	4.71	57.34	491.80	3.75	1.86	7.79	8.90	108.24	928.40
10:47:15	13.87	2.00	0.77	3.09	2.88	59.56	382.51	3.95	1.52	6.10	5.69	117.81	756.60
10:48:14	15.27	2.06	0.73	3.16	2.57	62.50	402.90	5.09	1.80	7.80	6.34	154.17	993.89
10:49:14	14.98	1.84	0.52	3.12	3.32	60.44	484.62	4.32	1.23	7.31	7.78	141.81	1137.16
10:50:14	13.96	2.18	0.67	3.06	2.74	60.82	413.19	4.37	1.35	6.13	5.48	121.88	828.10
10:51:14	15.50	2.04	0.63	3.15	2.41	58.09	454.89	5.26	1.63	8.11	6.19	149.47	1170.55
10:52:14	14.49	1.80	0.73	3.40	3.76	61.41	517.64	3.90	1.58	7.37	8.15	133.23	1123.10
10:53:14	13.51	1.81	0.80	3.33	3.26	51.57	497.13	3.41	1.50	6.25	6.14	96.95	934.62
10:54:14	15.28	1.91	0.50	3.24	2.70	52.74	485.29	4.73	1.25	8.01	6.68	130.33	1199.26
10:55:14	14.06	1.85	0.39	3.13	3.08	60.17	414.29	3.76	0.80	6.36	6.26	122.20	841.36
10:56:14	15.07	2.10	0.26	3.21	1.99	38.06	383.92	5.01	0.62	7.65	4.75	90.70	914.92
10:57:14	15.30	2.03	0.41	3.12	2.90	53.28	383.61	5.03	1.02	7.76	7.19	132.35	952.90
10:58:14	14.05	2.14	0.55	3.09	2.65	52.40	383.67	4.34	1.12	6.27	5.37	106.32	778.53
10:59:14	15.46	2.10	0.40	3.17	2.11	39.57	471.20	5.35	1.02	8.10	5.39	101.03	1203.12
11:00:14	14.29	1.80	0.92	2.93	4.48	66.22	574.21	3.78	1.93	6.17	9.41	139.19	1206.92
11:01:13	13.08	1.87	0.68	2.94	3.07	69.80	563.33	3.32	1.20	5.22	5.45	124.10	1001.65
11:02:13	15.28	2.18	0.69	3.10	2.32	57.46	575.78	5.39	1.71	7.67	5.74	142.02	1423.04
11:03:13	15.15	1.97	0.57	3.08	2.98	64.43	575.76	4.77	1.38	7.44	7.19	155.69	1391.37
11:04:13	13.98	1.79	0.59	3.06	2.90	63.93	498.98	3.59	1.19	6.15	5.82	128.43	1002.35
11:05:13	15.24	1.97	0.70	3.16	2.20	55.54	517.10	4.84	1.71	7.75	5.40	136.36	1269.50
11:06:13	14.96	1.74	0.78	3.29	3.21	65.70	576.51	4.06	1.82	7.70	7.50	153.74	1349.00
11:07:13	13.57	1.73	1.10	3.12	3.94	73.77	663.42	3.27	2.09	5.91	7.47	139.83	1257.54
11:08:13	14.17	1.82	0.99	3.09	3.05	68.48	485.91	3.77	2.05	6.38	6.30	141.44	1003.61

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	----------CORRECTED TO 7% OXYGEN---------- THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
11:09:13	15.00	1.69	0.92	3.09	3.13	60.55	468.55	3.99	2.18	7.29	7.38	142.74	1104.51
11:10:13	13.96	1.67	0.60	3.06	3.17	53.95	384.39	3.34	1.32	6.13	6.34	108.05	769.80
11:11:13	15.00	1.77	0.63	3.03	2.48	48.90	384.54	4.16	1.49	7.14	5.84	115.22	906.09
11:12:13	15.05	1.75	0.69	3.08	2.94	52.23	453.21	4.16	1.63	7.32	7.00	124.20	1077.62
11:13:13	14.20	1.72	0.41	3.06	2.81	52.77	417.81	3.56	0.84	6.35	5.84	109.46	866.60
11:14:12	15.06	1.68	0.46	3.19	2.98	46.39	453.17	4.00	1.09	7.59	7.10	110.51	1079.43
11:15:12	13.44	1.74	1.02	3.12	4.50	64.53	515.89	3.23	1.90	5.81	8.39	120.16	960.67
11:16:12	13.71	2.56	0.94	3.11	2.99	72.21	486.20	4.95	1.82	6.01	5.79	139.62	940.09
11:17:12	15.15	1.86	0.86	3.24	2.62	77.28	486.08	4.50	2.09	7.84	6.32	186.71	1174.46
11:18:12	15.35	1.91	0.95	3.20	2.59	76.51	576.19	4.77	2.37	8.01	6.49	191.57	1442.62
11:19:12	14.42	1.81	1.01	3.21	3.30	70.63	576.10	3.88	2.16	6.90	7.08	151.59	1236.38
11:20:12	14.63	2.13	0.81	3.25	2.41	67.09	575.85	4.73	1.80	7.20	5.34	148.82	1277.35
11:21:12	15.40	2.07	1.06	3.41	3.15	68.70	664.40	5.24	2.68	8.61	7.95	173.61	1679.00
11:22:12	13.30	1.92	1.47	6.86	4.06	88.09	619.54	3.51	2.69	12.56	7.43	161.21	1133.81
11:23:12	14.79	2.04	0.96	3.79	2.41	86.21	574.52	4.64	2.19	8.63	5.48	196.01	1306.22
11:24:12	15.70	2.02	0.89	3.26	2.33	69.82	574.35	5.41	2.38	8.71	6.23	186.66	1535.47
11:25:12	14.62	1.84	0.92	3.26	3.16	77.73	618.54	4.07	2.05	7.22	7.00	172.16	1370.02
11:26:12	14.60	1.84	0.82	3.18	2.35	76.51	633.12	4.05	1.81	7.02	5.18	168.80	1396.89
11:27:11	15.08	1.73	1.18	3.23	3.57	91.55	702.13	4.14	2.82	7.72	8.53	218.58	1676.37
11:28:11	13.69	1.72	0.95	3.10	3.29	99.66	63.20	3.32	1.83	5.98	6.33	192.01	121.76
11:29:11	14.82	1.81	0.89	3.19	2.75	99.66	634.98	4.15	2.04	7.30	6.28	227.77	1451.22
11:30:11	14.99	1.80	1.07	3.24	2.65	99.45	700.39	4.24	2.52	7.61	6.22	233.74	1646.14
11:31:11	15.09	1.85	0.74	3.15	2.47	87.90	1107.06	4.43	1.77	7.54	5.91	210.31	2648.77
11:32:11	14.99	1.73	0.79	3.24	2.65	78.01	847.27	4.07	1.85	7.62	6.24	183.48	1992.71
11:33:11	14.74	1.78	0.71	3.21	2.28	71.81	574.87	4.02	1.61	7.24	5.15	162.07	1297.39
11:34:11	15.33	1.73	1.00	3.65	2.91	74.67	688.38	4.31	2.50	9.13	7.28	186.47	1719.00
11:35:11	13.76	1.72	0.94	3.51	2.97	78.71	548.24	3.34	1.82	6.84	5.78	153.18	1066.98

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
11:36:11	15.57	1.94	0.66	3.67	1.86	52.69	511.91	5.06	1.72	9.57	4.86	137.48	1335.72
11:37:11	15.28	1.74	0.52	3.48	2.70	60.86	574.07	4.31	1.29	8.61	6.68	150.49	1419.64
11:38:11	14.55	1.80	0.54	3.36	2.04	51.64	559.19	3.95	1.18	7.35	4.46	113.02	1223.92
11:39:11	16.00	1.88	0.53	3.29	1.91	49.48	574.47	5.34	1.51	9.35	5.43	140.50	1631.14
11:40:10	14.84	1.70	0.60	3.27	2.76	62.39	574.21	3.90	1.39	7.51	6.33	142.99	1315.99
11:41:10	14.98	1.84	0.69	3.27	1.93	57.28	613.29	4.32	1.61	7.69	4.54	134.46	1439.60
11:42:10	15.16	1.71	0.94	3.40	3.43	69.66	653.22	4.15	2.29	8.24	8.31	168.77	1582.62
11:43:10	13.60	1.71	0.78	3.11	2.83	70.28	532.13	3.26	1.48	5.92	5.38	133.88	1013.64
11:44:10	15.51	1.89	0.76	3.36	1.98	64.80	571.90	4.88	1.97	8.67	5.10	167.07	1474.64
11:45:10	15.30	1.71	0.68	3.35	2.74	72.75	645.00	4.24	1.69	8.33	6.80	180.54	1600.68
11:46:10	14.41	1.71	0.24	3.46	2.22	64.93	662.43	3.67	0.52	7.41	4.75	139.10	1419.25
11:47:10	15.85	1.84	0.07	3.42	1.94	59.91	662.72	5.06	0.20	9.40	5.34	164.80	1822.97
11:48:10	14.87	1.73	0.06	3.40	2.87	67.35	684.34	3.98	0.14	7.84	6.61	155.25	1577.39
11:49:10	14.34	1.82	0.00	3.54	2.65	64.04	687.94	3.85	0.00	7.50	5.62	135.73	1458.18
11:50:10	15.33	1.95	0.00	3.38	2.45	57.05	487.78	4.87	0.00	8.45	6.12	142.41	1217.54
11:51:10	14.47	2.02	0.00	3.37	2.57	53.73	402.30	4.37	0.00	7.28	5.56	116.07	869.06
11:52:10	15.37	2.13	0.00	3.40	1.94	46.36	399.40	5.36	0.00	8.55	4.88	116.43	1003.05
11:53:09	15.36	2.15	0.00	3.34	2.41	54.99	398.70	5.40	0.00	8.37	6.04	137.90	999.79
11:54:09	14.76	2.11	0.00	3.40	2.12	50.89	381.00	4.78	0.00	7.69	4.81	115.16	862.22
11:55:09	15.66	2.11	0.00	3.40	1.90	43.23	380.78	5.60	0.00	9.02	5.04	114.67	1010.13
11:56:09	14.88	1.88	0.00	3.39	3.20	59.54	477.76	4.35	0.00	7.82	7.40	137.48	1103.09
11:57:09	13.74	1.98	0.00	3.37	2.81	67.86	401.39	3.84	0.00	6.54	5.46	131.79	779.56
11:58:09	15.59	2.07	0.00	3.53	2.35	68.19	477.14	5.40	0.00	9.22	6.15	178.34	1247.87
11:59:09	14.80	1.81	0.00	3.42	3.27	63.09	481.58	4.12	0.00	7.80	7.45	143.69	1096.83
12:00:09	14.50	1.93	0.00	3.37	2.21	59.08	481.53	4.20	0.00	7.33	4.80	128.39	1046.34
12:01:09	15.78	1.85	0.00	3.34	2.46	60.70	481.46	5.03	0.00	9.08	6.67	164.89	1307.96
12:02:09	14.32	1.81	0.00	3.35	2.96	60.11	481.58	3.82	0.00	7.08	6.26	126.99	1017.47

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	----------CORRECTED TO 7% OXYGEN---------- THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
12:03:09	15.04	1.90	0.00	3.37	2.61	65.41	575.26	4.50	0.00	8.00	6.20	155.19	1364.81
12:04:09	14.00	1.71	0.00	3.34	4.08	64.27	521.27	3.44	0.00	6.73	8.22	129.40	1049.46
12:05:09	14.32	1.85	0.00	3.41	2.60	54.31	464.48	3.91	0.00	7.19	5.49	114.71	981.02
12:06:08	15.56	1.82	0.00	3.39	2.42	53.30	464.60	4.75	0.00	8.82	6.30	138.71	1209.21
12:07:08	14.65	1.78	0.00	3.30	3.12	53.26	454.72	3.96	0.00	7.34	6.95	118.52	1011.94
12:08:08	14.77	1.96	0.00	3.34	2.04	52.09	407.08	4.45	0.00	7.58	4.64	118.17	923.41
12:09:08	15.49	1.76	0.00	3.29	3.39	54.94	536.34	4.51	0.00	8.44	8.70	141.08	1377.18
12:10:08	12.98	1.73	0.00	3.08	3.91	61.22	518.00	3.03	0.00	5.40	6.87	107.46	909.27
12:11:08	14.60	1.77	0.00	3.46	2.75	57.81	552.36	3.90	0.00	7.62	6.06	127.48	1218.07
12:12:08	15.10	1.81	0.00	3.65	2.80	55.78	572.43	4.34	0.00	8.75	6.72	133.74	1372.50
12:13:08	15.02	1.81	0.00	3.65	2.69	55.14	572.57	4.28	0.00	8.61	6.36	130.24	1352.47
12:14:08	15.22	1.81	0.00	3.63	2.51	53.52	572.68	4.43	0.00	8.89	6.14	130.99	1401.77
12:15:08	15.08	1.65	0.00	3.58	3.07	52.67	572.84	3.93	0.00	8.55	7.32	125.80	1368.18
14:15:59	13.53	1.65	3.86	16.41	3.22	51.15	1210.97	3.12	7.27	30.94	6.07	96.43	2283.16
14:16:59	14.42	1.71	2.95	6.09	3.18	52.81	1211.01	3.68	6.33	13.07	6.82	113.27	2597.17
14:17:58	14.57	1.62	2.23	5.53	2.82	55.90	1014.17	3.56	4.91	12.15	6.19	122.79	2227.64
14:18:58	14.81	1.57	1.36	5.89	2.58	54.65	955.69	3.58	3.10	13.43	5.89	124.73	2181.02
14:19:58	14.86	1.56	1.00	6.10	2.82	52.83	955.99	3.58	2.30	14.03	6.49	121.61	2200.55
14:20:58	14.35	1.56	0.95	5.57	2.79	47.22	842.15	3.32	2.02	11.83	5.93	100.26	1788.32
14:21:58	14.52	1.59	1.12	5.57	2.67	47.84	917.84	3.46	2.45	12.15	5.83	104.31	2001.24
14:22:58	14.57	1.54	1.20	5.56	2.84	46.28	999.55	3.38	2.63	12.22	6.24	101.65	2195.41
14:23:58	13.81	1.62	0.69	6.58	3.74	52.66	1021.56	3.18	1.35	12.90	7.32	103.17	2001.57
14:24:58	13.70	1.75	0.34	16.30	3.30	57.73	800.65	3.37	0.66	31.48	6.37	111.50	1546.46
14:25:58	14.15	1.58	0.73	13.17	3.01	55.07	697.86	3.25	1.50	27.11	6.20	113.35	1436.25
14:26:58	14.33	1.55	0.40	8.89	2.94	56.23	661.29	3.28	0.85	18.80	6.21	118.95	1398.86

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
14:27:58	14.37	1.48	0.03	7.56	2.88	56.55	639.17	3.16	0.07	16.10	6.13	120.44	1361.19
14:28:58	14.42	1.48	0.00	6.76	2.78	55.35	573.58	3.17	0.00	14.49	5.96	118.66	1229.64
14:29:58	14.60	1.46	0.00	6.36	2.55	51.40	536.01	3.22	0.00	14.05	5.63	113.49	1183.51
14:30:57	14.46	1.44	0.00	6.15	3.36	59.89	581.54	3.11	0.00	13.28	7.25	129.33	1255.89
14:31:57	12.77	1.50	0.35	5.36	5.05	75.78	625.49	2.56	0.59	9.17	8.63	129.59	1069.65
14:32:57	12.79	1.50	0.29	5.36	4.17	73.89	661.24	2.57	0.50	9.19	7.15	126.64	1133.40
14:33:57	13.94	1.51	0.01	5.57	3.30	68.24	661.38	3.02	0.02	11.12	6.58	136.25	1320.60
14:34:57	14.55	1.48	0.45	6.06	3.11	67.29	616.92	3.23	0.98	13.26	6.80	147.19	1349.48
14:35:57	13.98	1.44	0.93	5.58	3.67	68.23	580.75	2.89	1.86	11.20	7.37	136.99	1165.95
14:36:57	13.35	1.46	1.29	5.15	3.60	66.89	573.53	2.70	2.38	9.48	6.63	123.16	1056.01
14:37:57	13.32	1.44	0.94	5.18	4.44	71.67	499.02	2.64	1.72	9.50	8.14	131.40	914.88
14:38:57	13.36	1.45	0.09	5.22	3.34	62.68	381.62	2.66	0.16	9.61	6.16	115.52	703.26
14:39:57	14.64	1.43	0.00	5.63	3.01	54.83	381.89	3.18	0.00	12.51	6.69	121.73	847.80
14:40:57	14.02	1.43	0.00	5.38	3.26	52.54	381.97	2.88	0.00	10.86	6.59	106.08	771.16
14:41:57	14.24	1.50	0.00	5.44	2.87	52.93	381.97	3.13	0.00	11.37	6.00	110.54	797.74
14:42:57	14.58	1.53	0.00	5.52	2.79	52.88	382.00	3.37	0.00	12.14	6.13	116.38	840.74
14:43:56	14.46	1.53	0.00	5.44	2.95	49.17	382.17	3.30	0.00	11.75	6.37	106.16	825.10
14:44:56	13.86	1.52	0.14	5.26	4.07	56.86	376.51	2.99	0.27	10.38	8.03	112.30	743.59
14:45:56	13.59	1.53	0.02	5.46	2.91	45.58	292.20	2.92	0.04	10.39	5.53	86.66	555.55
14:46:56	15.21	1.57	0.08	5.77	2.34	41.49	292.24	3.83	0.19	14.09	5.72	101.35	713.81
14:47:56	14.77	1.51	0.20	5.87	2.87	42.70	292.27	3.43	0.45	13.31	6.50	96.80	662.59
14:48:56	14.49	1.57	0.00	5.87	2.50	42.15	292.32	3.40	0.00	12.74	5.42	91.44	634.22
14:49:56	15.05	1.54	0.09	5.86	2.17	39.00	292.48	3.67	0.20	13.92	5.16	92.62	694.68
14:50:56	15.24	1.57	0.00	5.87	2.28	38.23	297.38	3.85	0.00	14.41	5.59	93.90	730.43
14:51:56	14.45	1.57	0.07	5.68	3.42	44.30	936.23	3.38	0.16	12.24	7.36	95.44	2016.83
14:52:56	13.47	1.54	0.69	5.65	3.53	60.76	1479.46	2.89	1.29	10.56	6.60	113.64	2766.94
14:53:56	14.31	1.71	0.91	5.92	2.42	56.90	1356.20	3.60	1.92	12.49	5.10	119.92	2858.53

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN----------					
	(%v,dry)	(ppmCH4,wet)	(ppmv,dry)	(ppmv,dry)	(%v,dry)	(ppmv,dry)	(ppmv,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
14:54:56	15.52	1.71	2.99	6.19	2.29	57.84	1235.43	4.43	7.74	16.01	5.91	149.52	3193.88
14:55:56	15.20	1.69	11.55	6.48	2.30	58.94	1040.87	4.11	28.14	15.78	5.59	143.61	2536.32
14:56:55	15.32	1.66	11.21	6.35	2.21	58.36	952.59	4.14	27.92	15.80	5.51	145.36	2372.53
14:57:55	15.22	1.66	11.89	6.14	2.37	59.21	935.72	4.05	29.09	15.02	5.79	144.80	2288.50
14:58:55	14.97	1.52	13.36	6.12	3.07	64.80	846.76	3.57	31.34	14.36	7.20	152.00	1986.19
14:59:55	13.84	1.56	12.15	6.16	3.73	65.26	755.36	3.07	23.90	12.12	7.33	128.40	1486.19
15:00:55	14.94	1.68	7.10	6.05	2.50	68.77	732.95	3.93	16.57	14.12	5.82	160.45	1710.01
15:01:55	15.54	1.64	3.52	5.96	2.37	59.84	643.49	4.24	9.13	15.45	6.13	155.06	1667.55
15:02:55	15.15	1.65	3.39	5.91	2.46	57.90	574.15	3.98	8.19	14.29	5.94	139.99	1388.15
15:03:55	15.13	1.69	4.36	5.95	2.24	59.43	574.13	4.07	10.51	14.34	5.40	143.13	1382.71
15:04:55	15.26	1.61	4.55	5.99	2.47	61.24	636.48	3.98	11.22	14.77	6.08	151.02	1569.59
15:05:55	14.54	1.54	4.68	6.16	3.55	70.58	661.84	3.38	10.22	13.46	7.77	154.32	1447.06
15:06:55	14.36	1.66	3.71	6.62	2.60	68.26	661.87	3.52	7.89	14.06	5.53	145.06	1406.57
15:07:55	15.30	1.63	3.07	6.41	2.58	63.57	677.21	4.04	7.62	15.90	6.40	157.79	1680.89
15:08:55	14.77	1.76	3.49	6.26	2.65	67.29	694.82	3.98	7.92	14.20	6.00	152.59	1575.74
15:09:54	15.18	1.75	6.48	6.21	2.21	68.56	751.83	4.26	15.75	15.10	5.38	166.60	1827.07
15:10:54	15.31	1.76	8.26	6.39	2.44	65.38	719.14	4.38	20.53	15.88	6.06	162.58	1788.23
15:11:54	15.02	1.65	6.30	6.80	2.57	73.65	802.41	3.91	14.88	16.07	6.07	174.06	1896.31
15:12:54	14.32	1.59	9.23	6.56	3.51	88.69	653.47	3.35	19.50	13.87	7.43	187.39	1380.80
15:13:54	14.66	1.81	9.70	6.43	2.35	67.29	543.53	4.04	21.62	14.32	5.23	149.93	1211.05
15:14:54	15.57	1.82	5.49	6.17	2.50	60.49	573.89	4.73	14.30	16.08	6.53	157.70	1496.09
15:15:54	14.52	1.90	3.78	5.96	2.98	55.90	573.65	4.14	8.23	12.99	6.49	121.71	1249.00
15:16:54	14.85	2.03	2.85	6.07	2.26	51.33	573.31	4.67	6.55	13.94	5.18	117.86	1316.27
15:17:54	15.35	1.96	2.89	5.97	2.13	51.83	572.93	4.92	7.24	14.96	5.33	129.80	1434.86
15:18:54	15.41	1.91	2.82	5.92	2.15	51.66	588.89	4.84	7.15	15.00	5.45	130.77	1490.74
15:19:54	15.12	1.79	2.47	5.98	3.10	65.74	628.99	4.31	5.95	14.39	7.45	158.13	1513.04
15:20:54	13.89	1.82	2.15	5.78	3.27	72.48	555.46	3.61	4.26	11.46	6.49	143.64	1100.90

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	----------CORRECTED TO 7% OXYGEN---------- THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
15:21:54	14.85	1.76	1.73	5.84	2.64	69.81	513.64	4.05	3.97	13.43	6.08	160.50	1181.01
15:22:53	14.88	1.75	1.56	5.85	2.91	69.83	556.40	4.03	3.60	13.51	6.73	161.26	1284.81
15:23:53	14.56	1.63	1.84	5.61	3.03	74.48	571.46	3.58	4.03	12.30	6.65	163.39	1253.75
15:24:53	14.40	1.59	2.35	5.74	3.01	72.98	571.37	3.40	5.03	12.28	6.43	156.05	1221.75
15:25:53	14.48	1.59	2.77	5.76	3.02	77.64	646.95	3.45	6.01	12.47	6.54	168.13	1400.99
15:26:53	13.85	1.56	4.09	5.84	4.22	98.33	642.41	3.07	8.06	11.52	8.32	193.90	1266.77
15:27:53	13.38	1.59	4.36	5.48	3.39	96.22	571.14	2.94	8.06	10.14	6.27	177.92	1056.05
15:28:53	14.55	1.59	3.15	5.73	3.06	89.58	571.09	3.49	6.90	12.53	6.71	196.04	1249.74
15:29:53	14.24	1.57	3.08	5.49	3.29	87.30	571.09	3.28	6.42	11.46	6.87	182.11	1191.35
15:30:53	14.11	1.56	2.93	5.45	3.17	86.32	571.09	3.20	6.00	11.17	6.49	176.83	1169.85
15:31:53	14.21	1.58	2.31	5.51	3.19	89.40	571.11	3.28	4.80	11.46	6.63	185.81	1186.99
15:32:53	14.14	1.56	2.73	5.53	3.23	91.74	615.33	3.20	5.61	11.38	6.64	188.71	1265.74
15:33:53	13.74	1.53	2.77	5.46	4.56	99.66	734.36	2.97	5.38	10.61	8.85	193.54	1426.13
15:34:53	12.81	1.56	3.02	5.29	4.44	99.66	806.32	2.68	5.18	9.09	7.62	171.28	1385.72
15:35:52	13.66	1.58	3.88	5.35	3.87	99.66	878.99	3.04	7.45	10.28	7.43	191.32	1687.36
15:36:52	13.78	1.59	7.80	5.51	4.55	99.66	968.89	3.11	15.21	10.75	8.88	194.44	1890.29
15:37:52	13.27	1.64	13.40	5.61	3.62	99.66	805.83	2.99	24.42	10.23	6.59	181.66	1468.89
15:38:52	14.52	1.63	16.01	5.92	3.14	99.66	777.65	3.56	34.88	12.91	6.84	217.19	1694.74
15:39:52	14.58	1.61	12.92	5.97	3.38	99.66	835.23	3.53	28.39	13.12	7.43	219.03	1835.60
15:40:52	13.63	1.62	12.25	5.68	4.41	99.66	792.48	3.10	23.42	10.86	8.43	190.44	1514.32
15:41:52	13.45	1.61	11.69	5.86	3.64	99.66	717.90	3.01	21.80	10.93	6.78	185.96	1339.54
15:42:52	14.28	1.59	8.04	6.01	3.46	99.66	748.75	3.34	16.87	12.60	7.25	209.14	1571.24
15:43:52	14.18	1.60	4.38	5.92	3.53	99.66	819.92	3.31	9.05	12.25	7.31	206.11	1695.73
15:44:52	14.06	1.58	5.45	5.76	3.74	99.66	834.80	3.22	11.08	11.70	7.59	202.52	1696.35
15:45:52	13.64	1.61	8.49	5.60	3.65	99.66	834.77	3.08	16.26	10.72	7.00	190.92	1599.14
15:46:52	14.11	1.58	10.70	5.66	3.47	99.66	848.12	3.24	21.91	11.58	7.09	203.95	1735.66
15:47:52	14.03	1.61	13.06	5.70	4.12	99.66	865.89	3.26	26.44	11.53	8.33	201.73	1752.67

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
15:48:51	13.38	1.64	12.24	5.50	4.06	99.66	778.53	3.03	22.60	10.16	7.51	184.10	1438.15
15:49:51	14.09	1.61	9.04	5.63	3.41	99.66	748.60	3.29	18.46	11.49	6.96	203.47	1528.35
15:50:51	14.42	1.64	6.54	5.68	3.45	99.66	748.53	3.52	14.01	12.19	7.40	213.62	1604.48
15:51:51	13.89	1.62	5.53	5.47	3.65	99.66	704.90	3.21	10.97	10.84	7.24	197.54	1397.16
15:52:51	13.91	1.65	4.01	5.60	3.30	99.66	701.70	3.28	7.96	11.12	6.56	198.07	1394.57
15:53:51	14.47	1.65	4.10	5.90	3.34	99.61	715.13	3.56	8.87	12.75	7.21	215.28	1545.60
15:54:51	13.69	1.61	5.21	5.53	4.43	99.66	766.84	3.10	10.04	10.66	8.54	192.05	1477.73
15:55:51	13.09	1.65	4.27	5.58	3.84	99.66	686.02	2.93	7.61	9.94	6.83	177.40	1221.12
15:56:51	14.12	1.64	3.25	5.65	3.95	99.66	705.99	3.37	6.62	11.59	8.09	204.34	1447.55
15:57:51	13.73	1.63	2.27	5.74	3.53	95.71	658.63	3.16	4.39	11.13	6.84	185.56	1276.94
15:58:51	14.02	1.64	2.44	5.67	3.36	89.98	658.63	3.31	4.93	11.45	6.78	181.80	1330.75
15:59:51	14.04	1.61	2.64	5.51	3.30	84.93	658.63	3.27	5.35	11.16	6.68	172.07	1334.34
16:00:51	14.07	1.67	2.97	5.57	3.33	86.39	715.79	3.40	6.04	11.33	6.78	175.86	1457.09
16:01:50	13.67	1.62	3.44	5.39	4.29	96.20	705.65	3.12	6.54	10.35	8.24	184.85	1355.86
16:02:50	13.35	1.65	3.78	5.37	3.60	85.08	658.45	3.03	6.91	9.88	6.63	156.66	1212.41
16:03:50	14.05	1.65	3.11	5.39	3.27	89.49	658.38	3.36	6.30	10.94	6.64	181.53	1335.49
16:04:50	14.21	1.64	1.91	6.40	3.18	89.09	588.05	3.41	3.98	13.30	6.62	185.14	1222.04
16:05:50	15.13	1.68	0.00	4.67	2.29	83.16	585.27	4.06	0.00	11.26	5.52	200.44	1410.64
16:06:50	14.36	1.64	0.00	5.01	3.40	79.63	655.26	3.49	0.00	10.65	7.22	169.21	1392.42
16:07:50	13.44	1.64	0.00	4.59	3.87	81.24	628.58	3.05	0.00	8.56	7.21	151.43	1171.67
16:08:50	13.21	1.65	0.00	4.36	4.46	96.78	673.32	2.98	0.00	7.89	8.06	175.02	1217.62
16:09:50	13.33	1.68	0.00	4.50	3.78	97.84	658.07	3.09	0.00	8.27	6.94	179.63	1208.25
16:10:50	14.17	1.76	0.00	4.53	3.36	86.62	658.14	3.64	0.00	9.36	6.95	178.95	1359.65
16:11:50	14.09	1.80	0.00	4.44	3.60	82.84	658.20	3.67	0.00	9.07	7.35	169.10	1343.53
16:12:50	13.80	1.75	0.00	4.48	3.56	81.03	688.55	3.43	0.00	8.78	6.97	158.68	1348.42
16:13:50	13.86	1.77	0.00	4.70	3.32	79.37	668.30	3.49	0.00	9.28	6.55	156.62	1318.71
16:14:49	14.37	1.72	2.60	5.14	3.63	81.25	786.63	3.67	5.54	10.96	7.74	173.07	1675.73

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2 (%v,dry)	THC (ppmCH4,wet)	SO2 (ppmv,dry)	CO (ppmv,dry)	CO2 (%v,dry)	NOX (ppmv,dry)	Hcl (ppmv,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
16:15:49	13.05	1.67	4.56	4.25	4.74	97.97	889.37	2.95	8.08	7.52	8.40	173.58	1575.70
16:16:49	13.24	1.70	0.00	5.22	3.77	97.19	938.78	3.08	0.00	9.48	6.85	176.45	1704.47
16:17:49	13.98	1.69	0.00	6.01	3.49	92.75	923.93	3.39	0.00	12.08	7.02	186.42	1856.95
16:18:49	14.24	1.68	0.00	5.44	3.24	84.75	923.96	3.51	0.00	11.35	6.77	176.83	1927.88
16:19:49	14.26	1.67	0.00	5.00	3.51	84.69	914.48	3.50	0.00	10.48	7.35	177.37	1915.28
16:20:49	13.67	1.67	0.00	4.82	3.49	87.85	834.02	3.21	0.00	9.27	6.70	168.87	1603.21
16:21:49	14.27	1.68	2.04	4.75	3.33	91.83	883.43	3.52	4.27	9.96	6.98	192.62	1853.12
16:22:49	13.74	1.71	0.00	4.60	4.44	99.22	865.24	3.31	0.00	8.92	8.62	192.67	1680.18
16:23:49	13.50	1.72	0.00	4.61	3.53	88.82	693.21	3.23	0.00	8.66	6.63	166.86	1302.29
16:24:49	14.43	1.71	0.32	4.60	3.31	86.82	657.85	3.67	0.69	9.89	7.11	186.46	1412.85
16:25:49	14.00	1.68	2.59	4.32	3.53	84.67	657.78	3.39	5.22	8.70	7.11	170.64	1325.63
(pre & post	14.61	1.92	0.70	3.30	2.96	64.58	550.27	4.31	1.51	7.39	6.51	143.78	1232.15
port change	14.24	1.63	3.38	5.90	3.24	74.90	703.37	3.44	7.20	12.45	6.73	155.79	1478.34
averages)													
FINAL AVE	14.36	1.76	2.08	4.63	3.09	69.65	627.06	3.86	4.46	10.01	6.62	150.00	1359.62
CV	0.08	0.13	1.48	0.38	0.23	0.25	0.31	0.18	1.48	0.36	0.15	0.21	0.30

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
10:30:42	11.54	1.48	10.54	3.46	6.62	82.57	840.19	2.20	15.65	5.13	NA	122.59	1247.39
10:31:42	11.38	1.40	9.88	4.41	6.44	82.44	840.20	2.04	14.42	6.44	NA	120.34	1226.48
10:32:42	11.91	1.40	9.88	3.60	5.84	77.76	840.20	2.16	15.29	5.56	NA	120.28	1299.68
10:33:42	12.41	1.41	10.11	3.82	6.41	76.48	870.46	2.31	16.56	6.26	NA	125.24	1425.41
10:34:42	10.93	1.60	13.55	3.68	7.28	88.35	729.51	2.23	18.90	5.14	NA	123.20	1017.21
10:35:42	11.88	1.43	13.07	3.67	5.85	83.37	668.17	2.21	20.15	5.66	NA	128.51	1029.94
10:36:42	12.94	1.39	11.54	3.80	5.91	78.18	727.92	2.43	20.16	6.63	NA	136.52	1271.14
10:37:41	12.03	1.40	12.45	3.59	6.34	80.18	668.18	2.19	19.51	5.62	NA	125.62	1046.85
10:38:41	11.68	1.40	12.21	3.49	6.12	75.87	668.23	2.11	18.41	5.25	NA	114.38	1007.39
10:39:41	12.29	1.38	11.82	3.76	5.48	68.28	627.60	2.22	19.09	6.08	NA	110.21	1013.04
10:40:41	12.89	1.37	10.87	4.18	5.23	63.77	637.41	2.38	18.87	7.25	NA	110.66	1106.09
10:41:41	12.19	1.44	13.05	3.99	6.84	79.43	713.38	2.29	20.83	6.37	NA	126.78	1138.62
10:42:41	11.14	1.84	13.70	3.71	6.95	91.50	668.27	2.62	19.52	5.29	NA	130.34	951.91
10:43:41	11.86	1.50	12.87	3.84	6.28	95.50	764.85	2.31	19.79	5.90	NA	146.86	1176.16
10:44:41	12.29	1.40	10.83	4.04	6.17	107.25	826.10	2.26	17.48	6.53	NA	173.16	1333.79
10:45:41	12.11	1.42	10.30	4.03	6.12	105.92	812.04	2.25	16.28	6.38	NA	167.44	1283.75
10:46:41	12.22	1.44	10.29	4.01	5.78	87.21	840.17	2.30	16.46	6.42	NA	139.61	1344.87
10:47:41	12.31	1.41	9.35	3.98	5.65	84.30	801.72	2.29	15.13	6.45	NA	136.43	1297.49
10:48:41	11.91	1.42	9.28	4.00	6.66	86.95	812.94	2.19	14.35	6.19	NA	134.46	1257.20
10:49:41	11.26	1.43	11.38	4.16	6.35	92.30	741.75	2.06	16.41	6.00	NA	133.11	1069.63
10:50:40	12.65	1.43	9.08	4.31	5.17	86.66	756.67	2.42	15.30	7.26	NA	146.01	1274.86
10:51:40	12.84	1.42	8.73	4.11	5.97	108.87	833.44	2.45	15.05	7.09	NA	187.76	1437.42
10:52:40	10.91	1.74	17.03	4.77	8.03	153.51	859.06	2.42	23.69	6.63	NA	213.56	1195.10
10:53:40	10.22	1.52	13.11	4.47	8.21	159.17	880.44	1.97	17.06	5.81	NA	207.09	1145.46
10:54:40	10.66	1.45	12.45	3.79	7.71	141.09	929.84	1.97	16.90	5.14	NA	191.49	1261.97
10:55:40	10.85	1.43	15.53	3.67	7.84	145.05	985.00	1.97	21.47	5.08	NA	200.60	1362.21
10:56:40	10.62	1.49	17.99	3.65	7.98	145.56	1018.12	2.01	24.32	4.93	NA	196.84	1376.73

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
10:57:40	10.56	1.46	18.66	3.63	7.91	140.70	1018.13	1.96	25.08	4.88	NA	189.08	1368.22
10:58:40	10.65	1.55	18.49	3.63	7.78	130.02	1032.41	2.10	25.08	4.92	NA	176.35	1400.30
10:59:40	10.90	1.63	16.02	3.67	7.32	121.88	1208.62	2.26	22.27	5.10	NA	169.42	1680.05
11:00:40	11.73	1.61	12.05	3.97	6.26	110.31	1150.91	2.44	18.25	6.02	NA	167.16	1743.98
11:01:40	12.41	1.63	9.36	3.95	5.78	105.37	1090.20	2.66	15.33	6.47	NA	172.55	1785.32
11:02:40	12.62	1.61	9.01	4.11	6.01	128.22	1209.77	2.70	15.11	6.90	NA	215.15	2029.94
11:03:39	11.74	1.74	10.84	4.05	7.14	129.01	1088.48	2.65	16.45	6.15	NA	195.79	1651.91
11:04:39	10.89	1.62	10.20	3.92	7.42	133.71	1235.48	2.25	14.16	5.45	NA	185.60	1715.03
11:05:39	11.26	1.57	8.51	3.96	7.19	129.32	1235.56	2.26	12.27	5.71	NA	186.46	1781.57
11:06:39	11.38	1.63	9.11	3.99	6.89	119.90	1272.36	2.37	13.31	5.83	NA	175.15	1858.72
11:07:39	11.90	1.66	11.51	4.11	6.32	123.08	1235.15	2.56	17.78	6.35	NA	190.01	1906.82
11:08:39	12.11	1.69	10.66	4.21	6.30	105.07	1235.18	2.67	16.86	6.66	NA	166.18	1953.64
11:09:39	11.97	1.72	10.49	4.30	6.24	98.35	1235.17	2.68	16.32	6.69	NA	153.00	1921.59
11:10:39	11.89	1.70	8.44	4.44	6.34	108.31	1035.60	2.62	13.01	6.84	NA	166.99	1596.77
11:11:39	11.89	1.69	9.04	4.46	6.39	114.14	954.64	2.61	13.95	6.89	NA	176.11	1472.89
11:12:39	11.82	1.60	8.50	4.38	6.52	118.64	760.36	2.45	13.02	6.71	NA	181.63	1164.02
11:13:39	11.45	1.56	7.62	4.41	6.57	130.95	814.49	2.30	11.22	6.49	NA	192.67	1198.39
11:14:39	11.72	1.55	6.44	4.54	6.18	111.17	973.34	2.34	9.74	6.87	NA	168.30	1473.54
11:15:39	12.16	1.61	5.71	4.65	5.58	106.40	775.33	2.56	9.08	7.39	NA	169.25	1233.33
11:16:39	12.95	1.56	4.39	4.79	5.04	105.57	760.17	2.73	7.68	8.37	NA	184.59	1329.13
11:17:38	12.45	1.53	3.64	4.82	5.86	115.36	760.09	2.52	5.99	7.92	NA	189.66	1249.63
11:18:38	11.60	1.61	5.01	4.76	6.78	110.39	812.64	2.41	7.49	7.12	NA	165.05	1214.96
11:19:38	11.44	1.63	5.22	4.74	6.48	99.00	973.22	2.40	7.67	6.96	NA	145.46	1430.01
11:20:38	12.20	1.58	5.37	5.64	5.85	92.67	1082.08	2.53	8.58	9.02	NA	148.12	1729.53
11:21:38	12.57	1.62	6.71	5.88	5.33	86.28	1234.59	2.70	11.19	9.82	NA	143.97	2060.13
11:22:38	13.01	1.64	9.76	6.22	4.86	81.81	1190.16	2.89	17.19	10.95	NA	144.06	2095.88
11:23:38	13.11	1.67	8.94	6.29	4.86	76.90	994.73	2.99	15.96	11.22	NA	137.23	1775.15

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
11:24:38	12.96	1.69	7.28	6.16	4.77	83.09	1034.85	2.95	12.75	10.79	NA	145.50	1812.06
11:25:38	12.82	1.70	6.83	6.29	5.19	72.26	1102.15	2.93	11.74	10.81	NA	124.27	1895.44
11:26:38	12.51	1.68	6.19	6.40	5.46	68.75	1234.12	2.79	10.26	10.61	NA	113.90	2044.49
11:27:38	12.73	1.67	5.12	6.29	4.97	71.30	1286.27	2.85	8.71	10.71	NA	121.34	2189.17
11:28:38	12.91	1.66	5.18	6.37	5.05	69.98	1454.35	2.89	9.01	11.08	NA	121.79	2531.16
11:29:38	12.73	1.65	6.22	6.27	5.05	66.62	1328.69	2.82	10.59	10.68	NA	113.40	2261.81
11:30:37	13.10	1.69	5.56	6.43	4.48	69.68	1173.49	3.00	9.91	11.45	NA	124.12	2090.48
11:31:37	13.73	1.78	7.47	6.69	4.18	38.89	1017.16	3.45	14.47	12.96	NA	75.34	1970.55
11:32:37	13.78	2.03	5.80	5.72	2.45	79.33	1150.20	3.97	11.32	11.15	NA	154.80	2244.32
11:33:37	14.75	1.95	4.51	5.86	5.46	87.17	971.21	4.41	10.20	13.26	NA	197.17	2196.78
11:34:37	12.33	1.79	5.00	6.46	5.34	87.19	923.18	2.91	8.11	10.47	NA	141.39	1497.13
11:35:37	13.64	1.75	2.87	6.88	4.45	83.01	831.01	3.35	5.50	13.18	NA	158.90	1590.78
11:36:37	13.69	1.68	2.09	7.00	4.82	84.46	759.72	3.24	4.04	13.50	NA	162.93	1465.55
11:37:37	12.94	1.66	1.65	6.73	5.01	78.12	759.72	2.91	2.88	11.75	NA	136.38	1326.34
11:38:37	13.09	1.64	1.13	6.81	4.61	77.01	759.73	2.92	2.01	12.11	NA	137.00	1351.64
11:39:37	13.58	1.65	0.73	7.90	4.23	75.66	759.77	3.14	1.39	14.99	NA	143.64	1442.46
11:40:37	13.82	1.67	0.44	9.45	4.46	81.33	760.43	3.27	0.87	18.54	NA	159.58	1492.11
11:41:37	13.23	1.60	0.79	9.69	5.33	82.22	759.87	2.90	1.44	17.57	NA	149.04	1377.51
11:42:37	12.63	1.81	0.88	9.45	5.31	101.33	838.86	3.05	1.48	15.89	NA	170.35	1410.17
11:56:35	12.71	1.57	1.83	3.65	5.00	111.04	795.01	2.67	3.11	6.20	NA	188.50	1349.65
11:57:35	13.27	1.55	1.35	3.78	4.68	115.32	759.29	2.82	2.46	6.88	NA	210.08	1383.21
11:58:35	13.30	1.55	0.32	3.90	4.53	108.91	759.94	2.85	0.58	7.14	NA	199.29	1390.57
11:59:35	13.48	1.55	-0.06	4.29	4.25	111.41	759.94	2.89	-0.10	8.02	NA	208.58	1422.72
12:00:35	13.71	1.49	-0.08	4.12	3.98	109.25	759.94	2.88	-0.16	7.96	NA	211.20	1469.07
12:01:35	13.95	1.49	0.05	4.07	3.84	112.75	759.95	2.98	0.11	8.14	NA	225.50	1519.85
12:02:35	13.96	1.52	0.59	4.12	4.34	110.82	764.28	3.05	1.18	8.26	NA	221.92	1530.45
12:03:35	12.95	1.59	2.18	4.09	5.51	113.61	1020.16	2.79	3.81	7.15	NA	198.76	1784.78

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								CORRECTED TO 7% OXYGEN					
12:04:35	12.48	1.51	2.59	3.96	5.32	107.66	1234.10	2.50	4.27	6.53	NA	177.81	2038.25
12:05:35	13.19	1.73	3.64	4.19	4.36	104.41	1234.07	3.11	6.56	7.55	NA	188.26	2225.00
12:13:21	13.13	1.53	5.25	3.64	5.05	116.44	711.83	2.73	9.40	6.52	NA	208.43	1274.16
12:13:31	13.11	1.52	5.49	3.64	5.08	81.96	759.16	2.71	9.80	6.51	NA	146.33	1355.37
12:13:41	13.15	1.50	5.44	3.57	4.97	70.11	589.17	2.69	9.76	6.40	NA	125.74	1056.74
12:13:51	13.15	1.52	5.55	3.55	4.94	63.70	707.39	2.73	9.95	6.37	NA	114.21	1268.27
12:14:01	13.09	1.50	5.17	3.55	4.92	61.91	585.42	2.67	9.21	6.32	NA	110.14	1041.55
12:14:11	13.20	1.52	5.11	3.55	4.98	60.54	705.80	2.75	9.23	6.42	NA	109.30	1274.40
12:14:21	13.23	1.53	5.03	3.55	5.02	56.50	596.44	2.77	9.12	6.44	NA	102.39	1080.77
12:14:31	13.33	1.51	5.28	3.55	4.93	52.71	538.74	2.78	9.70	6.52	NA	96.82	989.64
12:14:41	13.26	1.49	5.02	3.55	4.90	61.44	699.00	2.72	9.13	6.47	NA	111.80	1271.89
12:14:50	13.18	1.45	5.06	3.55	4.92	82.47	599.45	2.62	9.11	6.40	NA	148.57	1079.85
12:15:00	13.24	1.52	5.10	3.48	4.94	82.47	539.46	2.76	9.25	6.32	NA	149.71	979.30
12:15:10	13.28	1.48	4.76	3.53	4.84	90.01	538.43	2.70	8.69	6.44	NA	164.23	982.42
12:15:20	13.24	1.48	4.78	3.49	4.81	87.19	539.14	2.69	8.68	6.33	NA	158.30	978.82
12:15:30	13.23	1.49	4.97	3.53	4.77	78.99	538.14	2.71	9.02	6.40	NA	143.21	975.64
12:15:40	13.29	1.46	4.98	3.62	4.76	76.96	538.49	2.67	9.10	6.62	NA	140.55	983.41
12:15:50	13.31	1.48	4.48	3.71	4.74	76.45	539.21	2.71	8.21	6.80	NA	140.07	988.01
12:16:00	13.38	1.47	4.18	3.74	4.74	75.77	539.55	2.71	7.73	6.91	NA	140.06	997.31
12:16:10	13.41	1.51	3.70	3.74	5.46	75.20	685.28	2.81	6.86	6.94	NA	139.53	1271.59
12:16:20	13.41	1.45	4.16	3.67	5.87	75.84	612.17	2.69	7.73	6.82	NA	140.82	1136.61
12:16:30	13.35	1.44	4.98	3.58	6.09	75.27	684.96	2.65	9.17	6.59	NA	138.53	1260.60
12:16:40	12.83	1.45	5.82	3.55	5.87	74.10	759.04	2.50	10.03	6.12	NA	127.62	1307.24
12:16:50	12.40	1.46	6.35	3.61	5.64	73.98	759.16	2.39	10.37	5.91	NA	120.96	1241.17
12:26:50	12.79	1.47	5.47	3.69	5.40	74.26	651.70	2.52	9.38	6.33	NA	127.31	1117.30
12:32:02	13.38	1.38	5.22	3.85	5.10	73.13	770.56	2.55	9.65	7.12	NA	135.09	1423.39
12:33:02	12.02	1.53	6.28	3.75	6.52	71.37	735.89	2.40	9.83	5.86	NA	111.68	1151.63

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
12:34:02	12.35	1.47	6.72	3.74	5.92	70.25	769.44	2.39	10.93	6.08	NA	114.14	1250.24
12:35:02	12.77	1.40	6.85	3.68	5.42	69.30	755.19	2.39	11.72	6.29	NA	118.51	1291.40
12:36:02	13.07	1.37	6.59	3.66	5.26	69.26	699.35	2.44	11.70	6.50	NA	122.99	1241.91
12:37:02	13.17	1.41	6.20	3.64	5.25	69.20	652.89	2.54	11.15	6.55	NA	124.43	1174.02
12:38:02	12.90	1.38	5.17	3.64	5.67	69.57	667.45	2.40	8.98	6.33	NA	120.82	1159.11
12:39:02	12.43	2.16	5.14	3.49	5.70	72.38	667.42	3.54	8.44	5.73	NA	118.73	1094.83
12:40:02	12.48	1.56	5.99	3.58	5.96	75.29	667.42	2.57	9.90	5.91	NA	124.33	1102.13
12:41:02	12.33	1.38	5.32	3.57	5.85	82.09	627.29	2.23	8.62	5.79	NA	133.08	1016.88
12:42:02	12.46	1.37	4.65	3.58	5.48	71.00	581.40	2.26	7.65	5.90	NA	116.97	957.89
12:43:01	12.53	1.33	3.59	3.62	5.47	56.39	581.38	2.20	5.97	6.01	NA	93.68	965.79
12:44:01	12.55	1.31	3.60	3.57	5.34	52.97	581.37	2.18	5.99	5.94	NA	88.16	967.51
12:45:01	12.64	1.30	3.21	3.58	5.27	56.09	581.44	2.19	5.40	6.03	NA	94.35	977.98
12:46:01	12.69	1.29	3.28	3.58	5.20	72.83	581.45	2.18	5.55	6.06	NA	123.24	983.98
12:47:01	12.66	1.28	3.75	3.55	5.57	97.77	571.32	2.15	6.32	5.99	NA	164.85	963.29
12:48:01	12.32	1.30	4.51	3.52	5.78	95.04	577.72	2.10	7.31	5.71	NA	154.03	936.31
12:49:01	12.46	1.32	4.85	3.50	5.61	109.14	619.91	2.17	7.99	5.76	NA	179.73	1020.88
12:50:01	12.59	1.74	5.14	3.55	5.30	101.39	614.45	2.91	8.60	5.94	NA	169.61	1027.92
12:51:01	13.03	1.46	5.40	3.65	5.23	104.85	625.61	2.58	9.54	6.46	NA	185.24	1105.24
12:52:01	12.67	1.40	5.68	3.77	5.56	109.43	581.31	2.36	9.59	6.37	NA	184.73	981.26
12:53:01	12.60	1.41	5.44	3.68	5.14	99.34	581.31	2.36	9.10	6.16	NA	166.37	973.56
12:54:01	13.28	1.38	5.01	3.68	4.97	97.42	581.38	2.51	9.13	6.70	NA	177.63	1060.03
12:55:01	12.70	1.39	6.90	3.65	6.17	98.62	610.38	2.35	11.69	6.19	NA	167.15	1034.56
12:56:00	11.83	1.42	8.95	3.71	6.56	101.02	566.32	2.17	13.71	5.69	NA	154.74	867.46
12:57:00	12.39	1.38	9.06	3.62	5.90	106.56	581.31	2.26	14.80	5.91	NA	174.04	949.50
12:58:00	12.79	1.36	8.48	3.63	5.64	101.90	662.36	2.32	14.53	6.22	NA	174.61	1135.02
12:59:00	12.78	1.35	7.00	3.64	5.35	114.41	667.36	2.31	11.98	6.23	NA	195.74	1141.74
13:00:00	13.08	1.31	6.91	3.63	5.25	121.12	667.32	2.33	12.27	6.45	NA	215.20	1185.62

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
13:01:00	12.70	1.30	6.50	3.61	5.34	122.42	629.42	2.21	11.02	6.12	NA	207.49	1066.80
13:02:00	12.80	1.29	6.34	3.57	5.23	115.31	610.42	2.22	10.88	6.13	NA	197.81	1047.16
13:03:00	12.48	1.51	7.38	3.61	6.01	110.57	581.27	2.49	12.19	5.97	NA	182.62	960.07
13:04:00	12.49	1.42	6.21	3.59	5.35	117.28	624.78	2.35	10.27	5.94	NA	193.86	1032.79
13:05:00	13.40	1.32	5.62	3.66	4.69	113.83	581.25	2.45	10.43	6.79	NA	211.09	1077.92
14:16:54	13.48	1.48	6.73	3.76	4.68	105.62	756.61	2.78	12.61	7.04	NA	197.95	1418.02
14:17:54	13.56	1.50	7.07	3.77	4.54	101.81	756.54	2.85	13.39	7.15	NA	192.89	1433.29
14:18:54	13.65	1.49	7.72	3.81	4.38	97.21	698.39	2.86	14.80	7.30	NA	186.29	1338.39
14:19:54	13.85	1.50	5.65	3.83	4.33	98.47	725.74	2.96	11.15	7.55	NA	194.29	1431.88
14:20:54	13.63	1.85	5.14	3.83	4.61	107.23	714.05	3.54	9.82	7.32	NA	205.14	1366.03
14:21:54	13.54	1.67	4.78	3.82	4.20	114.40	668.12	3.16	9.03	7.22	NA	216.11	1262.09
14:22:54	14.11	1.46	5.58	3.88	4.36	131.45	710.48	2.99	11.43	7.93	NA	269.03	1454.15
14:23:54	13.15	1.56	3.89	3.86	5.68	141.39	711.78	2.80	6.97	6.92	NA	253.57	1276.48
14:24:54	12.67	1.44	2.35	3.78	5.32	150.28	756.54	2.42	3.97	6.38	NA	253.82	1277.78
14:25:54	13.04	1.37	3.46	3.66	5.09	155.41	756.46	2.43	6.12	6.48	NA	274.78	1337.50
14:26:54	13.37	1.39	6.55	3.55	4.80	146.07	756.41	2.57	12.09	6.56	NA	269.73	1396.77
14:27:53	13.56	1.42	8.82	3.57	4.58	152.02	756.53	2.69	16.70	6.76	NA	288.00	1433.24
14:28:53	13.65	1.46	8.77	3.58	4.48	143.63	756.55	2.79	16.80	6.87	NA	275.21	1449.60
14:29:53	13.78	1.47	8.53	3.63	4.60	135.50	751.71	2.86	16.64	7.08	NA	264.49	1467.32
14:30:53	13.26	1.46	9.21	3.66	4.97	142.48	866.95	2.67	16.77	6.66	NA	259.38	1578.29
14:31:53	13.95	1.53	8.67	3.69	3.72	151.92	971.73	3.05	17.32	7.38	NA	303.67	1942.36
14:32:53	14.24	1.50	9.97	3.59	4.29	148.70	1003.55	3.14	20.81	7.50	NA	310.45	2095.17
14:33:53	13.30	1.50	9.28	3.52	4.47	140.31	963.16	2.75	16.97	6.44	NA	256.57	1761.21
14:34:53	13.67	1.54	10.98	3.60	3.97	135.58	942.52	2.95	21.11	6.91	NA	260.54	1811.23
14:35:53	14.07	1.58	11.12	3.65	3.93	140.20	933.93	3.22	22.64	7.42	NA	285.36	1900.96

BORGESS MEDICAL CENTER

BAGHOUSE INLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)
14:36:53	14.08	1.63	11.21	3.71	4.11	118.57	1051.49
14:37:53	13.56	1.72	11.79	3.68	4.68	101.28	876.21
14:38:53	13.82	1.61	9.49	3.69	4.32	98.91	808.79
14:39:53	13.69	1.55	4.14	3.70	4.48		840.07
14:40:52	13.93	1.48	3.24	3.67	4.12		801.99
14:41:52	14.20	1.46	5.70	3.63	3.99		756.38
14:42:52	14.36	1.44	6.08	3.75	3.86		696.62
14:43:52	14.42	1.44	5.76	3.83	3.81		671.32
14:44:52	14.07	1.43	5.64	3.86	5.19	108.34	742.10
14:45:52	12.64	1.44	5.34	3.76	5.10	105.97	561.00
14:46:52	14.35	1.40	2.95	3.74	3.67	104.09	494.33
14:47:52	14.90	1.33	2.02	3.85	3.46	101.94	494.42
14:48:52	14.67	1.32	1.56	4.00	3.76	100.87	494.40
14:49:52	14.51	1.51	1.38	4.03	3.38	99.85	494.40
14:50:52	15.12	1.39	1.26	4.14	3.00	98.67	494.42
14:51:52	15.07	3.06	1.58	4.16	3.73	117.39	534.00
14:52:52	13.78	3.20	2.64	4.10	4.97	111.75	487.91
14:53:51	14.09	1.40	1.91	4.14	3.78	103.76	417.85
14:54:51	14.68	1.30	2.14	4.12	4.19	100.54	524.39
14:55:51	14.16	1.34	1.24	4.54	3.34	99.23	412.74
14:56:51	15.49	1.34	0.81	4.33	2.95	97.51	435.43
14:57:51	14.61	1.26	0.68	4.12	3.50	97.54	430.93
14:58:51	14.43	1.27	1.24	6.10	3.57	108.83	479.22
14:59:51	13.80	1.37	2.77	18.29	4.84	80.90	560.16
15:00:51	13.40	1.29	2.38	5.83	4.64	79.82	624.17
15:01:51	13.53	1.25	0.11	3.81	4.95	80.99	668.25
15:02:51	12.97	1.21	1.54	3.62	5.45	79.12	602.06

----------CORRECTED TO 7% OXYGEN----------

THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
3.32	22.86	7.56	NA	241.82	2144.52
3.25	22.33	6.97	NA	191.84	1659.78
3.16	18.62	7.24	NA	194.13	1587.46
2.99	7.99	7.13	NA		1620.28
2.96	6.47	7.33	NA		1599.95
3.03	11.82	7.53	NA		1569.95
3.06	12.91	7.96	NA		1479.46
3.08	12.37	8.21	NA		1440.14
2.91	11.48	7.87	NA	220.62	1511.15
2.43	8.99	6.33	NA	178.38	944.29
2.98	6.27	7.93	NA	220.90	1049.11
3.08	4.68	8.91	NA	236.17	1145.44
2.95	3.49	8.92	NA	224.95	1102.55
3.29	3.00	8.76	NA	217.35	1076.23
3.35	3.04	9.95	NA	237.20	1188.60
7.29	3.76	9.92	NA	279.89	1273.20
6.25	5.16	8.01	NA	218.29	953.06
2.87	3.90	8.46	NA	211.93	853.48
2.91	4.79	9.21	NA	224.70	1171.97
2.76	2.55	9.36	NA	204.74	851.60
3.45	2.07	11.13	NA	250.69	1119.42
2.79	1.49	9.11	NA	215.66	952.76
2.73	2.65	13.09	NA	233.64	1028.83
2.67	5.42	35.82	NA	158.41	1096.83
2.38	4.42	10.80	NA	147.86	1156.29
2.35	0.21	7.18	NA	152.73	1260.18
2.12	2.70	6.35	NA	138.68	1055.28

BORGESS MEDICAL CENTER
BAGHOUSE INLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								----------CORRECTED TO 7% OXYGEN----------					
15:03:51	13.10	1.25	2.35	3.49	4.98	80.19	596.91	2.22	4.19	6.22	NA	142.92	1063.86
15:04:51	13.49	1.20	3.10	3.51	4.71	79.24	662.78	2.26	5.81	6.58	NA	148.60	1242.89
15:05:51	13.59	1.21	4.00	3.51	4.65	98.00	668.31	2.30	7.61	6.67	NA	186.40	1271.16
15:06:50	13.61	1.24	3.74	3.51	4.58	91.36	668.22	2.36	7.13	6.69	NA	174.20	1274.10
(pre & post	12.54	1.53	6.94	4.33	5.63	83.27	809.67	2.56	11.19	7.32		154.33	1349.71
port change averages)	13.88	1.50	4.98	4.16	4.33	80.71	686.45	3.00	9.75	8.32		223.26	1356.38
FINAL AVE	12.90	1.52	6.42	4.29	5.28	97.85	776.77	2.68	10.81	7.59		171.38	1351.49
CV	0.10	0.16	0.60	0.36	0.21	0.26	0.28	0.22	0.54	0.41		0.28	0.26

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								corrected to 7% oxygen					
12:15:24	13.99	3.980614	24.69	1.155808	5.69	159.78	89.94	8.005158	49.66129	2.324372	11.45176	321.3332	180.8708
12:16:24	14.12	0.9483213	16.97	1.420185	5.55	154.61	174.68	1.944365	34.80241	2.911838	11.37039	317.0017	358.1412
12:17:24	14.35	3.68251	25.35	0.9686264	5.32	147.27	259.13	7.817012	53.80393	2.056142	11.29026	312.6157	550.0638
12:18:24	14.32	3.999721	25.44	1.370832	5.91	153.82	230.60	8.447205	53.72712	2.895127	12.49184	324.8646	487.0172
12:19:23	13.18	3.684543	23.87	0.7913488	6.57	150.28	205.39	6.631544	42.96584	1.424292	11.81772	270.4726	369.6674
12:20:23	13.77	3.436208	24.76	0.9336925	5.90	138.21	219.51	6.703243	48.30864	1.821417	11.51239	269.622	428.2048
12:21:23	14.36	2.952984	24.04	1.942682	5.22	122.43	232.26	6.27293	51.07346	4.126778	11.07968	260.0816	493.3866
12:22:23	14.64	2.550806	22.39	0.9046972	5.19	118.21	235.30	5.661669	49.70518	2.008031	11.52546	262.3758	522.2609
12:23:23	14.75	2.176743	20.83	1.752602	5.04	115.26	238.07	4.919289	47.08539	3.96076	11.39892	260.4722	538.0186
12:24:23	14.90	1.834283	19.94	1.832807	4.88	111.04	255.86	4.249869	46.20528	4.246449	11.30716	257.2729	592.806
12:25:23	15.07	1.647831	19.14	1.822201	4.83	106.84	218.16	3.927188	45.62623	4.342754	11.51604	254.6149	519.9203
12:26:23	14.29	1.361423	17.30	1.642456	5.66	108.89	182.72	2.864657	36.40746	3.455996	11.91781	229.1247	384.4757
12:27:23	13.77	0.944546	16.23	0.6032131	5.39	103.34	138.80	1.842367	31.65581	1.176587	10.51798	201.5622	270.7296
12:28:23	14.84	0.2657542	13.34	1.447853	4.87	98.19	63.79	0.609491	30.5904	3.320561	11.17498	225.1899	146.2949
12:29:23	14.88	0	9.10	2.585589	5.20	94.54	68.56	0	21.03099	5.972349	12.00601	218.3815	158.3654
12:30:23	13.92	0	9.94	0.6675555	5.44	89.34	105.83	0	19.80711	1.329685	10.84365	177.9521	210.797
12:31:23	14.37	0	12.30	1.627575	4.88	80.73	120.07	0	26.18957	3.465859	10.38796	171.9087	255.6775
12:32:43	14.39	0	12.98	1.697777	5.17	85.89	126.54	0	27.72104	3.625327	11.03963	183.4099	270.1951
12:33:43	14.28	0	13.08	1.61486	5.15	90.25	82.91	0	27.43795	3.388502	10.81181	189.3781	173.9662
12:34:43	13.80	0	9.34	1.107769	5.87	97.38	51.83	0	18.28929	2.168169	11.48295	190.593	101.4362
12:35:43	13.59	1.401291	7.01	1.032823	5.59	92.86	42.21	2.665648	13.33789	1.964719	10.63273	176.6462	80.30286
12:36:43	14.49	0.2288144	7.80	1.82469	4.78	81.48	46.60	0.496431	16.92424	3.958811	10.37229	176.7844	101.1074
12:37:43	15.07	0	10.25	1.522635	5.06	79.46	56.65	0	24.43187	3.628535	12.05071	189.363	135.0036
12:38:43	14.09	0	11.63	1.369538	5.30	81.23	69.58	0	23.74329	2.796523	10.82286	165.8682	142.0703
12:39:43	14.15	0	11.23	1.081041	5.11	78.17	53.48	0	23.11577	2.225036	10.51694	160.9008	110.0762
12:40:42	14.36	0	10.04	1.189121	5.06	78.37	46.61	0	21.35136	2.528326	10.74914	166.6228	99.11309
12:41:42	13.70	0.2218373	9.16	1.178959	5.82	103.00	41.48	0.428071	17.66934	2.274991	11.23927	198.76	80.04567
12:42:42	14.74	0	8.30	1.351114	4.71	81.62	43.70	0	18.7303	3.0478	10.63251	184.112	98.58398

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								----------corrected to 7% oxygen----------					
12:43:42	14.99	0	9.92	1.813971	5.09	71.90	50.70	0	23.34051	4.269938	11.97821	169.2504	119.3539
12:44:42	14.28	0	9.72	1.044794	5.05	69.11	40.50	0	20.405	2.192271	10.59682	145.0084	84.98051
12:45:42	14.47	0	8.32	1.121069	4.91	67.57	39.12	0	17.99318	2.424687	10.61665	146.1441	84.60455
12:46:42	14.60	3.572753	5.18	1.495672	4.76	67.81	34.14	7.881602	11.42129	3.299498	10.5039	149.583	75.32483
12:47:42	14.69	5.520321	3.16	1.016169	4.72	68.66	28.90	12.35019	7.067226	2.273397	10.56794	153.6064	64.66617
12:48:42	14.44	5.47704	3.01	1.287598	5.35	76.27	27.20	11.78427	6.480434	2.770365	11.50132	164.0987	58.53137
12:49:42	13.89	5.294789	2.92	0.9522088	5.23	72.26	28.97	10.50487	5.800658	1.849504	10.38599	143.3561	57.48391
12:50:42	14.53	5.039386	2.76	1.986041	4.99	73.39	30.39	10.99541	6.018737	4.333332	10.88147	160.1235	66.3143
12:51:42	14.59	2.263261	6.00	1.436651	4.64	69.52	39.95	4.986816	13.21173	3.165483	10.23431	153.1724	88.03551
12:52:42	15.30	0	10.79	1.908612	4.47	67.45	64.47	0	26.77347	4.737278	11.10667	167.4023	160.0088
12:53:41	14.88	0	13.58	1.30706	4.69	66.35	69.37	0	31.3617	3.019056	10.8254	153.2526	160.2356
12:54:41	14.86	0	13.20	1.50467	4.60	65.78	60.83	0	30.3923	3.463927	10.59895	151.4255	140.037
12:55:41	15.00	0	9.83	1.638761	4.47	66.53	38.34	0	23.15275	3.860856	10.5365	156.7351	90.33055
12:56:41	14.08	2.071788	6.53	1.084729	5.89	80.14	33.97	4.221655	13.30958	2.210338	12.00313	163.3086	69.2276
12:57:41	14.73	5.48838	3.39	1.669514	4.29	69.22	30.40	12.35597	7.627041	3.758571	9.654149	155.8368	68.4461
12:58:41	15.97	4.756898	2.59	2.306399	4.30	64.82	27.30	13.39906	7.286477	6.496583	12.11474	182.5966	76.90234
12:59:41	14.93	4.15975	2.22	1.707956	4.78	59.07	30.47	9.689416	5.178722	3.978387	11.12733	137.5938	70.96808
13:00:41	14.85	4.589911	2.55	1.80128	4.62	59.27	30.86	10.54848	5.849052	4.139682	10.62306	136.2175	70.91162
13:01:41	15.34	4.890893	4.02	1.933113	4.28	61.67	38.47	12.22237	10.04549	4.830862	10.68461	154.1143	96.14303
13:02:41	15.63	2.257925	6.18	2.227028	4.18	61.93	41.65	5.951734	16.28741	5.870291	11.01819	163.2326	109.7846
13:03:41	14.73	1.522628	6.76	2.033549	5.61	69.89	34.41	3.428309	15.22831	4.578685	12.64176	157.3595	77.47951
13:04:41	14.51	4.866981	4.35	1.658909	4.47	69.48	29.09	10.5902	9.47531	3.609666	9.730174	151.1943	63.30307
13:05:41	16.03	5.245173	3.15	2.751682	3.79	62.24	30.78	14.96938	8.985449	7.853119	10.8086	177.6319	87.84934
13:06:51	16.17	5.080044	2.87	2.297077	4.00	64.58	30.94	14.9293	8.42065	6.750681	11.75672	189.7751	90.91587
13:07:50	15.11	4.78038	3.03	1.962761	4.35	63.72	25.69	11.48038	7.27741	4.713692	10.43829	153.0238	61.70624
13:08:50	15.79	4.8955	3.10	2.364966	3.80	60.80	27.99	13.32401	8.444129	6.436693	10.3346	165.4845	76.18669
13:09:50	16.12	4.878727	3.05	2.15208	3.74	59.05	28.19	14.1787	8.860477	6.254438	10.86886	171.6105	81.91657
13:10:50	15.76	4.915894	3.01	2.364457	4.70	64.89	26.10	13.29168	8.141534	6.39306	12.71743	175.4586	70.5822

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								corrected to 7% oxygen					
13:11:50	13.90	4.217821	2.45	1.597521	5.62	76.53	21.91	8.374634	4.861167	3.171935	11.1563	151.9578	43.5091
13:12:50	15.10	3.587678	2.01	1.951011	4.38	74.55	23.89	8.596055	4.813401	4.674611	10.48367	178.6097	57.24622
13:13:50	16.10	3.353962	1.75	2.58759	3.79	67.21	18.64	9.713223	5.066256	7.493776	10.96344	194.6436	53.97263
13:14:50	16.09	2.599643	1.30	2.150857	4.00	61.43	19.21	7.505398	3.766781	6.209713	11.54149	177.3475	55.45123
13:15:50	15.48	2.557704	1.22	2.344866	4.35	65.47	17.14	6.560793	3.117522	6.01484	11.15269	167.9347	43.96122
13:16:50	15.23	2.34892	1.17	2.119729	4.23	61.71	18.20	5.760997	2.88133	5.198879	10.37404	151.3577	44.6271
13:17:50	15.50	1.987332	1.00	1.980864	4.32	52.86	18.40	5.111772	2.572878	5.095135	11.12211	135.9666	47.33436
13:18:50	14.49	2.30197	1.11	1.709361	5.00	67.33	18.01	4.995267	2.416634	3.709308	10.84196	146.111	39.07739
13:19:50	16.08	2.018279	1.03	2.342676	3.49	56.48	16.80	5.826114	2.969135	6.762542	10.08316	163.0273	48.48686
13:20:49	16.26	2.114981	1.02	2.524458	4.10	69.13	19.13	6.331433	3.042258	7.557248	12.28294	206.9544	57.25933
13:21:49	15.31	2.503862	1.13	2.105271	4.31	74.04	16.38	6.230062	2.823217	5.238296	10.71276	184.2144	40.74785
13:22:49	15.72	2.407133	1.18	2.275507	3.84	69.88	20.72	6.455295	3.165459	6.102309	10.29457	187.4063	55.57785
13:23:49	16.20	2.137111	0.99	2.360675	3.71	65.22	16.37	6.321885	2.931355	6.98322	10.98072	192.9413	48.4115
13:24:49	16.15	2.312274	1.04	2.396977	4.27	70.54	15.98	6.765903	3.048497	7.013751	12.49941	206.3974	46.7656
13:25:49	14.34	3.062732	1.30	1.141821	5.46	97.01	16.95	6.494481	2.755871	2.421216	11.58581	205.7136	35.93686
13:26:49	15.11	3.33721	1.48	1.501517	4.28	98.67	16.63	8.011042	3.543514	3.604423	10.2807	236.8566	39.91915
13:27:49	16.10	3.330327	1.53	2.637895	3.91	88.25	16.20	9.652196	4.429001	7.645339	11.32374	255.7718	46.9428
13:28:49	16.33	2.727623	1.24	2.388969	3.86	79.04	16.61	8.290321	3.772587	7.261018	11.72789	240.2446	50.47543
13:29:49	15.97	2.247591	0.98	2.319123	3.92	66.86	17.44	6.336404	2.761781	6.538067	11.04985	188.4998	49.1572
13:30:49	16.02	2.081838	0.93	2.275423	3.96	63.74	16.83	5.9343	2.639585	6.486117	11.28213	181.6792	47.98788
13:31:49	15.51	2.069961	0.98	2.284589	4.18	64.48	17.86	5.340843	2.539436	5.894619	10.79085	166.3596	46.0868
13:32:49	15.11	2.230134	0.99	2.05441	4.74	63.51	15.13	5.355601	2.381976	4.933605	11.38903	152.5112	36.34602
13:33:48	15.52	1.560926	0.82	1.796401	3.99	51.25	17.51	4.02943	2.125453	4.637294	10.31248	132.2951	45.20928
13:34:48	16.19	1.250279	0.64	2.596337	3.72	49.53	17.90	3.689564	1.880067	7.66177	10.97833	146.176	52.80966
13:35:48	15.75	1.832032	1.06	1.949892	3.95	51.36	22.36	4.94807	2.858962	5.266394	10.65726	138.7113	60.39595
13:36:48	15.70	3.391387	2.14	2.065759	3.74	45.58	32.15	9.062894	5.729124	5.520383	9.994298	121.8069	85.90702
13:37:48	16.47	4.095281	2.63	1.894374	3.28	39.14	25.26	12.84445	8.255646	5.941518	10.29874	122.7653	79.21325
13:38:48	16.44	3.654712	2.27	2.527431	3.57	47.66	34.90	11.40285	7.090227	7.885688	11.15211	148.7081	108.9011

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	----------corrected to 7% oxygen----------					
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
13:39:48	15.53	4.399356	4.12	1.610958	4.70	59.11	38.98	11.38605	10.65355	4.169348	12.16614	152.9836	100.8758
13:40:48	14.39	3.23752	5.16	1.265482	4.84	68.44	28.23	6.912953	11.02771	2.702136	10.3428	146.1382	60.28686
13:41:48	16.04	4.142745	2.59	1.842446	3.63	55.19	27.45	11.85018	7.398289	5.270252	10.39163	157.8722	78.50929
13:42:48	16.45	4.634492	3.39	2.075737	3.91	57.60	33.20	14.47316	10.57492	6.482364	12.21105	179.8692	103.6797
13:43:48	15.33	1.28326	6.34	2.083596	4.46	57.55	41.41	3.201735	15.8234	5.198574	11.12084	143.5756	103.328
13:44:48	15.45	0	8.35	2.537842	3.97	54.05	52.25	0	21.30038	6.475358	10.14229	137.9143	133.3118
13:45:48	16.09	0	9.20	1.891919	3.68	50.87	47.70	0	26.59648	5.467008	10.64196	146.9898	137.8279
13:46:47	16.21	0	7.62	2.551224	3.67	51.17	36.75	0	22.58299	7.564955	10.88008	151.7314	108.9862
13:47:47	15.56	4.498367	3.03	1.686255	4.79	57.71	25.39	11.7095	7.886876	4.389414	12.47952	150.2312	66.08781
13:48:47	14.33	3.212979	1.90	1.899595	4.93	58.07	22.68	6.79254	4.009684	4.015923	10.42926	122.7727	47.95615
13:49:47	15.88	2.013605	1.13	2.199759	3.76	53.99	22.84	5.579554	3.135723	6.095374	10.40559	149.6041	63.30021
13:50:47	16.58	1.549806	0.80	2.600046	3.60	51.58	19.71	4.987337	2.561817	8.367051	11.58122	166	63.41401
13:51:47	15.67	1.33552	0.60	2.243779	4.10	54.49	18.85	3.548188	1.601822	5.961235	10.90363	144.77	50.08473
13:52:47	15.57	0.6948607	0.33	2.153953	3.91	46.68	18.62	1.811094	0.86749	5.614091	10.19053	121.6774	48.52773
13:53:47	16.14	0.8664079	0.42	2.518165	3.43	44.74	16.56	2.532573	1.233228	7.360779	10.01784	130.7733	48.40734
13:54:47	16.11	0.6466714	0.23	2.361511	4.10	49.87	16.66	1.875125	0.655436	6.847573	11.89406	144.6185	48.31455
13:55:47	15.01	0.5862488	0.20	1.889865	4.58	47.85	17.61	1.384471	0.465503	4.46306	10.82507	113.01	41.57812
13:56:47	15.10	0.7463995	0.25	2.118609	4.35	44.77	16.47	1.788816	0.602161	5.077444	10.4139	107.3017	39.47014
13:57:47	15.72	0.7661337	0.33	2.239173	3.69	39.03	18.56	2.05479	0.889289	6.005519	9.898898	104.6858	49.77676
13:58:47	16.36	0.4988492	0.11	2.408586	3.61	39.90	16.44	1.52568	0.351099	7.36642	11.02554	122.0222	50.28184
13:59:47	15.94	0.2795208	0.06	2.410429	3.79	41.01	17.17	0.783442	0.165112	6.755959	10.62501	114.9312	48.1298
14:00:46	15.86	0.3845731	0.08	2.308828	3.72	41.01	16.45	1.061188	0.215312	6.370963	10.26901	113.1514	45.40013
14:01:46	15.91	0.4966545	0.06	2.310148	4.13	49.32	15.57	1.384324	0.177968	6.439069	11.52265	137.4702	43.4046
14:02:46	14.91	0.5638354	0.19	0.736055	4.37	48.34	16.21	1.308054	0.442582	1.70759	10.13401	112.1398	37.61687
14:03:46	15.75	0.3789344	0.04	0.8390596	3.81	44.09	15.63	1.021977	0.095528	2.262924	10.28446	118.9088	42.14201
14:04:46	15.93	0.3944322	0.01	1.207214	3.69	43.32	14.69	1.102395	0.021387	3.374032	10.31015	121.0679	41.0465
14:05:46	15.88	0.2225301	0.04	1.398499	3.70	39.69	16.25	0.616131	0.119622	3.872099	10.24805	109.8959	44.99545
14:06:46	15.87	0.1327133	0.00	1.487307	3.74	38.54	13.42	0.366404	0	4.106257	10.33407	106.3901	37.03803

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	THC	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmCH4,d	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
								----------corrected to 7% oxygen----------					
14:07:46	15.79	0.3030687	0.00	1.27271	3.75	40.25	14.03	0.82394	0	3.460061	10.18335	109.4173	38.13337
14:08:46	15.76	0.5119767	0.01	1.036297	4.01	54.20	13.16	1.38423	0.03625	2.801832	10.8306	146.5477	35.5715
14:09:46	14.52	1.009308	0.35	0.2044906	5.25	64.82	12.88	2.198969	0.764237	0.445522	11.4426	141.2204	28.06327
14:10:46	14.12	0.5773897	0.38	0	5.21	58.53	16.18	1.182879	0.77385	0	10.66945	119.9071	33.14512
14:11:46	15.26	0.6003585	0.28	0.4200323	4.32	50.38	17.43	1.480523	0.687744	1.035827	10.64777	124.2424	42.9775
14:12:46	15.41	0.3775917	0.11	0.3520623	4.40	47.87	16.59	0.955415	0.289997	0.890818	11.12917	121.1161	41.98845
14:13:45	15.03	0.3607274	0.08	0.2995537	4.51	51.32	13.88	0.854523	0.182678	0.709609	10.67699	121.5752	32.88593
14:14:45	15.03	0.7177839	0.18	0.360986	4.30	52.89	11.54	1.699313	0.437935	0.854614	10.18603	125.2063	27.33084
14:15:45	15.31	0.4176581	0.16	0.2863117	4.17	49.27	14.90	1.039289	0.399053	0.71245	10.38243	122.5968	37.08014
15:25:40	13.75	0	9.81	0	5.07	78.87	43.50	0	19.07593	0	9.863812	153.3997	84.60717
15:26:40	15.41	2.128115	4.42	0	4.43	69.02	30.09	5.390873	11.20731	0	11.23137	174.8309	76.22868
15:27:40	15.60	2.615402	1.75	0	4.59	66.34	26.84	6.861035	4.583724	0	12.04319	174.0433	70.4126
15:28:40	14.58	3.349002	2.24	0	4.99	63.76	27.66	7.360397	4.919819	0	10.96066	140.1214	60.78588
15:29:40	14.55	3.693331	2.50	0	4.88	62.03	32.92	8.082323	5.469315	0	10.68243	135.7406	72.03687
15:30:40	15.28	2.406102	5.28	0	4.02	59.14	34.59	5.950908	13.05432	0	9.949702	146.2691	85.54805
15:31:39	15.42	2.445133	5.65	0	5.04	66.36	37.48	6.201403	14.32834	0	12.78429	168.2945	95.05986
15:32:39	13.16	3.859178	4.18	0	6.49	89.77	34.39	6.927442	7.501319	0	11.65308	161.14	61.73676
15:33:39	14.00	2.251989	6.14	0	5.17	85.86	37.71	4.534966	12.35825	0	10.40287	172.9077	75.93161
15:34:39	14.99	0	13.39	0	4.82	81.52	62.85	0	31.49524	0	11.33648	191.7761	147.8648
15:35:39	15.23	0.2940581	11.13	0	4.57	75.47	40.91	0.720394	27.26824	0	11.20759	184.8828	100.2197
15:36:39	15.46	0.7815732	8.08	0	4.49	72.93	61.60	1.995432	20.64063	0	11.4665	186.2042	157.2791
15:37:39	15.53	0	13.18	0	4.46	73.16	77.89	0	34.10828	0	11.53169	189.3625	201.6008
15:38:39	14.97	0	12.78	0	5.10	77.46	71.01	0	29.94922	0	11.95404	181.5714	166.4404
15:39:39	13.55	0	11.54	0	6.15	92.34	63.02	0	21.83719	0	11.63351	174.6954	119.2248
15:40:39	14.21	0	13.52	0	5.20	79.83	77.17	0	28.09688	0	10.81308	165.9369	160.3951
15:41:39	14.99	0.09631959	15.57	0	4.92	76.55	88.80	0.226699	36.63657	0	11.58882	180.1633	208.997

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
					corrected to 7% oxygen								
15:42:39	15.14	0.1268642	15.47	0	4.79	77.97	93.42	0.306175	37.34337	0	11.5716	188.1676	225.4522
15:43:39	15.24	0	13.29	0	4.70	76.53	84.16	0	32.61767	0	11.52988	187.8315	206.5677
15:44:38	15.34	0	12.44	0	4.60	75.96	84.34	0	31.09858	0	11.51353	189.9317	210.8936
15:45:38	15.44	0	12.17	0	4.48	79.21	61.75	0	31.00871	0	11.41226	201.8	157.3235
15:46:38	14.67	4.401431	3.60	0	5.86	97.19	37.72	9.824828	8.04542	0	13.07077	216.945	84.19839
15:47:38	14.01	4.632567	2.93	0	5.12	82.15	37.74	9.349644	5.923504	0	10.3428	165.8005	76.16926
15:48:38	15.30	2.776971	5.49	0	4.57	76.94	42.86	6.892974	13.63402	0	11.34354	190.9755	106.3909
15:49:38	15.47	0.000444796	7.39	0	4.44	75.19	47.82	0.001139	18.93832	0	11.37637	192.5583	122.4798
15:50:38	15.18	0.9262712	6.64	0	4.99	75.41	41.17	2.252621	16.13988	0	12.13169	183.4026	100.1287
15:51:38	14.28	4.81775	3.14	0	4.92	70.02	39.10	10.11739	6.600111	0	10.32881	147.0337	82.11145
15:52:38	15.45	2.969078	5.04	0	4.23	68.02	42.55	7.576056	12.86456	0	10.78865	173.5551	108.5604
15:53:38	14.96	4.087411	4.91	0	5.56	83.20	41.57	9.556773	11.47112	0	12.99335	194.5368	97.20203
15:54:38	13.68	4.287828	2.89	0	5.24	74.92	30.18	8.252068	5.564711	0	10.08199	144.193	58.07891
15:55:38	15.32	4.281813	3.73	0	4.52	70.17	33.03	10.66188	9.280237	0	11.24261	174.7201	82.24094
15:56:38	15.71	4.117666	3.83	0	4.31	68.44	27.97	11.0201	10.26294	0	11.53005	183.175	74.86772
15:57:38	15.06	2.245923	1.54	0	5.05	69.43	26.13	5.350148	3.66097	0	12.02341	165.3886	62.25306
15:58:37	14.28	1.895424	1.30	0	4.95	63.62	24.88	3.980684	2.721918	0	10.39072	133.6083	52.24704
15:59:37	15.45	3.181936	2.00	0	4.22	59.25	25.84	8.116588	5.105551	0	10.75306	151.1456	65.9109
16:00:37	15.28	4.414598	2.89	0	4.91	64.35	31.48	10.91597	7.133885	0	12.13072	159.1121	77.85042
16:01:37	13.83	4.223264	2.74	0	5.52	68.38	28.42	8.30361	5.391789	0	10.85295	134.4463	55.8706
16:02:37	15.27	3.652848	2.64	0	4.23	60.09	26.81	9.021589	6.519344	0	10.45758	148.4074	66.20406
16:03:37	15.45	4.955208	3.26	0	4.76	59.75	28.32	12.62899	8.297698	0	12.1369	152.2922	72.17063
16:04:37	14.55	4.375824	3.60	0	4.91	58.10	30.91	9.579873	7.888892	0	10.75432	127.1906	67.66824
16:05:37	14.80	3.660942	4.60	0	4.40	57.02	32.95	8.34888	10.48395	0	10.0248	130.0282	75.13302
16:06:37	15.86	0	8.60	0	4.27	55.73	36.61	0	23.71274	0	11.782	153.7448	100.996
16:07:37	14.89	1.790358	5.87	0	4.70	55.65	34.33	4.13979	13.5734	0	10.8682	128.6759	79.37471
16:08:37	14.14	4.660633	3.84	0	5.84	74.37	30.99	9.58008	7.899259	0	12.00543	152.8613	63.70371
16:09:37	13.73	4.845809	3.39	0	6.07	78.69	29.98	9.394914	6.580753	0	11.77128	152.5643	58.13207

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	----------corrected to 7% oxygen----------					
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
16:10:37	14.28	2.303162	1.54	0	4.99	65.71	22.86	4.83574	3.229932	0	10.47168	137.9588	47.99415
16:11:36	15.81	0.2828221	0.19	0	3.96	55.09	19.48	0.771855	0.509606	0	10.81596	150.3497	53.15834
16:12:36	15.62	0.2766475	0.22	0	4.75	58.14	21.57	0.728913	0.567424	0	12.50833	153.1749	56.83746
16:13:36	14.45	0.4280539	0.28	0	4.96	56.24	20.34	0.921777	0.606333	0	10.6809	121.1177	43.7948
16:14:36	14.59	0.3695214	0.40	0	4.73	54.13	21.56	0.813518	0.883557	0	10.4074	119.1702	47.46182
16:15:36	15.61	1.51451	1.00	0	4.36	58.90	19.70	3.981271	2.636404	0	11.45523	154.8453	51.79351
16:16:36	14.09	1.738299	1.08	0	5.77	68.59	22.22	3.548914	2.201841	0	11.7771	140.0421	45.35541
16:17:36	14.69	2.37809	1.66	0	4.37	55.69	22.30	5.326516	3.712188	0	9.785447	124.7333	49.95442
16:18:36	15.93	3.156538	2.05	0	4.11	55.09	21.85	8.824522	5.726818	0	11.47798	154.0064	61.07583
16:19:36	15.60	0.7600613	0.53	0	4.62	54.69	18.45	1.994102	1.3978	0	12.12543	143.479	48.40665
16:20:36	14.75	0.8196477	0.42	0	4.50	51.76	15.87	1.852923	0.960341	0	10.18101	117.0108	35.87584
16:21:36	15.95	1.227753	0.89	0	3.86	49.22	16.80	3.447163	2.51266	0	10.83799	138.1902	47.17423
16:22:36	15.77	1.89151	1.36	0	4.55	53.06	20.01	5.120971	3.681776	0	12.32084	143.6571	54.17529
16:23:36	14.05	2.283929	1.38	0	5.53	67.15	20.64	4.63528	2.810475	0	11.22659	136.2723	41.89132
16:24:35	14.83	2.045287	1.32	0	4.84	60.80	19.94	4.687282	3.022121	0	11.08071	139.3366	45.68778
16:25:35	15.25	2.482448	1.67	0	4.68	59.09	22.76	6.102261	4.117098	0	11.50959	145.2476	55.95471
16:26:35	15.23	3.077248	1.92	0	4.71	60.48	19.72	7.544682	4.695472	0	11.54526	148.2879	48.3407
16:27:35	15.30	1.087645	0.74	0	4.64	60.99	19.41	2.700959	1.849591	0	11.52091	151.4521	48.21283
16:28:35	15.33	0.3142055	0.23	0	4.57	59.68	15.14	0.783951	0.563405	0	11.41194	148.9033	37.76394
16:29:35	15.37	0.2142852	0.26	0	4.70	60.81	16.08	0.538703	0.643377	0	11.80781	152.884	40.42977
16:30:35	14.25	0.8301111	0.28	0	5.89	83.48	14.85	1.73637	0.577607	0	12.31454	174.6125	31.05436
16:31:35	13.98	0.9448227	0.57	0	5.57	88.40	20.60	1.897067	1.152876	0	11.18143	177.4933	41.36856
16:32:35	14.39	1.897606	0.81	0	5.31	84.71	16.68	4.05249	1.734987	0	11.33966	180.9067	35.62579
16:33:35	14.55	2.429494	1.34	0	5.23	84.17	17.66	5.318474	2.922821	0	11.44081	184.2487	38.67005
16:34:35	14.63	4.061176	2.47	0	5.17	82.52	18.22	9.004997	5.466404	0	11.464	182.981	40.38964
16:35:35	14.60	4.445731	2.65	0	5.16	78.01	20.23	9.813243	5.856854	0	11.39669	172.1999	44.66547
16:36:35	14.68	1.844798	6.20	0	5.03	77.09	20.73	4.12364	13.86519	0	11.24699	172.3107	46.34259
16:37:34	14.75	3.808182	3.57	0	4.99	74.46	18.38	8.604592	8.061727	0	11.26726	168.2431	41.53266

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2	THC	SO2	CO	CO2	NOX	Hcl	----------corrected to 7% oxygen----------					
	(%V,dry)	(ppmCH4,wet)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
16:38:34	14.88	2.368899	1.39	0	4.86	70.42	21.62	5.465713	3.19636	0	11.21115	162.4869	49.87333
16:39:34	14.99	2.241024	1.45	0	4.78	68.61	20.77	5.266552	3.41096	0	11.2333	161.2309	48.80396
16:40:34	15.07	2.243679	1.25	0	4.67	66.59	18.95	5.348543	2.976711	0	11.13943	158.7497	45.18456
16:41:34	15.26	2.999914	1.90	0	4.55	64.52	16.98	7.395293	4.686187	0	11.22559	159.0498	41.85558
16:42:34	15.32	3.699847	2.39	0	4.57	65.98	18.79	9.216052	5.946794	0	11.38377	164.3617	46.79606
16:43:34	14.76	4.08359	2.58	0	5.28	73.51	19.49	9.23823	5.835087	0	11.93623	166.3022	44.08542
16:44:34	14.82	3.445062	2.07	0	4.86	61.01	17.94	7.874402	4.740298	0	11.11663	139.4446	41.00837
16:45:34	15.29	1.546743	1.10	0	4.63	56.74	21.22	3.83307	2.721191	0	11.47113	140.6085	52.5907
16:46:34	15.59	0	0.08	0	4.40	54.65	19.75	0	0.216414	0	11.50326	142.9981	51.67552
16:47:34	15.56	0	0.00	0	4.65	57.19	17.96	0	0	0	12.08664	148.78	46.72369
16:48:34	14.60	0	0.00	0	4.99	56.37	17.79	0	0	0	11.00401	124.4193	39.2725
16:49:34	14.83	0	0.00	0	4.35	53.98	14.01	0	0	0	9.952672	123.634	32.09604
16:50:33	15.70	0.5905565	0.22	0	4.81	64.43	14.26	1.577377	0.599887	0	12.84321	172.1011	38.08205
16:51:33	13.89	0.3951609	0.08	0	5.47	64.70	15.61	0.783891	0.150645	0	10.85902	128.3533	30.96009
16:52:33	14.84	0.412074	0.17	0	4.61	60.54	15.85	0.945007	0.39958	0	10.58229	138.8264	36.34846
16:53:33	15.51	0.4549567	0.32	0	4.44	61.62	18.80	1.173337	0.833239	0	11.44589	158.9165	48.48728
16:54:33	15.56	0	0.02	0	4.55	58.58	14.58	0	0.055605	0	11.84147	152.5758	37.97692
16:55:33	14.56	0	0.00	0	5.06	57.64	14.26	0	0	0	11.0965	126.3081	31.2414
16:56:33	14.98	0	0.00	0	4.22	55.04	13.48	0	0	0	9.909052	129.1948	31.63363
16:57:33	15.68	0	0.00	0	4.78	70.39	15.58	0	0	0	12.74309	187.5278	41.50925
16:58:33	13.71	0.2694459	0.00	0	5.88	83.66	12.25	0.521264	0	0	11.37378	161.8557	23.69842
16:59:33	14.51	0.2208593	0.07	0	4.99	73.50	17.88	0.48019	0.161011	0	10.84205	159.7927	38.87438
17:00:33	15.13	1.176662	0.69	0	4.77	72.85	17.27	2.835261	1.662234	0	11.50316	175.5388	41.61817
17:01:33	15.31	1.83706	1.05	0	4.60	74.25	18.62	4.564916	2.6104	0	11.44054	184.5112	46.2675
17:02:33	15.40	1.793165	1.04	0	4.55	69.95	18.33	4.534562	2.635691	0	11.50481	176.8961	46.35849
17:03:32	15.45	2.347636	1.28	0	4.53	68.29	17.93	5.984057	3.274284	0	11.55843	174.0784	45.70553
17:04:32	15.01	0.7088572	0.24	0	4.83	68.37	16.54	1.673784	0.5628	0	11.41298	161.4298	39.0518
17:05:32	14.52	0.6385592	0.29	0	5.42	82.12	18.97	1.391439	0.622361	0	11.80423	178.9421	41.34336

BORGESS MEDICAL CENTER INCINERATOR TESTING

OUTLET

CONTINUOUS EMISSION MONITORING FOR SEPTEMBER 7, 1991

TIME	O2 (%V,dry)	THC (ppmCH4,wet)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	THC (ppmCH4,d	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
								corrected to 7% oxygen					
17:06:32	14.24	2.55254	1.40	0	5.31	76.73	17.44	5.324911	2.917876	0	11.0688	160.0644	36.37828
17:07:32	14.91	2.354707	5.53	0	4.98	70.61	23.92	5.461051	12.82525	0	11.55922	163.7692	55.47929
17:08:32	15.16	0	9.81	0	4.85	68.79	26.75	0	23.77036	0	11.73676	166.6232	64.79187
17:09:32	15.26	0	11.17	0	4.74	67.05	30.38	0	27.53728	0	11.67335	165.2694	74.86964
17:10:32	15.39	0	11.07	0	4.66	66.83	27.63	0	27.95029	0	11.76609	168.7168	69.74918
17:11:32	15.45	0	10.59	0	4.56	67.37	26.79	0	27.01436	0	11.64268	171.845	68.33932
17:12:32	15.32	0.3831559	7.73	0	5.23	80.72	24.03	0.954982	19.2544	0	13.0387	201.1763	59.88647
17:13:32	13.96	4.038254	2.47	0	5.46	78.29	19.00	8.082497	4.943011	0	10.92375	156.704	38.03627
17:14:32	15.15	3.387103	2.21	0	4.67	73.85	18.08	8.191572	5.348438	0	11.29754	178.6016	43.73472
17:15:32	15.55	4.309862	3.88	0	4.41	72.56	21.70	11.20684	10.08619	0	11.46978	188.6829	56.42894
17:16:31	15.50	1.271583	6.48	0	4.81	73.59	23.02	3.271822	16.66885	0	12.36773	189.3563	59.23963
17:17:31	14.43	1.822148	6.20	0	5.11	71.82	23.31	3.91758	13.33482	0	10.99251	154.4017	50.11145
17:18:31	15.10	0	7.53	0	4.30	68.04	24.37	0	18.05735	0	10.31221	163.0987	58.41824
17:19:31	15.66	0	10.04	0	4.86	77.60	26.05	0	26.63969	0	12.90617	205.9416	69.12113
17:20:31	13.63	0	7.73	0	5.64	78.19	24.01	0	14.78086	0	10.78488	149.5633	45.92936
17:21:31	15.33	1.084396	6.58	0	4.46	65.27	20.74	2.705632	16.42895	0	11.12377	162.8592	51.74438
17:22:31	15.76	3.456123	4.21	0	4.41	64.01	20.16	9.353021	11.39526	0	11.93279	173.2175	54.55429
17:23:31	15.05	2.600343	1.61	0	5.04	65.62	22.10	6.175658	3.817929	0	11.96529	155.8502	52.49035
17:24:31	14.53	2.913364	1.70	0	4.84	64.12	20.25	6.353691	3.696821	0	10.54647	139.8297	44.1693
17:25:31	15.71	3.805834	2.50	0	4.08	62.48	20.56	10.18775	6.695301	0	10.92406	167.2478	55.045
(pre & post	15.16	2.01	5.68	1.70	4.52	70.84	50.05	5.00	12.73	4.34	10.96	169.49	114.46
port change	14.95	1.83	3.86	0.00	4.85	68.71	28.69	4.25	9.16	0.00	11.35	160.99	67.63
averages)													
FINAL AVE.	15.05	1.92	4.77	0.85	4.69	69.77	39.37	4.63	10.95	2.17	11.15	165.24	91.04
CV	0.05	0.87	1.18	1.13	0.13	0.28	1.15	0.88	1.13	1.19	0.06	0.22	1.06

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	--------CORRECTED TO 7% OXYGEN----------				
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
11:32:39	14.49	2.74	2.73	4.94	94.14	6.12	5.95	5.93	NA	204.25	13.27
11:33:39	15.28	3.02	2.31	4.45	103.19	6.40	7.46	5.71	NA	255.28	15.82
11:34:39	15.70	3.04	1.86	4.11	104.58	7.46	8.12	4.97	NA	279.51	19.93
11:35:39	15.84	3.20	2.03	4.11	105.64	9.68	8.80	5.57	NA	290.36	26.61
11:36:39	15.54	3.00	1.30	4.37	98.92	13.01	7.77	3.38	NA	256.53	33.73
11:37:38	14.89	2.63	1.56	4.66	83.91	10.80	6.08	3.61	NA	193.92	24.95
11:38:38	14.21	3.08	1.14	5.68	113.37	7.76	6.41	2.37	NA	235.57	16.13
11:39:38	14.81	2.90	1.64	4.48	93.27	9.34	6.61	3.74	NA	212.87	21.32
11:40:38	15.34	2.89	1.65	4.76	90.62	10.70	7.24	4.13	NA	226.70	26.78
11:41:38	14.83	2.87	1.40	4.66	88.08	8.27	6.57	3.20	NA	201.65	18.93
11:42:38	14.99	3.05	1.74	4.52	97.21	10.87	7.18	4.08	NA	228.60	25.55
11:43:42	14.62	3.44	1.13	5.09	115.96	11.02	7.62	2.50	NA	256.83	24.42
11:44:42	15.26	3.50	1.71	4.57	112.55	9.16	8.64	4.22	NA	277.30	22.58
11:45:42	15.17	3.50	1.59	4.94	108.28	10.54	8.50	3.85	NA	262.77	25.57
11:46:42	14.38	3.35	1.35	4.95	111.26	12.42	7.13	2.87	NA	237.06	26.47
11:47:42	14.06	3.99	0.50	5.90	138.84	11.49	8.11	1.02	NA	282.07	23.35
11:48:42	14.37	3.58	1.87	5.22	109.07	12.79	7.63	3.98	NA	232.29	27.23
11:49:42	14.87	3.36	2.14	4.96	104.34	11.44	7.75	4.93	NA	240.61	26.38
11:50:42	15.09	3.03	2.75	4.81	99.65	15.44	7.24	6.58	NA	238.47	36.94
11:51:42	15.17	2.89	2.25	4.75	98.19	15.57	7.01	5.46	NA	238.21	37.78
11:52:42	14.95	3.25	1.78	4.99	99.25	17.63	7.60	4.15	NA	231.90	41.20
11:53:42	14.69	4.21	2.28	4.90	97.23	18.66	9.42	5.10	NA	217.46	41.74
11:54:42	14.81	8.26	2.34	4.99	104.53	26.04	18.83	5.35	NA	238.40	59.40
11:55:42	14.02	7.48	1.67	5.67	107.40	22.87	15.10	3.38	NA	216.87	46.17
11:56:41	14.40	4.20	1.94	5.06	93.09	16.79	8.97	4.16	NA	198.98	35.88
11:57:41	14.81	4.08	2.01	4.96	83.63	19.77	9.32	4.59	NA	190.78	45.10
11:58:41	14.52	3.76	2.44	4.87	78.46	18.57	8.20	5.31	NA	171.06	40.49

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							---------CORRECTED TO 7% OXYGEN----------				
11:59:41	15.60	3.39	3.40	4.18	71.31	14.31	8.89	8.92	NA	187.10	37.55
12:00:41	15.29	2.68	3.04	4.86	68.04	15.28	6.63	7.53	NA	168.58	37.85
12:01:41	15.12	3.22	3.13	4.34	72.07	16.05	7.75	7.53	NA	173.44	38.62
12:02:41	15.27	6.33	3.10	4.92	84.44	19.92	15.63	7.66	NA	208.56	49.19
12:03:41	15.43	12.60	3.16	4.55	75.84	38.22	32.01	8.02	NA	192.66	97.08
12:04:41	15.40	21.09	3.15	4.62	73.39	76.49	53.30	7.97	NA	185.45	193.28
12:05:41	15.37	23.96	1.78	4.56	80.64	92.32	60.21	4.46	NA	202.64	231.99
12:06:41	15.52	22.79	3.13	4.36	79.96	109.38	58.84	8.09	NA	206.46	282.45
12:07:41	15.71	21.98	2.75	4.27	70.62	128.78	58.81	7.35	NA	188.99	344.62
12:08:41	15.77	20.77	2.62	4.24	68.77	134.30	56.24	7.10	NA	186.20	363.66
12:09:41	15.11	18.42	2.19	5.57	80.49	96.86	44.23	5.27	NA	193.26	232.57
12:10:40	13.93	22.18	2.80	4.82	88.58	209.14	44.26	5.60	NA	176.75	417.31
12:11:40	15.47	31.79	13.04	4.57	89.92	283.50	81.33	33.35	NA	230.02	725.24
12:12:40	15.65	27.39	7.83	4.29	84.53	288.04	72.48	20.72	NA	223.64	762.09
12:13:40	15.85	23.15	4.87	4.27	81.50	240.09	63.67	13.38	NA	224.13	660.22
12:14:40	15.45	20.15	4.85	4.39	77.93	221.72	51.36	12.36	NA	198.66	565.17
12:15:46	15.53	18.32	4.59	4.31	75.48	225.64	47.41	11.89	NA	195.37	584.07
12:16:46	15.44	17.27	3.79	4.76	76.62	182.07	43.98	9.64	NA	195.13	463.64
12:17:46	14.17	16.21	3.26	5.46	81.09	119.81	33.51	6.73	NA	167.58	247.60
12:18:46	15.04	14.91	3.69	4.73	87.00	117.72	35.36	8.75	NA	206.25	279.08
12:19:46	15.58	14.32	3.37	4.23	79.30	115.02	37.40	8.79	NA	207.08	300.35
12:20:46	15.96	13.24	3.28	4.08	77.13	111.17	37.29	9.25	NA	217.21	313.05
12:21:46	15.93	12.03	2.95	4.25	72.22	88.39	33.61	8.23	NA	201.87	247.06
12:22:46	15.04	9.90	2.76	4.64	66.53	65.21	23.47	6.54	NA	157.72	154.61
12:23:46	15.04	10.40	2.77	5.03	78.15	72.05	24.65	6.58	NA	185.24	170.77
12:24:46	15.30	10.53	3.40	3.82	61.31	64.06	26.12	8.43	NA	152.13	158.96
12:25:46	15.71	9.03	3.25	4.43	58.08	47.05	24.20	8.71	NA	155.56	126.02

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							---------CORRECTED TO 7% OXYGEN----------				
12:26:46	15.12	8.08	3.25	4.27	61.90	44.62	19.42	7.81	NA	148.88	107.32
12:27:45	15.72	3.66	5.30	4.31	72.46	22.68	9.83	14.22	NA	194.53	60.89
12:28:45	15.23	2.65	6.10	4.48	77.96	20.45	6.49	14.93	NA	190.96	50.08
12:29:45	15.47	2.81	4.08	4.35	80.69	19.18	7.18	10.43	NA	206.51	49.09
12:30:45	15.63	3.59	3.37	4.43	90.46	18.64	9.47	8.87	NA	238.41	49.11
12:31:45	14.66	4.10	2.77	5.31	99.32	21.77	9.14	6.17	NA	221.31	48.51
12:32:45	15.32	3.69	2.78	4.44	92.07	26.01	9.19	6.91	NA	229.24	64.75
12:33:45	15.61	2.61	2.68	4.28	90.51	28.00	6.85	7.04	NA	237.82	73.56
12:34:45	15.65	3.76	2.43	4.29	92.33	29.88	9.96	6.42	NA	244.38	79.09
12:35:45	15.60	4.58	2.37	4.36	93.86	34.18	12.00	6.20	NA	245.98	89.58
12:36:45	15.12	5.21	2.10	4.69	90.64	34.90	12.53	5.06	NA	218.12	83.98
12:37:45	14.87	4.44	2.08	4.71	89.98	35.83	10.24	4.80	NA	207.46	82.61
12:38:45	15.14	6.06	1.82	4.77	99.24	35.12	14.63	4.39	NA	239.56	84.78
12:39:45	14.37	4.43	1.54	5.35	93.00	29.37	9.42	3.29	NA	197.87	62.49
12:40:44	14.73	6.47	1.97	4.97	86.20	49.14	14.57	4.44	NA	194.08	110.64
12:41:44	14.99	14.60	1.92	4.81	85.62	117.63	34.31	4.51	NA	201.20	276.44
12:42:44	15.02	18.30	1.85	4.77	84.84	185.61	43.30	4.39	NA	200.71	439.13
12:43:44	15.12	18.31	1.95	4.68	85.16	172.69	44.06	4.70	NA	204.88	415.44
12:44:44	15.15	16.05	2.11	4.67	86.46	134.57	38.83	5.09	NA	209.13	325.52
12:45:44	15.16	15.21	1.60	4.63	87.79	165.21	36.83	3.88	NA	212.56	399.99
12:46:44	14.69	16.10	1.78	5.03	85.13	141.84	36.01	3.99	NA	190.43	317.28
12:47:44	15.83	12.27	2.59	3.68	70.35	93.97	33.62	7.11	NA	192.72	257.44
12:48:44	16.06	10.60	2.97	3.96	76.37	79.46	30.47	8.54	NA	219.50	228.38
12:49:44	15.68	10.73	2.33	4.18	78.51	74.09	28.61	6.21	NA	209.22	197.44
12:50:44	15.47	10.32	2.25	4.35	83.21	63.46	26.41	5.75	NA	212.92	162.40
12:51:44	15.26	10.44	2.13	4.51	89.04	55.97	25.72	5.25	NA	219.42	137.93
12:52:44	15.11	9.11	2.26	4.59	83.28	41.22	21.89	5.42	NA	200.02	99.00

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)
12:53:43	15.01	3.87	2.29	4.57	80.86	28.02
12:54:43	15.11	8.27	2.18	4.51	80.26	43.81
12:55:43	15.17	10.96	1.96	4.54	81.31	51.30
12:56:43	15.02	10.65	2.15	4.58	82.79	49.46
12:57:43	15.03	10.42	2.03	4.57	84.93	46.58
12:58:43	15.09	9.88	2.10	4.47	85.55	53.78
12:59:43	15.17	9.94	1.59	4.62	90.95	63.54
13:00:43	14.58	12.37	2.12	4.96	94.21	78.05
13:01:43	14.59	13.25	2.07	4.90	91.92	73.32
13:02:43	14.72	12.12	2.05	4.78	88.29	69.12
13:03:43	14.82	10.76	2.14	4.75	85.22	55.91
13:04:43	14.80	10.32	1.74	4.72	83.57	53.56
13:05:43	14.92	8.50	0.96	4.60	81.55	37.18
13:06:42	15.04	3.14	2.99	4.54	80.36	22.97
13:07:42	15.13	3.17	2.42	4.46	78.56	21.95
13:08:42	15.23	4.21	2.58	4.37	77.67	26.68
13:09:42	15.30	5.53	2.55	4.34	77.56	26.85
13:10:42	15.38	5.61	2.33	4.25	75.93	28.40
13:11:42	15.46	5.90	2.19	4.20	74.68	30.12
13:12:42	15.49	7.05	1.70	4.19	75.30	31.96
13:13:42	15.52	7.05	2.33	4.15	72.88	33.14
13:14:42	15.61	9.49	2.82	4.09	69.22	35.62
13:15:42	15.67	9.21	2.80	4.03	68.31	33.06
13:16:42	15.73	6.28	2.83	3.99	67.77	23.79
13:17:42	15.76	2.48	2.99	3.95	67.06	18.46
13:18:42	15.83	2.01	2.89	3.91	65.44	15.29
13:19:41	15.86	2.26	2.92	3.84	63.98	15.66

---------CORRECTED TO 7% OXYGEN----------

SO2	CO	CO2	NOX	Hcl
(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
9.14	5.41	NA	190.97	66.18
19.83	5.22	NA	192.59	105.11
26.58	4.75	NA	197.13	124.37
25.20	5.09	NA	195.84	116.99
24.67	4.80	NA	201.16	110.32
23.66	5.02	NA	204.81	128.76
24.11	3.86	NA	220.74	154.22
27.22	4.66	NA	207.19	171.65
29.20	4.56	NA	202.55	161.55
27.27	4.61	NA	198.62	155.51
24.60	4.89	NA	194.82	127.82
23.51	3.97	NA	190.45	122.06
19.78	2.22	NA	189.66	86.48
7.44	7.10	NA	190.57	54.48
7.64	5.82	NA	189.14	52.85
10.31	6.32	NA	190.30	65.38
13.72	6.32	NA	192.39	66.61
14.10	5.85	NA	191.05	71.46
15.07	5.59	NA	190.79	76.96
18.13	4.36	NA	193.50	82.14
18.20	6.02	NA	188.21	85.60
24.92	7.40	NA	181.75	93.51
24.47	7.45	NA	181.50	87.83
16.90	7.62	NA	182.27	63.99
6.72	8.09	NA	181.40	49.93
5.52	7.93	NA	179.49	41.94
6.23	8.07	NA	176.55	43.22

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	---------CORRECTED TO 7% OXYGEN----------				
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
13:20:41	15.95	2.64	3.26	3.82	63.32	17.36	7.41	9.16	NA	177.97	48.80
13:21:41	15.54	2.59	3.16	4.54	73.79	32.41	6.71	8.19	NA	191.23	84.01
13:22:41	14.19	2.87	6.07	5.59	83.31	19.93	5.94	12.56	NA	172.55	41.28
13:23:41	14.88	2.73	3.47	4.43	72.14	21.26	6.30	8.02	NA	166.68	49.13
13:24:41	15.79	2.97	3.70	3.96	66.83	20.46	8.09	10.07	NA	181.91	55.69
13:25:41	16.06	2.87	3.63	3.81	63.97	20.96	8.22	10.42	NA	183.59	60.15
13:26:41	16.14	2.66	3.69	3.82	62.78	17.95	7.78	10.79	NA	183.44	52.44
13:27:41	15.48	2.17	2.44	4.36	63.45	19.17	5.57	6.25	NA	162.76	49.16
13:28:41	15.16	1.51	2.49	3.93	60.78	15.09	3.67	6.03	NA	147.12	36.51
13:29:41	15.68	1.25	2.93	4.70	74.30	17.83	3.32	7.80	NA	197.80	47.46
13:30:41	14.40	1.41	2.64	4.83	75.08	15.11	3.02	5.65	NA	160.63	32.32
13:31:41	15.40	1.32	3.50	4.09	69.44	12.16	3.34	8.86	NA	175.58	30.74
13:32:40	15.90	1.20	4.18	3.87	64.43	13.35	3.35	11.62	NA	179.17	37.12
13:33:40	15.80	1.40	3.65	4.28	64.45	15.73	3.82	9.95	NA	175.71	42.87
13:34:40	14.83	1.34	2.51	4.38	61.27	14.91	3.07	5.73	NA	140.25	34.14
13:35:40	15.89	1.31	4.39	3.66	58.87	16.03	3.64	12.17	NA	163.27	44.46
13:36:40	15.59	1.38	2.89	4.19	59.20	15.76	3.60	7.57	NA	154.94	41.24
13:37:40	14.72	1.46	2.40	5.58	74.54	17.66	3.28	5.41	NA	167.66	39.72
13:38:40	13.64	1.27	1.99	5.50	65.64	14.04	2.42	3.81	NA	125.61	26.87
13:39:40	15.17	1.01	2.69	4.50	58.18	12.34	2.46	6.52	NA	141.16	29.95
13:40:40	15.59	0.99	3.57	4.77	63.33	15.05	2.58	9.34	NA	165.72	39.39
13:41:40	15.26	0.77	5.74	4.03	53.57	12.04	1.90	14.14	NA	131.97	29.67
13:42:40	16.00	0.80	3.56	3.94	52.77	12.59	2.26	10.11	NA	149.80	35.74
13:43:40	15.62	0.63	3.04	3.93	54.20	13.09	1.66	8.02	NA	142.74	34.47
13:44:40	14.38	1.06	2.91	5.48	81.67	13.63	2.26	6.20	NA	174.15	29.06
13:45:39	14.69	1.33	3.34	4.60	79.35	12.72	2.98	7.48	NA	177.68	28.48
13:46:39	15.41	1.20	2.49	4.33	72.67	14.15	3.04	6.31	NA	184.01	35.83

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	---------CORRECTED TO 7% OXYGEN----------				
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
13:47:39	15.62	1.10	3.09	4.36	74.40	11.92	2.90	8.14	NA	195.94	31.39
13:48:39	15.04	1.30	3.04	4.82	89.23	13.10	3.09	7.21	NA	211.77	31.08
13:49:39	15.17	1.36	3.26	4.66	88.37	11.51	3.30	7.90	NA	214.35	27.93
13:50:39	15.33	1.74	3.26	4.47	80.86	10.59	4.34	8.15	NA	201.91	26.45
13:51:39	15.53	2.19	3.40	4.28	75.23	14.80	5.68	8.79	NA	194.76	38.31
13:52:39	15.73	3.29	3.39	4.12	72.68	15.27	8.84	9.12	NA	195.45	41.06
13:53:39	15.85	3.26	3.63	4.02	70.00	14.15	8.97	10.00	NA	192.78	38.98
13:54:39	15.90	3.16	3.19	4.23	72.37	18.71	8.77	8.85	NA	201.16	51.99
13:55:39	14.34	2.58	2.52	5.18	87.52	17.09	5.46	5.33	NA	185.34	36.19
13:56:39	15.36	2.73	4.17	4.31	97.56	15.57	6.84	10.46	NA	244.70	39.04
13:57:39	15.69	2.48	5.27	4.15	89.07	15.52	6.63	14.06	NA	237.81	41.45
13:58:39	15.88	2.66	5.14	3.97	76.65	14.25	7.38	14.23	NA	212.34	39.49
13:59:38	16.03	2.43	4.78	4.05	72.54	16.31	6.92	13.63	NA	206.84	46.50
14:00:38	15.10	1.85	3.36	4.50	71.58	14.89	4.44	8.04	NA	171.43	35.66
14:01:38	15.38	0.93	3.41	4.02	67.67	14.10	2.34	8.58	NA	170.50	35.52
14:02:38	15.58	1.26	2.92	4.70	80.04	13.71	3.28	7.63	NA	208.94	35.79
14:03:38	14.47	1.28	4.23	4.46	63.77	14.78	2.77	9.14	NA	137.89	31.95
14:04:38	16.19	0.63	3.46	3.85	55.15	15.32	1.86	10.20	NA	162.80	45.21
14:05:38	15.56	0.62	3.06	4.27	53.23	13.99	1.61	7.96	NA	138.50	36.40
14:06:38	15.56	0.50	3.18	3.70	51.08	14.78	1.30	8.27	NA	133.07	38.50
14:07:38	16.55	0.41	3.46	3.70	48.97	10.22	1.31	11.04	NA	156.35	32.64
14:08:38	15.61	0.31	3.23	3.96	47.31	11.55	0.82	8.47	NA	124.28	30.34
14:09:38	16.34	0.44	3.39	3.50	51.73	11.11	1.34	10.33	NA	157.68	33.86
14:10:38	15.64	0.27	3.05	4.78	52.67	11.58	0.71	8.06	NA	139.08	30.58
14:11:38	15.68	0.42	3.11	3.93	49.22	13.47	1.12	8.28	NA	131.14	35.89
14:12:37	16.47	0.62	2.95	3.49	48.17	11.92	1.94	9.23	NA	151.00	37.38
14:13:37	16.77	0.62	2.95	3.30	47.37	14.15	2.09	9.93	NA	159.29	47.59

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							---------CORRECTED TO 7% OXYGEN----------				
14:14:37	16.91	0.71	2.98	3.23	46.29	10.38	2.47	10.38	NA	161.35	36.17
14:15:37	16.28	0.82	3.05	3.80	46.53	12.59	2.48	9.18	NA	139.95	37.85
14:16:37	16.16	0.74	3.03	3.38	47.89	10.77	2.17	8.89	NA	140.55	31.60
14:17:37	16.18	0.97	4.00	4.39	55.03	12.66	2.87	11.78	NA	162.12	37.30
14:18:37	14.90	0.86	3.93	4.85	49.35	9.12	2.00	9.10	NA	114.30	21.12
14:19:37	15.77	0.66	2.96	4.23	47.66	12.44	1.79	8.01	NA	129.23	33.74
14:20:37	16.13	0.76	2.74	3.89	49.29	10.30	2.20	7.98	NA	143.54	29.98
14:21:37	16.49	0.62	2.63	3.55	48.74	7.99	1.95	8.28	NA	153.64	25.18
14:22:37	16.69	0.66	2.86	3.39	48.31	7.25	2.18	9.45	NA	159.54	23.94
14:23:37	16.66	0.68	2.87	3.69	45.94	13.68	2.24	9.43	NA	150.75	44.90
14:24:37	15.52	0.57	2.83	4.48	55.16	14.17	1.47	7.31	NA	142.46	36.60
15:40:43	16.15	1.46	1.61	4.08	46.41	13.57	4.27	4.71	NA	135.93	39.75
15:41:43	15.51	1.07	1.08	4.18	45.74	14.43	2.76	2.77	NA	117.96	37.21
15:42:43	15.60	1.86	1.08	4.02	44.87	14.97	4.88	2.83	NA	117.68	39.25
15:43:43	15.58	2.28	2.28	4.49	56.02	14.25	5.96	5.96	NA	146.37	37.22
15:44:43	15.10	2.54	8.85	4.20	51.91	12.28	6.07	21.20	NA	124.30	29.40
15:45:43	16.41	1.44	2.98	3.64	44.05	17.96	4.47	9.22	NA	136.35	55.58
15:46:43	16.25	1.83	2.09	3.57	45.45	14.32	5.46	6.24	NA	135.84	42.80
15:47:43	16.17	2.65	2.33	4.31	61.15	15.79	7.78	6.85	NA	179.76	46.43
15:48:43	14.75	4.16	1.66	5.04	89.06	17.56	9.39	3.74	NA	201.14	39.65
15:49:43	14.81	6.38	0.80	4.94	96.59	16.59	14.56	1.83	NA	220.44	37.8

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

							--------CORRECTED TO 7% OXYGEN----------				
TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
15:50:43	14.94	8.89	0.53	4.87	94.10	19.90	20.72	1.23	NA	219.43	46.41
15:51:42	14.98	10.86	0.83	4.76	93.69	26.79	25.47	1.96	NA	219.83	62.85
15:52:42	15.13	11.11	0.71	4.67	91.60	26.58	26.78	1.70	NA	220.73	64.06
15:53:42	15.19	12.30	0.55	4.60	89.93	28.42	29.94	1.35	NA	218.86	69.16
15:54:42	15.31	13.45	0.27	4.49	85.21	29.37	33.43	0.68	NA	211.84	73.01
15:55:42	15.45	12.08	0.63	4.33	80.91	31.26	30.83	1.60	NA	206.48	79.76
15:56:42	15.54	11.61	0.88	4.34	79.89	30.69	30.10	2.28	NA	207.22	79.60
15:57:42	15.54	5.69	0.82	4.28	81.32	22.78	14.76	2.14	NA	210.78	59.05
15:58:42	15.63	3.37	0.38	4.18	76.57	21.06	8.88	0.99	NA	201.95	55.54
15:59:42	15.74	3.47	0.69	4.10	73.38	17.04	9.35	1.86	NA	197.52	45.86
16:00:42	15.81	3.24	0.82	4.02	70.38	19.71	8.84	2.24	NA	192.21	53.82
16:01:42	15.93	3.69	0.69	3.94	69.44	18.11	10.32	1.92	NA	194.09	50.62
16:02:42	15.95	5.99	0.58	3.84	65.73	19.15	16.84	1.64	NA	184.73	53.81
16:03:42	16.16	6.62	1.16	3.68	61.78	17.01	19.43	3.41	NA	181.34	49.93
16:04:41	16.33	5.95	1.37	3.57	57.12	22.41	18.09	4.18	NA	173.70	68.13
16:05:41	16.19	4.06	1.06	3.77	55.09	20.98	11.99	3.12	NA	162.76	61.97
16:06:41	15.84	3.35	0.88	3.79	54.48	19.40	9.19	2.41	NA	149.63	53.29
16:07:41	16.46	2.51	1.45	3.40	52.52	15.94	7.87	4.53	NA	164.42	49.89
16:08:41	16.00	1.77	1.74	4.25	58.87	13.66	5.01	4.95	NA	166.92	38.72
16:09:41	13.95	1.10	3.14	5.72	70.83	16.02	2.21	6.28	NA	141.70	32.05
16:10:41	15.18	1.81	4.09	4.38	65.05	17.11	4.40	9.95	NA	158.07	41.59
16:11:41	15.81	2.75	3.43	4.26	65.55	14.30	7.50	9.37	NA	178.96	39.05
16:12:41	15.93	2.52	2.86	3.99	65.64	12.58	7.05	7.99	NA	183.58	35.18
16:13:41	16.11	1.97	1.72	3.90	66.21	15.67	5.71	5.00	NA	192.02	45.44
16:14:41	16.16	1.55	0.89	3.81	66.80	15.96	4.55	2.60	NA	195.98	46.82
16:15:41	15.86	1.80	0.84	4.18	75.59	16.74	4.95	2.31	NA	208.64	46.22
16:16:41	15.01	3.04	3.90	4.95	80.43	18.86	7.16	9.19	NA	189.66	44.48

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							---------CORRECTED TO 7% OXYGEN----------				
16:17:40	15.54	2.78	4.57	4.14	67.61	13.78	7.21	11.85	NA	175.19	35.70
16:18:40	16.22	2.71	1.94	3.80	66.56	16.85	8.06	5.78	NA	197.77	50.07
16:19:40	16.18	2.95	1.27	4.00	70.10	17.66	8.69	3.72	NA	206.25	51.95
16:20:40	15.72	3.08	1.25	4.04	69.73	15.70	8.25	3.36	NA	186.92	42.08
16:21:40	16.22	2.94	1.02	3.61	70.51	14.06	8.73	3.04	NA	209.63	41.81
16:22:40	16.08	2.93	0.63	3.97	71.63	11.77	8.45	1.83	NA	206.76	33.96
16:23:40	15.94	3.24	0.98	3.95	78.87	14.07	9.07	2.74	NA	221.03	39.43
16:24:40	15.54	3.74	11.54	4.41	72.38	12.26	9.71	29.93	NA	187.76	31.80
16:25:40	16.00	2.84	2.62	3.72	57.96	11.47	8.05	7.43	NA	164.57	32.57
16:26:40	16.47	1.84	0.86	3.72	53.74	16.55	5.78	2.70	NA	168.67	51.96
16:27:40	16.14	2.01	0.47	3.53	53.35	21.88	5.86	1.37	NA	155.64	63.84
16:28:40	16.74	3.71	0.78	3.31	56.02	31.44	12.38	2.61	NA	187.06	105.00
16:29:40	16.61	3.59	0.92	3.52	54.62	34.61	11.65	3.00	NA	177.18	112.26
16:30:39	16.49	2.47	0.44	3.40	65.06	36.94	7.79	1.38	NA	205.22	116.51
16:31:39	15.45	1.65	7.93	5.14	73.80	28.88	4.21	20.24	NA	188.37	73.71
16:32:39	15.38	4.55	3.02	4.27	60.02	40.36	11.46	7.61	NA	151.13	101.64
16:33:39	16.29	16.19	1.12	3.72	53.49	115.81	48.78	3.38	NA	161.16	348.89
16:34:39	16.56	16.91	0.64	3.49	51.35	127.04	54.11	2.04	NA	164.33	406.56
16:35:39	16.73	14.30	0.95	3.44	55.64	139.45	47.68	3.18	NA	185.56	465.12
16:36:39	16.42	12.01	1.07	3.76	57.29	121.96	37.24	3.31	NA	177.65	378.19
16:37:39	16.06	10.11	0.76	3.74	58.84	97.84	29.04	2.19	NA	168.94	280.91
16:38:39	15.68	7.32	20.99	4.76	85.66	73.29	19.50	55.89	NA	228.12	195.19
16:39:39	14.86	2.59	32.90	4.80	94.56	49.50	5.95	75.68	NA	217.56	113.87
16:40:39	15.59	7.57	1.65	4.32	84.54	61.87	19.79	4.32	NA	221.12	161.84
16:41:39	15.83	10.51	0.55	4.10	77.49	69.83	28.83	1.52	NA	212.59	191.57
16:42:39	15.96	6.99	0.90	4.05	71.02	46.80	19.65	2.52	NA	199.70	131.59
16:43:38	15.69	1.46	0.92	4.01	64.44	28.55	3.90	2.46	NA	171.98	76.20

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							---------CORRECTED TO 7% OXYGEN----------				
16:44:38	15.86	1.62	1.13	3.84	65.09	26.24	4.48	3.11	NA	179.58	72.40
16:45:38	16.05	1.90	1.22	4.13	69.59	30.47	5.46	3.49	NA	199.51	87.35
16:46:38	15.00	1.86	0.99	4.92	65.84	20.78	4.37	2.33	NA	155.19	48.98
16:47:38	15.72	1.70	0.99	4.30	63.52	12.62	4.57	2.65	NA	170.28	33.83
16:48:38	16.04	1.63	0.91	4.03	62.72	17.56	4.67	2.59	NA	179.42	50.22
16:49:38	16.26	1.57	0.67	3.76	59.09	19.81	4.72	2.01	NA	177.10	59.37
16:50:38	16.27	1.42	0.65	3.79	56.31	18.46	4.28	1.96	NA	169.05	55.43
16:51:38	16.15	1.39	0.90	3.59	55.85	15.85	4.08	2.64	NA	163.60	46.44
16:52:38	16.30	1.47	1.37	3.91	61.63	17.39	4.45	4.15	NA	186.30	52.58
16:53:38	14.88	1.72	13.77	4.62	77.51	16.56	3.98	31.82	NA	179.08	38.27
16:54:38	16.20	1.81	1.48	3.42	64.04	16.80	5.34	4.37	NA	189.41	49.70
16:55:38	16.79	1.69	1.03	3.07	50.18	9.51	5.73	3.47	NA	169.67	32.17
16:56:38	16.95	1.53	1.09	3.16	45.62	10.08	5.39	3.83	NA	160.47	35.44
16:57:37	16.47	1.63	0.51	3.33	46.18	16.47	5.11	1.60	NA	145.06	51.74
16:58:37	16.39	1.75	0.72	3.30	48.29	12.57	5.39	2.22	NA	148.93	38.76
16:59:37	16.53	1.70	1.60	3.30	46.83	12.73	5.40	5.11	NA	149.14	40.54
17:00:37	15.59	1.88	8.08	4.57	56.06	14.07	4.91	21.15	NA	146.65	36.79
17:01:37	15.58	1.83	2.92	3.76	52.14	14.49	4.78	7.64	NA	136.25	37.87
17:02:37	16.62	1.58	1.42	3.32	47.42	15.34	5.12	4.62	NA	154.13	49.86
17:03:37	17.03	1.65	1.22	3.06	47.30	13.83	5.92	4.39	NA	169.79	49.65
17:04:37	16.87	1.68	1.10	3.40	46.86	11.88	5.79	3.77	NA	161.46	40.92
17:05:37	16.16	1.40	1.11	3.43	45.99	13.16	4.11	3.27	NA	134.79	38.58
17:06:37	16.55	1.51	1.52	3.13	51.13	9.77	4.83	4.86	NA	163.22	31.19
17:07:37	16.01	1.92	2.09	4.84	66.35	13.44	5.45	5.95	NA	188.60	38.20
17:08:37	14.51	1.89	2.54	4.95	61.77	14.78	4.12	5.52	NA	134.42	32.15
17:09:37	15.49	6.95	1.40	4.31	70.76	35.49	17.88	3.61	NA	181.94	91.26
17:10:36	15.98	13.94	1.06	3.85	66.21	79.89	39.34	3.01	NA	186.91	225.53

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	---------CORRECTED TO 7% OXYGEN----------				
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
17:11:36	16.38	15.28	1.49	3.60	63.05	112.82	46.94	4.57	NA	193.71	346.62
17:12:36	16.60	15.39	2.10	3.43	60.55	136.36	49.79	6.79	NA	195.91	441.20
17:13:36	16.22	14.34	1.20	3.86	59.48	127.57	42.63	3.56	NA	176.82	379.23
17:14:36	15.20	14.08	7.33	4.81	72.71	117.94	34.36	17.88	NA	177.42	287.78
17:15:36	15.17	5.09	13.10	4.02	65.99	44.96	12.33	31.75	NA	159.98	109.00
17:16:36	16.23	2.32	1.70	3.94	67.98	42.73	6.89	5.06	NA	202.32	127.16
17:17:36	15.75	3.65	1.04	4.10	70.15	45.30	9.86	2.81	NA	189.22	122.18
17:18:36	15.78	6.47	1.04	3.94	73.14	55.30	17.58	2.82	NA	198.69	150.23
17:19:36	16.30	9.56	1.45	3.57	68.34	70.99	28.90	4.38	NA	206.50	214.50
17:20:36	16.18	8.12	1.37	3.84	64.35	63.35	23.92	4.03	NA	189.57	186.62
17:21:36	16.02	2.70	2.80	4.14	66.54	39.22	7.68	7.96	NA	189.44	111.66
17:22:36	15.62	1.73	10.29	3.81	58.84	24.88	4.54	27.09	NA	154.93	65.52
17:23:35	16.78	1.75	1.89	3.42	50.94	25.03	5.90	6.38	NA	171.75	84.39
17:24:35	16.36	2.59	1.52	3.48	50.35	28.84	7.94	4.67	NA	154.16	88.31
17:25:35	16.81	7.54	1.05	3.15	53.64	44.37	25.58	3.58	NA	182.09	150.63
17:26:35	16.93	3.06	0.96	3.44	50.63	26.61	10.73	3.38	NA	177.48	93.29
17:27:35	15.85	2.52	1.63	3.68	51.42	34.59	6.93	4.49	NA	141.47	95.18
17:28:35	16.72	6.33	1.76	3.41	60.96	53.89	21.06	5.87	NA	202.80	179.26
17:29:35	15.77	7.36	9.39	4.26	71.72	42.68	19.93	25.41	NA	194.18	115.56
17:30:35	16.23	2.45	1.94	3.63	68.07	28.78	7.29	5.77	NA	202.65	85.68
17:31:35	16.56	5.47	1.62	3.49	60.46	31.02	17.53	5.18	NA	193.59	99.31
17:32:35	16.66	9.67	1.51	3.39	57.52	48.52	31.68	4.94	NA	188.41	158.92
17:33:35	16.64	11.14	1.30	3.55	58.96	60.59	36.35	4.23	NA	192.49	197.79
17:34:35	16.44	12.02	1.12	3.55	58.49	65.36	37.43	3.48	NA	182.19	203.57
17:35:35	16.56	9.99	1.17	3.51	63.05	55.63	31.97	3.75	NA	201.81	178.07
17:36:34	15.72	8.70	11.58	4.50	67.70	47.37	23.33	31.09	NA	181.68	127.12
17:37:34	16.01	3.84	3.12	3.73	57.29	33.64	10.93	8.86	NA	162.83	95.60

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 9, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl		CORRECTED TO 7% OXYGEN			
9/09-out	(%V,dry)	(ppmV,DRY)	corrected	(%V,dry)	(ppmV,DRY)	(ppmV,DRY)		SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
17:38:34	16.42	9.40	1.24	3.63	59.75	60.92		29.15	3.86	NA	185.32	188.94
17:39:34	16.50	11.05	1.50	3.49	64.59	66.45		34.87	4.74	NA	203.91	209.80
17:40:34	16.62	11.77	1.24	3.39	67.94	70.40		38.26	4.02	NA	220.79	228.78
17:41:34	16.68	9.59	1.31	3.35	70.05	55.57		31.60	4.32	NA	230.89	183.17
17:42:34	16.75	7.09	1.24	3.28	73.51	45.14		23.75	4.14	NA	246.23	151.18
17:43:34	16.09	4.54	21.09	4.45	91.44	33.94		13.12	60.95	NA	264.29	98.09
17:44:34	15.98	2.16	20.37	3.23	67.75	22.72		6.11	57.51	NA	191.29	64.16
17:45:34	17.20	3.79	1.68	3.11	61.02	38.30		14.24	6.30	NA	229.07	143.79
17:46:34	16.25	9.11	1.55	3.54	55.43	68.48		27.25	4.64	NA	165.76	204.79
(pre % post	15.33	6.08	2.90	4.45	77.43	42.34		15.06	7.40		192.47	105.66
port change	15.99	5.11	2.80	3.93	64.25	35.04		14.76	7.58		182.11	102.50
averages)												
FINAL AVE	15.61	5.67	2.86	4.23	71.85	39.25		14.93	7.48	0.00	188.08	104.33
CV	0.04	0.98	1.12	0.13	0.23	1.15		0.97	1.09		0.17	1.14

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							CORRECTED TO 7% OXYGEN				
12:07:48	16.38	0.00	0.99	3.82	52.04	5.91	0.00	3.04	11.74	159.94	18.17
12:08:48	15.95	0.00	0.62	3.98	55.11	3.31	0.00	1.74	11.17	154.83	9.31
12:09:48	15.91	0.00	0.65	3.93	54.22	4.52	0.00	1.82	10.95	151.14	12.61
12:10:48	15.96	0.00	0.60	3.85	50.60	5.67	0.00	1.70	10.84	142.30	15.95
12:11:47	16.07	0.00	0.51	4.04	46.29	6.25	0.00	1.46	11.62	133.28	18.01
12:12:47	15.03	0.00	0.12	5.10	70.34	7.10	0.00	0.29	12.07	166.63	16.81
12:13:47	15.01	0.00	0.48	4.70	61.74	10.13	0.00	1.13	11.09	145.72	23.90
12:14:47	16.02	0.00	0.92	3.67	57.73	9.21	0.00	2.62	10.46	164.43	26.23
12:15:47	16.49	0.00	0.52	3.96	50.39	6.23	0.00	1.65	12.47	158.89	19.65
12:16:47	15.77	0.00	0.35	4.01	47.82	9.18	0.00	0.96	10.84	129.44	24.84
12:17:47	15.90	0.00	0.28	3.96	48.22	5.31	0.00	0.79	11.02	134.15	14.78
12:18:47	16.18	0.00	0.58	3.69	55.10	7.20	0.00	1.71	10.87	162.36	21.22
12:19:47	15.20	0.00	0.08	5.35	67.32	5.12	0.00	0.18	13.03	164.06	12.47
12:20:47	14.94	0.00	0.49	4.53	69.95	8.79	0.00	1.14	10.56	163.04	20.49
12:21:47	15.85	0.00	0.53	4.17	65.82	6.23	0.00	1.47	11.47	181.19	17.16
12:22:47	16.05	0.00	0.34	3.93	62.86	9.43	0.00	0.98	11.26	180.25	27.04
12:23:47	15.85	0.00	0.76	4.74	67.14	5.59	0.00	2.09	13.07	184.90	15.40
12:24:47	15.19	0.00	0.18	4.51	60.60	6.57	0.00	0.45	10.98	147.55	16.00
12:25:46	16.01	0.00	0.23	4.20	60.03	3.64	0.00	0.65	11.93	170.63	10.34
12:26:46	16.20	0.00	-0.06	3.98	57.92	8.24	0.00	-0.18	11.79	171.32	24.36
12:27:46	15.69	0.00	-0.09	5.23	68.76	6.77	0.00	-0.23	13.96	183.53	18.07
12:28:46	15.24	0.00	0.25	4.54	52.80	7.39	0.00	0.62	11.15	129.76	18.15
12:29:46	16.00	0.00	0.46	4.29	52.50	6.21	0.00	1.30	12.17	148.85	17.61
12:30:46	16.19	0.00	0.21	4.14	53.56	5.71	0.00	0.62	12.19	157.93	16.82
12:31:46	16.21	0.00	0.23	4.08	53.91	6.27	0.00	0.69	12.12	159.93	18.59
12:32:46	16.32	0.00	0.21	3.94	51.92	5.76	0.00	0.65	11.96	157.57	17.47
12:33:46	16.34	0.00	-0.13	4.00	51.04	7.45	0.00	-0.40	12.20	155.42	22.67

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----CORRECTED TO 7% OXYGEN-----				
12:34:46	15.99	0.00	0.39	4.72	59.47	9.69	0.00	1.11	13.38	168.45	27.44
12:35:46	15.14	0.00	0.77	4.78	58.75	7.38	0.00	1.87	11.55	141.78	17.82
12:36:46	15.99	0.00	0.95	4.22	52.48	9.47	0.00	2.69	11.97	148.70	26.84
12:37:46	15.97	0.00	0.79	4.32	49.41	7.56	0.00	2.24	12.19	139.34	21.31
12:38:45	15.96	0.00	0.83	4.28	48.84	8.69	0.00	2.35	12.04	137.52	24.46
12:39:45	15.96	0.00	0.63	4.23	51.20	3.30	0.00	1.76	11.90	144.17	9.30
12:40:45	16.06	0.00	0.54	4.15	55.37	8.28	0.00	1.55	11.91	159.03	23.78
12:41:45	16.06	0.00	0.22	4.70	71.64	7.87	0.00	0.65	13.49	205.73	22.60
12:42:45	14.89	0.00	0.31	5.12	87.52	8.32	0.00	0.73	11.83	202.34	19.24
12:43:45	15.52	0.14	-0.18	4.69	91.84	6.65	0.37	-0.46	12.12	237.23	17.19
12:44:45	15.69	0.07	0.19	4.56	91.44	9.82	0.19	0.51	12.17	244.19	26.22
12:45:45	15.70	0.04	-0.08	4.51	87.65	10.73	0.11	-0.21	12.06	234.38	28.68
12:46:45	15.77	0.06	0.35	4.40	89.08	4.14	0.17	0.94	11.92	241.25	11.21
12:47:45	15.85	0.04	3.01	4.42	85.16	7.37	0.11	8.28	12.19	234.63	20.29
12:48:45	15.36	0.00	1.01	4.97	90.67	8.97	0.00	2.55	12.47	227.59	22.50
12:49:45	14.88	0.01	0.76	4.87	72.51	7.72	0.02	1.76	11.26	167.57	17.85
12:50:45	15.68	0.00	0.18	4.75	64.47	7.49	0.00	0.47	12.64	171.65	19.95
12:51:44	15.12	0.00	3.71	4.74	62.68	11.30	0.00	8.92	11.41	150.84	27.19
12:52:44	15.86	0.00	6.61	4.21	61.55	9.18	0.00	18.23	11.61	169.78	25.31
12:53:44	15.76	0.00	1.49	4.39	58.42	5.88	0.00	4.03	11.88	158.00	15.89
12:54:44	15.63	0.00	0.83	4.22	60.43	4.64	0.00	2.19	11.14	159.40	12.23
12:55:44	15.86	0.00	0.21	4.24	57.12	7.32	0.00	0.59	11.69	157.50	20.18
12:56:44	15.14	0.00	1.03	4.84	59.51	8.21	0.00	2.50	11.68	143.51	19.79
12:57:44	15.77	0.00	1.00	3.88	61.54	15.81	0.00	2.72	10.53	166.82	42.87
12:58:44	16.68	0.00	0.37	3.45	65.64	9.58	0.00	1.23	11.38	216.44	31.59
12:59:44	16.43	0.00	0.66	3.90	59.17	6.48	0.00	2.05	12.13	183.91	20.14
13:00:44	15.88	0.00	1.21	3.77	63.58	8.32	0.00	3.35	10.43	175.95	23.02

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
13:01:44	16.32	0.00	0.92	3.63	64.26	8.17	0.00	2.79	11.00	194.97	24.78
13:02:44	16.41	0.00	0.67	3.69	56.69	6.69	0.00	2.07	11.41	175.31	20.68
13:03:44	15.88	0.00	0.57	3.80	53.76	8.41	0.00	1.58	10.54	148.87	23.29
13:04:43	16.03	0.00	0.43	4.37	68.97	5.83	0.00	1.23	12.46	196.82	16.63
13:05:43	15.23	0.00	0.43	4.81	72.18	8.23	0.00	1.05	11.81	177.08	20.19
13:06:43	15.55	0.00	0.61	4.28	66.58	8.57	0.00	1.58	11.13	173.06	22.26
13:07:43	16.31	0.07	0.37	3.83	62.66	6.48	0.22	1.11	11.59	189.85	19.64
13:08:43	16.58	0.00	0.10	3.59	58.81	6.10	0.00	0.31	11.56	189.34	19.63
13:09:43	16.83	0.00	0.39	3.38	46.52	9.02	0.00	1.33	11.55	158.71	30.76
13:10:43	16.36	0.00	0.11	3.75	43.61	9.21	0.00	0.34	11.49	133.52	28.18
13:11:43	15.61	0.00	0.06	4.46	55.41	6.46	0.00	0.17	11.72	145.52	16.98
13:12:43	16.12	0.00	0.78	3.83	50.38	10.59	0.00	2.28	11.16	146.63	30.83
13:13:43	15.92	0.00	1.04	3.99	49.10	9.91	0.00	2.91	11.14	137.03	27.66
13:14:43	15.73	0.00	0.87	4.64	60.93	7.97	0.00	2.35	12.46	163.77	21.41
13:15:43	15.08	0.32	0.43	4.84	68.19	7.82	0.76	1.03	11.57	162.92	18.69
13:16:43	15.44	0.77	0.15	4.63	91.13	6.17	1.97	0.39	11.80	232.12	15.73
13:17:42	15.58	0.80	0.08	4.53	87.94	10.69	2.10	0.22	11.82	229.65	27.90
13:18:42	14.98	1.05	-0.59	5.50	99.80	5.51	2.46	-1.39	12.91	234.47	12.95
13:19:42	15.21	0.95	-0.02	4.63	83.10	7.83	2.32	-0.05	11.30	202.92	19.13
13:20:42	15.80	0.66	-0.22	4.38	78.89	6.92	1.80	-0.61	11.95	214.98	18.87
13:21:42	15.91	0.31	0.40	4.38	72.38	7.05	0.86	1.12	12.20	201.61	19.64
13:22:42	15.52	0.27	0.05	4.47	67.58	10.93	0.69	0.14	11.55	174.63	28.25
13:23:42	16.00	0.11	0.28	4.04	65.07	1.73	0.31	0.79	11.46	184.42	4.91
13:24:42	15.92	0.00	-0.01	4.39	61.08	8.39	0.00	-0.02	12.25	170.50	23.42
13:25:42	15.68	0.00	0.27	4.26	65.58	6.97	0.00	0.72	11.34	174.57	18.56
13:26:42	15.36	0.00	-0.28	5.44	73.88	6.93	0.00	-0.71	13.66	185.36	17.39
13:27:42	14.89	0.00	-0.17	5.04	66.37	7.32	0.00	-0.40	11.67	153.60	16.94

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
13:28:42	15.64	0.00	-0.13	4.51	66.04	6.12	0.00	-0.35	11.92	174.37	16.17
13:29:42	15.98	0.00	0.06	4.24	62.20	9.62	0.00	0.17	12.00	175.90	27.21
13:30:41	16.05	0.00	0.14	4.33	57.12	7.19	0.00	0.41	12.41	163.71	20.62
13:31:41	15.53	0.00	0.08	4.35	54.58	6.95	0.00	0.20	11.24	141.20	17.98
13:32:41	16.18	0.00	0.30	3.82	54.62	9.96	0.00	0.87	11.24	160.81	29.33
13:33:41	15.92	0.00	0.03	5.07	61.87	8.22	0.00	0.10	14.14	172.76	22.95
13:34:41	14.37	0.00	-0.21	5.29	64.69	9.93	0.00	-0.44	11.26	137.65	21.12
13:35:41	15.65	0.00	0.13	4.37	62.59	5.69	0.00	0.34	11.56	165.70	15.07
13:36:41	16.23	0.00	0.33	3.99	59.81	7.86	0.00	0.99	11.87	178.11	23.41
13:37:41	16.30	0.00	0.47	4.12	56.43	4.35	0.00	1.43	12.44	170.36	13.13
13:38:41	15.48	0.00	0.27	4.53	56.02	10.86	0.00	0.70	11.63	143.78	27.87
13:39:41	15.77	0.00	0.50	3.89	56.36	6.99	0.00	1.36	10.53	152.65	18.94
13:40:41	16.49	0.00	0.54	4.34	62.74	10.74	0.00	1.69	13.66	197.59	33.82
13:41:41	14.45	0.00	1.68	5.20	58.87	6.68	0.00	3.63	11.21	126.82	14.39
13:42:41	16.26	0.00	0.94	3.66	52.67	8.67	0.00	2.81	10.97	157.87	25.97
13:43:40	16.53	0.00	0.41	3.82	46.65	6.71	0.00	1.29	12.14	148.42	21.35
13:44:40	16.24	0.00	0.52	3.85	45.98	9.59	0.00	1.54	11.47	137.09	28.59
13:45:40	16.52	0.00	0.52	3.44	47.40	6.32	0.00	1.65	10.90	150.38	20.03
13:46:40	16.85	0.00	0.37	3.60	46.08	7.95	0.00	1.28	12.37	158.26	27.30
13:47:40	15.92	0.00	0.42	4.09	47.82	6.68	0.00	1.17	11.41	133.54	18.65
13:48:40	15.77	0.00	0.33	4.64	60.15	5.51	0.00	0.89	12.58	163.01	14.94
13:49:40	15.75	0.00	0.49	4.29	52.88	8.59	0.00	1.31	11.58	142.65	23.17
13:50:40	16.13	0.00	0.41	4.08	48.50	10.59	0.00	1.18	11.88	141.41	30.86
13:51:40	16.25	0.00	0.44	3.85	45.07	9.01	0.00	1.32	11.53	134.85	26.95
13:52:40	16.47	0.00	0.40	3.69	42.11	4.47	0.00	1.24	11.57	132.04	14.03
13:53:40	16.59	0.00	0.47	3.57	41.18	5.89	0.00	1.51	11.52	132.84	18.99
13:54:40	16.73	0.00	0.29	3.48	41.69	5.49	0.00	0.98	11.60	139.02	18.29

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
13:55:40	15.87	0.00	0.39	5.12	55.51	5.67	0.00	1.08	14.14	153.48	15.67
13:56:39	15.02	0.00	0.66	3.98	46.44	8.87	0.00	1.56	9.42	109.81	20.96
13:57:39	16.85	0.00	0.67	3.53	43.97	9.95	0.00	2.29	12.14	151.04	34.18
13:58:39	16.13	0.00	0.44	4.14	40.14	7.44	0.00	1.29	12.07	116.96	21.68
13:59:39	16.18	0.00	0.54	3.51	39.71	8.65	0.00	1.59	10.33	117.01	25.50
14:00:39	16.83	0.00	0.50	3.69	42.68	7.82	0.00	1.70	12.59	145.68	26.71
14:01:39	15.97	0.00	0.63	4.00	39.94	8.62	0.00	1.78	11.28	112.62	24.30
14:02:39	15.93	0.00	1.23	4.48	50.63	11.53	0.00	3.44	12.53	141.64	32.26
14:03:39	15.78	0.00	1.90	3.99	45.24	7.04	0.00	5.15	10.84	122.76	19.11
14:04:39	15.96	0.00	1.14	4.09	42.73	8.13	0.00	3.20	11.50	120.19	22.87
14:05:39	15.95	0.00	0.95	3.77	43.79	8.99	0.00	2.67	10.59	122.84	25.21
14:06:39	16.50	0.00	0.88	3.55	46.45	7.93	0.00	2.77	11.22	146.80	25.07
14:07:39	16.23	0.00	0.58	3.82	43.82	6.09	0.00	1.72	11.36	130.35	18.11
		0.00					0.00	0.00	0.00	0.00	0.00
		0.00					0.00	0.00	0.00	0.00	0.00
15:16:46	15.54	4.72	0.30	4.41	64.44	13.97	12.25	0.77	11.44	167.17	36.25
15:17:46	15.79	4.34	1.21	4.25	61.50	19.12	11.82	3.30	11.57	167.31	52.02
15:18:46	15.92	2.15	0.85	4.20	58.74	14.99	6.01	2.37	11.71	163.88	41.81
15:19:46	15.17	1.58	0.16	5.32	76.32	12.24	3.82	0.39	12.90	184.99	29.67
15:20:46	14.26	1.03	0.75	5.09	80.17	15.27	2.15	1.57	10.65	167.77	31.95
15:21:46	15.65	0.52	0.20	4.40	69.24	14.82	1.37	0.52	11.65	183.37	39.26
15:22:46	15.58	0.37	0.07	4.35	62.66	13.19	0.97	0.20	11.36	163.64	34.46
15:23:46	15.74	0.43	0.28	4.18	61.47	13.57	1.15	0.76	11.26	165.66	36.58
15:24:46	15.49	0.15	0.13	4.43	60.25	14.46	0.39	0.32	11.39	154.72	37.12
15:25:46	15.35	0.00	0.26	4.10	52.80	13.23	0.00	0.65	10.27	132.27	33.13
15:26:45	16.19	0.00	0.85	3.93	52.46	12.43	0.00	2.49	11.60	154.81	36.69
15:27:45	14.63	0.00	1.50	5.93	58.10	11.42	0.00	3.34	13.15	128.87	25.33

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							CORRECTED TO 7% OXYGEN				
15:28:45	14.72	0.00	0.70	4.74	58.19	15.07	0.00	1.58	10.65	130.81	33.88
15:29:45	15.87	0.00	0.44	4.22	50.17	8.09	0.00	1.22	11.65	138.64	22.36
15:30:45	16.23	0.00	0.61	3.93	48.42	12.35	0.00	1.81	11.72	144.23	36.78
15:31:45	16.08	0.00	0.57	3.96	51.04	14.60	0.00	1.65	11.43	147.08	42.08
15:32:45	16.13	0.00	0.91	3.74	49.31	10.13	0.00	2.64	10.90	143.75	29.55
15:33:45	16.45	0.00	0.68	3.51	49.69	7.13	0.00	2.14	10.96	155.16	22.26
15:34:45	15.72	0.39	0.61	5.21	57.44	9.66	1.05	1.63	13.98	154.09	25.91
15:35:45	14.54	0.26	0.80	4.96	69.85	11.97	0.56	1.74	10.84	152.54	26.15
15:36:45	15.72	0.09	0.34	4.29	66.46	10.61	0.23	0.90	11.50	178.39	28.48
15:37:45	16.19	0.00	0.84	3.92	58.60	8.20	0.00	2.47	11.57	172.81	24.18
15:38:45	16.04	0.00	0.38	4.13	52.86	11.24	0.00	1.08	11.82	151.12	32.14
15:39:44	15.90	0.00	0.53	4.01	48.99	12.44	0.00	1.48	11.12	136.06	34.56
15:40:44	16.15	0.00	0.52	3.58	42.32	9.98	0.00	1.51	10.48	123.74	29.18
15:41:44	15.96	0.00	0.46	4.62	50.68	12.70	0.00	1.29	12.99	142.49	35.70
15:42:44	15.13	0.00	0.54	4.71	59.97	8.87	0.00	1.31	11.34	144.46	21.36
15:43:44	15.46	0.00	0.66	4.42	61.04	10.95	0.00	1.69	11.30	156.07	28.00
15:44:44	15.64	0.00	0.38	4.26	57.02	11.79	0.00	0.99	11.26	150.74	31.16
15:45:44	15.80	0.00	0.95	4.04	53.09	9.12	0.00	2.58	10.99	144.58	24.85
15:46:44	15.99	0.00	1.16	3.87	50.72	10.92	0.00	3.28	10.96	143.48	30.88
15:47:44	16.20	0.00	1.06	3.58	43.19	6.53	0.00	3.13	10.58	127.72	19.31
15:48:44	16.56	0.00	0.73	3.93	48.47	8.75	0.00	2.32	12.59	155.21	28.03
15:49:44	14.32	0.00	0.32	5.55	67.10	6.78	0.00	0.67	11.72	141.73	14.32
15:50:44	15.43	0.00	0.91	3.89	64.59	7.23	0.00	2.31	9.88	164.05	18.37
15:51:44	16.82	0.00	0.63	3.37	55.44	9.69	0.00	2.16	11.48	188.87	33.00
15:52:43	16.67	0.00	0.63	3.54	44.60	5.36	0.00	2.07	11.65	146.71	17.63
15:53:43	16.52	0.00	0.58	3.47	40.12	8.98	0.00	1.83	11.01	127.23	28.47
15:54:43	16.63	0.00	0.41	3.40	37.90	3.03	0.00	1.32	11.07	123.32	9.87

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
15:55:43	16.67	0.00	0.85	3.31	39.69	6.80	0.00	2.78	10.85	130.31	22.33
15:56:43	16.62	0.00	0.74	4.24	45.44	5.32	0.00	2.41	13.79	147.74	17.31
15:57:43	14.66	0.00	0.68	5.25	52.95	8.58	0.00	1.53	11.70	118.02	19.12
15:58:43	15.93	0.00	0.44	4.02	59.88	6.21	0.00	1.24	11.23	167.42	17.37
15:59:43	16.49	0.08	0.27	3.74	57.92	6.10	0.26	0.85	11.79	182.36	19.22
16:00:43	16.66	0.00	0.01	3.58	54.79	8.67	0.00	0.02	11.74	179.47	28.39
16:01:43	16.67	0.02	0.06	3.59	43.44	4.83	0.07	0.19	11.79	142.66	15.85
16:02:43	16.54	0.21	0.23	3.43	45.96	5.05	0.67	0.73	10.95	146.62	16.11
16:03:43	17.06	0.36	0.13	3.45	51.45	6.71	1.29	0.45	12.47	186.19	24.29
16:04:43	15.56	0.52	1.13	5.04	54.48	6.62	1.35	2.93	13.10	141.74	17.23
16:05:42	15.66	0.30	0.56	4.22	55.61	4.21	0.80	1.50	11.19	147.49	11.16
16:06:42	16.41	0.11	0.34	3.66	54.13	7.36	0.33	1.06	11.34	167.51	22.78
16:07:42	16.74	0.00	0.15	3.47	52.56	10.00	0.00	0.49	11.60	175.51	33.39
16:08:42	16.45	0.00	-0.06	4.03	52.87	5.13	0.00	-0.20	12.60	165.26	16.03
16:09:42	16.18	0.00	-0.00	3.60	52.24	3.36	0.00	-0.00	10.60	153.71	9.89
16:10:42	16.81	0.00	0.02	3.57	57.25	8.77	0.00	0.08	12.14	194.82	29.82
16:11:42	16.05	0.15	0.49	4.76	58.27	7.00	0.43	1.41	13.63	166.90	20.04
16:12:42	14.78	0.12	1.17	4.66	52.95	10.34	0.27	2.66	10.59	120.29	23.48
16:13:42	16.47	0.00	0.59	3.68	49.01	6.45	0.00	1.84	11.54	153.79	20.23
16:14:42	16.81	0.00	0.72	3.63	46.34	9.69	0.00	2.46	12.32	157.35	32.89
16:15:42	16.31	0.00	0.25	3.85	46.76	6.27	0.00	0.76	11.67	141.66	19.00
16:16:42	16.24	0.00	0.43	3.76	47.96	5.98	0.00	1.27	11.22	142.97	17.81
16:17:42	16.37	0.00	0.42	3.66	48.34	6.24	0.00	1.30	11.23	148.19	19.13
16:18:42	16.40	0.00	0.46	3.91	47.68	8.84	0.00	1.43	12.08	147.26	27.31
16:19:41	14.96	0.00	4.50	5.62	53.20	3.88	0.00	10.52	13.14	124.45	9.07
16:20:41	14.90	0.00	1.57	4.91	60.21	8.83	0.00	3.63	11.37	139.38	20.45
16:21:41	15.82	0.00	0.21	4.27	58.09	6.04	0.00	0.58	11.69	158.96	16.53

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							CORRECTED TO 7% OXYGEN				
16:22:41	16.18	0.00	-0.04	4.06	55.50	3.20	0.00	-0.11	11.95	163.29	9.42
16:23:41	16.09	0.00	0.13	4.27	53.01	8.20	0.00	0.38	12.33	153.08	23.67
16:24:41	15.90	0.00	0.15	4.06	48.73	7.23	0.00	0.41	11.29	135.53	20.11
16:25:41	16.14	0.00	0.29	3.95	47.47	5.15	0.00	0.83	11.54	138.75	15.06
16:26:41	15.48	0.00	2.63	5.32	58.22	4.57	0.00	6.73	13.64	149.31	11.72
16:27:41	14.66	0.00	1.85	4.90	56.55	6.47	0.00	4.12	10.92	125.95	14.40
16:28:41	15.85	0.00	0.18	4.25	50.98	8.88	0.00	0.51	11.70	140.31	24.45
16:29:41	16.27	0.00	-0.23	3.92	47.61	5.36	0.00	-0.68	11.76	142.83	16.08
16:30:41	16.28	0.00	0.50	4.02	42.68	2.60	0.00	1.51	12.10	128.42	7.83
16:31:41	16.07	0.00	-0.07	3.97	41.67	8.24	0.00	-0.19	11.42	119.98	23.72
16:32:40	16.17	0.00	0.25	3.90	40.37	3.07	0.00	0.74	11.46	118.52	9.01
16:33:40	16.18	0.00	0.34	4.12	39.87	4.79	0.00	0.99	12.15	117.51	14.13
16:34:40	15.23	0.00	0.14	4.83	47.52	4.90	0.00	0.35	11.84	116.40	12.00
16:35:40	15.84	0.00	0.51	3.88	45.84	4.31	0.00	1.41	10.66	125.98	11.85
16:36:40	16.56	0.00	0.39	3.84	46.14	4.04	0.00	1.26	12.29	147.73	12.92
16:37:40	16.03	0.00	0.33	4.04	45.62	8.45	0.00	0.94	11.54	130.27	24.13
16:38:40	16.15	0.00	0.28	3.68	41.93	6.10	0.00	0.81	10.76	122.68	17.83
16:39:40	16.82	0.00	0.31	3.53	38.72	6.08	0.00	1.06	12.01	131.78	20.68
16:40:40	16.17	0.00	0.30	4.50	49.71	3.84	0.00	0.89	13.24	146.10	11.30
16:41:40	15.05	0.00	0.32	4.52	60.81	6.17	0.00	0.76	10.74	144.57	14.67
16:42:40	16.58	0.00	0.41	3.58	52.27	3.79	0.00	1.33	11.53	168.34	12.21
16:43:40	16.68	0.00	0.30	3.61	40.71	7.71	0.00	0.98	11.87	133.94	25.37
16:44:40	16.53	0.00	0.46	3.57	36.86	6.68	0.00	1.48	11.35	117.11	21.21
16:45:39	16.59	0.00	0.42	3.55	36.21	6.51	0.00	1.36	11.45	116.86	21.02
16:46:39	16.58	0.00	0.60	3.43	36.40	5.71	0.00	1.93	11.04	117.08	18.35
16:47:39	16.81	0.00	0.26	3.67	40.01	7.04	0.00	0.88	12.48	135.93	23.92
16:48:39	15.52	0.00	0.11	5.14	54.82	6.15	0.00	0.28	13.27	141.57	15.88

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
16:49:39	14.82	0.00	-0.01	4.85	71.62	7.69	0.00	-0.03	11.10	163.75	17.57
16:50:39	16.16	0.00	0.55	3.91	65.30	5.93	0.00	1.60	11.45	191.33	17.37
16:51:39	16.57	0.00	0.81	3.74	66.66	5.08	0.00	2.60	12.02	214.13	16.31
16:52:39	16.43	0.00	0.67	3.59	61.34	6.08	0.00	2.08	11.18	190.93	18.92
16:53:39	16.59	0.00	0.68	3.47	56.14	8.20	0.00	2.18	11.20	181.06	26.46
16:54:39	16.68	0.00	0.69	3.37	51.38	7.22	0.00	2.27	11.11	169.26	23.78
16:57:39	16.28	0.00	0.93	3.32	33.06	8.50	0.00	2.81	9.98	99.52	25.59
16:58:38	15.86	0.00	0.77	4.14	52.86	10.73	0.00	2.13	11.43	145.84	29.61
16:59:38	15.86	0.00	0.95	3.46	36.39	4.90	0.00	2.61	9.54	100.32	13.51
17:00:38	16.30	0.00	1.38	3.68	40.53	5.11	0.00	4.17	11.10	122.42	15.43
17:01:38	15.19	0.00	0.45	4.82	48.86	5.72	0.00	1.09	11.74	119.05	13.93
17:02:38	15.11	0.00	1.10	3.83	42.17	6.08	0.00	2.64	9.21	101.26	14.61
17:03:38	16.43	0.00	1.31	3.56	46.23	7.94	0.00	4.06	11.06	143.64	24.68
17:04:38	16.09	0.00	1.12	3.82	51.67	6.92	0.00	3.23	11.04	149.31	19.99
17:05:38	15.94	0.00	1.03	3.75	47.51	8.54	0.00	2.89	10.49	133.06	23.90
17:06:38	16.10	0.00	1.02	3.58	40.68	3.46	0.00	2.96	10.38	117.82	10.03
17:07:38	16.24	0.00	1.23	3.49	39.21	6.74	0.00	3.67	10.41	116.97	20.11
17:08:38	15.61	0.00	1.09	4.89	89.69	5.94	0.00	2.86	12.84	235.69	15.61
17:09:38	14.45	0.00	0.44	5.05	83.59	6.66	0.00	0.94	10.88	180.08	14.34
17:10:38	15.10	0.46	0.49	4.86	67.16	15.18	1.11	1.18	11.65	160.87	36.35
17:11:37	15.36	8.55	0.36	4.78	78.40	28.75	21.44	0.90	11.98	196.59	72.09
17:12:37	15.47	14.17	0.20	4.61	83.14	64.98	36.26	0.51	11.79	212.68	166.21
17:13:37	15.59	16.31	0.17	4.48	81.02	100.04	42.68	0.45	11.72	212.01	261.77
17:14:37	15.70	17.93	0.20	4.40	79.00	140.55	47.97	0.55	11.78	211.35	375.99
17:15:37	15.63	15.11	0.58	4.49	72.86	80.81	39.86	1.54	11.85	192.18	213.16
17:16:37	15.37	11.07	0.70	4.57	73.60	83.44	27.82	1.76	11.48	185.03	209.77

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 10, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
(pre % post	15.87	0.05	0.55	4.25	59.40	7.59	0.12	1.53	11.74	163.83	21.13
port change	15.93	0.85	0.59	4.13	53.88	11.85	2.22	1.63	11.55	150.79	32.43
averages)											
FINAL AVE	15.90	0.44	0.57	4.19	56.66	9.70	1.15	1.57	11.55	156.06	26.51
CV	0.04	5.07	1.18	0.13	0.22	1.36	5.09	1.13	0.12	0.20	1.30

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----CORRECTED TO 7% OXYGEN----				
11:15:29	16.17	0.52	2.02	0.97	64.59	12.12	1.53	5.94	2.85	189.73	35.60
11:16:29	15.41	1.52	2.23	4.62	73.94	11.70	3.85	5.64	11.70	187.16	29.62
11:17:29	15.96	1.69	1.63	3.69	72.38	11.69	4.75	4.59	10.38	203.57	32.87
11:18:29	16.66	1.65	1.51	3.69	63.35	10.23	5.42	4.94	12.11	207.65	33.55
11:19:29	16.01	1.53	1.51	4.11	62.23	11.99	4.35	4.30	11.68	176.91	34.09
11:20:28	15.72	1.57	1.50	3.82	57.99	7.96	4.21	4.04	10.24	155.60	21.36
11:21:28	16.36	1.44	1.86	3.67	63.75	11.78	4.42	5.69	11.25	195.40	36.11
11:22:28	16.56	1.58	2.16	3.40	57.44	11.94	5.06	6.91	10.89	183.98	38.26
11:23:28	15.81	1.31	1.97	4.18	59.91	8.07	3.58	5.38	11.41	163.61	22.04
11:24:28	14.50	0.69	1.46	2.71	68.40	13.17	1.50	3.18	5.88	148.47	28.59
11:48:35	14.95	2.32	1.41	4.83	94.62	12.32	5.43	3.31	11.28	221.21	28.81
11:48:45	15.12	1.89	1.75	4.78	93.10	12.96	4.54	4.20	11.51	224.03	31.20
11:49:45	15.24	1.84	0.63	4.94	86.88	12.33	4.52	1.54	12.14	213.26	30.27
11:50:45	14.66	1.75	0.00	4.96	76.49	14.75	3.89	0.00	11.05	170.50	32.87
11:51:45	15.18	1.63	2.25	4.65	71.13	11.39	3.95	5.47	11.30	172.88	27.69
11:52:45	15.47	1.56	2.16	4.62	69.20	15.49	4.00	5.52	11.82	177.16	39.66
11:53:45	15.04	1.55	0.13	4.73	68.55	10.03	3.67	0.32	11.21	162.53	23.77
11:54:45	14.91	1.87	0.00	5.27	80.48	13.79	4.33	0.00	12.24	186.89	32.03
11:55:44	14.41	1.44	0.00	5.14	74.20	13.44	3.08	0.00	11.02	158.97	28.79
11:56:44	15.01	1.63	0.00	4.77	70.62	13.94	3.84	0.00	11.26	166.69	32.90
11:57:44	15.33	1.33	0.00	4.52	64.25	13.82	3.33	0.00	11.27	160.28	34.48
11:58:44	15.16	1.24	0.00	4.75	65.12	12.17	3.00	0.00	11.49	157.70	29.48
11:59:44	14.91	1.31	0.00	4.45	62.14	14.86	3.05	0.00	10.33	144.13	34.48
12:00:44	15.85	1.18	0.00	3.91	61.88	14.65	3.24	0.00	10.77	170.38	40.35
12:01:44	15.96	1.39	0.00	4.12	64.34	12.61	3.90	0.00	11.62	181.18	35.52
12:02:44	15.05	1.12	0.00	4.72	56.21	12.77	2.65	0.00	11.22	133.53	30.33
12:03:44	15.86	1.13	0.00	3.92	53.73	13.97	3.11	0.00	10.80	148.24	38.55

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
12:04:44	16.19	1.05	0.00	3.80	49.21	14.46	3.09	0.00	11.20	145.08	42.62
12:05:44	16.13	1.47	0.00	3.82	52.00	18.54	4.27	0.00	11.13	151.42	53.98
12:06:44	16.15	1.54	0.00	3.69	56.58	15.57	4.51	0.00	10.80	165.73	45.61
12:07:44	16.70	2.02	0.00	3.47	61.55	16.75	6.68	0.00	11.49	203.64	55.41
12:08:43	15.99	1.70	0.00	4.19	66.05	14.07	4.81	0.00	11.86	186.93	39.81
12:09:43	14.83	1.48	0.00	5.14	62.39	14.72	3.38	0.00	11.76	142.86	33.71
12:10:43	15.99	1.13	0.00	3.63	49.19	11.96	3.19	0.00	10.26	139.23	33.85
12:11:43	16.36	0.98	0.00	4.02	51.93	14.98	3.01	0.00	12.30	158.88	45.84
12:12:43	15.59	0.93	0.00	3.96	46.04	17.29	2.45	0.00	10.38	120.55	45.28
12:13:43	16.28	0.92	0.00	3.57	44.38	14.14	2.78	0.00	10.73	133.48	42.53
12:14:43	16.41	0.97	0.00	3.93	47.45	12.97	3.02	0.00	12.17	147.01	40.18
12:15:43	14.68	1.01	0.00	5.55	53.16	12.10	2.25	0.00	12.41	118.84	27.04
12:16:43	15.88	1.09	0.00	3.76	47.77	13.25	3.02	0.00	10.40	132.26	36.69
12:17:43	16.91	0.97	0.00	3.37	41.36	12.64	3.40	0.00	11.76	144.20	44.07
12:18:43	16.37	0.90	0.00	4.05	46.04	10.54	2.77	0.00	12.43	141.33	32.36
12:19:43	15.54	0.97	0.00	3.98	46.11	12.65	2.51	0.00	10.33	119.66	32.82
12:20:43	16.61	0.83	0.00	3.22	38.32	10.21	2.68	0.00	10.43	124.07	33.07
12:21:42	16.57	0.95	0.00	3.91	49.09	12.84	3.04	0.00	12.53	157.46	41.18
12:22:42	14.71	1.13	0.00	5.42	59.57	10.55	2.53	0.00	12.15	133.67	23.67
12:23:42	14.90	1.27	0.00	4.46	62.94	11.21	2.95	0.00	10.33	145.91	25.98
12:24:42	16.21	1.06	0.00	3.86	61.51	9.48	3.15	0.00	11.42	182.15	28.08
12:25:42	16.41	1.19	0.00	3.76	60.82	11.18	3.69	0.00	11.65	188.17	34.59
12:26:42	16.45	1.06	0.00	3.64	58.37	8.61	3.30	0.00	11.37	182.23	26.89
12:27:42	16.60	1.16	0.00	3.61	57.62	10.40	3.74	0.00	11.67	186.21	33.61
12:28:42	15.72	0.99	0.00	4.38	58.08	11.14	2.66	0.00	11.77	155.93	29.90
12:29:42	14.92	1.15	0.00	4.89	65.84	10.66	2.68	0.00	11.36	153.02	24.78
12:30:42	16.00	1.31	0.00	3.75	63.41	11.75	3.70	0.00	10.63	179.79	33.31

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
12:31:42	16.63	1.49	0.00	3.45	58.29	13.28	4.85	0.00	11.23	189.77	43.23
12:32:42	16.70	4.01	0.00	3.49	56.26	14.06	13.28	0.00	11.56	186.23	46.54
12:33:42	15.92	3.67	0.00	4.14	53.53	15.52	10.24	0.00	11.57	149.51	43.36
12:34:41	16.11	7.33	0.00	3.41	51.10	17.82	21.29	0.00	9.89	148.32	51.72
12:35:41	16.71	3.75	0.00	4.28	61.03	13.33	12.42	0.00	14.19	202.22	44.18
12:36:41	14.43	2.19	0.00	4.85	66.97	14.42	4.71	0.00	10.41	143.82	30.97
12:37:41	16.30	1.62	0.04	3.53	57.06	15.04	4.90	0.13	10.67	172.31	45.41
12:38:41	16.87	1.33	0.17	3.37	50.86	16.00	4.60	0.58	11.63	175.51	55.22
12:39:41	16.23	1.30	0.00	3.95	53.72	14.19	3.86	0.00	11.77	159.92	42.23
12:40:41	15.76	1.24	0.00	3.62	49.13	15.60	3.36	0.00	9.79	132.78	42.16
12:41:41	16.67	1.10	0.00	3.28	45.46	11.70	3.62	0.00	10.78	149.49	38.47
12:42:41	16.64	1.20	0.00	3.30	47.10	10.21	3.93	0.00	10.77	153.70	33.31
12:43:41	15.74	1.24	0.00	4.84	56.28	13.14	3.34	0.00	13.03	151.70	35.43
12:44:41	15.46	1.11	0.00	3.66	40.59	16.25	2.84	0.00	9.37	103.78	41.55
12:45:41	16.97	0.95	0.00	3.27	38.40	14.66	3.35	0.00	11.57	135.88	51.86
12:46:41	16.30	1.17	0.00	3.86	46.74	13.31	3.52	0.00	11.65	141.23	40.21
12:47:40	15.78	1.20	0.00	3.75	44.29	12.52	3.26	0.00	10.18	120.29	34.01
12:48:40	16.41	0.97	0.00	3.27	37.94	13.33	3.01	0.00	10.11	117.33	41.21
12:49:40	16.67	1.06	0.00	3.41	40.93	12.08	3.49	0.00	11.20	134.59	39.72
12:50:40	15.37	1.17	0.00	4.92	49.89	11.47	2.93	0.00	12.36	125.28	28.81
12:51:40	15.16	1.20	0.00	4.09	45.89	14.58	2.91	0.00	9.91	111.10	35.30
12:52:40	16.22	0.98	0.00	3.67	43.87	13.52	2.91	0.00	10.88	130.20	40.12
12:53:40	16.47	1.11	0.00	3.49	40.68	12.07	3.49	0.00	10.95	127.66	37.87
12:54:40	16.60	1.00	0.00	3.36	36.94	11.38	3.22	0.00	10.88	119.43	36.78
12:55:40	16.44	0.91	0.00	3.62	41.31	8.26	2.84	0.00	11.26	128.63	25.73
12:56:40	15.93	0.86	0.00	3.81	41.06	10.52	2.40	0.00	10.67	114.96	29.44
12:57:40	15.42	1.13	0.00	4.94	52.21	10.09	2.86	0.00	12.54	132.45	25.60

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
12:58:40	15.02	1.17	0.00	4.18	52.66	8.28	2.76	0.00	9.89	124.54	19.58
12:59:40	16.57	1.15	0.00	3.36	43.61	12.07	3.69	0.00	10.77	139.99	38.76
13:00:39	16.73	1.08	0.00	3.57	46.70	12.99	3.61	0.00	11.89	155.58	43.29
13:01:39	16.09	1.13	0.00	3.78	44.21	13.77	3.27	0.00	10.91	127.64	39.75
13:02:39	16.15	1.12	0.00	3.53	40.98	10.76	3.28	0.00	10.32	119.90	31.47
13:03:39	16.25	1.15	0.00	3.53	44.67	12.66	3.43	0.00	10.54	133.46	37.82
13:04:39	15.91	1.05	0.00	4.50	45.04	10.06	2.92	0.00	12.53	125.55	28.03
13:05:39	14.95	1.04	0.00	4.50	48.19	10.61	2.43	0.00	10.52	112.48	24.76
13:06:39	15.82	1.05	0.00	3.80	44.98	13.68	2.88	0.00	10.39	123.07	37.44
13:07:39	16.29	1.10	0.00	3.58	52.07	10.79	3.31	0.00	10.81	157.13	32.57
13:08:39	16.49	1.24	0.00	3.43	53.87	13.63	3.90	0.00	10.81	169.92	43.00
13:09:39	16.34	1.44	0.22	3.68	58.49	10.88	4.40	0.67	11.21	178.37	33.19
13:10:39	16.08	1.29	0.31	3.76	54.44	11.64	3.73	0.89	10.83	156.95	33.56
13:11:39	15.23	1.20	4.09	4.62	58.26	14.12	2.94	10.04	11.33	142.82	34.62
13:12:39	15.51	1.14	1.54	3.93	49.64	12.39	2.93	3.96	10.13	127.90	31.91
13:13:38	16.39	0.99	0.31	3.62	44.39	13.72	3.03	0.97	11.14	136.70	42.26
13:14:38	16.44	0.96	0.00	3.66	43.47	12.85	3.00	0.00	11.38	135.37	40.00
13:15:38	15.93	1.07	0.00	3.92	42.69	10.95	2.98	0.00	10.95	119.35	30.62
14:15:34	15.34	7.75	0.00	4.66	78.72	20.31	19.37	0.00	11.65	196.83	50.78
14:16:34	15.50	7.33	0.00	4.48	77.67	20.91	18.85	0.00	11.53	199.77	53.78
14:17:34	15.39	3.38	0.00	4.60	72.12	17.52	8.51	0.00	11.61	181.84	44.18
14:18:34	15.44	3.29	0.00	4.36	68.12	16.57	8.38	0.00	11.10	173.38	42.18
14:19:33	15.37	3.21	0.00	4.79	65.63	13.60	8.07	0.00	12.03	165.00	34.19
14:20:33	14.50	2.64	0.00	5.48	80.37	17.64	5.74	0.00	11.91	174.69	38.33
14:21:33	14.52	2.35	0.00	5.20	79.23	18.05	5.11	0.00	11.32	172.57	39.30

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
14:22:33	15.04	3.58	0.00	4.81	74.19	18.40	8.49	0.00	11.41	175.96	43.65
14:23:33	15.36	7.67	0.00	4.67	70.71	22.45	19.24	0.00	11.71	177.37	56.32
14:24:33	15.43	6.07	0.00	4.60	68.24	19.72	15.44	0.00	11.69	173.47	50.12
14:25:33	15.37	3.80	0.00	4.80	69.55	18.48	9.54	0.00	12.06	174.73	46.42
14:26:33	14.41	5.66	0.00	5.85	74.04	19.44	12.12	0.00	12.54	158.65	41.65
14:27:33	14.49	3.09	0.00	5.01	62.16	21.59	6.69	0.00	10.86	134.89	46.86
14:28:33	15.51	2.55	0.00	4.62	60.39	18.57	6.56	0.00	11.90	155.66	47.87
14:29:33	15.56	2.45	0.00	4.68	62.08	16.27	6.37	0.00	12.18	161.65	42.36
14:30:33	15.15	2.24	0.00	4.67	60.52	18.13	5.42	0.00	11.28	146.27	43.82
14:31:33	15.34	2.11	0.00	4.57	61.65	18.21	5.27	0.00	11.43	154.18	45.54
14:32:32	15.34	2.03	0.00	4.49	62.47	17.02	5.08	0.00	11.24	156.31	42.58
14:33:32	15.16	2.05	0.00	5.07	78.08	11.07	4.98	0.00	12.30	189.25	26.82
14:34:32	14.15	4.71	0.00	5.81	114.77	17.45	9.70	0.00	11.95	236.21	35.92
14:35:32	14.29	31.03	0.00	5.25	123.18	70.52	65.31	0.00	11.04	259.20	148.39
14:36:32	14.97	25.51	0.00	4.90	113.64	59.97	59.82	0.00	11.48	266.52	140.64
14:37:32	15.36	20.74	0.00	4.57	98.74	81.49	52.00	0.00	11.45	247.60	204.35
14:38:32	15.67	18.96	0.00	4.36	90.01	80.45	50.42	0.00	11.59	239.36	213.93
14:39:32	15.41	17.30	0.00	4.59	85.92	78.84	43.80	0.00	11.63	217.61	199.67
14:40:32	14.48	14.55	0.00	6.05	93.16	61.77	31.52	0.00	13.11	201.81	133.82
14:41:32	13.86	8.11	0.00	5.51	81.53	39.10	16.01	0.00	10.88	160.98	77.19
14:42:32	15.06	5.13	0.00	4.84	75.90	30.04	12.21	0.00	11.51	180.56	71.48
14:43:32	15.52	3.46	0.00	4.37	71.23	26.65	8.94	0.00	11.31	184.16	68.90
14:44:32	15.87	5.03	0.00	4.23	72.13	27.68	13.91	0.00	11.70	199.35	76.52
14:45:31	15.01	7.11	0.00	5.22	93.92	28.97	16.80	0.00	12.32	221.82	68.43
14:46:31	14.65	6.16	0.00	5.04	94.68	23.54	13.70	0.00	11.21	210.64	52.37
14:47:31	15.34	4.63	0.00	4.49	82.37	22.87	11.58	0.00	11.23	205.81	57.14
14:48:31	15.89	2.52	0.00	4.12	73.64	21.27	6.98	0.00	11.41	204.12	58.95

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
14:49:31	15.54	2.33	0.00	5.01	82.82	20.42	6.04	0.00	12.98	214.65	52.91
14:50:31	14.16	2.57	0.00	5.58	88.15	21.25	5.30	0.00	11.51	181.78	43.82
14:51:31	14.09	30.90	0.00	6.09	106.69	109.28	63.06	0.00	12.42	217.76	223.03
14:52:31	13.83	42.88	0.00	5.16	90.78	176.73	84.34	0.00	10.14	178.57	347.63
14:53:31	15.10	31.10	0.00	4.78	87.67	181.82	74.54	0.00	11.45	210.11	435.77
14:54:31	15.17	26.44	0.00	4.69	81.79	188.37	64.11	0.00	11.38	198.32	456.75
14:55:31	15.30	19.60	0.00	4.61	78.22	122.45	48.67	0.00	11.45	194.27	304.11
14:56:31	15.33	15.71	0.00	4.69	82.98	151.00	39.19	0.00	11.70	206.97	376.65
14:57:31	14.39	20.44	0.00	5.94	125.61	149.48	43.67	0.00	12.68	268.36	319.36
14:58:30	13.58	25.37	0.00	6.16	98.59	173.54	48.15	0.00	11.70	187.10	329.33
14:59:30	13.91	24.58	0.00	5.66	89.72	137.82	48.84	0.00	11.25	178.29	273.87
15:00:30	14.31	19.70	0.00	5.39	88.61	116.38	41.57	0.00	11.37	186.93	245.51
15:01:30	14.44	17.30	0.00	5.29	89.82	106.32	37.25	0.00	11.40	193.40	228.92
15:02:30	14.58	15.76	0.00	5.23	92.84	97.64	34.64	0.00	11.49	204.04	214.60
15:03:30	14.50	16.18	0.00	5.27	92.98	100.57	35.12	0.00	11.44	201.81	218.28
15:04:30	14.48	15.76	0.00	5.20	92.33	100.07	34.11	0.00	11.26	199.87	216.61
15:05:30	14.60	14.80	0.00	5.07	90.10	79.14	32.64	0.00	11.19	198.67	174.50
15:06:30	14.97	8.01	0.00	4.68	80.45	51.27	18.76	0.00	10.97	188.49	120.12
15:07:30	15.08	11.68	0.00	4.73	81.80	71.84	27.91	0.00	11.31	195.44	171.65
15:08:30	15.22	8.44	0.00	4.40	73.92	54.97	20.65	0.00	10.77	180.90	134.52
15:09:30	15.63	10.66	0.00	4.27	66.38	67.14	28.12	0.00	11.25	175.08	177.07
15:10:30	15.67	11.72	0.00	4.20	66.20	67.12	31.17	0.00	11.18	176.09	178.54
15:11:29	15.91	6.28	0.00	3.87	59.28	42.22	17.51	0.00	10.78	165.21	117.66
15:12:29	16.20	2.50	0.00	3.84	55.04	36.19	7.39	0.00	11.36	162.92	107.12
15:13:29	15.76	2.06	0.00	4.35	53.74	27.72	5.57	0.00	11.77	145.29	74.95
15:14:29	14.80	1.72	0.00	5.17	58.50	25.16	3.92	0.00	11.77	133.32	57.33
15:15:29	14.63	1.31	0.00	4.85	54.29	28.49	2.90	0.00	10.75	120.38	63.17

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
15:16:29	15.40	1.61	0.00	4.29	52.50	28.78	4.07	0.00	10.86	132.80	72.79
15:17:29	15.70	3.17	0.00	4.42	56.91	30.79	8.47	0.00	11.82	152.23	82.35
15:18:29	15.23	3.66	0.00	4.50	55.37	29.57	8.98	0.00	11.02	135.75	72.50
15:19:29	15.40	2.91	0.00	4.33	57.22	25.47	7.36	0.00	10.93	144.64	64.38
15:20:29	15.02	1.98	0.00	5.28	73.57	22.02	4.68	0.00	12.48	174.00	52.07
15:21:29	14.73	1.74	0.00	4.75	72.08	24.41	3.93	0.00	10.69	162.26	54.96
15:22:29	15.65	1.12	0.00	4.16	61.44	25.18	2.96	0.00	11.02	162.59	66.63
15:23:29	15.87	1.16	0.00	4.22	61.32	21.39	3.20	0.00	11.67	169.37	59.08
15:24:28	15.21	1.30	0.00	4.68	65.42	19.88	3.18	0.00	11.43	159.76	48.55
15:25:28	15.12	1.38	0.00	4.21	60.97	20.67	3.32	0.00	10.12	146.74	49.74
15:26:28	15.95	0.99	0.00	3.81	55.17	18.69	2.77	0.00	10.71	154.95	52.48
15:27:28	15.82	0.91	0.00	4.41	55.59	19.33	2.48	0.00	12.07	152.20	52.92
15:28:28	14.65	0.78	0.00	4.88	53.29	16.41	1.73	0.00	10.86	118.61	36.52
15:29:28	15.62	0.81	0.00	4.00	49.85	18.87	2.14	0.00	10.53	131.12	49.63
15:30:28	16.21	0.70	0.00	3.65	47.31	17.44	2.08	0.00	10.82	140.17	51.67
15:31:28	16.48	0.66	0.00	3.43	42.12	15.91	2.06	0.00	10.81	132.54	50.05
15:32:28	16.47	0.41	0.00	3.52	40.95	17.81	1.28	0.00	11.04	128.45	55.87
15:33:28	16.50	0.36	0.00	3.36	38.94	17.16	1.15	0.00	10.63	123.10	54.24
15:34:28	16.68	0.39	0.00	3.27	37.41	15.64	1.30	0.00	10.77	123.30	51.56
15:35:28	15.92	0.51	0.27	4.35	48.40	14.34	1.42	0.75	12.15	135.19	40.06
15:36:28	15.75	0.64	0.00	3.83	50.86	14.18	1.73	0.00	10.33	137.13	38.25
15:37:27	15.91	0.58	0.00	3.56	43.96	16.33	1.61	0.00	9.93	122.55	45.52
15:38:27	16.66	0.53	0.00	3.09	38.57	14.47	1.73	0.00	10.13	126.47	47.44
15:39:27	16.87	0.36	0.00	3.22	41.51	13.64	1.24	0.00	11.14	143.33	47.11
15:40:27	16.21	0.48	0.00	3.37	42.30	14.76	1.44	0.00	10.00	125.42	43.77
15:41:27	16.09	0.35	0.00	4.13	39.76	14.65	1.02	0.00	11.94	114.86	42.33
15:42:27	15.19	0.70	0.00	4.32	55.32	15.70	1.71	0.00	10.53	134.77	38.24

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
15:43:27	15.83	0.57	0.00	3.64	54.76	20.94	1.56	0.00	9.96	150.06	57.39
15:44:27	16.40	0.73	0.00	3.50	52.47	15.89	2.27	0.00	10.81	162.26	49.14
15:45:27	16.50	0.51	0.00	3.39	48.64	15.35	1.60	0.00	10.71	153.83	48.54
15:46:27	16.60	0.56	0.00	3.31	46.46	14.87	1.83	0.00	10.72	150.24	48.08
15:47:27	16.64	0.58	0.00	3.30	45.79	15.14	1.89	0.00	10.77	149.28	49.35
15:48:27	15.96	0.54	0.00	4.41	44.48	15.14	1.51	0.00	12.42	125.27	42.63
15:49:27	15.73	0.57	0.00	3.86	47.33	14.95	1.54	0.00	10.38	127.24	40.20
15:50:27	15.93	0.43	0.00	3.63	41.12	17.88	1.20	0.00	10.15	114.94	49.98
15:51:26	16.22	0.43	0.00	3.54	42.00	16.27	1.28	0.00	10.50	124.75	48.33
15:52:26	16.12	0.28	0.00	3.60	42.20	17.60	0.80	0.00	10.47	122.66	51.17
15:53:26	16.15	0.37	0.00	3.52	40.98	16.46	1.09	0.00	10.30	119.84	48.14
15:54:26	16.22	0.34	0.00	3.52	42.74	13.95	1.01	0.00	10.45	126.90	41.41
15:55:26	15.82	0.44	0.00	4.41	47.01	12.15	1.21	0.00	12.06	128.62	33.25
15:56:26	14.55	0.48	0.00	4.81	42.64	16.27	1.04	0.00	10.54	93.37	35.62
15:57:26	16.07	0.35	0.00	3.74	37.72	18.12	1.01	0.00	10.76	108.45	52.10
15:58:26	16.36	0.44	0.00	3.79	38.64	17.06	1.33	0.00	11.60	118.24	52.20
15:59:26	15.61	0.38	0.00	4.12	39.75	15.71	0.99	0.00	10.84	104.45	41.28
16:00:26	15.83	0.40	0.00	3.75	38.16	13.44	1.11	0.00	10.28	104.69	36.87
16:01:26	16.17	0.22	0.00	3.46	38.29	10.65	0.65	0.00	10.16	112.42	31.26
16:02:26	16.27	0.34	0.00	3.41	33.76	15.33	1.01	0.00	10.25	101.45	46.05
16:03:26	16.20	0.31	0.00	3.55	38.16	10.36	0.91	0.00	10.52	112.95	30.68
16:04:25	15.75	0.50	0.00	4.45	54.61	13.10	1.34	0.00	12.01	147.50	35.39
16:05:25	14.45	0.87	0.00	5.16	71.20	15.60	1.88	0.00	11.13	153.48	33.63
16:06:25	15.11	1.01	0.00	4.75	63.31	16.37	2.41	0.00	11.40	152.06	39.32
16:07:25	15.46	1.53	0.00	4.34	58.41	14.51	3.91	0.00	11.10	149.33	37.10
16:08:25	15.85	2.00	0.00	3.95	54.38	15.15	5.50	0.00	10.86	149.66	41.70
16:09:25	15.92	2.27	0.00	4.19	55.25	14.49	6.33	0.00	11.70	154.12	40.41

BORGESS MEDICAL CENTER

OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 11, 1991

TIME	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
16:10:25	15.07	2.31	0.00	4.38	53.98	13.58	5.50	0.00	10.43	128.60	32.36
16:11:25	15.22	2.85	0.00	4.80	93.33	12.02	6.98	0.00	11.74	228.35	29.42
16:12:25	14.07	5.50	0.00	5.39	124.80	12.40	11.19	0.00	10.97	254.10	25.25
16:13:25	15.18	3.01	0.00	4.69	80.00	14.55	7.32	0.00	11.40	194.45	35.37
16:14:25	15.17	2.32	0.00	4.69	66.23	14.23	5.62	0.00	11.39	160.64	34.52
16:15:25	15.42	2.02	0.00	4.45	60.30	14.95	5.13	0.00	11.28	153.03	37.95
(pre & post port change averages)	15.88	1.39	0.33	3.98	55.45	12.67	3.91	0.89	11.06	154.00	35.69
	15.38	5.95	0.00	4.48	66.42	37.50	13.77	0.01	11.25	164.82	89.96
FINAL AVE	15.61	3.90	0.15	4.25	61.48	26.33	9.33	0.40	11.16	159.95	65.54
CV	0.05	1.70	3.53	0.17	0.30	1.24	1.55	3.50	0.09	0.21	1.09

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN-----				
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
12:30:24	14.78	6.09	0.23	4.71	50.09	9.76	13.84	0.53	10.71	113.82	22.18
12:31:24	16.02	6.30	0.70	4.20	49.49	10.54	17.94	2.00	11.97	141.00	30.02
12:32:24	16.35	6.57	0.69	3.82	47.63	9.57	20.06	2.11	11.66	145.56	29.23
12:33:24	16.73	5.56	0.76	3.61	44.02	7.67	18.52	2.54	12.02	146.56	25.54
12:34:24	16.31	5.32	0.86	3.76	41.69	9.63	16.12	2.61	11.38	126.16	29.13
12:35:24	16.36	5.69	0.77	3.69	42.72	8.90	17.43	2.36	11.29	130.93	27.29
12:36:24	15.71	5.60	0.55	5.12	48.25	5.84	15.00	1.49	13.72	129.31	15.66
12:37:24	14.84	6.09	0.38	5.29	44.01	8.44	13.96	0.88	12.12	100.91	19.35
12:38:24	16.05	5.81	0.87	3.57	32.36	10.54	16.64	2.49	10.22	92.67	30.19
12:39:23	16.48	5.72	1.25	3.83	37.10	8.80	17.98	3.94	12.05	116.63	27.68
12:40:23	15.75	6.03	1.11	3.75	35.85	8.49	16.28	2.99	10.12	96.74	22.90
12:41:23	16.55	6.27	1.27	3.27	34.13	9.37	20.06	4.07	10.46	109.09	29.96
12:42:23	16.73	6.61	1.08	3.57	35.30	8.99	22.03	3.60	11.90	117.67	29.96
12:43:23	15.36	7.12	0.51	4.96	46.52	5.79	17.88	1.27	12.46	116.76	14.54
12:44:23	15.36	7.33	0.84	4.22	38.33	7.65	18.41	2.11	10.59	96.26	19.21
12:45:23	16.13	7.54	0.93	3.77	37.73	10.94	21.99	2.70	10.97	109.94	31.88
12:46:23	16.79	6.96	0.92	3.61	36.90	6.52	23.57	3.10	12.24	124.94	22.09
12:47:23	16.39	7.53	1.10	3.68	37.22	7.85	23.22	3.39	11.35	114.79	24.21
12:48:23	16.60	7.60	1.32	3.41	33.20	7.50	24.57	4.26	11.04	107.39	24.26
12:49:23	16.28	7.48	1.28	3.80	35.88	10.29	22.50	3.86	11.43	107.94	30.96
12:50:23	15.46	8.00	0.82	5.10	46.12	6.95	20.43	2.10	13.03	117.80	17.75
12:51:23	14.66	8.25	0.83	4.57	46.90	9.49	18.36	1.85	10.18	104.41	21.13
12:52:23	16.28	8.07	1.39	3.68	43.53	6.12	24.28	4.20	11.09	131.03	18.42
12:53:22	16.72	8.39	1.13	3.67	55.87	9.00	27.86	3.75	12.20	185.58	29.89
12:54:22	16.21	8.73	1.59	3.79	67.26	7.76	25.88	4.72	11.23	199.32	23.01
12:55:22	16.15	8.93	1.34	3.78	79.67	7.73	26.14	3.93	11.06	233.30	22.63
12:56:22	16.23	8.80	1.34	3.65	72.57	5.81	26.20	3.99	10.88	216.14	17.31

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
12:57:22	16.40	8.79	1.27	3.83	54.83	10.68	27.12	3.92	11.82	169.19	32.95
12:58:22	15.40	8.53	0.96	4.92	59.26	8.30	21.57	2.42	12.43	149.76	20.98
12:59:22	15.29	8.61	1.16	4.08	53.84	8.94	21.33	2.86	10.11	133.42	22.14
13:00:22	16.67	8.27	1.40	3.42	46.06	10.18	27.20	4.59	11.25	151.42	33.47
13:01:22	16.88	7.92	1.33	3.51	38.71	7.97	27.37	4.58	12.13	133.80	27.54
13:02:22	16.14	7.62	1.19	4.03	39.54	7.12	22.26	3.46	11.77	115.56	20.80
13:03:22	15.19	7.78	0.88	5.30	50.42	7.74	18.96	2.14	12.91	122.82	18.86
13:04:22	14.59	7.77	0.93	5.14	47.70	7.57	17.13	2.04	11.33	105.11	16.69
13:05:22	15.47	7.51	0.86	4.02	37.98	10.59	19.24	2.19	10.30	97.26	27.12
13:06:21	16.60	7.35	1.09	3.46	36.58	8.20	23.77	3.52	11.17	118.24	26.50
13:07:21	16.84	7.37	1.17	3.38	34.17	5.97	25.25	4.01	11.59	117.07	20.44
13:08:21	16.03	6.84	1.02	4.27	37.74	4.34	19.53	2.90	12.20	107.78	12.39
13:09:21	15.48	6.87	0.88	3.86	34.78	7.00	17.60	2.27	9.89	89.16	17.94
13:10:21	16.12	7.07	0.73	4.28	38.42	7.29	20.54	2.11	12.45	111.69	21.20
13:11:21	15.20	7.33	0.32	4.56	44.94	9.09	17.87	0.79	11.11	109.51	22.14
13:12:21	16.29	7.43	0.54	3.67	42.50	7.25	22.43	1.63	11.08	128.29	21.88
13:13:21	16.77	7.06	0.50	3.51	39.52	9.39	23.75	1.69	11.83	132.99	31.58
13:14:21	16.44	7.32	0.43	3.65	39.88	6.69	22.83	1.35	11.40	124.41	20.86
13:15:21	16.41	7.50	0.15	3.63	41.73	4.11	23.21	0.46	11.24	129.07	12.71
13:16:21	16.39	7.74	0.10	3.68	44.79	6.59	23.85	0.31	11.32	137.98	20.30
13:17:21	16.18	8.02	0.20	4.17	59.56	4.83	23.62	0.60	12.29	175.44	14.23
13:18:21	14.85	8.50	0.00	5.34	90.59	3.36	19.53	0.00	12.27	208.09	7.72
13:19:20	15.23	8.44	0.00	4.53	85.17	8.07	20.70	0.00	11.12	208.91	19.80
13:20:20	15.90	8.32	0.00	4.30	79.78	8.23	23.13	0.00	11.95	221.86	22.88
13:21:20	15.59	8.32	0.00	4.47	78.76	7.54	21.77	0.00	11.70	206.12	19.74
13:22:20	15.60	8.33	0.00	4.26	73.16	6.85	21.86	0.00	11.18	192.04	17.98
13:23:20	15.62	8.35	0.00	4.51	75.26	5.32	21.99	0.00	11.88	198.20	14.01

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
13:24:20	14.78	8.37	0.00	5.08	77.20	4.20	19.02	0.00	11.53	175.38	9.54
13:25:20	14.00	8.71	0.00	5.44	89.54	2.93	17.53	0.00	10.96	180.26	5.90
13:26:20	14.82	8.96	0.00	4.97	89.60	8.90	20.49	0.00	11.37	204.90	20.35
13:27:20	15.15	8.60	0.00	4.49	71.56	6.57	20.78	0.00	10.86	172.95	15.88
13:28:20	15.79	7.87	0.41	4.43	62.99	5.87	21.41	1.12	12.06	171.35	15.96
13:29:20	15.45	7.98	0.25	4.44	58.01	4.70	20.34	0.63	11.32	147.88	11.99
13:30:20	15.52	7.80	0.32	4.74	29.24	6.98	20.15	0.84	12.24	75.56	18.05
13:34:19	13.37	11.91	0.00	6.53	100.40	10.61	21.99	0.00	12.06	185.37	19.59
13:35:19	13.56	17.21	0.00	6.30	99.25	11.88	32.60	0.00	11.93	187.97	22.49
13:36:19	13.67	21.38	0.00	6.20	98.03	15.57	41.09	0.00	11.92	188.44	29.93
13:37:19	13.77	30.73	0.00	6.03	96.70	18.65	59.88	0.00	11.74	188.42	36.33
13:38:19	13.98	23.40	0.00	5.78	95.76	15.97	47.00	0.00	11.62	192.35	32.08
13:39:19	14.19	23.55	0.00	5.62	97.48	16.42	48.76	0.00	11.63	201.87	33.99
13:40:19	14.30	24.01	0.00	5.54	96.72	19.28	50.55	0.00	11.67	203.68	40.60
13:41:19	14.29	26.49	0.00	5.56	96.66	24.04	55.67	0.00	11.68	203.15	50.52
13:42:19	14.25	27.55	0.00	5.56	98.15	23.20	57.58	0.00	11.62	205.12	48.49
13:43:19	14.29	21.10	0.00	5.48	97.32	20.83	44.35	0.00	11.51	204.54	43.77
13:44:19	14.39	11.26	0.00	5.30	94.11	18.40	24.04	0.00	11.31	200.87	39.27
13:45:18	14.63	13.39	0.00	5.22	91.85	16.23	29.69	0.00	11.57	203.61	35.98
13:46:18	14.76	17.14	0.06	5.07	89.01	18.48	38.79	0.13	11.47	201.42	41.83
13:47:18	14.91	17.95	0.12	4.95	89.02	19.67	41.68	0.27	11.49	206.64	45.67
13:48:18	15.02	18.70	0.30	4.84	85.40	18.04	44.19	0.70	11.44	201.88	42.63
13:49:18	15.18	20.02	0.21	4.74	81.19	19.06	48.69	0.52	11.53	197.45	46.36
13:50:18	15.30	19.27	0.42	4.63	76.78	20.07	47.83	1.04	11.48	190.55	49.82
13:51:18	15.43	16.96	0.43	4.53	74.99	21.25	43.09	1.10	11.51	190.52	54.00
13:52:18	15.47	17.74	0.64	4.55	76.83	21.18	45.46	1.65	11.65	196.85	54.26
13:53:18	15.55	11.87	0.82	4.37	70.90	19.51	30.85	2.13	11.35	184.21	50.69

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN-----				
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
13:54:18	15.76	11.38	0.90	4.20	67.97	15.55	30.81	2.43	11.35	183.95	42.08
13:55:18	15.91	10.69	0.87	4.23	66.99	16.78	29.76	2.41	11.78	186.49	46.70
13:56:18	15.44	8.52	0.55	4.37	66.39	12.36	21.69	1.39	11.12	169.00	31.46
13:57:18	15.51	7.96	0.62	4.25	64.71	15.59	20.54	1.59	10.95	166.93	40.21
14:04:17	15.04	8.74	0.19	4.42	64.77	12.29	20.75	0.45	10.50	153.71	29.17
14:05:17	15.78	8.91	0.48	4.31	63.26	15.19	24.20	1.31	11.70	171.90	41.27
14:06:17	15.45	8.65	0.21	4.32	61.32	9.51	22.08	0.52	11.03	156.50	24.26
14:07:17	15.51	8.78	0.06	4.44	64.18	11.83	22.64	0.14	11.44	165.53	30.52
14:08:17	14.88	8.55	0.00	4.46	61.28	14.59	19.74	0.00	10.29	141.47	33.69
14:09:17	15.22	8.45	0.05	4.41	61.96	11.10	20.65	0.11	10.78	151.51	27.15
14:10:17	14.69	8.49	0.00	5.51	74.27	11.68	19.02	0.00	12.35	166.38	26.17
14:11:16	14.20	8.89	0.00	5.10	83.97	9.71	18.43	0.00	10.57	174.10	20.13
14:12:16	15.20	8.95	0.00	4.58	72.26	12.04	21.82	0.00	11.17	176.06	29.34
14:13:16	15.45	9.17	0.12	4.59	64.09	10.52	23.40	0.32	11.71	163.54	26.84
14:14:16	14.61	9.43	0.00	4.87	61.02	11.75	20.85	0.00	10.76	134.90	25.97
14:15:16	14.91	9.71	0.00	4.41	57.71	12.21	22.54	0.00	10.24	133.92	28.34
14:16:16	14.89	10.23	0.00	5.33	65.27	12.86	23.66	0.00	12.32	151.02	29.76
14:17:16	13.85	10.58	0.00	5.48	62.96	11.45	20.86	0.00	10.80	124.09	22.56
14:18:25	14.59	10.04	0.00	5.01	61.87	10.84	22.13	0.00	11.04	136.31	23.87
14:19:25	15.29	15.23	0.96	4.38	58.78	16.98	37.72	2.37	10.85	145.58	42.05
14:20:25	15.49	15.90	0.49	4.45	59.77	15.06	40.87	1.25	11.45	153.69	38.73
14:21:25	15.43	14.35	0.03	4.33	60.71	16.40	36.49	0.08	11.01	154.36	41.70
14:22:25	15.20	12.17	0.00	4.64	59.87	9.89	29.66	0.00	11.31	145.91	24.10
14:23:24	14.51	11.11	0.00	5.19	65.33	13.75	24.18	0.00	11.30	142.15	29.93
14:24:24	14.78	10.31	0.17	4.51	59.27	14.76	23.43	0.38	10.25	134.72	33.55
14:25:24	15.45	9.66	0.25	4.25	55.66	12.71	24.61	0.64	10.84	141.87	32.39
14:26:24	15.60	9.24	0.39	4.24	52.28	10.98	24.21	1.03	11.13	137.02	28.78

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
14:27:24	14.99	9.18	0.33	4.44	51.22	12.04	21.61	0.77	10.46	120.53	28.34
14:28:24	15.59	8.72	0.50	3.83	47.65	11.54	22.80	1.30	10.01	124.67	30.19
14:29:24	15.95	8.50	0.74	3.80	47.19	8.24	23.88	2.07	10.67	132.61	23.15
14:30:24	15.84	8.32	0.76	4.41	56.37	8.74	22.84	2.09	12.11	154.83	24.01
14:31:24	14.52	8.90	0.13	5.18	85.95	10.37	19.37	0.27	11.27	187.11	22.58
14:32:24	15.21	9.01	0.42	4.36	87.10	9.90	22.00	1.03	10.64	212.74	24.17
14:33:24	15.83	8.96	0.57	4.22	74.44	12.36	24.53	1.57	11.55	203.92	33.87
14:34:24	15.46	8.91	0.56	4.33	69.45	8.23	22.76	1.42	11.06	177.48	21.04
14:35:24	15.52	8.80	0.45	4.16	65.88	11.39	22.75	1.15	10.74	170.18	29.41
14:36:23	15.81	8.64	0.69	3.91	59.79	9.27	23.61	1.87	10.69	163.39	25.34
14:37:23	15.93	8.64	0.65	4.09	56.47	10.16	24.16	1.83	11.44	157.84	28.40
14:38:23	14.97	8.78	0.31	5.02	64.52	8.51	20.61	0.74	11.78	151.36	19.97
14:39:23	15.33	9.02	0.52	4.48	65.39	9.22	22.49	1.29	11.18	163.10	23.00
14:40:23	15.44	9.02	0.44	4.45	68.25	7.52	22.97	1.13	11.33	173.71	19.15
14:41:23	15.46	9.25	0.63	4.33	64.53	10.05	23.65	1.61	11.06	164.96	25.69
14:42:23	15.61	9.18	0.74	4.16	61.65	10.39	24.12	1.95	10.93	161.90	27.28
14:43:23	15.73	9.40	0.91	4.08	58.37	6.45	25.26	2.44	10.96	156.87	17.33
14:44:23	15.88	9.34	1.10	3.97	55.60	9.40	25.85	3.03	10.99	153.88	26.02
14:45:23	15.14	9.38	0.57	5.19	61.12	7.67	22.65	1.39	12.54	147.56	18.51
14:46:23	14.46	9.40	0.48	4.66	51.39	8.58	20.29	1.03	10.07	110.99	18.54
14:47:23	15.89	9.33	1.13	3.76	46.11	7.86	25.89	3.13	10.44	127.94	21.80
14:48:23	16.26	9.23	0.98	3.58	44.68	7.99	27.67	2.93	10.73	133.92	23.96
14:49:22	16.30	9.21	1.20	3.65	45.58	5.77	27.82	3.63	11.02	137.65	17.42
14:50:22	15.80	9.32	1.00	4.00	43.96	6.00	25.41	2.73	10.89	119.82	16.35
14:51:22	15.82	9.22	1.00	4.06	42.25	9.91	25.20	2.73	11.10	115.49	27.08
14:52:22	15.07	9.80	0.78	4.80	54.08	7.99	23.38	1.87	11.46	129.04	19.08
14:53:22	16.00	9.77	1.41	3.66	56.23	7.94	27.75	4.01	10.38	159.65	22.53

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
14:54:22	16.60	9.78	1.37	3.58	57.50	8.80	31.59	4.43	11.57	185.72	28.44
14:55:22	16.31	9.61	1.27	3.54	54.82	10.59	29.08	3.85	10.71	165.90	32.04
14:56:22	16.45	9.55	1.44	3.42	55.93	7.29	29.83	4.51	10.70	174.76	22.78
14:57:22	16.51	9.62	1.39	3.38	55.91	6.17	30.49	4.40	10.71	177.10	19.54
14:58:22	16.58	9.69	1.39	3.58	53.04	6.31	31.19	4.47	11.53	170.78	20.30
14:59:22	14.97	9.69	0.82	5.16	68.07	8.31	22.71	1.92	12.10	159.49	19.46
15:00:22	15.01	9.89	1.18	4.30	72.86	10.97	23.32	2.79	10.15	171.82	25.87
15:01:22	16.12	9.96	1.28	3.89	69.94	5.25	28.97	3.71	11.30	203.35	15.26
15:02:21	16.29	9.90	1.16	3.85	63.19	8.70	29.83	3.49	11.59	190.47	26.23
15:03:21	15.95	9.84	1.15	4.01	60.08	8.58	27.62	3.23	11.27	168.65	24.10
15:04:21	15.92	9.78	1.16	3.90	57.28	7.02	27.26	3.25	10.89	159.72	19.57
15:05:21	16.03	9.85	1.43	3.85	58.60	8.23	28.12	4.07	10.99	167.30	23.49
15:06:21	15.39	9.90	1.65	4.94	65.85	7.74	24.99	4.16	12.48	166.20	19.54
15:07:21	14.93	9.84	1.20	4.57	64.97	7.66	22.90	2.80	10.64	151.22	17.82
15:08:21	15.84	9.74	1.02	4.13	63.04	7.41	26.73	2.81	11.33	173.04	20.33
15:09:21	15.80	9.82	0.70	4.31	59.96	11.22	26.74	1.92	11.74	163.39	30.57
15:10:21	15.62	9.76	0.89	4.24	59.39	10.87	25.67	2.34	11.14	156.26	28.59
15:11:21	15.72	9.65	0.57	4.05	56.04	10.43	25.87	1.53	10.88	150.33	27.98
15:12:21	15.88	9.44	0.99	4.02	54.16	8.20	26.16	2.76	11.15	150.10	22.72
16:20:16	16.07	9.64	1.56	3.87	44.13	7.82	27.75	4.49	11.13	127.06	22.51
16:21:15	16.39	9.36	2.26	3.60	41.57	3.63	28.88	6.99	11.10	128.25	11.20
16:22:15	16.40	9.26	2.20	3.90	38.95	4.79	28.60	6.79	12.03	120.31	14.79
16:23:15	15.53	9.39	1.34	4.05	37.46	6.12	24.28	3.47	10.48	96.90	15.83
16:24:15	16.13	9.30	1.32	3.46	34.58	6.00	27.11	3.84	10.08	100.80	17.50
16:25:15	15.84	9.44	4.25	4.79	44.76	6.37	25.93	11.66	13.16	122.92	17.49

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
16:26:15	15.60	9.51	2.04	3.83	41.00	5.31	24.96	5.35	10.05	107.59	13.92
16:27:15	16.69	9.52	1.26	3.39	40.40	4.16	31.44	4.17	11.20	133.46	13.74
16:28:15	16.61	9.43	1.17	3.78	38.29	5.56	30.59	3.78	12.28	124.19	18.04
16:29:15	15.72	9.36	0.89	3.86	36.31	7.10	25.13	2.38	10.35	97.44	19.07
16:30:15	16.39	9.30	0.87	3.38	32.58	3.16	28.67	2.68	10.42	100.43	9.75
16:31:15	16.57	9.45	1.23	3.98	35.01	5.23	30.34	3.95	12.78	112.46	16.80
16:32:15	15.19	9.39	1.02	4.57	39.21	8.03	22.84	2.49	11.12	95.42	19.54
16:33:15	16.23	9.56	0.84	3.67	38.17	7.47	28.49	2.50	10.94	113.68	22.24
16:34:14	16.75	9.67	0.97	3.49	36.15	4.87	32.36	3.24	11.69	120.95	16.31
16:35:14	16.00	9.58	0.66	4.13	35.82	3.15	27.20	1.89	11.72	101.69	8.94
16:36:14	15.74	9.54	0.65	3.58	30.82	6.84	25.72	1.75	9.66	83.10	18.44
16:37:14	16.60	9.54	0.83	3.33	29.40	5.45	30.81	2.67	10.74	94.97	17.62
16:38:14	16.64	9.66	0.87	3.67	36.47	7.39	31.56	2.85	11.98	119.13	24.15
16:39:14	15.26	9.98	0.84	4.69	49.50	10.71	24.61	2.08	11.56	122.11	26.41
16:40:14	15.93	10.14	0.93	3.86	46.16	7.21	28.39	2.61	10.80	129.23	20.19
16:41:14	16.48	9.96	1.21	3.53	42.76	6.31	31.30	3.82	11.10	134.41	19.85
16:42:14	16.80	9.87	1.01	3.28	40.82	6.32	33.43	3.42	11.10	138.29	21.40
16:43:14	16.63	9.81	1.05	3.72	38.65	4.88	31.91	3.42	12.11	125.74	15.89
16:44:14	15.65	9.70	0.88	3.75	36.64	8.23	25.70	2.34	9.94	97.01	21.79
16:45:14	16.45	9.61	1.11	3.34	36.16	1.86	30.04	3.48	10.45	113.00	5.80
16:46:14	16.20	9.78	1.07	3.89	42.42	6.42	28.93	3.16	11.50	125.56	19.01
16:47:13	16.32	9.75	1.32	4.09	41.84	4.92	29.58	4.01	12.41	126.89	14.93
16:48:13	15.75	10.01	1.20	4.00	47.02	5.32	26.99	3.24	10.78	126.84	14.36
16:49:13	16.31	9.81	1.26	3.74	49.36	4.58	29.70	3.81	11.33	149.45	13.87
16:50:13	16.48	9.93	1.20	3.53	50.08	7.45	31.26	3.77	11.12	157.66	23.46
16:51:13	16.64	9.64	1.31	3.43	50.69	5.97	31.44	4.27	11.18	165.34	19.46
16:52:13	16.76	9.83	1.34	3.32	49.29	4.02	33.03	4.49	11.15	165.59	13.50

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
16:53:13	16.63	9.89	1.23	4.28	56.97	7.21	32.24	4.01	13.95	185.64	23.49
16:54:13	14.38	9.94	1.14	5.08	56.16	4.01	21.17	2.44	10.82	119.65	8.54
16:55:13	15.09	9.99	1.45	4.77	57.16	8.63	23.89	3.48	11.41	136.73	20.64
16:56:13	15.53	10.03	1.68	4.24	56.77	10.08	25.98	4.36	10.99	147.01	26.10
16:57:13	15.98	10.26	2.74	3.93	51.66	7.35	28.97	7.73	11.10	145.95	20.75
16:58:13	16.22	10.83	4.03	3.83	50.68	9.70	32.18	11.97	11.37	150.58	28.83
16:59:13	15.90	10.50	2.54	4.37	52.01	10.13	29.17	7.06	12.14	144.52	28.16
17:00:12	15.00	10.37	0.94	4.52	57.34	7.99	24.43	2.22	10.66	135.08	18.82
17:01:12	14.68	11.11	0.66	5.26	86.35	11.08	24.81	1.48	11.76	192.90	24.75
17:02:12	14.88	13.76	0.44	4.77	74.43	11.07	31.79	1.02	11.02	171.95	25.57
17:03:12	15.48	16.88	0.70	4.38	66.51	18.46	43.26	1.79	11.22	170.51	47.33
17:04:12	15.78	18.23	1.12	4.16	60.08	20.39	49.48	3.04	11.29	163.08	55.35
17:05:12	15.64	14.65	1.05	4.36	57.34	19.34	38.70	2.76	11.52	151.46	51.08
17:06:12	15.52	18.70	1.13	4.25	53.89	25.95	48.27	2.93	10.97	139.14	67.01
17:07:12	15.63	21.26	1.14	4.21	54.48	30.09	56.03	3.00	11.08	143.57	79.29
17:08:12	14.65	19.62	0.63	5.46	70.93	26.33	43.65	1.41	12.15	157.75	58.57
17:09:12	15.08	14.99	0.94	4.19	59.86	21.71	35.80	2.26	10.02	143.01	51.86
17:10:12	15.78	14.28	1.19	4.03	55.57	16.83	38.80	3.23	10.94	150.93	45.72
17:11:12	15.91	13.32	1.47	3.91	52.00	15.43	37.10	4.10	10.88	144.87	43.00
17:12:12	15.55	12.48	0.94	4.22	50.37	16.98	32.44	2.46	10.97	130.96	44.14
17:13:11	15.52	12.02	1.14	3.88	49.57	17.95	31.07	2.96	10.03	128.08	46.39
17:14:11	15.99	11.70	1.55	3.70	48.31	16.53	33.16	4.38	10.48	136.89	46.83
17:15:11	15.58	11.67	1.52	4.89	63.04	11.23	30.49	3.98	12.78	164.70	29.33
17:16:11	14.69	11.24	1.19	4.45	54.60	12.20	25.14	2.66	9.96	122.12	27.28
17:17:11	16.10	11.25	1.43	3.75	51.51	13.08	32.57	4.14	10.85	149.16	37.87
17:18:11	16.03	11.87	1.41	3.93	45.19	13.67	33.90	4.02	11.23	129.07	39.05
17:19:11	15.96	11.88	1.27	3.94	46.66	12.97	33.43	3.56	11.10	131.28	36.48

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN-----				
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
17:20:11	15.87	12.13	1.34	3.91	46.90	11.97	33.49	3.70	10.79	129.54	33.06
17:21:11	16.00	12.41	1.39	3.74	45.24	15.04	35.22	3.94	10.60	128.39	42.67
17:22:11	16.00	12.32	1.17	4.21	52.79	15.00	34.97	3.32	11.95	149.81	42.57
17:23:11	15.01	12.91	0.99	4.68	66.94	15.13	30.45	2.34	11.04	157.90	35.70
17:24:11	15.73	15.66	1.20	3.94	61.32	20.41	42.08	3.22	10.60	164.81	54.87
17:24:29	16.26	16.19	1.36	3.80	57.22	15.58	48.50	4.08	11.39	171.45	46.68
17:24:39	16.29	16.78	2.32	3.97	55.36	14.05	50.64	7.01	11.97	167.07	42.39
17:24:48	16.30	16.23	1.91	4.05	55.15	16.06	49.07	5.78	12.25	166.76	48.55
17:24:58	16.18	15.02	1.41	4.12	54.82	21.83	44.22	4.15	12.12	161.39	64.27
17:25:08	15.96	14.38	0.40	4.13	54.73	22.21	40.44	1.14	11.61	153.94	62.48
17:25:18	15.84	13.84	2.02	4.11	55.17	18.48	37.99	5.55	11.29	151.46	50.74
17:25:28	15.75	13.18	1.52	4.14	55.32	15.53	35.56	4.09	11.16	149.26	41.92
17:25:38	15.72	12.49	2.24	4.13	55.50	14.86	33.53	6.00	11.08	149.02	39.90
17:25:48	15.70	12.16	0.80	4.11	55.54	17.83	32.52	2.14	11.00	148.54	47.69
17:25:58	15.70	12.15	0.80	4.09	55.15	17.79	32.44	2.14	10.93	147.32	47.52
17:26:08	15.73	12.14	2.23	4.01	55.74	12.98	32.62	5.98	10.78	149.77	34.88
17:26:18	15.75	12.12	0.70	4.03	55.82	13.67	32.73	1.88	10.88	150.71	36.89
17:29:00	16.13	13.70	1.36	4.00	24.06	13.94	39.87	3.96	11.64	70.03	40.59
17:29:10	15.90	13.80	0.48	5.00	28.57	21.35	38.37	1.34	13.89	79.45	59.38
17:29:20	15.43	13.98	0.39	5.11	29.92	19.12	35.51	1.00	12.99	76.01	48.58
17:29:30	14.96	14.02	0.18	5.74	29.68	13.45	32.79	0.41	13.44	69.42	31.45
17:29:40	14.63	13.59	0.63	6.09	29.99	12.90	30.12	1.41	13.50	66.44	28.58
17:29:50	14.23	13.31	0.69	5.85	31.45	11.32	27.74	1.44	12.20	65.53	23.58
17:30:00	13.80	13.22	0.67	5.51	33.02	24.29	25.88	1.32	10.79	64.64	47.55
17:30:10	13.66	13.20	1.89	5.32	34.00	17.30	25.32	3.63	10.21	65.24	33.19
17:30:20	13.87	13.14	0.00	5.15	35.47	12.00	25.97	0.00	10.18	70.13	23.72
17:30:30	14.28	13.10	0.00	5.17	36.01	14.34	27.52	0.00	10.85	75.63	30.11

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
17:30:40	14.56	12.90	0.00	5.11	35.92	11.68	28.26	0.00	11.20	78.71	25.59
17:33:36	15.69	14.23	0.00	4.39	25.64	14.38	37.94	0.00	11.71	68.36	38.33
17:33:46	15.65	14.34	0.55	4.29	25.13	5.74	37.94	1.44	11.35	66.49	15.19
17:35:55	15.49	15.36	0.11	4.59	24.47	13.06	39.44	0.29	11.78	62.83	33.52
17:36:11	15.24	14.60	0.79	4.59	24.45	19.10	35.84	1.93	11.26	60.02	46.88
17:36:21	15.20	13.60	0.67	4.62	24.52	17.15	33.16	1.64	11.26	59.77	41.81
17:36:31	15.16	13.18	0.00	4.62	26.15	17.14	31.93	0.00	11.20	63.35	41.51
17:36:40	15.16	12.69	0.00	4.92	27.70	9.47	30.71	0.00	11.90	67.03	22.91
17:36:50	15.14	12.66	0.00	5.25	30.73	9.18	30.55	0.00	12.68	74.16	22.15
17:37:00	14.96	12.72	0.00	5.51	33.73	16.72	29.75	0.00	12.89	78.93	39.13
17:37:10	14.63	12.66	0.38	5.74	32.00	18.95	28.07	0.85	12.72	70.99	42.04
17:37:20	14.28	12.25	0.30	5.59	31.45	17.27	25.71	0.62	11.73	66.01	36.23
17:37:30	13.96	12.35	0.00	5.51	31.27	11.55	24.73	0.00	11.03	62.61	23.13
17:37:40	13.91	12.32	0.00	5.38	30.45	9.32	24.48	0.00	10.69	60.52	18.53
17:37:50	14.02	11.95	0.00	5.12	30.12	10.94	24.14	0.00	10.35	60.83	22.09
17:38:00	14.15	12.02	0.00	4.89	31.03	12.67	24.76	0.00	10.07	63.90	26.09
17:38:10	14.38	11.95	0.12	4.81	31.55	14.61	25.46	0.25	10.25	67.21	31.13
17:38:20	14.74	11.86	0.40	4.73	30.96	14.81	26.74	0.90	10.66	69.82	33.38
17:38:30	15.04	11.52	0.37	4.62	30.02	11.53	27.34	0.87	10.97	71.26	27.37
17:38:40	15.26	11.55	0.00	4.55	28.70	5.63	28.43	0.00	11.20	70.66	13.88
17:38:50	15.40	11.61	0.00	4.48	27.05	11.90	29.32	0.00	11.32	68.31	30.06
17:39:00	15.48	11.66	0.02	4.37	25.85	12.87	29.90	0.04	11.21	66.29	33.02
17:39:10	15.59	11.27	0.52	4.31	25.23	14.54	29.51	1.36	11.28	66.05	38.07
17:39:20	15.68	11.40	0.83	4.40	24.96	14.81	30.35	2.22	11.72	66.45	39.44
17:39:29	15.78	11.06	1.06	4.48	24.98	11.67	30.04	2.88	12.18	67.84	31.69
17:39:39	15.74	11.20	0.67	4.53	24.93	7.51	30.14	1.79	12.18	67.11	20.20
17:39:49	15.60	11.23	0.00	4.52	24.71	8.80	29.48	0.00	11.88	64.87	23.10

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBEk 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
17:39:59	15.47	11.28	0.00	4.51	24.80	13.86	28.87	0.00	11.54	63.45	35.47
17:40:09	15.38	11.53	0.12	4.54	24.89	20.41	29.02	0.29	11.43	62.67	51.38
17:40:19	15.37	11.55	0.51	4.57	24.74	21.61	29.04	1.27	11.50	62.19	54.32
17:40:29	15.35	11.52	0.65	4.54	24.46	11.52	28.82	1.62	11.37	61.20	28.82
17:40:39	15.33	11.04	0.15	4.49	24.52	9.18	27.55	0.38	11.20	61.16	22.91
17:40:49	15.32	11.29	0.00	4.48	24.65	9.17	28.11	0.00	11.16	61.36	22.84
17:40:59	15.33	11.12	0.00	4.50	24.44	15.48	27.78	0.00	11.25	61.03	38.67
17:41:09	15.37	11.24	0.08	4.49	24.14	13.77	28.27	0.21	11.27	60.69	34.61
17:41:19	15.36	11.32	0.23	4.45	23.87	11.51	28.43	0.57	11.17	59.93	28.88
17:41:29	15.37	11.25	1.08	4.41	23.97	7.83	28.26	2.72	11.07	60.19	19.67
17:41:39	15.39	11.16	0.86	4.45	23.61	10.13	28.13	2.16	11.22	59.52	25.53
17:41:49	15.43	11.30	0.18	4.43	23.22	12.44	28.74	0.45	11.25	59.05	31.63
17:41:59	15.43	11.83	0.00	4.38	22.95	12.87	30.04	0.00	11.12	58.27	32.69
17:42:09	15.43	11.53	0.28	4.34	22.61	11.54	29.30	0.71	11.05	57.48	29.33
17:42:18	15.43	11.35	0.39	4.31	22.42	13.87	28.83	0.98	10.95	56.96	35.24
17:42:28	15.50	11.54	1.01	4.30	22.48	13.39	29.73	2.60	11.07	57.93	34.51
17:42:38	15.51	11.31	1.50	4.38	22.36	10.18	29.16	3.87	11.29	57.64	26.25
17:42:48	15.56	11.66	1.09	4.50	22.63	10.59	30.33	2.84	11.69	58.86	27.54
17:42:58	15.49	11.73	0.60	4.65	23.16	13.78	30.14	1.54	11.94	59.49	35.40
17:43:08	15.33	11.37	0.29	4.81	23.90	13.44	28.38	0.72	12.02	59.68	33.55
17:43:18	15.12	11.36	0.89	4.92	23.74	5.49	27.33	2.13	11.84	57.11	13.21
17:43:28	14.89	11.73	0.68	4.87	23.23	4.15	27.13	1.58	11.25	53.69	9.59
17:43:38	14.68	11.53	1.19	4.74	23.62	6.28	25.76	2.67	10.59	52.77	14.03
17:43:48	14.53	11.43	1.00	4.79	23.22	12.39	24.94	2.19	10.44	50.66	27.04
17:43:58	14.60	11.82	0.39	4.65	22.45	13.47	26.09	0.87	10.27	49.57	29.75
17:44:08	14.66	11.49	0.08	4.41	22.14	14.18	25.61	0.18	9.84	49.34	31.61
17:44:18	14.82	11.01	0.70	4.29	21.94	14.83	25.17	1.60	9.82	50.17	33.90

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----CORRECTED TO 7% OXYGEN----				
17:44:28	15.07	11.34	1.50	4.25	21.97	9.59	27.03	3.59	10.13	52.35	22.85
17:44:38	15.33	11.76	1.60	4.23	22.98	6.86	29.32	3.99	10.54	57.30	17.11
17:44:48	15.49	11.44	1.70	4.50	22.89	10.77	29.38	4.36	11.57	58.80	27.65
17:44:58	15.51	11.69	1.10	4.86	25.84	11.73	30.15	2.83	12.53	66.61	30.25
17:45:07	15.43	11.50	0.29	5.20	28.87	9.89	29.26	0.74	13.23	73.43	25.15
17:45:17	15.10	11.26	0.00	5.73	29.36	11.45	27.01	0.00	13.75	70.43	27.46
17:45:27	14.77	11.50	0.85	6.39	28.51	7.91	26.06	1.92	14.49	64.62	17.92
17:45:37	14.30	11.68	0.20	6.67	27.26	4.91	24.61	0.42	14.05	57.42	10.35
17:45:47	13.79	11.61	0.76	6.55	25.50	9.73	22.70	1.48	12.80	49.84	19.01
17:45:57	13.38	11.41	0.22	6.16	24.15	11.81	21.09	0.41	11.39	44.65	21.83
17:46:07	13.23	11.44	0.00	5.63	23.61	11.13	20.73	0.00	10.21	42.80	20.17
17:46:17	13.47	11.34	0.00	5.28	23.39	9.98	21.20	0.00	9.87	43.75	18.67
17:46:27	13.88	11.19	0.00	5.10	23.16	6.70	22.17	0.00	10.11	45.88	13.26
17:46:37	14.43	11.11	0.32	4.99	22.30	3.45	23.87	0.68	10.73	47.91	7.42
17:46:47	14.82	11.11	0.46	4.84	21.27	8.39	25.38	1.06	11.07	48.60	19.16
17:46:57	15.05	11.11	0.85	4.69	20.71	13.96	26.40	2.02	11.13	49.19	33.16
17:47:07	15.21	10.67	0.35	4.62	20.06	13.75	26.05	0.86	11.27	48.98	33.57
17:47:17	15.39	10.98	0.00	4.53	19.92	9.62	27.71	0.00	11.43	50.28	24.28
17:47:27	15.53	10.83	0.61	4.49	19.84	9.20	28.03	1.58	11.61	51.35	23.80
17:47:37	15.62	10.91	1.32	4.47	19.66	7.77	28.73	3.48	11.77	51.77	20.47
17:47:47	15.67	11.08	1.41	4.41	19.42	8.23	29.46	3.74	11.72	51.60	21.88
17:47:56	15.70	11.28	1.14	4.34	19.25	12.03	30.16	3.04	11.61	51.46	32.17
17:48:06	15.72	11.29	0.92	4.27	19.48	9.74	30.30	2.46	11.47	52.28	26.13
17:48:16	15.79	11.29	0.28	4.24	20.23	3.57	30.69	0.77	11.52	55.00	9.72
17:48:26	15.83	11.56	0.18	4.34	20.40	2.70	31.72	0.50	11.90	55.94	7.39
17:48:36	15.88	11.73	0.77	4.52	20.14	7.07	32.48	2.14	12.51	55.77	19.58
17:48:46	15.78	11.62	1.32	4.55	19.91	9.19	31.53	3.58	12.34	54.04	24.95

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
17:48:56	15.60	11.64	1.07	4.52	19.67	14.09	30.56	2.81	11.88	51.65	36.98
17:49:06	15.42	11.47	0.34	4.48	19.42	18.16	29.12	0.87	11.38	49.27	46.08
17:49:16	15.33	11.68	0.00	4.42	19.60	15.12	29.15	0.00	11.02	48.90	37.72
17:49:26	15.33	11.82	0.00	4.40	19.81	7.93	29.53	0.00	10.98	49.48	19.82
17:49:36	15.37	11.59	0.00	4.42	19.71	3.57	29.17	0.00	11.13	49.59	8.98
17:49:46	15.43	11.51	0.65	4.38	19.47	8.55	29.24	1.65	11.12	49.48	21.71
17:49:56	15.40	11.60	0.79	4.31	19.05	12.07	29.31	2.00	10.91	48.15	30.52
17:50:06	15.43	11.66	0.79	4.18	19.56	11.13	29.63	2.02	10.61	49.69	28.27
17:50:16	15.46	11.43	0.04	4.30	18.83	13.94	29.22	0.09	10.99	48.15	35.65
17:50:26	15.54	11.67	0.00	4.14	18.98	16.15	30.26	0.00	10.73	49.23	41.89
17:50:36	15.57	11.43	0.00	4.07	20.11	13.25	29.78	0.00	10.61	52.41	34.53
17:50:45	15.63	11.62	0.47	4.37	20.63	9.32	30.66	1.25	11.53	54.44	24.61
17:50:55	15.71	11.50	0.81	4.60	20.83	8.62	30.81	2.18	12.32	55.84	23.10
17:51:05	15.55	11.49	0.58	4.72	20.75	11.13	29.85	1.50	12.26	53.90	28.92
17:51:15	15.25	11.38	0.03	4.76	20.63	11.79	28.00	0.09	11.70	50.75	29.01
17:51:25	14.96	11.08	0.00	4.72	20.98	4.49	25.91	0.00	11.04	49.08	10.50
17:51:35	14.79	11.44	0.00	4.81	20.65	-2.22	26.02	0.00	10.93	46.97	-5.05
17:51:45	14.73	11.46	0.27	4.74	21.13	6.13	25.83	0.60	10.68	47.61	13.82
17:51:55	14.70	11.46	0.45	4.78	22.46	7.27	25.68	1.00	10.71	50.33	16.29
17:52:05	14.69	11.44	0.63	5.07	24.14	11.76	25.61	1.41	11.35	54.02	26.33
17:52:15	14.61	11.56	0.00	5.35	25.99	12.84	25.56	0.00	11.81	57.44	28.38
17:52:25	14.55	11.74	0.00	5.85	26.23	9.07	25.68	0.00	12.81	57.39	19.85
17:52:35	14.34	11.72	0.00	6.16	25.36	2.38	24.84	0.00	13.06	53.74	5.05
17:52:45	13.98	12.00	0.04	6.30	23.59	6.01	24.08	0.09	12.65	47.35	12.07
17:52:55	13.66	11.95	0.53	5.96	22.40	14.31	22.92	1.02	11.43	42.98	27.46
17:53:05	13.49	11.82	0.04	5.53	22.01	16.35	22.17	0.08	10.38	41.28	30.67
17:53:15	13.60	11.63	0.07	5.24	22.21	13.58	22.13	0.12	9.98	42.29	25.85

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
17:53:25	13.98	11.92	0.00	5.15	22.32	7.69	23.93	0.00	10.34	44.83	15.45
17:53:34	14.43	11.23	0.00	5.10	22.19	3.25	24.11	0.00	10.96	47.66	6.97
17:53:44	14.73	11.39	0.00	5.02	21.86	10.32	25.65	0.00	11.30	49.22	23.25
17:53:54	14.94	11.27	0.01	4.92	22.17	14.15	26.27	0.03	11.48	51.70	32.99
17:54:04	15.02	11.55	0.38	4.93	22.63	17.74	27.31	0.91	11.65	53.52	41.94
17:54:14	15.16	11.78	0.30	4.91	22.97	16.21	28.51	0.72	11.88	55.58	39.23
17:54:24	15.20	11.70	0.00	4.89	22.64	7.97	28.55	0.00	11.93	55.23	19.46
17:54:34	15.21	11.46	0.00	4.83	21.99	3.02	28.00	0.00	11.80	53.73	7.37
17:54:44	15.22	11.52	0.00	4.72	21.73	1.15	28.17	0.00	11.54	53.14	2.82
17:54:54	15.25	11.60	0.00	4.77	21.22	11.33	28.56	0.00	11.74	52.24	27.90
17:55:04	15.30	11.78	0.40	4.78	21.58	16.02	29.25	0.99	11.87	53.60	39.80
17:55:14	15.31	11.45	0.53	4.89	21.72	12.44	28.48	1.32	12.17	54.03	30.96
17:55:24	15.23	11.83	0.17	4.89	21.80	10.68	28.99	0.41	12.00	53.42	26.17
17:55:34	15.11	11.66	0.00	4.90	21.52	9.21	27.99	0.00	11.77	51.66	22.12
17:55:44	14.99	11.34	0.00	4.82	20.90	10.55	26.67	0.00	11.34	49.17	24.82
17:55:54	14.97	11.45	0.00	4.63	21.31	15.79	26.81	0.00	10.83	49.92	36.99
17:56:04	15.01	11.88	0.23	4.64	21.62	17.26	28.03	0.53	10.95	50.98	40.70
17:56:14	15.11	11.41	0.24	4.70	21.48	9.76	27.39	0.58	11.28	51.56	23.42
17:56:23	15.22	11.57	0.13	4.67	21.33	5.82	28.33	0.32	11.44	52.23	14.26
17:56:33	15.21	11.49	0.00	4.65	21.02	7.35	28.06	0.00	11.35	51.33	17.94
17:56:43	15.19	11.46	0.00	4.59	20.55	2.61	27.89	0.00	11.16	49.99	6.34
17:56:53	15.20	11.25	0.00	4.52	20.06	12.66	27.43	0.00	11.02	48.91	30.85
17:57:03	15.23	11.16	0.00	4.44	19.95	17.92	27.36	0.00	10.89	48.90	43.94
17:57:13	15.29	11.17	0.20	4.49	19.99	12.21	27.70	0.49	11.12	49.54	30.27
17:57:23	15.38	11.21	0.75	4.62	20.12	9.83	28.24	1.89	11.65	50.69	24.77
17:57:33	15.38	11.08	1.19	4.77	20.51	11.82	27.87	3.00	11.99	51.60	29.74
17:57:43	15.24	10.96	0.32	4.88	20.91	7.24	26.94	0.80	12.00	51.36	17.78

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
17:57:53	15.02	11.02	0.00	4.96	20.72	10.05	26.04	0.00	11.73	48.96	23.75
17:58:03	14.82	10.86	0.00	4.96	20.66	14.51	24.82	0.00	11.33	47.19	33.15
17:58:13	14.59	10.89	0.00	4.95	20.59	13.50	24.00	0.00	10.91	45.39	29.76
17:58:23	14.55	10.96	0.00	4.90	20.64	16.29	23.97	0.00	10.72	45.15	35.64
17:58:33	14.55	10.86	0.00	4.81	20.81	10.50	23.76	0.00	10.52	45.51	22.97
17:58:43	14.56	10.71	0.00	4.76	20.97	6.58	23.50	0.00	10.44	46.00	14.42
17:58:53	14.64	10.96	0.00	4.72	20.73	5.87	24.36	0.00	10.49	46.07	13.05
17:59:03	14.74	11.01	0.00	4.52	20.94	13.31	24.84	0.00	10.20	47.25	30.04
17:59:12	14.81	11.22	0.08	4.68	21.47	16.68	25.61	0.18	10.69	49.03	38.08
17:59:22	14.97	11.13	0.13	5.04	23.46	11.80	26.09	0.30	11.81	55.01	27.67
17:59:32	15.05	11.01	0.05	5.22	25.38	3.37	26.16	0.11	12.42	60.32	8.01
17:59:42	14.92	11.14	0.00	5.41	25.63	12.46	25.91	0.00	12.57	59.62	28.98
17:59:52	14.68	11.46	0.00	5.52	24.27	9.65	25.58	0.00	12.33	54.20	21.54
18:00:02	14.42	11.31	0.12	5.17	24.17	14.97	24.28	0.25	11.10	51.86	32.13
18:00:12	14.24	10.96	0.40	5.01	23.37	17.13	22.86	0.85	10.46	48.76	35.74
18:00:22	14.36	11.00	0.84	4.82	22.99	16.72	23.37	1.79	10.24	48.88	35.55
18:00:32	14.60	11.32	0.30	4.69	23.33	10.71	24.98	0.67	10.35	51.50	23.64
18:00:42	14.81	11.39	0.00	4.69	23.54	5.25	25.99	0.00	10.69	53.72	11.99
18:00:52	14.99	11.48	0.00	4.62	23.82	10.83	27.01	0.00	10.86	56.04	25.47
18:01:02	15.07	11.41	0.00	4.61	23.58	5.26	27.19	0.00	10.98	56.20	12.54
18:01:12	15.14	11.20	0.03	4.57	23.18	12.81	27.04	0.08	11.05	55.98	30.94
18:01:22	15.17	11.45	0.52	4.50	22.96	12.70	27.77	1.26	10.92	55.68	30.80
18:01:32	15.22	10.95	0.44	4.43	22.93	9.10	26.80	1.07	10.84	56.13	22.27
18:01:42	15.24	11.28	0.14	4.37	22.94	6.89	27.69	0.34	10.74	56.31	16.90
18:01:52	15.33	11.26	0.00	4.33	23.30	9.24	28.10	0.00	10.79	58.14	23.05
18:02:01	15.38	11.33	0.00	4.30	23.31	14.82	28.54	0.00	10.82	58.68	37.31
18:02:11	15.43	11.73	0.26	4.25	23.03	21.54	29.80	0.65	10.80	58.54	54.74

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN-----				
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
18:02:21	15.51	11.60	0.66	4.22	22.68	11.11	29.91	1.70	10.89	58.46	28.63
18:02:31	15.54	11.34	0.62	4.23	22.28	11.10	29.41	1.60	10.96	57.78	28.79
18:02:41	15.58	11.48	0.24	4.20	22.06	9.16	30.00	0.64	10.98	57.64	23.92
18:02:51	15.58	11.06	0.09	4.18	22.16	6.82	28.92	0.23	10.93	57.95	17.84
18:03:01	15.61	11.21	0.00	4.20	22.28	17.10	29.42	0.00	11.02	58.49	44.91
18:03:11	15.63	11.65	0.00	4.18	22.34	14.78	30.72	0.00	11.02	58.87	38.94
18:03:21	15.65	11.39	0.46	4.16	22.42	14.79	30.14	1.21	11.01	59.34	39.14
18:03:31	15.65	11.39	0.47	4.12	22.34	9.15	30.14	1.24	10.89	59.12	24.22
18:03:41	15.65	11.28	0.74	4.09	22.36	6.84	29.86	1.95	10.83	59.21	18.10
18:03:51	15.68	11.73	0.64	4.07	22.55	6.83	31.22	1.72	10.83	60.04	18.18
18:04:01	15.70	11.69	0.19	4.08	22.53	14.79	31.27	0.50	10.91	60.26	39.55
18:04:11	15.73	11.27	0.37	4.02	22.62	9.15	30.28	0.98	10.81	60.78	24.58
18:04:21	15.75	11.57	0.12	4.01	22.64	11.09	31.19	0.33	10.82	61.05	29.92
18:04:31	15.77	11.84	0.52	3.99	22.51	14.77	32.11	1.42	10.82	61.03	40.05
18:04:41	15.78	11.66	1.07	3.93	22.94	11.15	31.68	2.90	10.67	62.35	30.30
18:04:50	15.81	11.47	0.76	4.09	22.92	9.20	31.33	2.08	11.18	62.59	25.13
18:05:00	15.86	11.55	0.93	4.22	23.06	18.80	31.84	2.56	11.63	63.55	51.80
18:05:10	15.75	11.54	0.62	4.37	23.12	14.92	31.18	1.68	11.81	62.44	40.30
18:05:20	15.58	11.76	0.20	4.45	23.30	7.12	30.69	0.51	11.62	60.82	18.59
18:05:30	15.36	11.52	0.00	4.48	23.47	10.90	28.92	0.00	11.25	58.93	27.37
18:05:40	15.18	11.63	1.00	4.45	23.09	7.05	28.25	2.42	10.82	56.10	17.12
18:05:50	15.02	11.61	0.85	4.28	23.55	6.83	27.45	2.01	10.12	55.70	16.16
18:06:00	15.03	11.38	0.23	4.20	24.00	10.82	26.92	0.55	9.93	56.79	25.60
18:06:10	15.08	11.48	0.03	4.20	24.96	11.08	27.40	0.06	10.02	59.59	26.46
18:06:20	15.27	11.26	0.00	4.20	26.55	12.64	27.80	0.00	10.38	65.56	31.20
18:06:30	15.36	11.62	0.21	4.64	27.79	11.23	29.17	0.52	11.65	69.76	28.20
18:06:40	15.44	11.77	0.90	4.81	30.14	9.31	29.94	2.28	12.23	76.68	23.68

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
18:06:50	15.28	11.86	0.95	4.84	32.99	7.05	29.33	2.36	11.96	81.58	17.42
18:07:00	15.01	11.66	0.78	4.85	35.80	12.19	27.50	1.83	11.44	84.44	28.74
18:07:10	14.91	11.62	0.63	4.98	37.55	14.56	26.99	1.45	11.56	87.18	33.81
18:07:20	14.88	11.88	0.00	4.86	39.44	20.79	27.44	0.00	11.21	91.07	48.01
18:07:30	14.82	11.84	0.00	4.75	40.58	15.58	27.10	0.00	10.87	92.84	35.65
18:07:40	14.90	11.76	0.54	4.69	41.21	3.93	27.26	1.25	10.88	95.49	9.10
18:07:49	14.99	11.97	1.06	4.64	42.83	4.54	28.17	2.50	10.91	100.75	10.67
18:07:59	15.07	11.90	0.96	4.65	43.33	10.23	28.39	2.29	11.10	103.36	24.39
18:08:09	15.19	11.78	0.62	4.58	42.63	12.54	28.66	1.52	11.16	103.76	30.52
18:08:19	15.23	11.50	0.00	4.37	41.15	7.69	28.17	0.00	10.71	100.82	18.85
18:08:29	15.26	11.42	0.00	4.10	39.44	10.40	28.13	0.00	10.11	97.16	25.62
18:08:39	15.41	11.44	0.32	3.96	37.69	5.88	28.95	0.82	10.01	95.37	14.89
18:08:49	15.72	11.72	0.89	3.88	36.40	2.77	31.44	2.39	10.40	97.63	7.43
18:08:59	15.97	11.42	1.09	3.84	35.41	14.47	32.20	3.07	10.83	99.84	40.80
18:09:09	16.20	11.55	1.06	3.81	34.59	13.58	34.15	3.12	11.26	102.24	40.14
18:09:19	16.30	11.55	0.57	3.92	33.04	9.85	34.88	1.72	11.83	99.83	29.76
18:09:29	16.35	11.43	0.37	4.05	31.35	7.27	34.93	1.13	12.37	95.79	22.23
18:09:39	16.27	11.19	0.43	4.09	29.81	-1.69	33.61	1.28	12.29	89.56	-5.07
18:09:49	16.11	11.38	1.28	4.10	28.34	1.05	33.02	3.72	11.88	82.25	3.06
18:09:59	15.92	11.32	1.27	4.06	27.30	2.35	31.57	3.54	11.31	76.14	6.55
18:10:09	15.88	11.42	1.08	4.02	26.35	13.82	31.60	2.98	11.13	72.90	38.22
18:10:19	15.88	11.24	0.69	4.01	25.38	15.05	31.10	1.91	11.10	70.22	41.64
18:10:29	15.88	11.31	0.47	3.97	24.80	7.26	31.29	1.31	10.98	68.62	20.08
18:10:38	15.95	11.66	0.38	3.94	24.30	4.89	32.73	1.08	11.07	68.21	13.72
18:10:48	15.94	11.38	0.80	3.97	23.70	4.89	31.89	2.24	11.11	66.38	13.71
18:10:58	15.94	11.17	1.60	3.96	23.16	-0.17	31.31	4.48	11.09	64.94	-0.48
18:11:08	15.94	11.36	1.50	3.95	22.77	8.99	31.85	4.20	11.06	63.82	25.21

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
18:11:18	15.94	11.24	0.69	3.92	22.60	14.26	31.52	1.94	10.99	63.40	40.01
18:11:28	15.95	11.51	0.60	3.89	22.49	13.39	32.33	1.70	10.94	63.19	37.62
18:11:38	15.96	11.35	0.60	3.87	22.14	7.06	31.97	1.68	10.89	62.36	19.88
18:11:48	16.00	11.55	1.29	3.84	21.78	6.31	32.74	3.65	10.88	61.75	17.88
18:11:58	16.03	11.46	1.28	3.79	21.78	3.68	32.70	3.66	10.82	62.13	10.49
18:12:08	16.00	11.71	1.81	3.81	21.64	7.12	33.27	5.15	10.83	61.44	20.23
18:12:18	16.10	11.54	0.88	3.80	21.55	11.69	33.42	2.56	11.01	62.39	33.86
18:12:28	16.09	11.35	0.38	3.77	21.31	10.31	32.81	1.10	10.91	61.60	29.80
18:12:38	16.11	11.46	0.68	3.75	20.99	6.21	33.25	1.99	10.87	60.91	18.03
18:12:48	16.10	11.70	1.40	3.74	20.72	0.31	33.91	4.06	10.83	60.03	0.90
18:12:58	16.16	11.67	1.69	3.74	20.60	2.62	34.21	4.96	10.95	60.37	7.67
18:13:08	16.17	11.40	1.09	3.74	20.44	10.14	33.50	3.21	10.98	60.06	29.79
18:13:18	16.18	11.28	0.48	3.73	20.39	15.65	33.21	1.43	10.99	60.04	46.09
18:13:27	16.17	11.60	0.48	3.73	20.32	13.23	34.12	1.41	10.98	59.75	38.89
18:13:37	16.18	11.42	0.59	3.72	20.26	7.11	33.67	1.74	10.95	59.72	20.96
18:13:47	16.17	11.39	1.48	3.70	20.02	2.05	33.51	4.35	10.88	58.87	6.04
18:13:57	16.18	11.29	1.40	3.68	19.63	7.14	33.26	4.14	10.86	57.83	21.05
18:14:07	16.19	11.21	0.81	3.66	19.25	14.85	33.06	2.40	10.79	56.79	43.82
18:14:17	16.20	11.12	1.10	3.63	18.98	15.70	32.87	3.24	10.71	56.10	46.39
18:14:27	16.24	10.99	0.82	3.58	18.99	16.22	32.80	2.44	10.67	56.65	48.40
18:14:37	16.28	11.14	0.71	3.60	18.85	15.73	33.48	2.13	10.83	56.68	47.30
18:14:47	16.32	11.02	1.18	3.59	18.87	8.84	33.47	3.57	10.90	57.30	26.86
18:14:57	16.32	10.88	1.10	3.55	18.92	4.90	33.03	3.33	10.77	57.47	14.89
18:15:07	16.34	10.72	1.66	3.50	18.82	8.55	32.63	5.05	10.67	57.32	26.03
18:15:17	16.34	10.91	0.95	3.45	19.04	13.26	33.25	2.89	10.51	58.06	40.42
18:15:27	16.40	10.84	0.43	3.48	19.65	7.68	33.48	1.32	10.75	60.65	23.71
18:15:37	16.45	10.60	0.47	3.55	21.50	6.21	33.12	1.46	11.10	67.23	19.43

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
18:15:47	16.46	10.85	0.58	4.22	22.99	5.33	33.97	1.82	13.20	71.98	16.69
18:15:57	16.38	10.67	1.41	4.89	24.40	2.36	32.82	4.34	15.04	75.02	7.26
18:16:07	16.03	11.06	1.41	5.11	25.11	10.41	31.54	4.03	14.56	71.60	29.69
18:16:16	15.38	11.05	2.02	5.18	24.23	12.80	27.79	5.09	13.02	60.96	32.21
18:16:26	14.85	10.74	1.49	5.10	22.45	12.17	24.67	3.42	11.71	51.56	27.96
18:16:36	14.58	10.76	0.96	4.71	22.04	13.78	23.67	2.12	10.37	48.47	30.30
18:16:46	14.59	10.78	1.42	4.25	21.81	8.73	23.76	3.14	9.36	48.07	19.23
18:16:56	14.88	10.92	1.77	4.01	21.22	10.01	25.22	4.10	9.27	49.00	23.13
18:17:06	15.44	10.90	2.07	3.90	20.76	11.94	27.74	5.26	9.91	52.83	30.37
18:17:16	15.89	10.75	2.29	3.78	20.50	15.41	29.83	6.34	10.48	56.91	42.77
18:17:26	16.20	10.71	1.47	3.69	20.11	19.37	31.64	4.34	10.90	59.41	57.24
18:17:36	16.38	10.78	0.88	3.60	19.68	13.23	33.12	2.70	11.05	60.46	40.65
18:17:46	16.50	10.84	0.37	3.52	19.38	9.16	34.22	1.16	11.12	61.19	28.91
18:17:56	16.61	10.91	0.87	3.46	19.26	3.88	35.34	2.82	11.22	62.38	12.58
18:18:06	16.65	10.62	1.81	3.43	19.13	0.11	34.75	5.94	11.21	62.61	0.37
18:18:16	16.73	10.44	1.35	3.40	18.98	7.19	34.82	4.51	11.32	63.27	23.99
18:18:26	16.77	10.44	1.27	3.42	18.81	12.04	35.15	4.28	11.52	63.32	40.52
18:18:36	16.82	10.60	0.00	3.58	19.15	11.87	36.07	0.00	12.19	65.18	40.41
18:18:46	16.78	10.37	1.63	3.73	19.33	8.16	35.00	5.51	12.58	65.22	27.54
18:18:56	16.68	10.52	2.04	3.80	19.79	3.46	34.66	6.71	12.51	65.22	11.42
18:19:05	16.43	10.61	0.72	3.99	20.16	2.96	33.01	2.24	12.41	62.75	9.22
18:19:15	16.27	10.50	1.17	4.14	20.48	5.70	31.51	3.50	12.41	61.44	17.09
18:19:25	16.05	10.62	0.93	4.21	20.70	12.08	30.43	2.65	12.07	59.32	34.63
18:19:35	15.81	10.63	0.71	4.24	20.66	11.81	29.01	1.94	11.57	56.39	32.24
18:19:45	15.62	10.72	0.38	4.22	20.25	9.59	28.22	1.00	11.12	53.28	25.25
18:19:55	15.49	10.65	0.42	4.10	19.67	3.08	27.36	1.08	10.54	50.53	7.92
18:20:05	15.46	11.22	0.08	3.88	19.09	0.44	28.66	0.20	9.91	48.78	1.13

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 12, 1991

							----------CORRECTED TO 7% OXYGEN-----				
TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/12-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
18:20:15	15.54	10.83	1.30	3.58	18.72	6.20	28.10	3.38	9.30	48.55	16.09
18:20:25	15.73	10.80	1.50	3.38	18.75	11.40	29.06	4.03	9.09	50.44	30.68
18:20:35	16.08	10.82	0.98	3.30	18.87	10.55	31.18	2.83	9.52	54.38	30.39
18:20:45	16.44	10.71	1.15	3.27	17.26	10.57	33.36	3.57	10.18	53.79	32.93
18:20:55	16.73	10.54	1.08	3.03	15.94	6.84	35.11	3.59	10.11	53.08	22.77
(pre & post	15.51	10.09	0.61	4.39	60.81	10.29	25.74	1.73	11.33	155.66	26.41
port change	15.46	11.55	0.71	4.40	29.37	10.69	29.87	1.95	11.25	76.58	27.38
averages)											
FINAL AVE	15.47	11.12	0.68	4.40	38.75	10.58	28.64	1.89	11.27	100.18	27.09
cv	0.05	0.25	0.88	0.14	0.52	0.45	0.22	0.92	0.07	0.50	0.44

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/13-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----CORRECTED TO 7% OXYGEN----				
09:45:04	15.47	4.29	1.33	3.90	36.77	6.96	10.97	3.41	9.99	94.11	17.82
09:46:04	15.50	4.24	1.70	4.14	34.85	10.43	10.92	4.37	10.65	89.74	26.86
09:47:03	15.09	3.67	1.60	4.07	33.39	7.10	8.78	3.82	9.74	79.82	16.97
09:48:03	15.75	4.03	2.03	3.46	30.86	7.65	10.89	5.49	9.35	83.36	20.68
09:49:03	15.79	3.92	1.80	4.23	34.75	7.49	10.66	4.89	11.50	94.43	20.35
09:50:03	13.65	3.91	0.66	5.89	41.57	6.00	7.49	1.27	11.28	79.67	11.50
09:51:03	15.04	3.74	1.73	4.06	30.45	6.97	8.87	4.11	9.63	72.24	16.54
09:52:03	16.61	3.65	2.01	3.84	26.59	7.03	11.82	6.51	12.43	86.06	22.75
09:53:03	14.82	3.52	1.47	4.65	30.15	7.75	8.03	3.36	10.64	68.89	17.71
09:54:03	15.42	3.39	1.74	3.50	23.54	10.69	8.60	4.41	8.88	59.70	27.11
09:55:03	15.95	3.72	1.71	3.90	28.13	7.80	10.45	4.80	10.95	78.96	21.90
09:56:03	14.55	4.02	0.76	5.38	35.56	8.69	8.80	1.66	11.79	77.90	19.04
09:57:03	14.30	3.48	1.26	4.18	29.10	6.69	7.33	2.65	8.80	61.30	14.09
09:58:03	16.45	3.36	2.16	3.57	24.25	11.45	10.50	6.74	11.15	75.73	35.77
09:59:03	15.31	3.84	1.72	4.44	29.46	8.49	9.54	4.28	11.06	73.29	21.13
10:05:56	14.43	5.05	0.62	5.21	72.00	6.38	10.85	1.32	11.21	154.74	13.71
10:06:56	14.46	5.00	0.66	5.26	72.45	11.35	10.78	1.42	11.35	156.29	24.49
10:07:56	14.48	4.95	0.56	5.18	65.15	9.04	10.73	1.22	11.22	141.10	19.59
10:08:56	14.60	4.83	0.86	5.06	55.50	7.65	10.66	1.90	11.17	122.55	16.88
10:09:56	14.78	4.87	0.78	4.90	50.32	6.87	11.07	1.77	11.13	114.31	15.62
10:10:56	15.02	4.53	1.03	4.97	50.16	8.89	10.71	2.45	11.75	118.58	21.01
10:11:56	14.46	4.76	1.48	5.11	53.37	6.57	10.28	3.19	11.02	115.23	14.19
10:12:56	14.48	4.67	0.67	5.27	51.75	11.74	10.10	1.45	11.41	112.06	25.43
10:13:56	14.26	4.67	0.98	4.45	46.63	12.19	9.77	2.05	9.31	97.63	25.52
10:14:56	15.44	4.50	1.37	4.62	48.16	9.86	11.46	3.48	11.75	122.57	25.08
10:15:56	13.98	4.68	0.78	4.76	47.24	11.38	9.41	1.56	9.57	94.87	22.85
10:16:55	15.68	4.56	1.84	3.91	43.43	6.58	12.15	4.90	10.42	115.69	17.54

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

							CORRECTED TO 7% OXYGEN				
TIME 9/13-OUT	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
10:17:55	14.86	4.69	1.11	4.97	47.27	6.38	10.78	2.55	11.43	108.69	14.67
10:18:55	15.04	4.53	1.57	4.06	42.80	7.14	10.74	3.72	9.63	101.55	16.95
10:19:55	14.65	4.64	1.48	5.99	54.35	9.56	10.33	3.30	13.32	120.93	21.28
10:20:55	13.93	4.86	1.06	5.18	52.86	8.80	9.69	2.10	10.33	105.47	17.56
10:21:55	15.64	4.66	1.82	4.45	54.30	10.11	12.30	4.82	11.76	143.46	26.71
10:22:55	15.87	4.44	2.00	4.49	51.32	8.21	12.28	5.54	12.42	141.92	22.70
10:23:55	14.99	4.83	2.08	4.74	55.40	5.85	11.36	4.88	11.15	130.29	13.75
10:24:55	15.93	4.80	1.84	3.68	49.01	9.18	13.44	5.14	10.29	137.13	25.68
10:25:55	16.25	4.65	1.88	4.33	56.62	6.52	13.88	5.60	12.95	169.12	19.48
10:26:55	14.32	5.05	1.15	5.48	67.83	7.52	10.67	2.42	11.58	143.21	15.88
10:27:55	14.39	5.20	0.83	5.39	77.15	8.26	11.09	1.76	11.50	164.63	17.63
10:28:55	15.09	5.38	1.31	4.79	91.67	11.37	12.87	3.14	11.46	219.28	27.21
10:29:55	15.34	5.85	1.11	4.64	96.90	9.72	14.64	2.79	11.60	242.41	24.31
10:30:54	15.51	6.20	1.33	4.46	97.11	8.73	15.99	3.42	11.50	250.31	22.49
10:31:54	15.65	6.63	1.26	4.32	-73.25	6.86	17.55	3.35	11.44	-194.00	18.17
10:32:54	15.82	6.47	1.44	4.12	43.46	7.90	17.71	3.94	11.28	118.86	21.61
10:33:54	15.55	6.66	1.47	5.27	90.79	8.53	17.30	3.83	13.68	235.92	22.15
10:34:54	14.19	6.40	1.00	5.10	84.77	8.13	13.26	2.07	10.56	175.51	16.82
10:35:54	15.70	5.74	1.12	4.15	70.66	12.07	15.36	2.99	11.10	189.06	32.28
10:36:54	16.25	5.49	1.37	3.84	55.15	5.78	16.40	4.09	11.47	164.73	17.26
10:37:54	15.51	5.10	1.00	4.83	50.41	11.70	13.15	2.57	12.45	130.10	30.20
10:38:54	15.30	5.19	1.24	3.76	48.87	7.56	12.88	3.07	9.34	121.25	18.75
10:39:54	16.63	4.89	1.57	3.53	47.33	7.62	15.90	5.12	11.48	154.03	24.80
10:40:54	15.61	4.70	1.20	4.97	53.36	8.30	12.35	3.15	13.08	140.29	21.82
10:41:54	14.13	4.83	0.76	4.80	51.97	8.43	9.92	1.55	9.86	106.75	17.32
10:42:54	16.32	4.61	1.46	3.65	40.13	7.60	14.00	4.44	11.06	121.73	23.05
10:43:53	16.06	4.64	1.22	4.43	45.17	5.82	13.32	3.49	12.70	129.66	16.71

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME 9/13-OUT	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	----------CORRECTED TO 7% OXYGEN----- SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
10:44:53	15.15	4.15	1.23	3.84	31.96	10.33	10.02	2.97	9.26	77.21	24.95
10:45:53	16.84	4.05	1.53	3.50	31.43	9.30	13.88	5.26	11.97	107.61	31.83
10:46:53	15.43	3.81	1.03	4.18	34.92	8.41	9.69	2.63	10.63	88.75	21.38
10:47:53	16.02	3.76	1.45	3.31	31.63	8.65	10.72	4.13	9.43	90.14	24.66
10:48:53	16.07	3.74	1.52	5.03	44.03	9.15	10.75	4.39	14.47	126.77	26.35
10:49:53	13.48	4.39	1.33	5.20	49.02	7.44	8.22	2.50	9.74	91.81	13.94
10:50:53	15.83	4.13	1.34	3.92	41.47	8.88	11.31	3.67	10.73	113.58	24.32
10:51:53	16.26	4.84	1.38	3.74	40.25	5.61	14.51	4.13	11.22	120.58	16.82
10:52:53	16.39	5.77	1.19	3.73	42.84	5.75	17.76	3.66	11.49	131.90	17.70
10:53:53	15.47	5.50	1.00	4.33	44.91	11.01	14.07	2.55	11.09	114.98	28.20
10:54:53	15.53	5.32	1.65	4.41	50.79	11.78	13.77	4.27	11.42	131.39	30.48
10:55:53	15.91	5.37	1.71	3.69	43.35	10.77	14.96	4.75	10.27	120.72	29.99
10:56:52	15.60	5.46	0.78	4.48	43.79	10.85	14.31	2.05	11.73	114.79	28.43
10:57:52	15.85	5.22	1.33	3.29	34.57	9.28	14.38	3.65	9.07	95.22	25.57
10:58:52	16.71	4.97	1.44	3.81	43.67	8.60	16.49	4.77	12.63	144.83	28.51
10:59:52	14.90	4.80	1.08	3.91	36.16	11.68	11.12	2.50	9.04	83.74	27.06
11:00:52	16.96	4.52	1.87	3.07	32.88	6.96	15.96	6.60	10.85	116.10	24.56
11:01:52	15.68	4.80	1.27	4.29	41.59	10.98	12.78	3.39	11.43	110.86	29.25
11:02:52	15.20	4.70	1.38	4.17	42.48	7.42	11.47	3.38	10.17	103.61	18.11
11:03:52	15.76	4.46	1.33	3.89	41.25	11.33	12.05	3.59	10.53	111.58	30.64
11:04:52	16.21	4.29	1.45	3.88	40.76	6.82	12.72	4.30	11.50	120.82	20.20
11:05:52	15.48	4.35	1.40	4.15	41.08	9.97	11.17	3.58	10.63	105.34	25.56
11:06:52	15.66	4.17	1.48	3.82	39.59	9.92	11.06	3.93	10.14	105.05	26.31
11:07:52	15.92	3.89	1.49	3.74	40.37	9.08	10.86	4.15	10.45	112.71	25.34
11:08:52	15.93	4.13	1.55	3.71	39.86	8.74	11.55	4.32	10.37	111.53	24.44
11:09:51	15.76	4.51	1.17	4.65	55.33	10.78	12.19	3.18	12.58	149.66	29.15
11:10:51	14.51	4.08	1.16	4.16	40.75	11.14	8.88	2.51	9.04	88.57	24.22

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN-----				
9/13-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
11:11:51	16.57	4.20	1.58	3.80	46.42	10.52	13.49	5.08	12.19	149.06	33.79
11:12:51	14.95	4.23	1.53	4.45	39.86	11.64	9.87	3.57	10.40	93.12	27.20
11:13:51	16.35	3.72	1.98	3.21	27.34	10.30	11.36	6.05	9.81	83.51	31.46
11:14:51	15.95	4.02	1.53	4.45	40.96	8.33	11.28	4.31	12.51	115.08	23.41
11:15:51	14.81	4.11	1.16	3.89	40.43	8.21	9.37	2.65	8.87	92.21	18.72
11:16:51	16.52	4.29	1.74	3.54	39.64	9.58	13.61	5.53	11.25	125.87	30.43
11:17:51	14.78	3.95	0.72	5.52	49.87	10.78	8.97	1.63	12.55	113.30	24.49
11:18:51	14.33	3.78	0.85	4.22	34.05	8.51	7.99	1.79	8.93	72.00	18.00
11:19:51	16.14	3.41	1.18	3.87	33.21	10.06	9.97	3.45	11.31	97.05	29.39
11:20:51	14.69	3.47	0.53	4.85	47.91	10.89	7.77	1.18	10.87	107.30	24.39
11:21:51	14.23	4.27	0.60	4.79	64.37	8.47	8.92	1.26	9.98	134.25	17.66
11:22:50	15.88	4.58	0.85	4.30	60.40	8.95	12.67	2.35	11.91	167.12	24.77
11:23:50	15.01	4.60	0.40	5.13	63.64	8.53	10.86	0.95	12.10	150.24	20.13
11:24:50	14.31	4.68	0.28	4.99	63.53	7.20	9.86	0.59	10.53	133.95	15.18
11:25:50	15.09	4.62	0.58	5.06	64.61	11.47	11.05	1.39	12.10	154.54	27.44
11:26:50	14.12	4.90	0.25	5.85	65.41	7.56	10.04	0.52	11.98	134.01	15.50
11:27:50	14.39	5.00	0.07	5.14	63.97	9.83	10.67	0.15	10.98	136.60	21.00
11:28:50	15.26	5.22	0.26	4.74	62.77	9.15	12.86	0.65	11.68	154.71	22.56
11:29:50	14.73	5.25	0.00	5.25	64.30	6.63	11.82	0.00	11.83	144.81	14.93
11:30:50	14.27	5.22	0.00	4.85	61.68	11.53	10.93	0.00	10.17	129.29	24.16
11:31:50	15.12	5.55	0.42	4.62	63.03	10.61	13.34	1.00	11.12	151.60	25.53
11:32:50	15.07	5.80	0.25	5.08	71.23	10.30	13.82	0.61	12.10	169.72	24.53
11:33:50	13.44	6.32	0.00	5.95	97.06	7.53	11.77	0.00	11.08	180.76	14.03
11:34:50	14.63	6.26	0.43	4.67	80.16	10.78	13.86	0.95	10.35	177.60	23.87
11:35:49	15.13	7.31	0.29	5.05	82.63	8.73	17.62	0.70	12.17	199.22	21.05
11:36:49	13.99	7.97	0.00	5.14	80.94	9.77	16.04	0.00	10.34	162.84	19.66
11:37:49	14.84	9.02	0.26	4.62	74.33	12.93	20.71	0.60	10.61	170.62	29.68

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 15, 1991

TIME 9/13-OUT	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	NOX (ppmV,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
11:38:49	15.14	9.83	0.39	4.58	75.25	15.44	23.69	0.94	11.04	181.48	37.23
11:39:49	14.13	9.06	0.00	6.19	92.88	10.11	18.61	0.00	12.72	190.77	20.76
11:40:49	13.26	7.12	0.00	5.59	85.45	15.21	12.94	0.00	10.18	155.45	27.68
11:41:49	14.90	7.58	0.47	4.73	69.69	13.12	17.56	1.08	10.95	161.39	30.38
11:42:49	15.40	7.94	0.82	4.57	71.75	15.10	20.04	2.07	11.55	181.19	38.14
11:43:49	14.70	11.07	0.34	5.23	73.77	16.25	24.81	0.76	11.73	165.34	36.42
11:44:49	14.12	13.93	0.15	4.89	69.83	21.28	28.57	0.30	10.02	143.21	43.64
11:45:49	14.62	17.64	0.34	5.30	77.86	22.88	39.04	0.76	11.73	172.33	50.63
12:45:53	14.72	3.62	0.50	5.43	56.40	19.77	8.15	1.13	12.23	126.92	44.49
12:46:53	13.42	4.38	0.17	5.09	57.84	22.62	8.14	0.31	9.46	107.45	42.03
12:47:53	15.72	4.74	1.07	4.21	56.43	21.68	12.71	2.87	11.29	151.28	58.13
12:48:53	15.65	4.88	1.14	4.45	58.77	19.82	12.91	3.02	11.77	155.51	52.45
12:49:53	15.39	5.66	1.13	4.29	56.04	21.13	14.29	2.85	10.82	141.38	53.31
12:50:53	15.74	9.64	1.06	4.00	53.21	29.86	25.94	2.87	10.78	143.21	80.36
12:51:53	15.58	12.27	1.12	4.82	61.93	33.07	32.04	2.93	12.57	161.71	86.36
12:52:52	14.71	7.14	1.01	4.49	59.09	24.98	16.05	2.27	10.08	132.74	56.12
12:53:52	15.76	5.24	1.34	3.93	61.75	25.42	14.15	3.62	10.63	166.92	68.72
12:54:52	15.99	6.44	1.20	3.81	59.74	29.73	18.22	3.40	10.78	169.00	84.11
12:55:52	16.00	9.66	1.37	3.78	58.86	38.96	27.39	3.88	10.71	166.99	110.54
12:56:52	16.04	11.06	1.36	3.77	59.77	42.18	31.64	3.90	10.78	170.97	120.67
12:57:52	15.82	10.07	1.12	4.32	66.11	37.55	27.57	3.05	11.83	180.92	102.75
12:58:52	15.66	5.42	1.61	3.62	43.08	26.49	14.38	4.26	9.60	114.31	70.27
12:59:52	16.67	3.32	1.61	3.54	42.90	24.60	10.91	5.28	11.64	140.97	80.84
13:00:52	16.20	8.38	1.39	3.63	44.78	46.00	24.78	4.10	10.72	132.41	136.04
13:01:52	16.61	17.05	1.35	3.31	46.84	76.34	55.25	4.36	10.74	151.81	247.42

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/13-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							-----CORRECTED TO 7% OXYGEN-----				
13:02:52	16.87	15.94	1.16	3.26	43.18	80.94	54.97	4.00	11.24	148.87	279.06
13:03:52	16.52	9.33	1.47	3.69	41.91	42.91	29.61	4.68	11.71	133.05	136.23
13:04:52	15.75	5.61	1.47	4.20	41.23	37.88	15.14	3.96	11.34	111.22	102.18
13:05:51	15.66	4.84	1.72	3.73	39.66	31.70	12.83	4.55	9.89	105.19	84.09
13:06:51	16.86	2.73	1.58	3.32	37.23	25.30	9.38	5.42	11.40	127.98	86.97
13:07:51	16.37	3.89	1.40	3.77	42.16	22.48	11.93	4.30	11.58	129.34	68.96
13:08:51	15.81	5.15	0.96	3.54	38.00	29.36	14.07	2.63	9.67	103.85	80.24
13:09:51	16.99	5.43	1.52	3.08	31.43	24.19	19.31	5.41	10.97	111.77	86.03
13:10:51	16.39	3.63	1.48	3.78	34.51	22.78	11.19	4.58	11.67	106.46	70.28
13:11:51	15.61	3.25	1.70	3.86	39.57	18.92	8.55	4.47	10.15	104.05	49.75
13:12:51	15.43	3.66	2.47	4.88	49.20	22.93	9.30	6.28	12.40	124.99	58.26
13:13:57	15.35	4.22	1.27	4.39	51.35	23.86	10.57	3.19	11.00	128.65	59.78
13:14:57	15.94	6.15	1.08	3.90	56.21	19.55	17.22	3.03	10.92	157.46	54.75
13:15:57	16.38	4.54	1.09	3.46	51.70	19.93	13.95	3.34	10.63	158.94	61.25
13:16:57	16.68	4.96	1.41	3.24	42.68	20.21	16.35	4.66	10.68	140.70	66.62
13:17:57	16.98	3.56	1.42	3.14	43.64	20.22	12.64	5.03	11.16	154.92	71.79
13:18:57	16.47	4.60	1.23	3.51	55.28	17.73	14.45	3.87	11.04	173.57	55.66
13:19:57	15.51	4.42	1.63	4.74	59.82	17.10	11.39	4.22	12.21	154.28	44.10
13:20:56	15.77	3.21	1.61	3.54	44.76	16.38	8.69	4.37	9.58	121.24	44.37
13:21:56	16.89	2.84	1.10	3.26	35.01	15.21	9.85	3.81	11.30	121.32	52.72
13:22:56	16.22	2.26	1.28	4.03	38.39	16.84	6.70	3.80	11.96	114.08	50.04
13:23:56	15.52	2.45	0.71	3.86	46.40	13.81	6.33	1.83	9.97	119.86	35.67
13:24:56	15.44	3.68	1.31	4.87	65.75	15.96	9.37	3.33	12.39	167.25	40.60
13:25:56	15.17	4.42	0.66	4.66	81.90	13.15	10.72	1.60	11.30	198.63	31.89
13:26:56	15.45	4.42	0.52	4.46	71.09	16.60	11.25	1.32	11.36	181.14	42.29
13:27:56	15.65	4.53	0.63	4.27	67.01	17.35	12.01	1.68	11.31	177.48	45.96
13:28:56	15.82	5.50	0.88	4.22	66.73	16.34	15.06	2.41	11.57	182.77	44.75

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/13-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
13:29:56	15.64	6.17	0.90	4.50	66.86	21.58	16.30	2.38	11.89	176.77	57.05
13:30:56	14.57	6.00	0.18	5.72	20.01	16.95	13.17	0.40	12.55	43.95	37.23
13:31:56	13.98	5.22	0.59	5.53	-69.54	20.99	10.47	1.19	11.11	-139.59	42.13
13:32:56	14.52	6.74	0.12	5.27	93.95	21.97	14.68	0.27	11.47	204.60	47.85
13:33:55	14.73	10.59	0.22	5.04	84.49	28.23	23.84	0.48	11.35	190.31	63.59
13:34:55	14.96	13.26	0.07	4.86	78.65	35.89	31.01	0.16	11.37	183.92	83.92
13:35:55	15.13	12.23	0.23	4.68	72.95	33.19	29.46	0.56	11.26	175.64	79.91
13:36:55	15.55	7.17	0.29	4.26	67.28	24.72	18.63	0.75	11.05	174.73	64.21
13:37:55	15.88	5.09	0.46	4.09	65.58	17.29	14.08	1.26	11.31	181.53	47.86
13:38:55	15.98	5.50	0.59	4.17	67.53	22.02	15.52	1.68	11.79	190.68	62.17
13:39:55	14.82	6.19	0.00	5.45	12.25	20.71	14.15	0.00	12.45	27.99	47.31
13:40:55	14.74	5.67	0.08	4.66	85.96	20.99	12.80	0.18	10.51	193.98	47.38
13:41:55	15.50	9.94	0.10	4.50	83.73	30.02	25.58	0.24	11.58	215.35	77.22
13:42:55	15.41	14.74	0.19	4.65	84.71	42.37	37.28	0.47	11.75	214.28	107.18
13:43:55	15.30	12.02	0.42	4.56	78.62	34.52	29.84	1.05	11.31	195.25	85.74
13:44:55	15.48	10.43	0.48	4.42	73.73	36.50	26.77	1.24	11.34	189.18	93.66
13:45:55	15.61	10.50	0.53	4.35	71.50	33.07	27.59	1.39	11.43	187.98	86.96
13:46:54	14.80	8.53	0.12	5.82	87.79	29.97	19.42	0.28	13.26	199.96	68.26
13:47:54	14.02	5.59	0.11	5.07	74.27	23.74	11.29	0.22	10.23	149.99	47.95
13:48:54	15.58	4.99	0.48	4.30	61.07	23.23	13.06	1.24	11.23	159.70	60.75
13:49:54	15.66	6.67	0.24	4.60	60.45	22.90	17.70	0.64	12.20	160.31	60.74
13:50:54	14.47	6.36	0.00	4.87	59.07	23.61	13.75	0.00	10.51	127.62	51.02
13:51:54	15.32	5.97	0.30	4.35	58.43	18.33	14.86	0.75	10.84	145.51	45.65
13:52:54	15.53	5.47	0.63	4.19	57.02	18.69	14.16	1.63	10.84	147.51	48.33
13:53:54	14.99	4.73	0.03	5.24	64.07	16.59	11.14	0.07	12.33	150.79	39.05
13:54:54	13.49	4.32	0.00	5.52	73.31	18.89	8.11	0.00	10.35	137.55	35.43
13:55:54	14.91	4.39	0.08	4.87	71.36	18.70	10.19	0.18	11.29	165.55	43.39

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 15, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/13-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----CORRECTED TO 7% OXYGEN----				
13:56:54	15.22	6.48	0.12	4.71	68.36	21.94	15.87	0.30	11.52	167.31	53.70
13:57:54	15.34	5.86	0.22	4.61	66.10	18.95	14.65	0.56	11.51	165.14	47.35
13:58:54	15.08	5.42	0.31	4.60	63.28	17.86	12.93	0.75	10.97	151.02	42.62
13:59:53	15.17	6.07	0.27	4.54	62.48	18.67	14.73	0.66	11.03	151.67	45.32
14:00:53	15.07	6.45	0.06	4.97	74.00	18.65	15.39	0.15	11.87	176.52	44.48
14:01:53	14.24	5.91	0.00	5.16	93.11	20.20	12.33	0.00	10.77	194.20	42.12
14:02:53	15.14	5.45	0.29	4.42	95.74	17.88	13.16	0.69	10.67	231.08	43.16
14:03:53	15.66	6.55	0.36	4.42	92.64	17.95	17.35	0.96	11.72	245.53	47.58
14:04:53	15.22	8.52	0.32	4.53	84.75	19.05	20.85	0.77	11.09	207.47	46.64
14:05:53	15.27	9.54	0.19	4.38	79.12	23.16	23.54	0.46	10.80	195.22	57.14
14:06:53	15.75	6.90	0.61	4.05	81.13	19.50	18.63	1.64	10.94	218.91	52.63
14:07:53	15.55	6.13	0.37	4.70	68.36	16.25	15.93	0.95	12.22	177.55	42.21
14:08:53	13.96	6.41	0.00	5.76	36.68	17.29	12.85	0.00	11.53	73.47	34.64
14:09:53	14.73	5.62	0.03	4.91	92.30	20.15	12.66	0.07	11.05	207.89	45.38
14:10:53	15.42	5.42	0.19	4.56	87.58	12.44	13.74	0.48	11.56	222.12	31.54
14:11:53	15.66	5.43	0.21	4.40	83.93	15.29	14.40	0.55	11.66	222.45	40.52
14:12:52	15.51	5.23	0.42	4.58	81.28	14.66	13.49	1.07	11.80	209.60	37.80
14:13:52	15.29	4.85	0.16	4.54	76.73	14.00	12.02	0.39	11.25	190.16	34.69
14:14:52	15.39	4.56	0.24	4.55	78.22	15.63	11.49	0.62	11.48	197.16	39.40
14:15:52	14.62	4.95	0.00	5.74	92.76	12.64	10.96	0.00	12.69	205.17	27.97
14:16:52	14.21	5.05	0.00	5.30	87.64	14.39	10.50	0.00	11.01	182.07	29.90
14:17:52	15.07	6.13	0.04	4.72	75.28	12.59	14.61	0.10	11.25	179.51	30.01
14:18:52	15.58	8.24	0.26	4.43	72.14	18.48	21.54	0.69	11.58	188.64	48.32
14:19:52	15.66	10.20	0.55	4.52	74.04	22.53	27.05	1.46	11.98	196.30	59.74
14:20:52	15.20	10.06	0.09	4.60	73.41	21.55	24.55	0.21	11.23	179.16	52.59
14:21:52	14.69	10.30	0.01	5.67	93.31	21.64	23.04	0.01	12.67	208.73	48.40
14:22:52	14.29	10.29	0.00	5.17	79.82	24.03	21.66	0.00	10.88	167.95	50.56

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	SO2	CO	CO2	NOX	Hcl
9/13-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,dry	(ppmV,dry
							----------CORRECTED TO 7% OXYGEN-----				
14:23:52	15.24	11.75	0.28	4.69	74.21	23.64	28.82	0.68	11.51	182.11	58.02
14:24:52	15.54	12.04	0.74	4.49	72.90	24.60	31.24	1.91	11.66	189.12	63.82
14:25:51	15.74	8.75	0.88	4.33	72.63	19.83	23.58	2.37	11.66	195.70	53.44
14:26:51	15.42	6.53	0.45	4.64	73.38	18.02	16.54	1.14	11.76	185.98	45.66
14:27:51	15.20	6.69	0.32	4.53	75.68	15.84	16.32	0.79	11.05	184.59	38.63
14:28:51	15.05	7.91	0.62	5.02	87.28	19.50	18.81	1.48	11.92	207.44	46.34
14:29:51	15.45	6.83	0.98	4.33	74.74	19.14	17.44	2.50	11.04	190.70	48.84
14:30:51	15.61	6.43	0.34	4.29	67.87	17.51	16.90	0.90	11.26	178.29	46.01
14:31:51	15.53	6.86	0.37	4.26	65.56	15.62	17.77	0.96	11.02	169.76	40.45
14:32:51	15.63	6.53	0.65	4.18	61.72	17.93	17.22	1.71	11.02	162.83	47.31
14:33:51	15.65	6.11	0.87	4.24	59.83	17.48	16.20	2.31	11.23	158.55	46.31
14:34:51	15.16	6.23	0.46	4.61	61.50	15.44	15.08	1.11	11.15	148.88	37.38
14:35:51	14.72	6.29	0.14	4.93	76.75	15.77	14.15	0.32	11.09	172.62	35.47
14:36:51	15.61	5.91	0.44	4.18	75.65	15.39	15.50	1.16	10.96	198.60	40.40
14:37:51	15.73	5.21	0.48	4.23	67.24	17.07	14.03	1.30	11.39	180.88	45.93
14:38:51	15.68	5.32	0.63	4.15	63.26	14.37	14.18	1.67	11.05	168.46	38.26
14:39:50	15.71	5.90	0.93	4.13	60.74	12.39	15.81	2.49	11.06	162.80	33.21
14:40:50	15.79	6.44	1.07	4.04	57.58	15.26	17.50	2.91	10.98	156.60	41.50
14:41:50	16.11	7.27	2.31	3.78	61.20	11.32	21.10	6.72	10.97	177.69	32.87
14:42:50	14.99	7.76	1.82	5.41	92.72	12.65	18.26	4.29	12.73	218.08	29.75
14:43:50	15.06	6.36	0.62	4.42	70.15	15.19	15.15	1.48	10.54	167.07	36.18
14:44:50	15.91	5.27	0.66	3.93	59.45	12.79	14.68	1.84	10.96	165.73	35.65
14:45:50	16.19	5.40	1.29	3.93	56.63	15.21	15.92	3.80	11.59	167.11	44.89
(pre & post port change averages)	15.22	5.16	1.11	4.49	51.12	9.42	12.70	2.91	11.04	124.61	23.32
	15.46	6.65	0.70	4.41	63.37	22.52	17.23	1.93	11.27	162.20	59.45

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 13, 1991

TIME	O2	SO2	CO	CO2	NOX	Hcl	----------CORRECTED TO 7% OXYGEN-----				
9/13-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	NOX (ppmV,dry	Hcl (ppmV,dry
FINAL AVE	15.34	5.92	0.90	4.45	57.37	16.11	15.01	2.41	11.16	143.80	41.77
CV	0.05	0.42	0.66	0.14	0.38	0.62	0.45	0.72	0.08	0.35	0.73

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BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CORRECTED TO 7% OXYGEN-----			
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
10:15:30	15.73	3.05	0.00	4.63	17.79	8.21	0.00	NA	47.85
10:16:30	14.93	3.11	0.00	4.41	13.89	7.25	0.00	NA	32.32
10:17:29	16.17	3.12	0.11	4.72	11.50	9.18	0.34	NA	33.79
10:18:29	13.01	3.19	3.78	6.73	16.13	5.61	6.66	NA	28.41
10:19:29	15.53	2.86	0.57	3.96	18.78	7.41	1.48	NA	48.59
10:20:29	16.80	2.78	0.31	3.65	16.56	9.43	1.05	NA	56.11
10:21:29	15.45	2.84	0.00	4.63	15.30	7.25	0.00	NA	39.01
10:22:29	15.26	2.75	0.39	3.88	12.08	6.77	0.96	NA	29.74
10:23:29	16.30	2.59	0.05	3.90	15.10	7.82	0.16	NA	45.62
10:24:29	15.46	2.68	0.00	4.42	14.19	6.84	0.00	NA	36.23
10:25:29	14.57	2.91	0.00	5.24	13.71	6.40	0.00	NA	30.11
10:26:29	14.30	3.31	0.00	5.13	18.85	6.96	0.00	NA	39.73
10:27:29	15.51	3.37	0.06	4.41	18.08	8.70	0.16	NA	46.65
10:28:29	15.92	3.38	0.18	4.18	15.79	9.43	0.51	NA	44.03
10:29:29	15.74	3.39	0.23	4.73	17.31	9.14	0.61	NA	46.59
10:30:29	14.87	3.01	0.00	4.23	15.31	6.95	0.00	NA	35.31
10:31:28	16.45	2.79	0.29	3.76	15.55	8.73	0.92	NA	48.60
10:32:28	15.09	3.16	0.00	5.41	14.91	7.55	0.00	NA	35.65
10:33:28	13.78	3.10	0.00	5.50	16.04	6.05	0.00	NA	31.30
10:34:28	14.83	2.88	0.00	5.29	16.91	6.60	0.00	NA	38.71
10:35:28	15.12	2.92	0.00	4.86	17.57	7.03	0.00	NA	42.28
10:36:28	15.38	3.26	0.00	4.73	14.12	8.20	0.00	NA	35.54
10:37:28	15.62	3.27	0.00	4.54	16.06	8.61	0.00	NA	42.24
10:38:28	15.79	3.40	0.00	4.34	18.97	9.25	0.00	NA	51.60
10:39:28	15.77	3.88	0.00	5.10	14.73	10.51	0.00	NA	39.88
10:40:28	13.39	3.37	0.00	6.13	17.31	6.24	0.00	NA	32.05
10:41:28	15.28	3.10	0.00	4.66	15.87	7.68	0.00	NA	39.28

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	SO2	CO	CO2	Hcl
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,wet
10:42:28	15.94	2.94	0.00	4.28	15.37	8.22	0.00	NA	43.04
10:43:28	15.75	2.91	0.00	4.80	17.98	7.87	0.00	NA	48.57
10:44:27	14.80	2.84	0.00	4.46	12.42	6.47	0.00	NA	28.32
10:45:27	16.27	2.73	0.33	4.34	14.70	8.20	1.00	NA	44.15
10:46:27	14.41	2.66	0.30	5.90	18.45	5.70	0.64	NA	39.54
10:47:27	15.16	2.72	0.00	4.29	14.59	6.59	0.00	NA	35.34
10:48:27	16.32	2.49	0.00	3.98	15.82	7.55	0.00	NA	48.03
10:49:27	15.96	2.59	0.00	4.68	16.98	7.29	0.00	NA	47.78
10:50:27	15.14	2.61	0.00	4.16	17.98	6.30	0.00	NA	43.42
10:51:27	16.59	2.57	0.23	3.79	16.47	8.27	0.75	NA	53.09
10:52:27	15.44	2.55	0.00	5.03	12.32	6.49	0.00	NA	31.38
10:53:27	14.68	2.48	0.00	4.64	16.27	5.53	0.00	NA	36.33
10:54:27	16.41	2.43	0.24	4.05	16.86	7.52	0.73	NA	52.18
10:55:27	15.05	2.55	0.00	4.52	16.15	6.07	0.00	NA	38.37
10:56:27	16.28	2.15	0.23	3.42	15.03	6.47	0.70	NA	45.24
10:57:26	16.21	2.58	0.15	4.29	15.87	7.65	0.43	NA	47.01
10:58:26	15.17	2.37	0.07	4.11	14.36	5.76	0.18	NA	34.81
10:59:26	16.60	2.20	0.27	3.44	16.73	7.11	0.87	NA	54.06
11:00:26	15.13	2.54	0.00	5.68	15.59	6.12	0.00	NA	37.54
11:01:26	14.36	2.76	0.00	4.48	14.68	5.88	0.00	NA	31.22
11:02:26	16.41	2.42	0.16	3.74	17.36	7.49	0.51	NA	53.75
11:03:26	16.14	2.64	0.18	4.35	12.58	7.71	0.53	NA	36.69
11:04:26	15.07	2.48	0.00	4.34	15.02	5.91	0.00	NA	35.79
11:05:26	16.41	2.44	0.33	3.60	17.31	7.55	1.03	NA	53.55
11:06:26	15.92	2.46	0.33	4.53	13.43	6.87	0.92	NA	37.51
11:07:26	14.65	2.65	0.00	5.21	17.02	5.90	0.00	NA	37.89
11:08:26	15.43	2.31	0.00	4.43	14.56	5.88	0.00	NA	36.99

---------CORRECTED TO 7% OXYGEN-----

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CORRECTED TO 7% OXYGEN-----			
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
11:09:26	16.09	2.32	0.18	4.47	17.81	6.70	0.51	NA	51.51
11:10:25	14.99	2.46	0.00	4.56	14.82	5.80	0.00	NA	34.86
11:11:25	16.10	2.20	0.20	3.91	16.41	6.38	0.59	NA	47.55
11:12:25	16.06	2.42	0.11	4.32	16.24	6.94	0.31	NA	46.66
11:13:25	15.29	2.34	0.09	4.24	15.89	5.79	0.23	NA	39.39
11:14:25	16.22	2.18	0.35	4.24	15.26	6.48	1.05	NA	45.33
11:15:25	14.35	2.31	0.00	5.69	15.99	4.89	0.00	NA	33.91
11:16:25	15.00	2.54	0.00	4.37	15.93	5.99	0.00	NA	37.54
11:17:25	16.22	2.59	0.34	4.04	16.38	7.71	1.00	NA	48.67
11:18:25	16.44	2.78	0.28	3.97	11.32	8.67	0.89	NA	35.27
11:19:25	15.38	2.60	0.05	4.69	14.85	6.55	0.13	NA	37.37
11:20:25	15.87	2.64	0.33	3.82	14.07	7.31	0.91	NA	38.89
11:21:25	16.45	2.52	0.40	4.34	13.62	7.87	1.24	NA	42.54
11:22:25	14.20	2.90	4.12	5.32	15.77	6.02	8.55	NA	32.73
11:23:24	16.06	2.88	0.42	3.80	13.77	8.28	1.21	NA	39.59
11:24:24	16.72	2.59	0.13	3.68	13.59	8.61	0.44	NA	45.18
11:25:24	15.55	2.71	0.00	4.54	17.01	7.06	0.00	NA	44.20
11:26:24	15.83	2.59	0.08	3.74	15.42	7.10	0.23	NA	42.29
11:27:24	16.07	3.04	0.00	4.72	14.00	8.73	0.00	NA	40.25
11:28:24	14.87	3.22	0.00	4.52	15.33	7.42	0.00	NA	35.35
11:29:24	15.93	3.28	0.18	4.08	16.30	9.16	0.49	NA	45.55
11:30:24	16.02	3.06	0.22	3.98	16.04	8.71	0.61	NA	45.71
11:31:24	16.16	2.90	0.17	3.86	18.38	8.50	0.51	NA	53.91
11:32:24	16.06	2.55	0.13	4.06	15.57	7.33	0.37	NA	44.69
11:33:24	15.89	2.40	0.00	3.70	19.84	6.66	0.00	NA	54.99
11:34:24	16.46	2.54	0.64	4.20	14.60	7.96	1.99	NA	45.73
11:35:24	14.76	2.47	0.20	4.38	13.48	5.58	0.46	NA	30.49

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	SO2	CO	CO2	Hcl
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,wet
						---------CORRECTED TO 7% OXYGEN-----			
11:36:23	16.79	2.19	0.79	3.31	14.71	7.41	2.67	NA	49.77
11:37:23	16.22	2.24	0.36	4.12	15.63	6.65	1.07	NA	46.48
11:38:23	15.74	2.05	0.26	3.54	15.46	5.53	0.69	NA	41.64
11:39:23	17.17	2.16	0.35	3.35	13.43	8.05	1.29	NA	50.12
11:40:23	15.80	2.42	0.11	4.23	16.66	6.59	0.31	NA	45.41
11:41:23	16.23	2.28	0.26	3.38	14.62	6.78	0.77	NA	43.48
11:42:23	16.08	2.46	0.03	4.76	12.48	7.10	0.08	NA	36.01
11:43:23	14.78	2.45	0.00	4.27	17.86	5.56	0.00	NA	40.58
11:44:23	16.72	2.37	0.18	3.44	14.88	7.88	0.60	NA	49.45
11:45:23	16.26	2.35	0.00	4.20	15.75	7.03	0.00	NA	47.15
11:46:23	15.63	2.41	0.19	3.68	15.01	6.35	0.50	NA	39.63
11:47:23	17.03	2.25	0.31	3.43	14.01	8.06	1.11	NA	50.28
11:48:23	15.76	2.25	0.01	4.30	17.45	6.07	0.03	NA	47.15
11:49:22	15.58	2.09	0.12	4.15	16.69	5.45	0.31	NA	43.63
11:50:22	16.49	2.06	0.11	3.88	14.43	6.50	0.35	NA	45.48
11:51:22	15.47	2.08	0.00	4.03	15.26	5.31	0.00	NA	39.03
11:52:22	16.55	1.93	0.00	3.40	14.75	6.16	0.00	NA	47.15
11:53:22	16.31	2.02	0.00	3.87	15.35	6.12	0.00	NA	46.43
11:54:22	15.92	2.04	0.00	3.58	17.05	5.70	0.00	NA	47.59
11:55:22	16.78	1.86	0.00	3.36	14.36	6.29	0.00	NA	48.47
11:56:22	15.77	2.14	0.00	4.60	12.97	5.80	0.00	NA	35.15
11:57:22	15.03	2.14	0.00	4.17	15.69	5.07	0.00	NA	37.15
11:58:22	16.68	2.19	0.03	3.76	11.74	7.23	0.09	NA	38.71
11:59:22	15.71	2.12	0.00	4.69	15.35	5.69	0.00	NA	41.09
12:00:22	15.86	2.16	0.00	3.62	12.70	5.95	0.00	NA	35.07
12:01:22	16.80	2.12	0.00	3.88	14.44	7.18	0.00	NA	48.98
12:02:21	15.27	2.00	0.00	4.38	13.08	4.94	0.00	NA	32.31

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CORRECTED TO 7% OXYGEN-----			
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
12:03:21	16.40	2.15	0.00	3.99	12.99	6.64	0.00	NA	40.11
12:04:21	14.82	2.02	0.00	5.34	12.12	4.62	0.00	NA	27.71
12:05:21	15.67	1.86	0.00	4.03	14.49	4.95	0.00	NA	38.51
12:06:21	16.67	1.76	0.00	3.84	15.56	5.79	0.00	NA	51.14
12:07:21	15.54	1.65	0.00	4.56	10.93	4.28	0.00	NA	28.35
12:08:21	16.08	1.79	0.00	3.46	14.24	5.17	0.00	NA	41.05
12:09:21	16.42	1.88	0.00	4.73	12.76	5.83	0.00	NA	39.62
12:10:21	13.98	2.01	0.00	5.18	16.32	4.04	0.00	NA	32.79
12:11:21	15.91	1.91	0.00	4.18	17.20	5.31	0.00	NA	47.92
12:12:21	16.15	1.91	0.06	4.24	14.17	5.59	0.16	NA	41.47
12:13:21	16.10	1.80	0.34	4.14	12.48	5.22	0.99	NA	36.13
12:14:21	16.31	1.97	0.19	3.94	13.34	5.98	0.58	NA	40.44
12:15:20	16.07	1.97	0.00	4.50	14.74	5.67	0.00	NA	42.41
14:25:11	15.07	2.20	13.05	4.61	17.04	5.25	31.10	NA	40.62
14:26:11	15.42	2.13	4.60	4.43	15.05	5.41	11.68	NA	38.18
14:27:10	15.46	2.16	2.60	4.39	15.72	5.52	6.64	NA	40.17
14:28:10	15.50	2.29	1.42	4.34	16.10	5.90	3.66	NA	41.45
14:29:10	15.58	2.41	0.53	4.17	16.93	6.30	1.39	NA	44.20
14:30:10	15.86	2.21	0.51	4.02	15.15	6.09	1.40	NA	41.80
14:31:10	15.06	2.31	0.00	5.29	17.41	5.49	0.00	NA	41.40
14:32:10	13.44	2.52	0.00	6.16	16.35	4.70	0.00	NA	30.48
14:33:10	14.57	2.66	0.00	5.21	18.37	5.84	0.00	NA	40.37
14:34:10	15.45	3.08	0.00	4.54	17.16	7.84	0.00	NA	43.74
14:35:10	15.55	3.22	0.02	4.65	17.62	8.37	0.04	NA	45.74
14:36:10	14.65	3.37	0.00	5.13	19.02	7.48	0.00	NA	42.29

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CORRECTED TO 7% OXYGEN-----			
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
14:37:10	14.67	3.19	0.00	5.06	16.21	7.11	0.00	NA	36.16
14:38:10	14.05	3.02	0.00	5.66	17.03	6.12	0.00	NA	34.58
14:39:10	15.25	2.70	0.00	4.43	18.50	6.63	0.00	NA	45.51
14:40:09	15.66	2.30	0.00	4.68	15.13	6.10	0.00	NA	40.12
14:41:09	14.98	2.47	0.00	4.55	16.88	5.80	0.00	NA	39.60
14:42:09	15.54	2.42	0.00	4.28	18.32	6.27	0.00	NA	47.52
14:43:09	15.66	2.40	0.00	4.32	14.33	6.38	0.00	NA	38.03
14:44:09	15.49	2.45	0.00	4.55	14.30	6.29	0.00	NA	36.72
14:45:09	14.42	2.31	0.00	5.37	14.17	4.96	0.00	NA	30.40
14:46:09	15.57	2.11	0.00	3.97	15.75	5.52	0.00	NA	41.11
14:47:09	16.41	2.08	0.15	3.98	14.75	6.44	0.46	NA	45.62
14:48:09	15.43	1.98	0.04	4.28	17.25	5.03	0.11	NA	43.84
14:49:09	15.87	2.02	0.11	3.85	15.71	5.58	0.30	NA	43.44
14:50:09	16.29	1.95	0.30	3.60	16.47	5.87	0.91	NA	49.67
14:51:09	16.27	1.81	0.21	4.06	17.60	5.45	0.62	NA	52.86
14:52:09	15.04	1.85	0.00	4.94	13.59	4.39	0.00	NA	32.25
14:53:08	14.64	2.28	0.00	4.69	15.32	5.07	0.00	NA	34.03
14:54:08	16.17	8.81	0.66	3.66	21.43	25.90	1.93	NA	62.98
14:55:08	16.52	16.90	0.80	3.86	29.63	53.61	2.53	NA	94.00
14:56:08	16.29	13.78	0.99	3.69	32.11	41.50	2.98	NA	96.72
14:57:08	16.42	16.66	0.81	3.76	31.44	51.73	2.51	NA	97.63
14:58:08	16.25	18.29	0.58	3.84	36.17	54.69	1.73	NA	108.15
14:59:08	15.70	15.11	0.47	5.09	29.35	40.36	1.25	NA	78.38
15:00:08	15.16	9.40	0.18	4.60	27.38	22.78	0.43	NA	66.33
15:01:08	16.43	7.02	0.38	3.80	23.21	21.81	1.17	NA	72.17
15:02:08	16.50	8.57	0.51	3.93	29.77	27.08	1.60	NA	94.12
15:03:08	16.17	9.90	0.47	3.93	28.01	29.09	1.38	NA	82.33

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	SO2	CO	CO2	Hcl
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,wet
						--------CORRECTED TO 7% OXYGEN-----			
15:04:08	16.22	9.60	0.43	3.88	26.94	28.56	1.29	NA	80.09
15:05:08	16.23	9.63	0.85	4.20	23.53	28.68	2.53	NA	70.10
15:06:07	15.08	8.24	0.03	4.82	21.72	19.69	0.08	NA	51.92
15:07:07	16.17	6.96	0.91	3.90	25.56	20.47	2.69	NA	75.16
15:08:07	16.23	8.14	0.42	4.17	26.91	24.23	1.24	NA	80.14
15:09:07	15.95	10.98	0.65	3.97	26.41	30.80	1.83	NA	74.09
15:10:07	16.59	11.48	0.85	3.73	26.93	36.98	2.75	NA	86.78
15:11:07	16.20	10.06	1.21	3.91	29.04	29.77	3.58	NA	85.98
15:12:07	16.13	13.31	1.13	4.35	29.07	38.77	3.30	NA	84.69
15:13:07	15.12	13.60	1.00	4.65	26.15	32.70	2.39	NA	62.86
15:14:07	16.41	9.30	1.09	3.63	23.61	28.82	3.38	NA	73.15
15:15:07	16.38	7.95	0.73	4.23	26.21	24.46	2.26	NA	80.60
15:16:07	15.42	6.94	0.35	4.21	24.15	17.58	0.87	NA	61.20
15:17:07	16.30	7.16	0.31	3.64	21.95	21.65	0.95	NA	66.38
15:18:07	16.52	6.84	0.55	3.53	24.11	21.72	1.75	NA	76.51
15:19:06	16.56	5.94	0.55	3.55	19.31	19.02	1.77	NA	61.81
15:20:06	15.76	5.17	0.00	4.86	20.18	13.99	0.00	NA	54.60
15:21:06	15.33	4.04	0.00	4.33	18.82	10.08	0.00	NA	46.98
15:22:06	16.32	3.40	0.26	4.11	19.93	10.33	0.78	NA	60.47
15:23:06	15.84	4.18	0.00	4.34	18.04	11.48	0.00	NA	49.60
15:24:06	15.62	5.15	0.00	4.52	20.82	13.56	0.00	NA	54.82
15:25:06	15.53	6.42	0.00	4.42	18.72	16.61	0.00	NA	48.44
15:26:06	15.63	8.29	0.00	4.66	17.99	21.85	0.00	NA	47.42
15:27:06	14.41	8.71	0.00	5.46	20.58	18.65	0.00	NA	44.09
15:28:06	15.07	7.96	0.00	4.54	22.25	18.98	0.00	NA	53.04
15:29:06	15.70	7.83	0.00	4.59	20.75	20.92	0.00	NA	55.47
15:30:06	15.24	6.79	0.00	4.70	19.80	16.68	0.00	NA	48.64

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CORRECTED TO 7% OXYGEN-----			
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
15:31:06	15.34	6.73	0.00	4.58	21.39	16.81	0.00	NA	53.42
15:32:05	15.32	6.84	0.00	4.62	21.25	17.03	0.00	NA	52.90
15:33:05	15.32	5.86	0.00	4.74	16.46	14.59	0.00	NA	40.98
15:34:05	14.28	7.27	0.00	5.96	20.39	15.25	0.00	NA	42.79
15:35:05	14.20	8.94	0.00	5.89	24.66	18.54	0.00	NA	51.14
15:36:05	14.95	12.26	0.00	5.05	25.84	28.65	0.00	NA	60.40
15:37:05	14.41	18.13	0.00	5.86	34.36	38.85	0.00	NA	73.63
15:38:05	14.93	21.64	0.00	4.66	36.72	50.36	0.00	NA	85.46
15:39:05	15.64	18.15	0.01	4.51	36.13	48.00	0.02	NA	95.56
15:40:05	15.50	17.47	0.09	4.90	33.69	44.94	0.24	NA	86.70
15:41:05	14.23	17.30	0.00	5.58	38.17	36.02	0.00	NA	79.49
15:42:05	15.01	12.90	0.08	4.81	29.25	30.43	0.19	NA	69.02
15:43:05	15.33	9.80	0.09	4.81	24.46	24.48	0.22	NA	61.10
15:44:05	15.24	11.21	0.00	4.84	30.11	27.55	0.00	NA	74.00
15:45:04	14.98	13.75	0.00	5.13	29.47	32.28	0.00	NA	69.18
15:46:04	14.91	15.73	0.00	4.86	37.63	36.51	0.00	NA	87.35
15:47:04	15.28	17.59	0.00	4.77	39.16	43.48	0.00	NA	96.79
15:48:04	14.77	17.08	0.00	5.55	40.24	38.76	0.00	NA	91.29
15:49:04	14.61	14.52	0.00	5.08	34.75	32.09	0.00	NA	76.80
15:50:04	15.37	11.73	0.00	4.69	28.47	29.50	0.00	NA	71.58
15:51:04	15.34	10.82	0.00	4.89	28.20	27.04	0.00	NA	70.50
15:52:04	14.88	9.86	0.00	4.95	28.04	22.77	0.00	NA	64.78
15:53:04	15.24	10.05	0.00	4.54	27.41	24.66	0.00	NA	67.26
15:54:04	15.40	10.38	0.00	4.83	25.90	26.24	0.00	NA	65.48
15:55:04	14.28	10.13	0.00	5.74	23.96	21.26	0.00	NA	50.32
15:56:04	14.71	8.35	0.00	4.83	25.19	18.76	0.00	NA	56.60
15:57:04	14.95	7.21	0.00	5.31	22.19	16.85	0.00	NA	51.84

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CORRECTED TO 7% OXYGEN-----			
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
15:58:03	15.05	7.04	0.00	4.78	25.45	16.72	0.00	NA	60.46
15:59:03	15.11	7.22	0.00	4.74	22.27	17.35	0.00	NA	53.50
16:00:03	15.16	6.85	0.00	4.70	24.02	16.59	0.00	NA	58.18
16:01:03	15.22	7.58	0.00	4.84	23.94	18.54	0.00	NA	58.58
16:02:03	14.33	8.56	0.00	5.51	23.92	18.13	0.00	NA	50.64
16:03:03	14.82	7.75	0.00	4.83	22.89	17.70	0.00	NA	52.31
16:04:03	15.25	6.38	0.00	4.65	20.67	15.70	0.00	NA	50.89
16:05:03	15.35	4.01	0.00	4.57	21.35	10.04	0.00	NA	53.47
16:06:03	15.42	3.75	0.00	4.51	18.07	9.52	0.00	NA	45.83
16:07:03	15.29	3.29	0.00	4.82	21.83	8.14	0.00	NA	54.07
16:08:03	14.45	3.71	0.00	5.13	20.56	7.99	0.00	NA	44.29
16:09:03	14.29	4.37	0.00	5.62	19.83	9.18	0.00	NA	41.70
16:10:03	14.67	4.98	0.00	5.03	23.82	11.11	0.00	NA	53.16
16:11:02	15.38	5.41	0.00	4.72	22.85	13.60	0.00	NA	57.49
16:12:02	15.13	5.47	0.00	4.94	20.29	13.17	0.00	NA	48.85
16:13:02	14.96	7.40	0.00	4.93	20.90	17.31	0.00	NA	48.87
16:14:02	15.05	8.66	0.10	4.68	26.19	20.60	0.23	NA	62.29
16:15:02	15.44	9.74	0.13	5.02	24.52	24.81	0.34	NA	62.41
16:16:02	13.94	9.64	0.00	5.87	25.84	19.26	0.00	NA	51.63
16:17:02	14.65	12.87	0.00	5.02	32.27	28.65	0.00	NA	71.81
16:18:02	15.17	15.23	0.00	4.83	32.89	36.96	0.00	NA	79.84
16:19:02	15.41	16.87	0.00	4.65	38.56	42.73	0.00	NA	97.65
16:20:02	15.26	16.87	0.00	4.95	37.08	41.54	0.00	NA	91.34
16:21:02	14.85	15.86	0.00	4.80	40.12	36.47	0.00	NA	92.23
16:22:02	15.43	14.79	0.00	4.73	34.40	37.58	0.00	NA	87.42
16:23:02	14.60	11.71	0.00	5.68	32.59	25.85	0.00	NA	71.94
16:24:01	14.86	10.35	0.00	4.84	32.27	23.83	0.00	NA	74.29

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 14, 1991

TIME	O2	SO2	CO	CO2	Hcl	SO2	CO	CO2	Hcl
9/14-Out	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,wet)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,wet
						---------CORRECTED TO 7% OXYGEN-----			
16:25:01	15.53	9.73	0.00	4.73	28.63	25.19	0.00	NA	74.14
(pre & post	15.70	2.54	0.17	4.32	15.30	6.86	0.45		41.57
port change	15.35	8.15	0.34	4.64	23.99	20.70	0.91		60.87
averages)									
FINAL AVE	15.52	5.34	0.26	4.48	19.64	13.78	0.68		51.22
CV	0.05	0.84	3.82	0.14	0.33	0.83	3.44		0.33

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME 9/16-OUT	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
						---------CCORRECTED TO 7% OXYGEN----			
10:30:45	13.41	8.31	0.00	6.12	12.55	15.42	0.00	NA	23.28
10:31:45	13.21	7.95	0.00	5.93	15.70	14.36	0.00	NA	28.38
10:32:45	13.46	8.14	0.00	5.55	12.96	15.22	0.00	NA	24.22
10:33:45	14.16	8.85	0.00	5.33	15.26	18.26	0.00	NA	31.47
10:34:45	13.03	8.52	0.00	6.97	13.06	15.05	0.00	NA	23.07
10:35:45	13.38	8.57	0.00	5.47	14.58	15.84	0.00	NA	26.96
10:36:45	14.81	9.43	0.00	5.24	18.03	21.53	0.00	NA	41.14
10:37:45	13.55	9.40	0.00	5.91	15.13	17.80	0.00	NA	28.63
10:38:44	13.46	9.45	0.00	5.74	13.71	17.64	0.00	NA	25.60
10:39:44	13.84	9.09	0.00	5.28	15.50	17.91	0.00	NA	30.53
10:40:44	14.44	8.99	0.00	5.00	16.10	19.34	0.00	NA	34.65
10:41:44	14.28	8.86	0.00	5.89	13.45	18.61	0.00	NA	28.25
10:42:44	12.64	8.61	0.00	6.43	15.91	14.48	0.00	NA	26.76
10:43:44	13.69	8.03	0.00	5.67	15.48	15.47	0.00	NA	29.83
10:45:44	13.84	11.85	0.00	5.72	16.69	23.32	0.00	NA	32.85
10:46:44	13.83	11.95	0.00	5.48	17.03	23.50	0.00	NA	33.48
10:47:44	13.95	11.17	0.00	5.45	20.52	22.35	0.00	NA	41.07
10:48:44	13.72	10.46	0.00	5.78	17.77	20.25	0.00	NA	34.39
10:49:44	12.66	9.71	0.00	6.35	15.73	16.39	0.00	NA	26.54
10:50:44	14.59	10.88	0.00	4.83	17.80	23.96	0.00	NA	39.20
10:51:43	14.35	9.43	0.00	5.44	20.78	20.02	0.00	NA	44.12
10:52:43	12.88	8.74	0.08	7.12	16.04	15.15	0.14	NA	27.82
10:53:43	12.02	11.22	0.00	7.07	18.24	17.56	0.00	NA	28.54
10:54:43	12.67	14.62	0.00	6.86	19.74	24.68	0.00	NA	33.33
10:55:43	12.79	18.71	0.00	6.84	24.03	32.05	0.00	NA	41.17
10:56:43	12.46	21.88	0.00	7.04	37.68	36.04	0.00	NA	62.08
10:57:43	12.47	24.04	0.00	7.00	44.76	39.66	0.00	NA	73.84

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	SO2	CO	CO2	Hcl
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	(ppmV,dry	(ppmV,dry	(%V,dry)	(ppmV,wet
						---CCORRECTED TO 7% OXYGEN----			
10:58:43	12.53	22.60	0.00	6.96	46.52	37.52	0.00	NA	77.24
10:59:43	12.63	18.42	0.00	6.50	44.23	30.96	0.00	NA	74.33
11:00:43	13.58	15.68	0.00	5.94	43.27	29.76	0.00	NA	82.16
11:01:43	13.85	15.26	0.00	5.58	44.27	30.09	0.00	NA	87.28
11:02:43	14.21	15.82	0.00	5.59	43.34	32.88	0.00	NA	90.08
11:03:43	13.28	12.60	0.00	6.58	33.42	23.00	0.00	NA	61.00
11:04:42	12.43	9.66	0.00	6.71	28.64	15.86	0.00	NA	47.02
11:05:42	13.03	12.97	0.00	6.59	34.45	22.91	0.00	NA	60.84
11:06:42	12.93	20.45	0.00	6.53	50.78	35.66	0.00	NA	88.54
11:07:42	13.45	17.44	0.00	5.94	55.66	32.55	0.00	NA	103.91
11:08:42	13.54	19.77	0.00	6.13	62.67	37.34	0.00	NA	118.39
11:09:42	13.46	14.81	0.00	6.00	47.08	27.65	0.00	NA	87.90
11:10:42	13.36	12.51	0.00	6.03	38.00	23.05	0.00	NA	70.03
11:11:42	13.30	9.75	0.00	6.07	31.62	17.83	0.00	NA	57.82
11:12:42	13.28	8.77	0.00	6.30	29.28	15.99	0.00	NA	53.41
11:13:42	12.78	8.66	0.00	6.43	25.19	14.82	0.00	NA	43.10
11:14:42	13.16	9.77	0.00	6.12	22.97	17.55	0.00	NA	41.27
11:15:42	13.53	10.16	0.00	5.38	23.38	19.15	0.00	NA	44.09
11:16:42	14.33	8.99	0.00	5.42	19.36	19.03	0.00	NA	40.97
11:17:42	13.47	8.92	0.00	5.88	22.56	16.68	0.00	NA	42.18
11:18:41	12.64	9.02	0.00	6.87	17.73	15.19	0.00	NA	29.86
11:19:41	12.79	9.36	0.00	6.27	23.04	16.06	0.00	NA	39.50
11:20:41	13.50	14.21	0.00	6.04	28.00	26.70	0.00	NA	52.61
11:21:41	13.75	19.62	0.00	5.52	39.81	38.13	0.00	NA	77.38
11:22:41	14.28	17.27	0.00	5.25	45.22	36.23	0.00	NA	94.88
11:23:41	13.99	14.95	0.00	5.29	42.20	30.06	0.00	NA	84.85
11:24:41	14.04	13.11	0.00	5.21	43.02	26.56	0.00	NA	87.11

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CCORRECTED TO 7% OXYGEN----			
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
11:25:41	13.87	11.83	0.00	5.80	32.67	23.38	0.00	NA	64.57
11:26:41	13.46	11.27	0.00	5.58	29.47	21.05	0.00	NA	55.05
11:27:41	14.00	14.06	0.00	5.35	37.80	28.34	0.00	NA	76.16
11:28:41	13.95	10.86	0.00	5.51	39.15	21.71	0.00	NA	78.27
11:29:41	13.75	13.21	0.00	5.42	45.32	25.71	0.00	NA	88.16
11:30:41	14.49	16.02	0.04	4.89	54.87	34.72	0.09	NA	118.93
11:31:40	14.94	14.29	0.05	4.75	54.87	33.32	0.11	NA	127.92
11:32:40	15.04	8.79	0.00	2.73	40.43	20.86	0.00	NA	95.90
11:33:40	16.41	11.11	0.00	6.19	34.20	34.41	0.00	NA	105.94
11:34:40	13.82	9.33	0.00	5.19	37.53	18.30	0.00	NA	73.67
11:35:40	15.17	8.80	0.11	4.88	32.23	21.35	0.26	NA	78.20
11:36:40	14.28	7.62	0.00	5.47	27.48	15.99	0.00	NA	57.69
11:37:40	14.05	6.06	0.00	5.32	29.43	12.29	0.00	NA	59.68
11:38:40	14.33	6.02	0.00	4.99	28.65	12.75	0.00	NA	60.63
11:39:40	15.03	6.44	0.01	4.71	25.30	15.25	0.03	NA	59.93
11:40:40	14.47	6.89	0.00	5.60	26.79	14.90	0.00	NA	57.95
11:41:40	13.52	6.88	0.00	6.09	22.62	12.96	0.00	NA	42.58
11:42:40	13.88	6.58	0.00	5.19	23.54	13.02	0.00	NA	46.58
11:43:40	14.14	6.64	1.56	6.44	20.17	13.65	3.21	NA	41.46
11:44:39	13.26	6.82	0.00	6.48	27.51	12.42	0.00	NA	50.07
11:45:39	13.67	8.06	0.00	5.88	31.46	15.51	0.00	NA	60.52
11:46:39	14.29	8.19	0.00	5.38	33.33	17.23	0.00	NA	70.14
11:47:39	14.28	7.48	0.00	5.96	28.11	15.69	0.00	NA	58.98
11:48:39	13.18	6.67	0.00	6.55	27.03	12.02	0.00	NA	48.70
11:49:39	13.07	13.17	0.00	5.94	41.71	23.38	0.00	NA	74.02
11:50:39	14.38	18.11	0.00	5.35	51.03	38.63	0.00	NA	108.87
11:51:39	14.11	14.76	0.00	5.55	54.10	30.23	0.00	NA	110.78

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CCORRECTED TO 7% OXYGEN----			
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
11:52:39	14.00	14.16	0.00	5.47	57.16	28.53	0.00	NA	115.20
11:53:39	14.23	9.97	0.00	5.25	49.32	20.79	0.00	NA	102.84
11:54:39	14.12	9.72	0.00	5.97	37.19	19.93	0.00	NA	76.27
11:55:39	12.97	9.41	0.00	6.00	42.87	16.48	0.00	NA	75.13
11:56:39	14.13	6.62	0.00	5.34	39.72	13.60	0.00	NA	81.62
11:57:38	14.54	4.98	0.00	5.09	31.69	10.88	0.00	NA	69.26
11:58:38	14.35	5.68	0.00	5.03	28.93	12.07	0.00	NA	61.44
11:59:38	14.56	5.28	0.03	4.87	26.23	11.58	0.06	NA	57.47
12:00:38	14.78	5.27	0.00	4.69	28.34	11.97	0.00	NA	64.36
12:01:38	14.91	4.80	0.00	4.60	29.19	11.13	0.00	NA	67.70
12:02:38	15.00	4.79	0.00	4.80	26.11	11.28	0.00	NA	61.55
12:03:38	13.86	5.18	0.00	5.85	22.47	10.22	0.00	NA	44.36
12:04:38	13.59	7.97	0.00	5.68	26.94	15.16	0.00	NA	51.26
12:05:38	14.29	8.19	0.00	4.96	30.03	17.23	0.00	NA	63.17
12:06:38	15.39	10.14	0.04	4.39	33.30	25.59	0.10	NA	84.05
12:07:38	15.33	11.33	0.04	4.74	35.10	28.26	0.10	NA	87.56
12:13:48	14.57	4.86	0.07	4.94	20.97	10.67	0.16	NA	46.07
12:13:58	14.51	5.22	0.09	4.98	14.57	11.36	0.20	NA	31.71
12:14:08	14.47	4.56	0.00	4.96	18.75	9.86	0.00	NA	40.51
12:14:18	14.50	4.51	0.00	4.92	26.94	9.79	0.00	NA	58.55
12:14:28	14.51	5.51	0.00	4.90	19.00	11.99	0.00	NA	41.33
12:14:38	14.54	4.97	0.00	4.90	18.58	10.87	0.00	NA	40.60
12:14:48	14.59	4.44	0.00	4.93	10.68	9.79	0.00	NA	23.52
12:14:58	14.58	4.36	0.07	4.91	15.97	9.59	0.15	NA	35.14
12:15:08	14.57	4.44	0.00	4.89	25.54	9.76	0.00	NA	56.07
12:15:18	14.56	5.53	0.00	4.87	28.35	12.12	0.00	NA	62.11
12:15:28	14.58	4.85	0.00	4.88	25.17	10.67	0.00	NA	55.41

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CCORRECTED TO 7% OXYGEN----			
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
12:15:38	14.60	5.59	0.00	4.85	25.43	12.34	0.00	NA	56.16
12:15:47	14.65	5.02	0.00	4.83	17.36	11.17	0.00	NA	38.62
12:15:57	14.61	4.37	0.03	4.80	24.26	9.66	0.06	NA	53.65
12:16:07	14.63	4.82	0.09	4.77	20.86	10.69	0.19	NA	46.22
12:16:17	14.68	3.92	0.00	4.76	22.60	8.76	0.00	NA	50.55
12:16:27	14.72	4.67	0.00	4.77	20.06	10.50	0.00	NA	45.15
12:16:37	14.77	4.38	0.00	5.07	15.88	9.94	0.00	NA	36.02
12:16:47	14.73	4.26	0.00	5.52	13.74	9.60	0.00	NA	30.96
12:17:47	13.76	4.46	0.00	5.73	18.75	8.68	0.00	NA	36.50
12:18:47	14.19	4.09	0.00	5.06	19.81	8.49	0.00	NA	41.07
12:19:47	14.72	3.94	0.00	4.74	20.94	8.85	0.00	NA	47.09
12:20:47	14.72	4.12	0.00	4.89	16.29	9.27	0.00	NA	36.61
12:21:47	14.51	4.59	0.00	5.12	17.80	10.00	0.00	NA	38.76
12:22:47	13.77	5.68	0.00	5.63	20.23	11.07	0.00	NA	39.42
12:23:47	13.92	5.99	0.00	5.33	17.00	11.91	0.00	NA	33.83
12:24:47	14.37	5.97	0.00	5.49	13.46	12.72	0.00	NA	28.67
12:25:46	14.23	5.85	0.00	5.37	16.78	12.19	0.00	NA	34.98
12:26:46	14.89	6.07	0.02	5.08	20.28	14.05	0.05	NA	46.92
12:27:46	14.97	6.50	0.00	4.89	16.64	15.25	0.00	NA	39.02
12:28:46	15.03	6.19	0.00	4.93	18.51	14.66	0.00	NA	43.83
12:29:46	14.69	5.81	0.00	5.01	21.26	13.00	0.00	NA	47.61
12:30:46	14.72	5.86	0.00	4.99	15.89	13.17	0.00	NA	35.72
12:31:46	14.63	5.76	0.00	5.15	18.76	12.77	0.00	NA	41.60
12:32:46	13.73	6.65	0.00	6.32	18.02	12.89	0.00	NA	34.94
12:33:46	13.63	6.86	0.00	5.85	18.67	13.11	0.00	NA	35.70
12:34:46	14.21	8.93	0.00	5.44	19.17	18.56	0.00	NA	39.82
12:35:46	14.43	10.00	0.00	5.26	19.75	21.47	0.00	NA	42.41

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CCORRECTED TO 7% OXYGEN----			
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
12:36:46	14.48	9.13	0.00	5.28	22.04	19.76	0.00	NA	47.69
12:37:46	14.45	8.39	0.00	5.37	19.00	18.07	0.00	NA	40.96
12:38:45	13.84	8.48	0.00	5.72	20.87	16.70	0.00	NA	41.10
12:39:45	13.93	8.73	0.00	5.57	18.92	17.41	0.00	NA	37.73
12:40:45	13.71	8.43	0.00	5.87	17.50	16.29	0.00	NA	33.80
12:41:45	13.77	8.21	0.00	5.53	20.58	16.01	0.00	NA	40.12
12:42:45	13.92	8.11	0.00	5.47	17.14	16.14	0.00	NA	34.13
12:43:45	13.87	7.30	0.00	5.44	18.01	14.43	0.00	NA	35.60
12:44:45	13.96	7.16	0.00	5.37	20.19	14.34	0.00	NA	40.44
12:45:45	14.00	7.42	0.00	5.34	19.56	14.94	0.00	NA	39.42
12:46:45	14.05	7.61	0.00	5.36	19.17	15.43	0.00	NA	38.88
12:47:45	13.56	6.93	0.00	5.91	16.52	13.13	0.00	NA	31.30
12:48:45	13.74	6.96	0.00	5.60	18.35	13.51	0.00	NA	35.63
12:49:45	13.75	8.36	0.00	5.59	17.97	16.26	0.00	NA	34.95
12:50:45	14.22	9.26	0.00	5.24	17.98	19.26	0.00	NA	37.40
12:51:44	14.01	10.14	0.00	5.61	20.12	20.45	0.00	NA	40.57
12:52:44	13.64	10.18	0.00	5.55	24.16	19.49	0.00	NA	46.25
12:53:44	14.34	10.22	0.00	5.11	19.83	21.66	0.00	NA	42.01
12:54:44	14.19	9.97	0.00	5.64	19.84	20.65	0.00	NA	41.07
12:55:44	12.95	10.25	0.00	6.59	17.41	17.94	0.00	NA	30.46
12:56:44	13.47	9.68	0.00	6.10	19.88	18.09	0.00	NA	37.17
12:57:44	13.94	9.04	0.00	5.71	19.24	18.04	0.00	NA	38.40
12:58:44	13.82	9.68	0.00	5.69	18.40	19.02	0.00	NA	36.14
12:59:44	14.19	9.88	0.00	5.34	18.26	20.47	0.00	NA	37.84
13:00:44	13.94	10.41	0.00	5.64	21.71	20.78	0.00	NA	43.36
13:01:44	13.84	10.46	0.00	5.30	15.76	20.59	0.00	NA	31.02
13:02:44	13.84	10.26	0.00	5.96	18.28	20.19	0.00	NA	35.98

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME 9/16-OUT	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	Hcl (ppmV,dry)	---------CCORRECTED TO 7% OXYGEN---- SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
13:03:44	13.37	10.26	0.00	5.88	17.53	18.95	0.00	NA	32.36
13:04:43	14.31	10.68	0.00	5.18	20.42	22.51	0.00	NA	43.06
13:05:43	14.59	10.74	0.00	5.13	19.30	23.65	0.00	NA	42.49
14:16:38	14.30	13.21	0.00	5.27	76.15	27.81	0.00	NA	160.39
14:17:38	14.38	13.85	0.00	5.17	84.04	29.53	0.00	NA	179.17
14:18:38	14.47	13.82	0.00	5.07	74.82	29.90	0.00	NA	161.85
14:19:38	14.64	11.35	0.00	4.97	62.85	25.20	0.00	NA	139.50
14:20:38	14.61	11.37	0.00	5.17	66.35	25.13	0.00	NA	146.57
14:21:38	14.22	11.16	0.00	5.01	62.77	23.21	0.00	NA	130.53
14:22:38	14.84	11.31	0.00	4.79	57.89	25.94	0.00	NA	132.82
14:23:37	14.32	8.33	0.00	5.95	37.71	17.59	0.00	NA	79.63
14:24:37	13.46	7.68	0.00	5.77	36.79	14.35	0.00	NA	68.77
14:25:37	13.86	9.89	0.00	5.66	47.55	19.52	0.00	NA	93.87
14:26:37	14.13	12.92	0.00	5.39	64.36	26.53	0.00	NA	132.15
14:27:37	14.34	15.12	0.00	5.22	69.38	32.05	0.00	NA	147.10
14:28:37	14.48	14.74	0.00	5.14	70.88	31.94	0.00	NA	153.52
14:29:37	14.57	14.68	0.00	5.08	75.84	32.26	0.00	NA	166.67
14:30:37	14.23	15.85	0.00	5.72	73.61	33.03	0.00	NA	153.33
14:31:37	14.43	15.32	0.00	4.60	84.15	32.89	0.00	NA	180.70
14:32:37	15.19	16.21	0.00	4.75	86.59	39.47	0.00	NA	210.85
14:33:37	14.22	16.16	0.00	5.19	94.89	33.65	0.00	NA	197.55
14:34:37	14.33	18.42	0.00	4.82	127.05	38.97	0.00	NA	268.82
14:35:37	14.83	18.11	0.00	4.71	131.87	41.47	0.00	NA	301.96
14:36:36	14.83	18.13	0.00	4.69	134.89	41.48	0.00	NA	308.65
14:37:36	14.60	18.32	0.00	5.32	127.50	40.43	0.00	NA	281.41

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CCORRECTED TO 7% OXYGEN----			
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
14:38:36	14.48	13.46	0.00	4.93	82.43	29.15	0.00	NA	178.49
14:39:36	14.60	8.75	0.00	5.21	52.28	19.30	0.00	NA	115.28
14:40:36	14.64	9.49	0.00	4.90	56.24	21.07	0.00	NA	124.92
14:41:36	14.95	12.00	0.00	4.83	69.79	28.03	0.00	NA	162.97
14:42:36	15.08	12.04	0.00	4.69	68.38	28.74	0.00	NA	163.28
14:43:36	15.11	12.01	0.00	4.65	64.02	28.85	0.00	NA	153.78
14:44:36	15.14	10.90	0.00	5.02	51.86	26.29	0.00	NA	125.07
14:45:36	13.41	10.16	0.00	6.23	39.27	18.86	0.00	NA	72.90
14:46:36	14.84	7.92	0.00	4.69	42.41	18.18	0.00	NA	97.33
14:47:36	15.64	6.01	0.04	4.29	35.30	15.91	0.12	NA	93.34
14:48:36	15.50	5.01	0.02	4.58	28.11	12.88	0.05	NA	72.28
14:49:35	15.13	4.68	0.06	4.51	26.30	11.26	0.15	NA	63.36
14:50:35	15.76	4.52	0.20	3.97	24.04	12.25	0.54	NA	65.05
14:51:35	16.01	4.18	0.63	4.13	23.27	11.89	1.80	NA	66.12
14:52:35	14.83	4.29	0.00	5.59	20.39	9.82	0.00	NA	46.69
14:53:35	14.62	4.52	0.00	4.84	22.63	10.01	0.00	NA	50.12
14:54:35	15.54	4.11	0.28	4.65	22.40	10.67	0.73	NA	58.13
14:55:35	14.68	3.83	0.58	4.82	22.61	8.56	1.29	NA	50.55
14:56:35	16.28	3.87	0.89	3.63	20.48	11.63	2.67	NA	61.57
14:57:35	15.56	3.62	0.20	4.39	18.66	9.42	0.52	NA	48.62
14:58:35	15.12	3.79	0.26	4.31	23.23	9.10	0.62	NA	55.87
14:59:35	14.93	3.80	16.00	5.20	20.80	8.85	37.24	NA	48.41
15:00:35	14.17	4.44	2.79	5.34	18.08	9.17	5.76	NA	37.31
15:01:35	14.47	5.78	0.00	5.24	20.36	12.49	0.00	NA	44.02
15:02:34	13.99	7.48	0.00	5.97	19.85	15.05	0.00	NA	39.94
15:03:34	13.88	7.77	0.00	5.61	20.65	15.38	0.00	NA	40.87
15:04:34	14.26	8.70	0.00	5.36	23.02	18.22	0.00	NA	48.21

BORGESS MEDICAL CENTER

BAGHOUSE OUTLET

CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CCORRECTED TO 7% OXYGEN----			
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
15:05:34	14.42	9.53	0.00	5.29	26.35	20.43	0.00	NA	56.51
15:06:34	14.47	9.92	0.00	5.25	26.66	21.45	0.00	NA	57.63
15:07:34	14.64	10.72	0.00	4.97	31.85	23.81	0.00	NA	70.77
15:08:34	14.83	11.73	0.00	5.03	35.70	26.84	0.00	NA	81.68
15:09:34	14.42	11.48	0.00	5.90	30.68	24.64	0.00	NA	65.82
15:10:34	13.62	9.22	0.00	6.19	28.14	17.60	0.00	NA	53.70
15:11:34	13.97	8.10	0.00	5.87	23.36	16.24	0.00	NA	46.84
15:12:34	14.26	9.10	0.00	5.54	26.53	19.04	0.00	NA	55.50
15:13:34	14.69	10.40	0.00	5.13	29.40	23.30	0.00	NA	65.84
15:14:34	15.04	11.73	0.00	4.86	32.94	27.84	0.00	NA	78.16
15:15:33	15.09	12.89	0.00	4.98	31.89	30.81	0.00	NA	76.22
15:16:33	14.51	12.91	0.00	5.56	27.08	28.08	0.00	NA	58.91
15:17:33	13.71	10.15	0.00	5.65	27.03	19.60	0.00	NA	52.22
15:18:33	14.51	9.06	0.00	5.07	30.46	19.71	0.00	NA	66.24
15:19:33	14.83	9.33	0.00	4.83	25.86	21.36	0.00	NA	59.22
15:20:33	14.89	9.53	0.00	4.93	27.18	22.05	0.00	NA	62.87
15:21:33	14.46	8.88	0.00	5.29	25.69	19.16	0.00	NA	55.46
15:22:33	14.00	7.61	0.00	5.45	22.84	15.33	0.00	NA	46.04
15:23:33	14.10	8.21	0.00	5.47	24.73	16.78	0.00	NA	50.53
15:24:33	13.60	8.33	0.00	6.25	21.89	15.87	0.00	NA	41.70
15:25:33	14.30	8.05	0.00	5.12	24.76	16.95	0.00	NA	52.14
15:26:33	15.08	8.70	0.00	4.94	26.22	20.78	0.00	NA	62.63
15:27:33	14.62	9.41	0.00	5.22	23.85	20.83	0.00	NA	52.77
15:28:32	14.19	9.53	0.00	5.28	22.35	19.73	0.00	NA	46.26
15:29:32	14.29	8.77	0.00	5.13	27.42	18.44	0.00	NA	57.63
15:30:32	14.53	7.86	0.00	5.06	21.34	17.15	0.00	NA	46.57
15:31:32	13.95	7.80	0.00	5.57	21.30	15.60	0.00	NA	42.59

BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME	O2	SO2	CO	CO2	Hcl	---------CCORRECTED TO 7% OXYGEN----			
9/16-OUT	(%V,dry)	(ppmV,dry)	(ppmV,dry)	(%V,dry)	(ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
15:32:32	14.35	6.50	0.00	5.07	20.36	13.79	0.00	NA	43.19
15:33:32	14.51	5.99	0.00	4.93	22.54	13.03	0.00	NA	49.00
15:34:32	14.73	5.66	0.00	4.86	18.66	12.74	0.00	NA	42.02
15:35:32	14.76	5.08	0.00	4.77	20.56	11.51	0.00	NA	46.55
15:36:32	14.92	4.38	0.03	4.67	20.51	10.18	0.08	NA	47.69
15:37:32	15.15	4.43	0.03	4.38	18.93	10.69	0.08	NA	45.72
15:38:32	14.92	4.20	0.08	5.36	18.51	9.78	0.18	NA	43.06
15:39:32	15.00	4.59	0.28	4.56	17.67	10.81	0.67	NA	41.66
15:40:32	15.80	4.46	0.50	4.26	23.42	12.15	1.37	NA	63.81
15:41:31	15.83	3.99	0.38	4.51	18.36	10.95	1.04	NA	50.35
15:42:31	14.89	3.90	0.00	4.78	16.76	9.01	0.00	NA	38.77
15:43:31	15.06	3.81	0.29	4.29	18.22	9.07	0.69	NA	43.38
15:44:31	16.09	3.91	0.70	4.14	18.88	11.32	2.02	NA	54.60
15:45:31	14.85	3.78	0.00	5.44	17.95	8.68	0.00	NA	41.27
15:46:31	14.41	3.70	0.02	4.74	16.15	7.92	0.05	NA	34.56
15:47:31	15.71	3.58	0.33	4.54	14.10	9.60	0.87	NA	37.75
15:48:31	15.47	3.49	0.28	4.59	17.54	8.94	0.73	NA	44.92
15:49:31	15.60	3.34	0.46	4.34	15.98	8.75	1.21	NA	41.92
15:50:31	15.85	3.28	0.54	4.21	13.70	9.04	1.49	NA	37.69
15:51:31	15.55	3.42	0.37	4.53	16.85	8.88	0.97	NA	43.81
15:52:31	15.20	3.27	0.05	5.11	15.77	7.98	0.11	NA	38.43
15:53:31	14.23	3.46	0.10	4.83	18.53	7.20	0.21	NA	38.59
15:54:30	16.21	3.25	0.91	3.79	18.34	9.64	2.70	NA	54.36
15:55:30	16.45	3.32	0.84	3.99	14.37	10.37	2.63	NA	44.89
15:56:30	15.38	3.34	0.48	4.42	13.96	8.40	1.20	NA	35.13
15:57:30	15.95	3.27	0.73	3.68	15.52	9.17	2.04	NA	43.55
15:58:30	16.40	3.07	0.82	3.93	21.81	9.47	2.54	NA	67.37

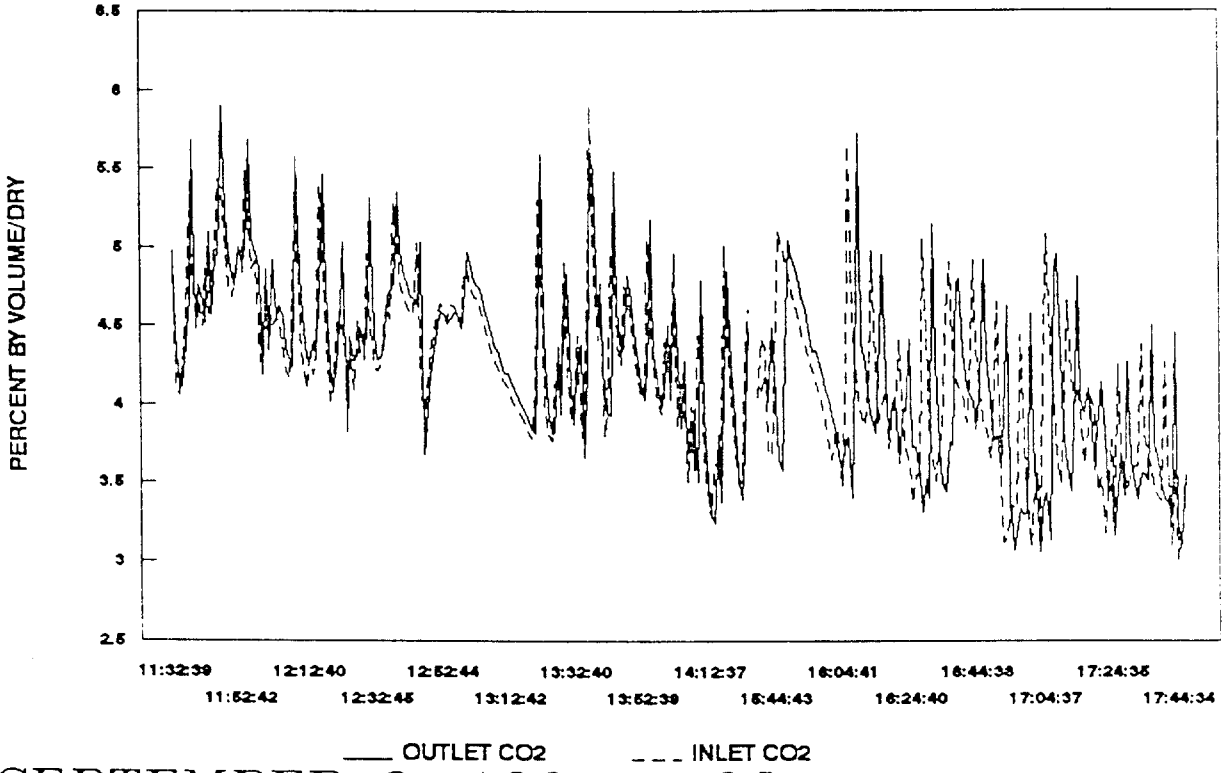
BORGESS MEDICAL CENTER
BAGHOUSE OUTLET
CONTINUOUS EMISSION MONITORS FOR SEPTEMBER 16, 1991

TIME 9/16-OUT	O2 (%V,dry)	SO2 (ppmV,dry)	CO (ppmV,dry)	CO2 (%V,dry)	Hcl (ppmV,dry)	SO2 (ppmV,dry	CO (ppmV,dry	CO2 (%V,dry)	Hcl (ppmV,wet
						---CCORRECTED TO 7% OXYGEN----			
15:59:30	15.39	3.22	0.39	4.69	13.42	8.14	0.99	NA	33.86
16:00:30	14.76	3.30	0.28	4.58	15.86	7.46	0.64	NA	35.89
16:01:30	16.35	3.11	1.14	3.65	16.70	9.51	3.47	NA	51.00
16:02:30	16.53	3.34	0.86	3.88	15.68	10.61	2.73	NA	49.87
16:03:30	15.47	3.16	0.51	4.49	12.49	8.09	1.32	NA	31.97
16:04:30	15.81	3.28	0.69	3.74	14.52	8.96	1.89	NA	39.66
16:05:30	16.51	3.06	0.69	3.92	15.41	9.68	2.19	NA	48.80
16:06:30	15.46	3.07	0.39	4.48	14.72	7.84	1.00	NA	37.59
16:07:29	14.86	3.43	0.28	5.04	13.64	7.90	0.65	NA	31.38
16:08:29	15.63	3.41	0.72	4.21	14.54	9.00	1.91	NA	38.37
16:09:29	16.09	3.62	0.75	4.02	15.43	10.44	2.16	NA	44.55
16:10:29	16.24	3.54	0.77	3.89	14.73	10.56	2.31	NA	43.96
16:11:29	16.28	3.46	0.71	3.80	14.14	10.41	2.15	NA	42.51
16:12:29	16.22	3.86	0.54	3.97	15.72	11.47	1.61	NA	46.74
16:13:29	15.81	3.80	0.39	4.08	15.42	10.37	1.08	NA	42.06
16:14:29	15.12	3.91	0.30	5.24	14.93	9.40	0.72	NA	35.88
16:15:29	15.29	3.66	0.91	3.95	15.21	9.07	2.25	NA	37.71
16:16:29	16.42	3.49	0.84	3.85	16.15	10.84	2.60	NA	50.17
(pre & post port change averages)	13.97	9.29	0.01	5.55	25.87	18.49	0.03		52.33
	14.93	7.62	0.34	4.85	34.39	17.29	0.88		78.50
FINAL AVE.	14.38	8.58	0.15	5.25	29.47	17.98	0.39		63.40
CV	0.06	0.49	6.41	0.14	0.67	0.45	5.92		0.69

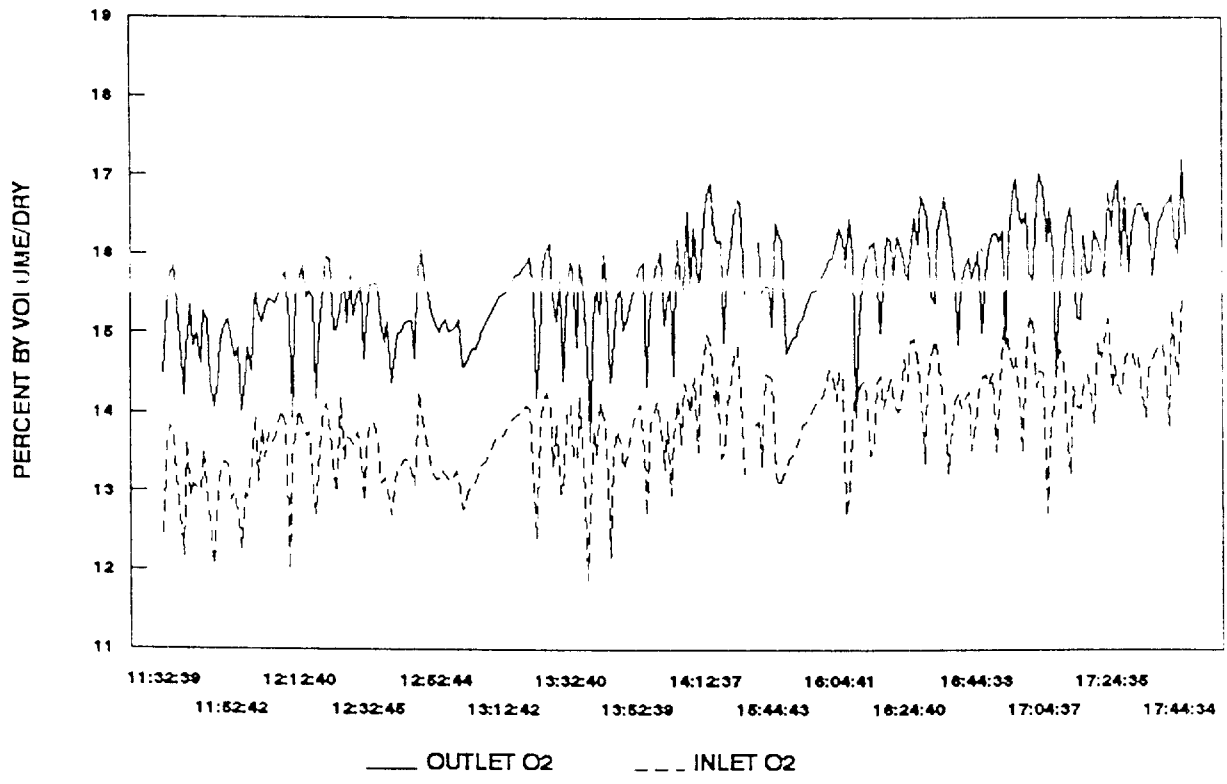
APPENDIX D.2

CELL PLOTS

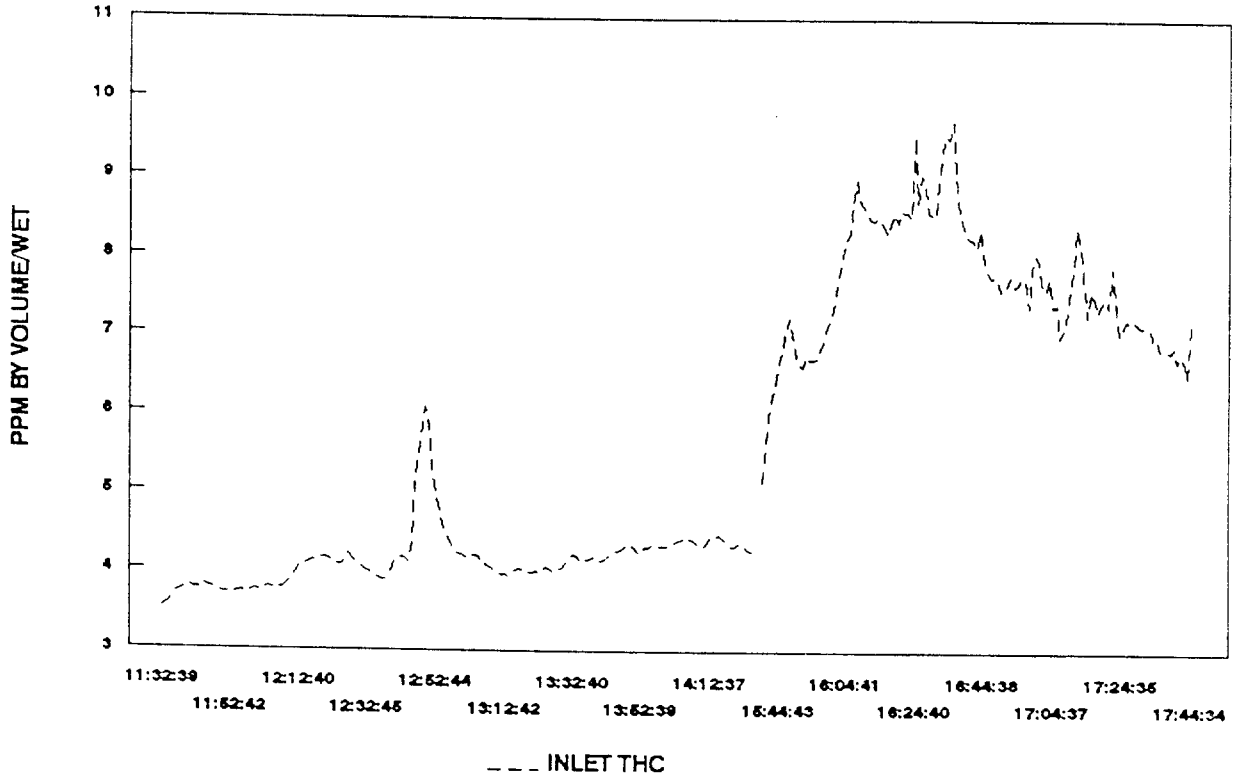
SEPTEMBER 9, 1991 – CO2



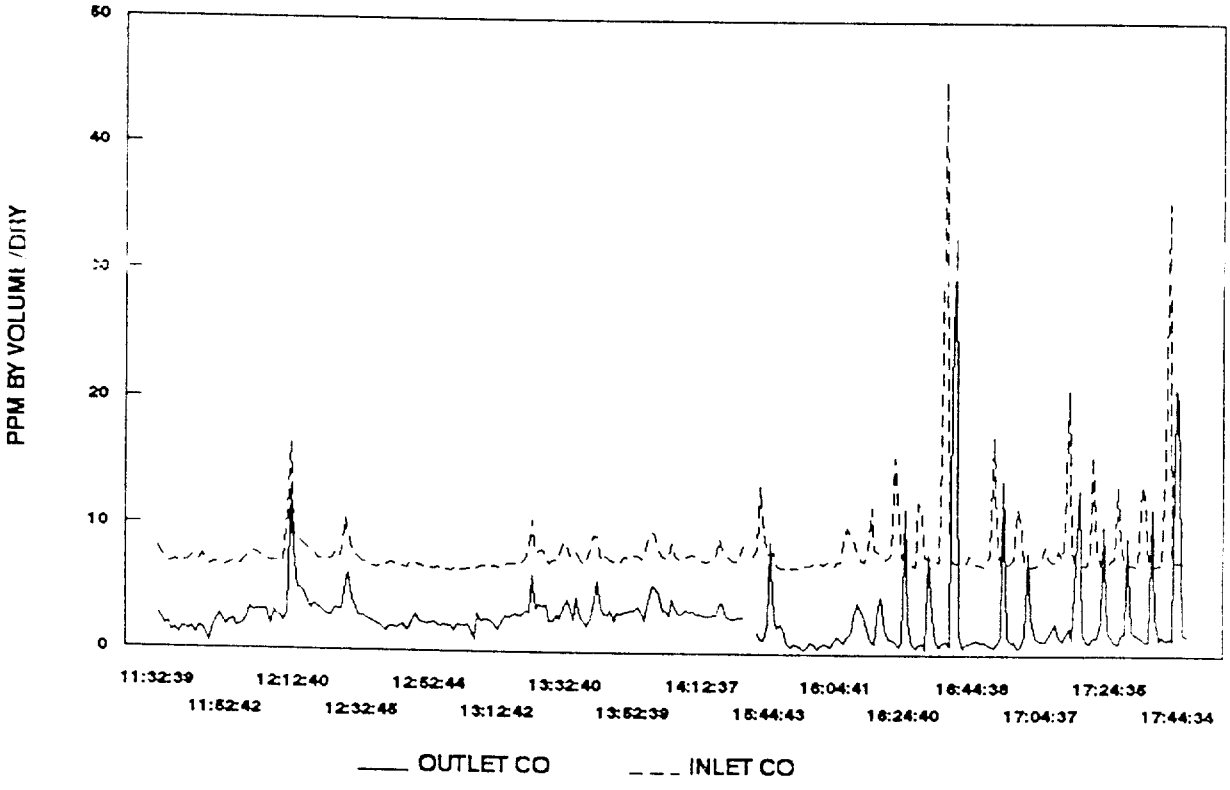
SEPTEMBER 9, 1991 – 02



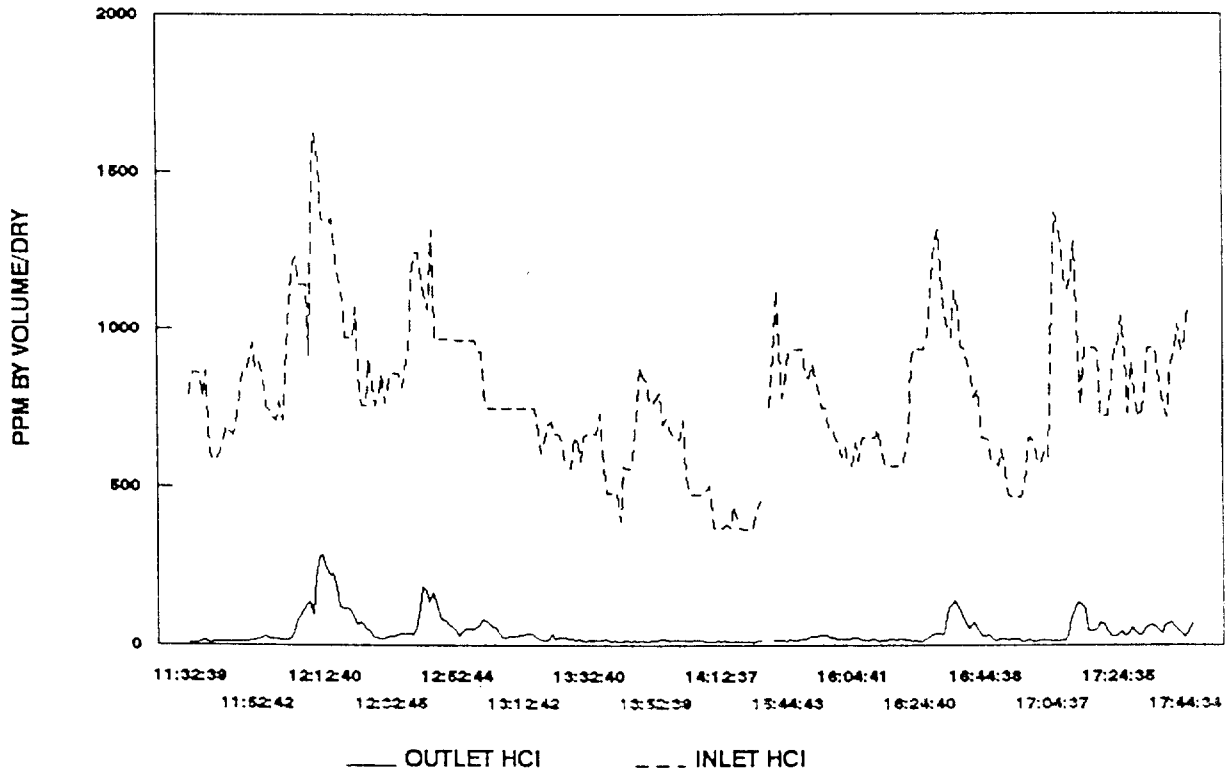
SEPTEMBER 9, 1991 – THC



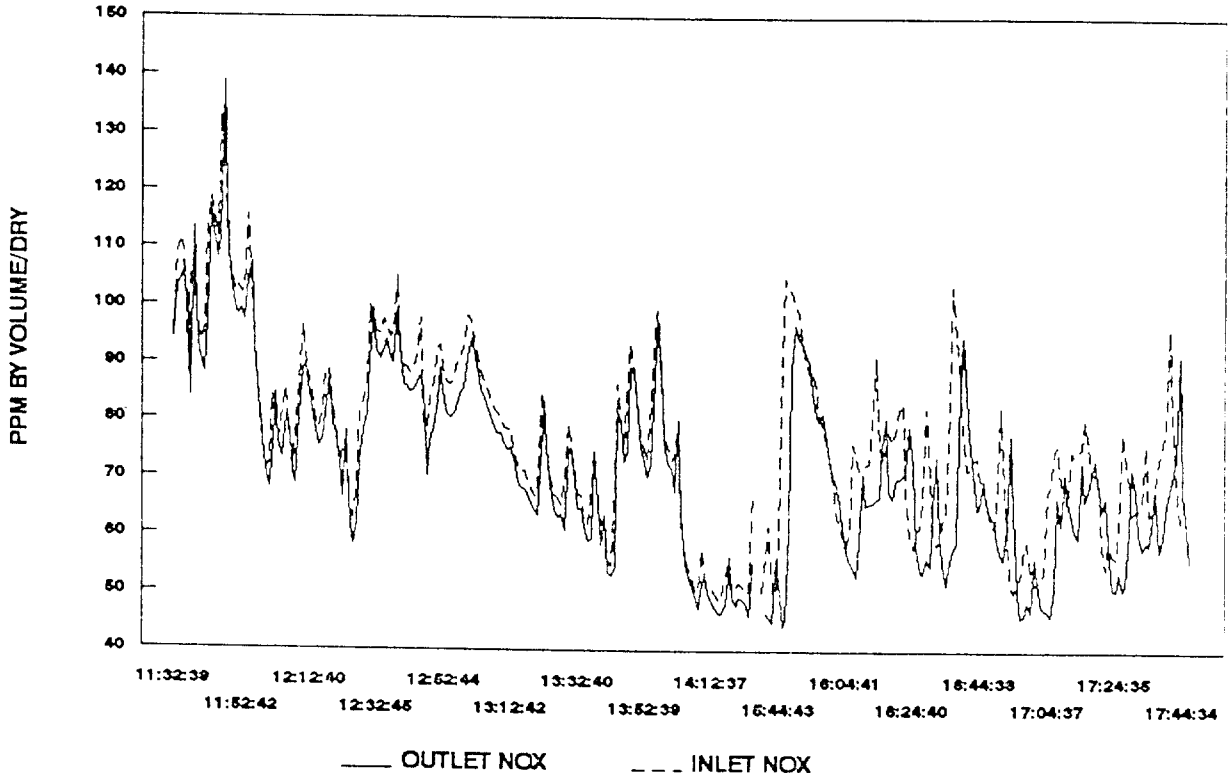
SEPTEMBER 9, 1991 – CO



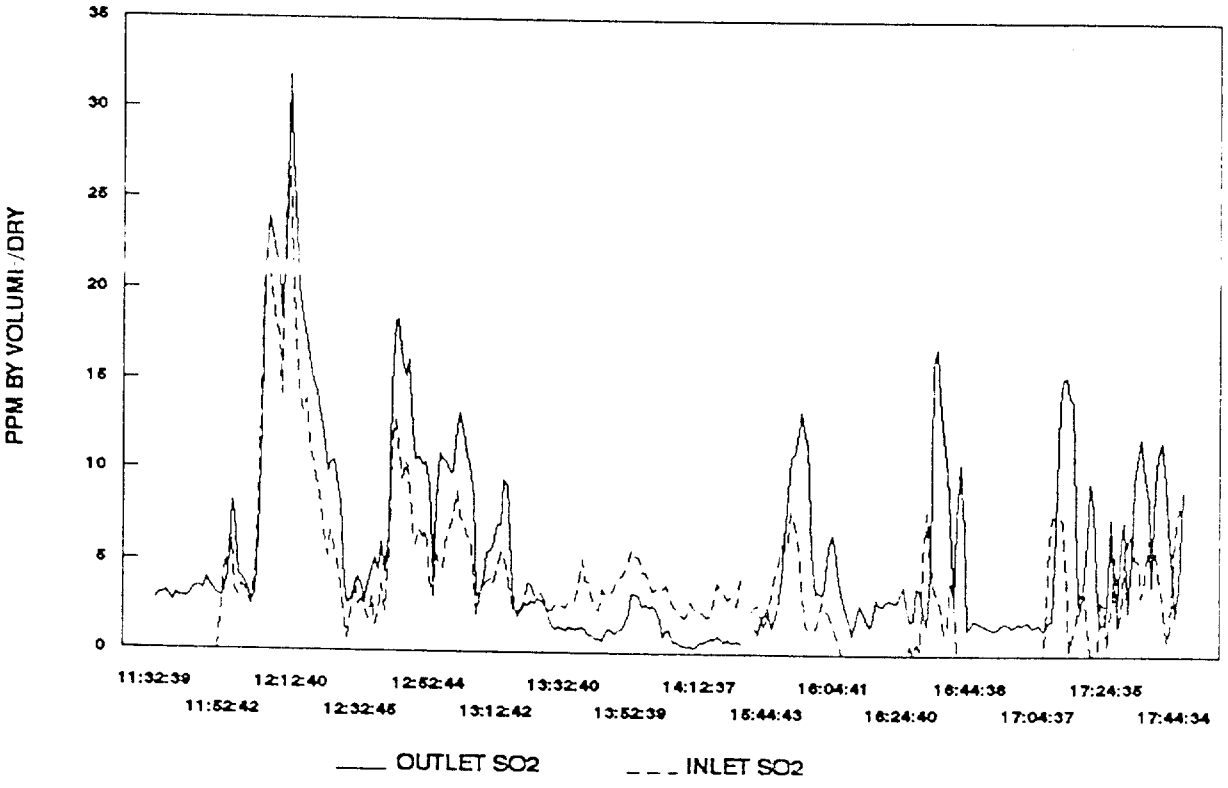
SEPTEMBER 9, 1991 – HCl



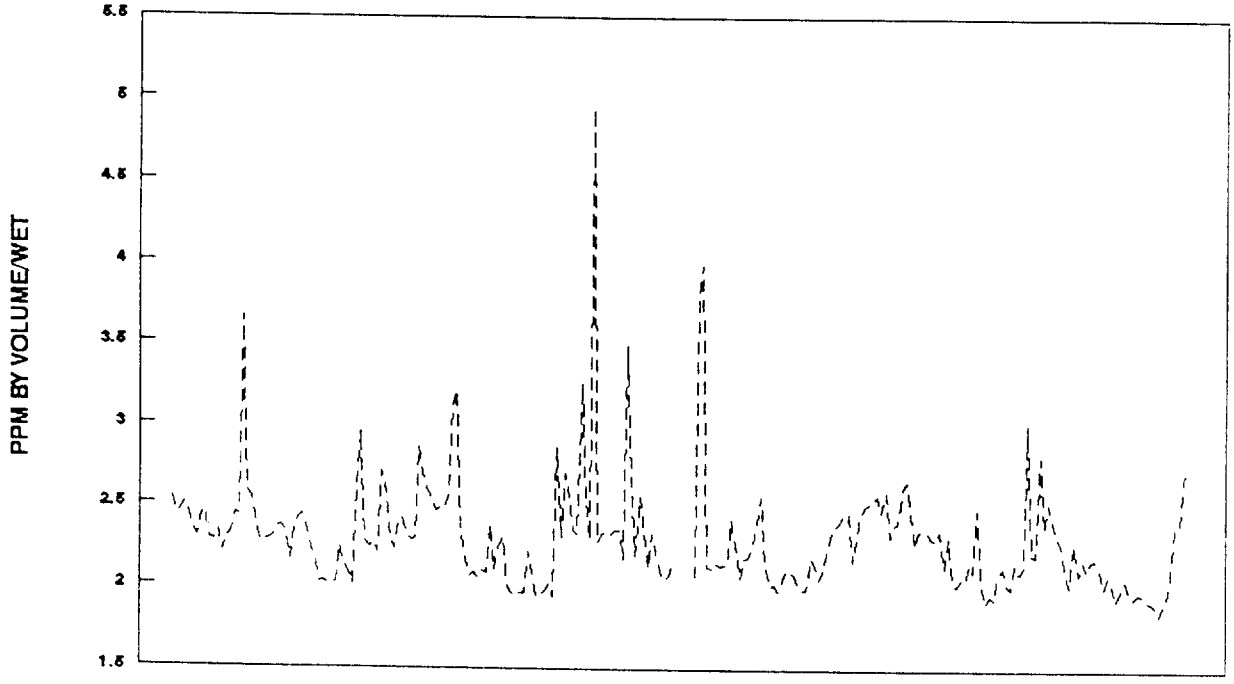
SEPTEMBER 9, 1991 – NOX



SEPTEMBER 9, 1991 – SO2

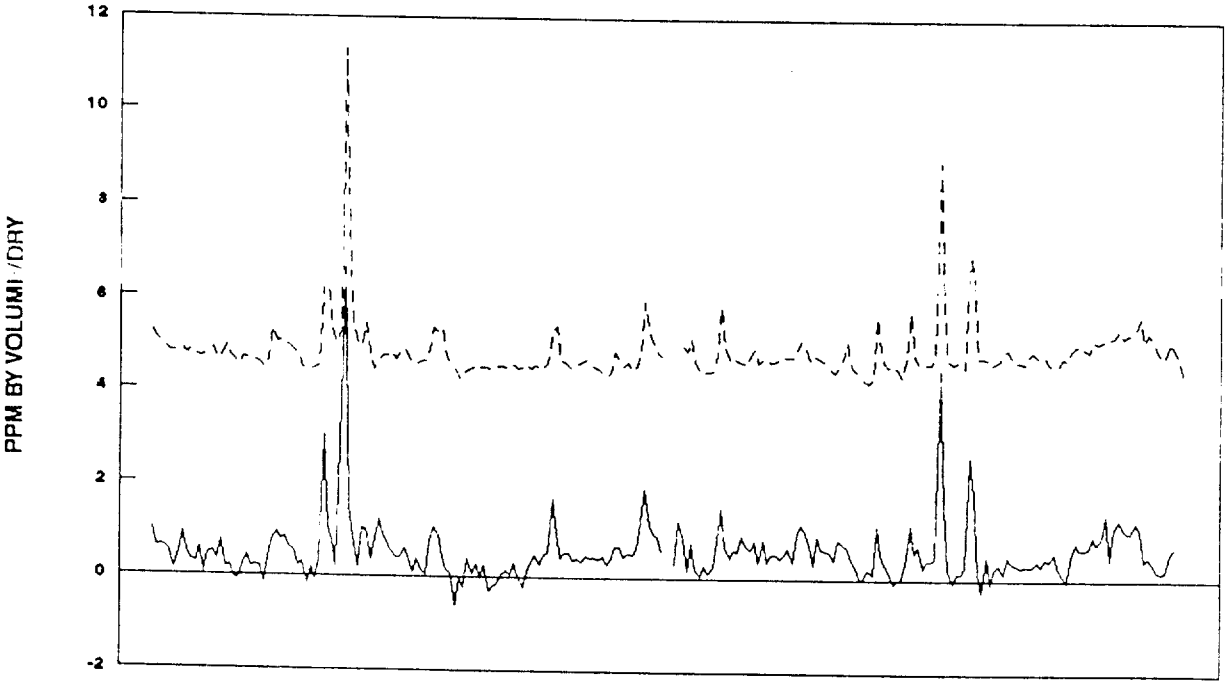


SEPTEMBER 10, 1991 – THC



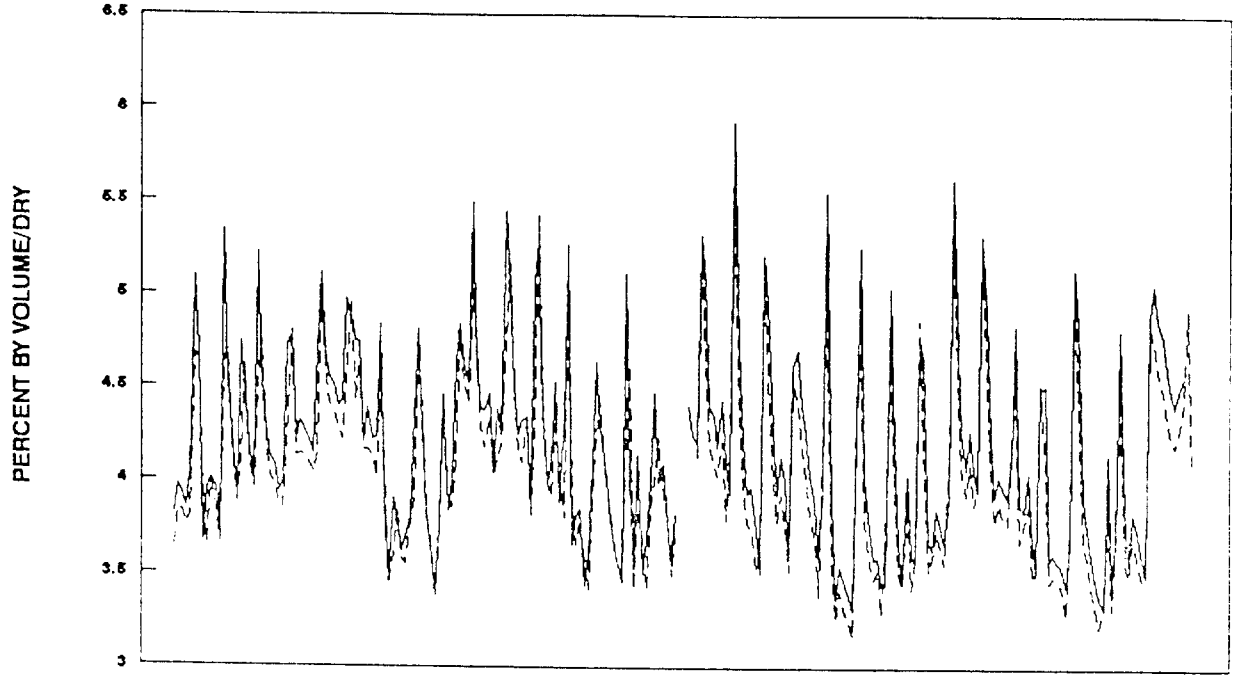
--- INLET THC

SEPTEMBER 10, 1991 – CO

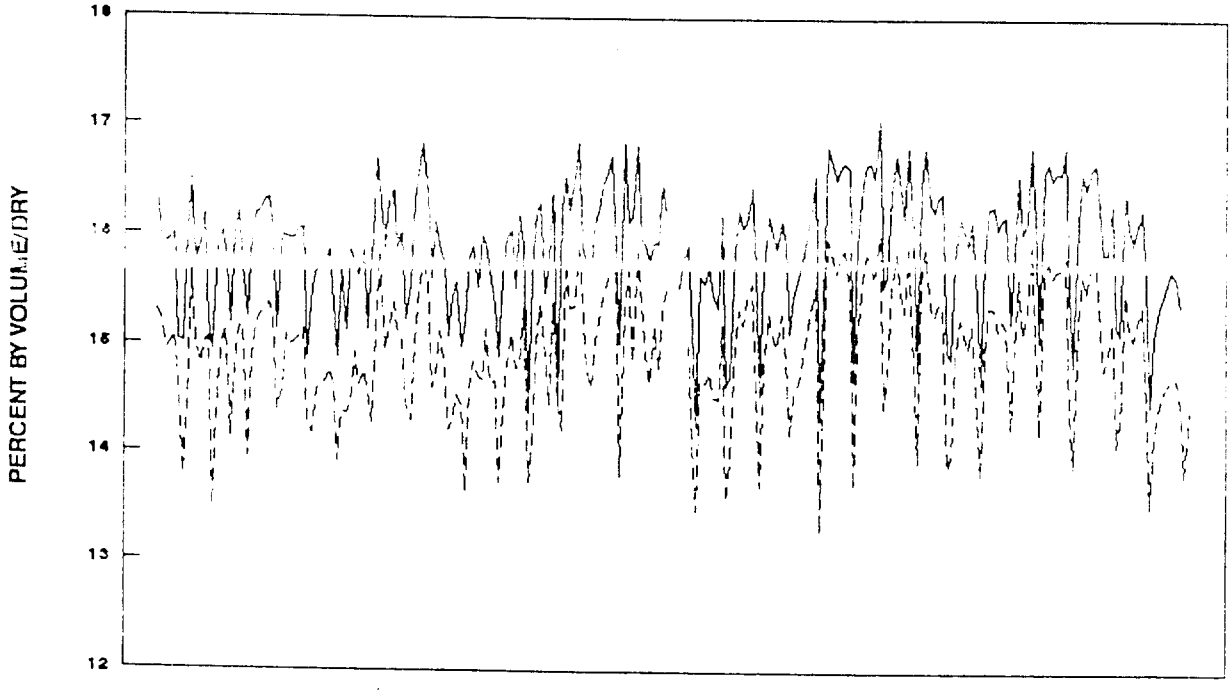


—— OUTLET CO --- INLET CO

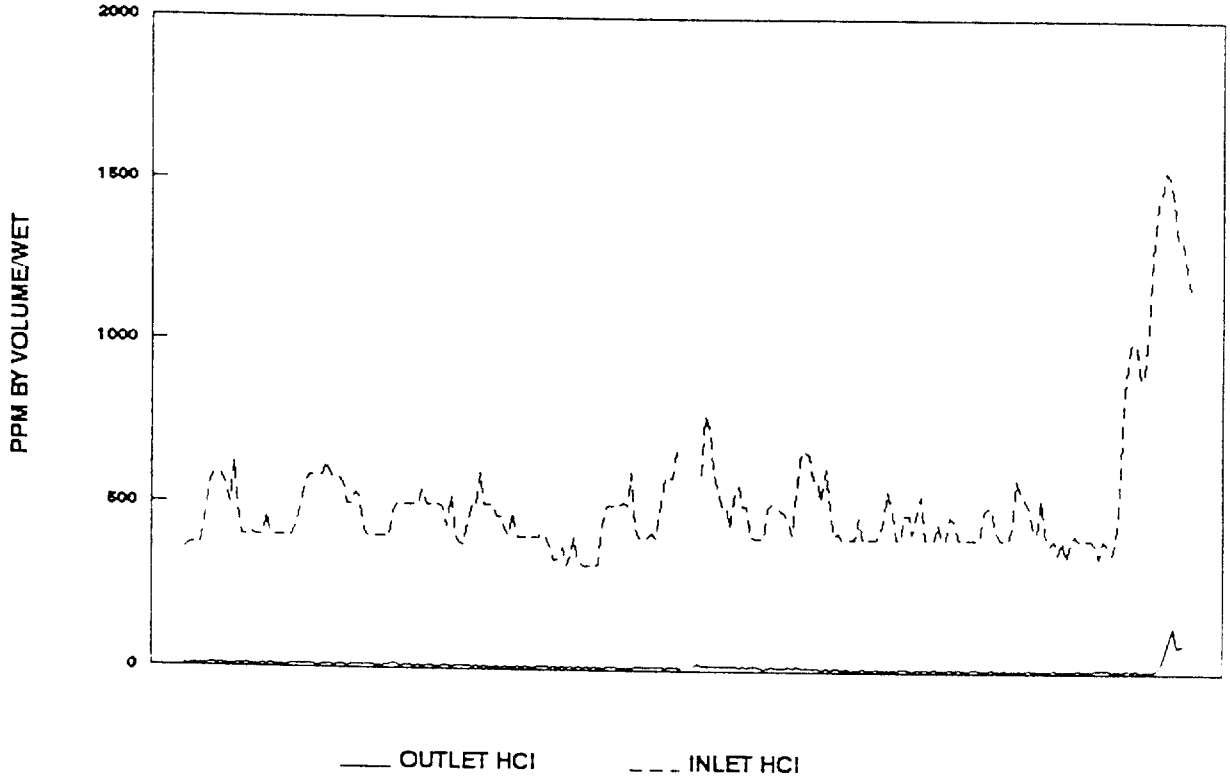
SEPTEMBER 10, 1991 – CO2



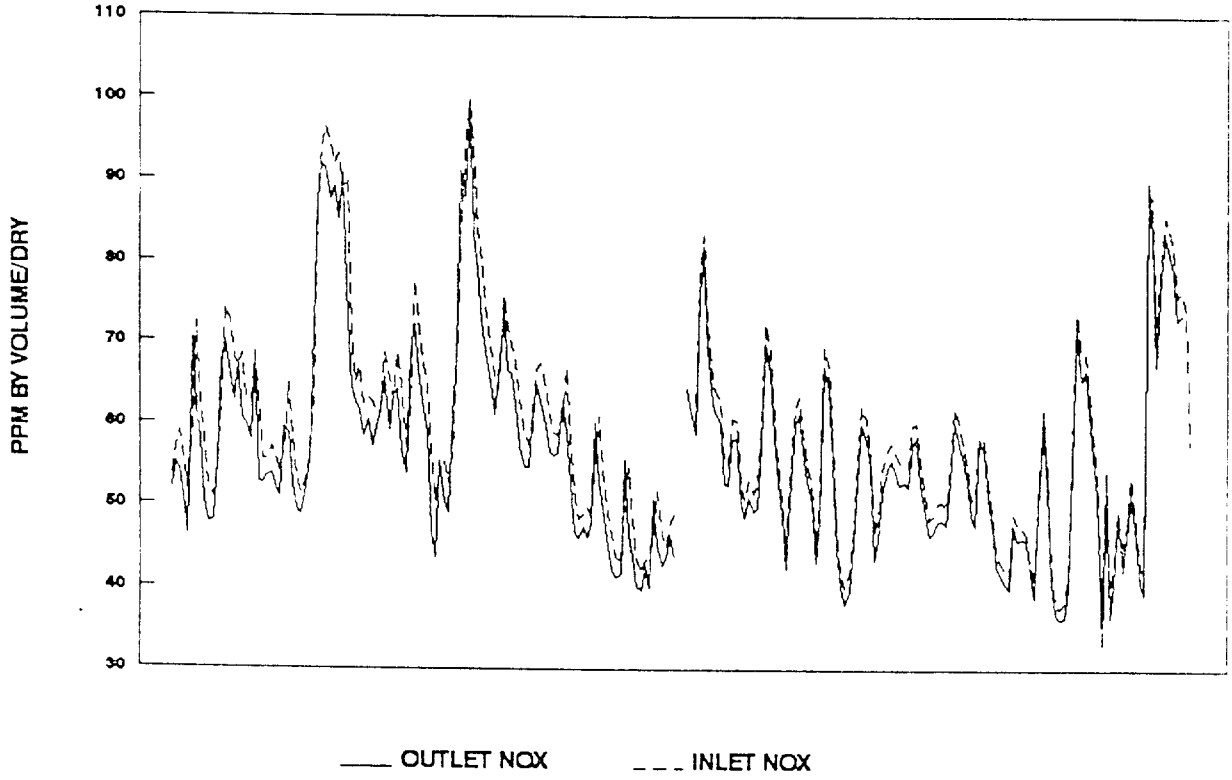
SEPTEMBER 10, 1991 – O2



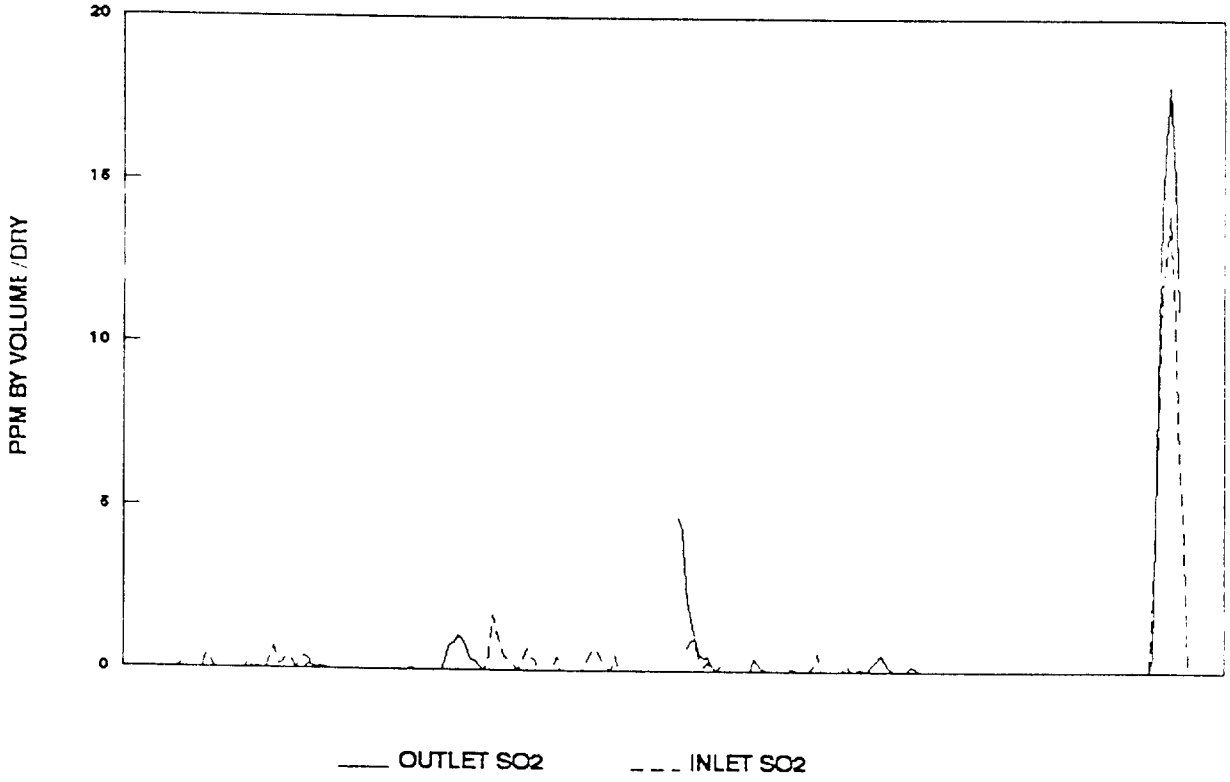
SEPTEMBER 10, 1991 – HCl



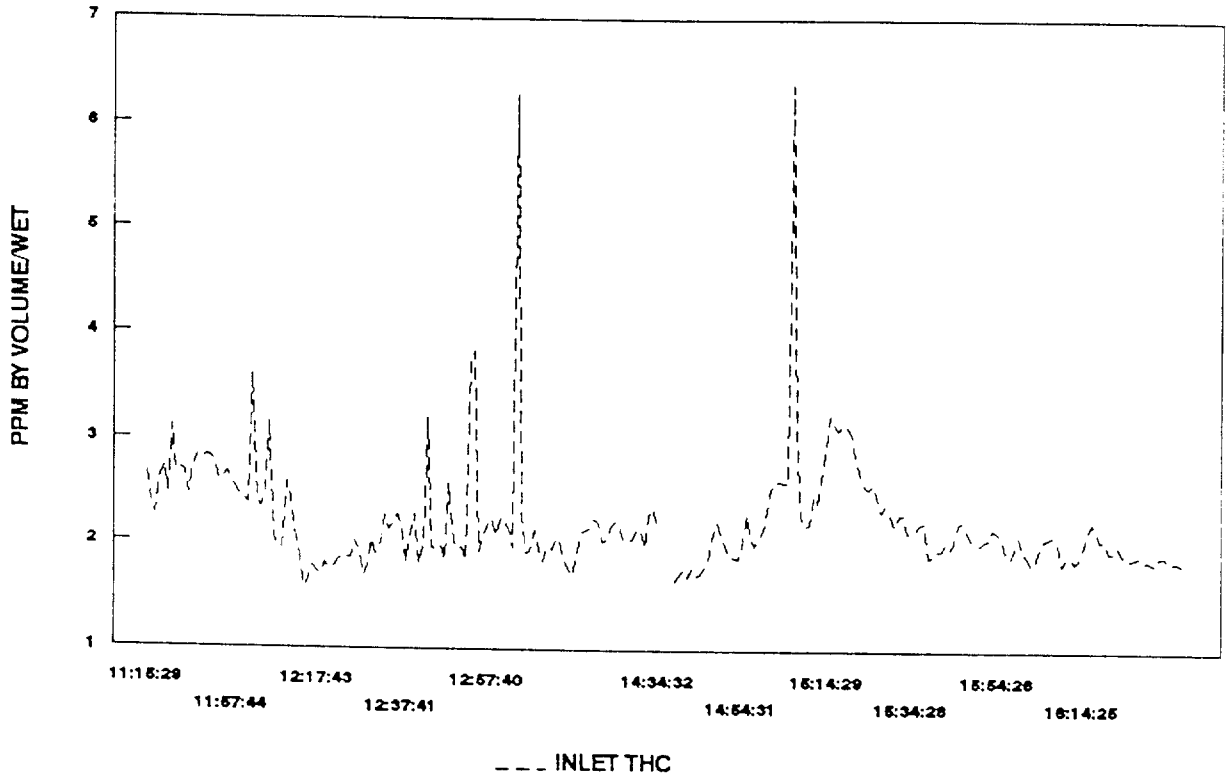
SEPTEMBER 10, 1991 – NOX



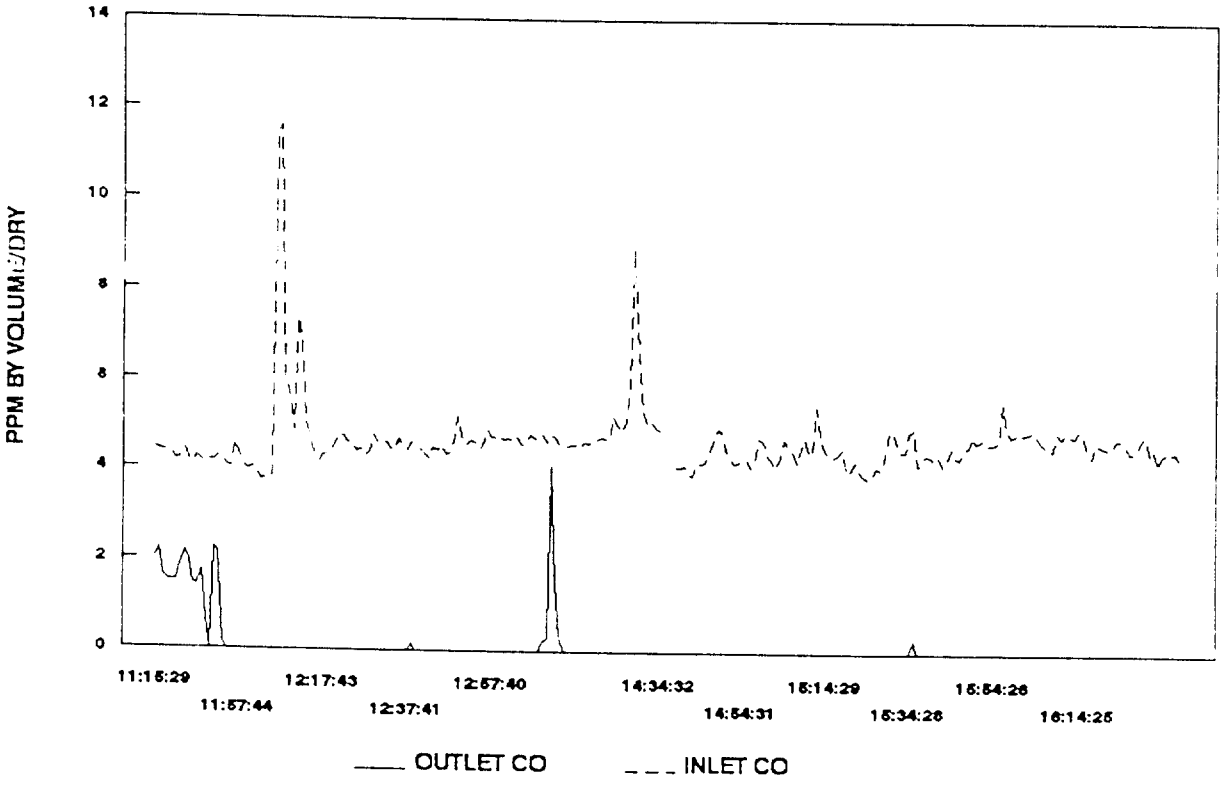
SEPTEMBER 10, 1991 – SO2



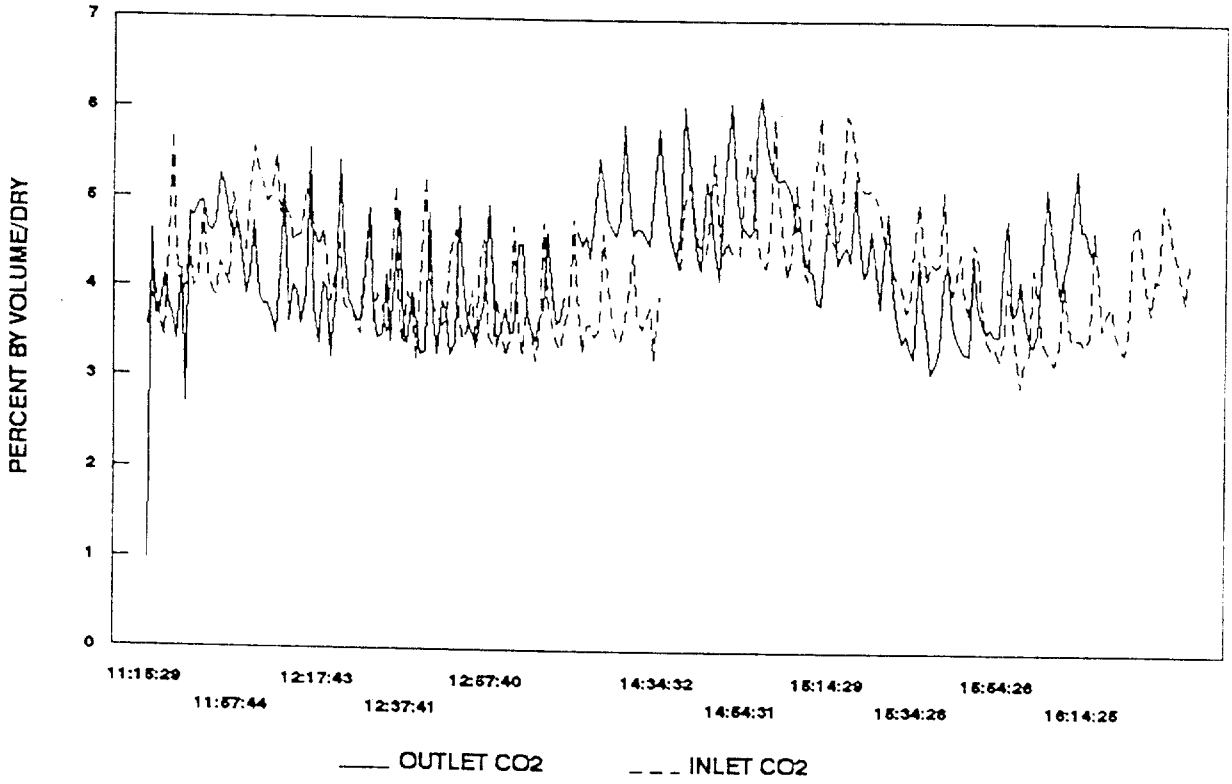
SEPTEMBER 11, 1991 – THC



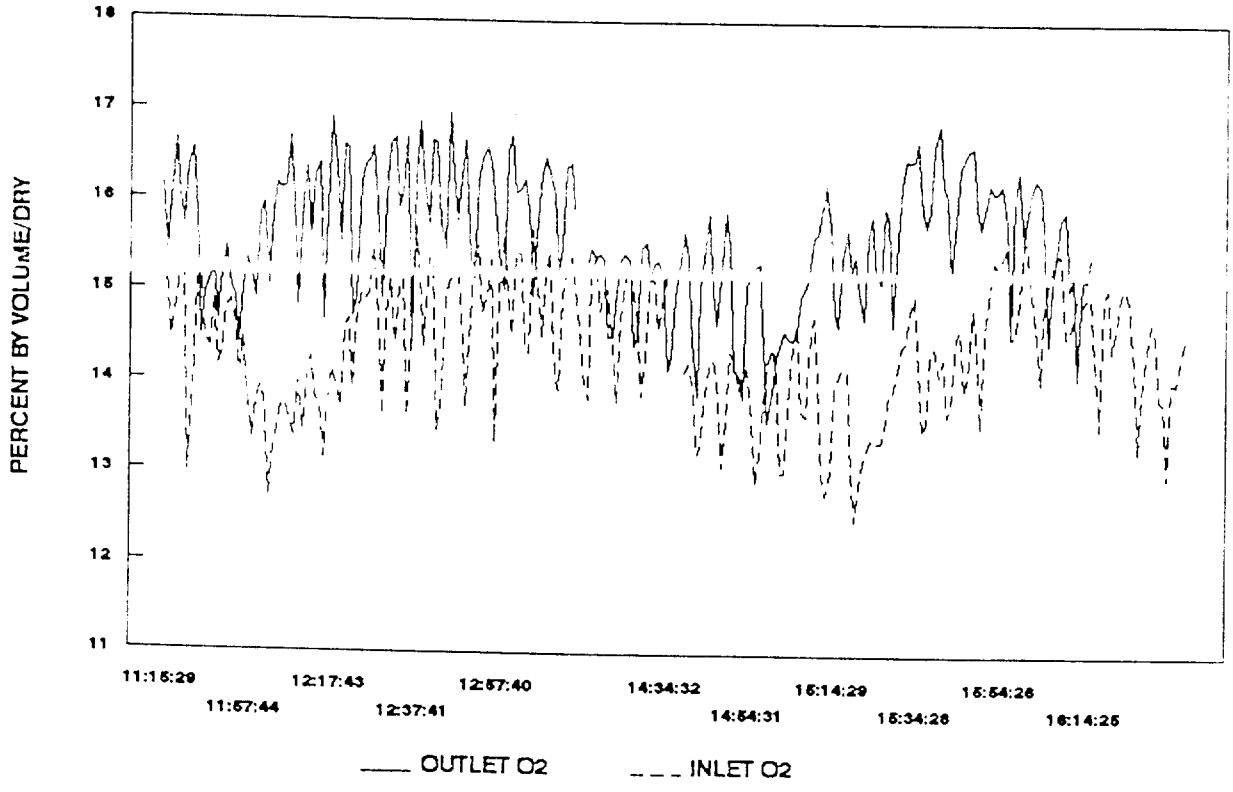
SEPTEMBER 11, 1991 – CO



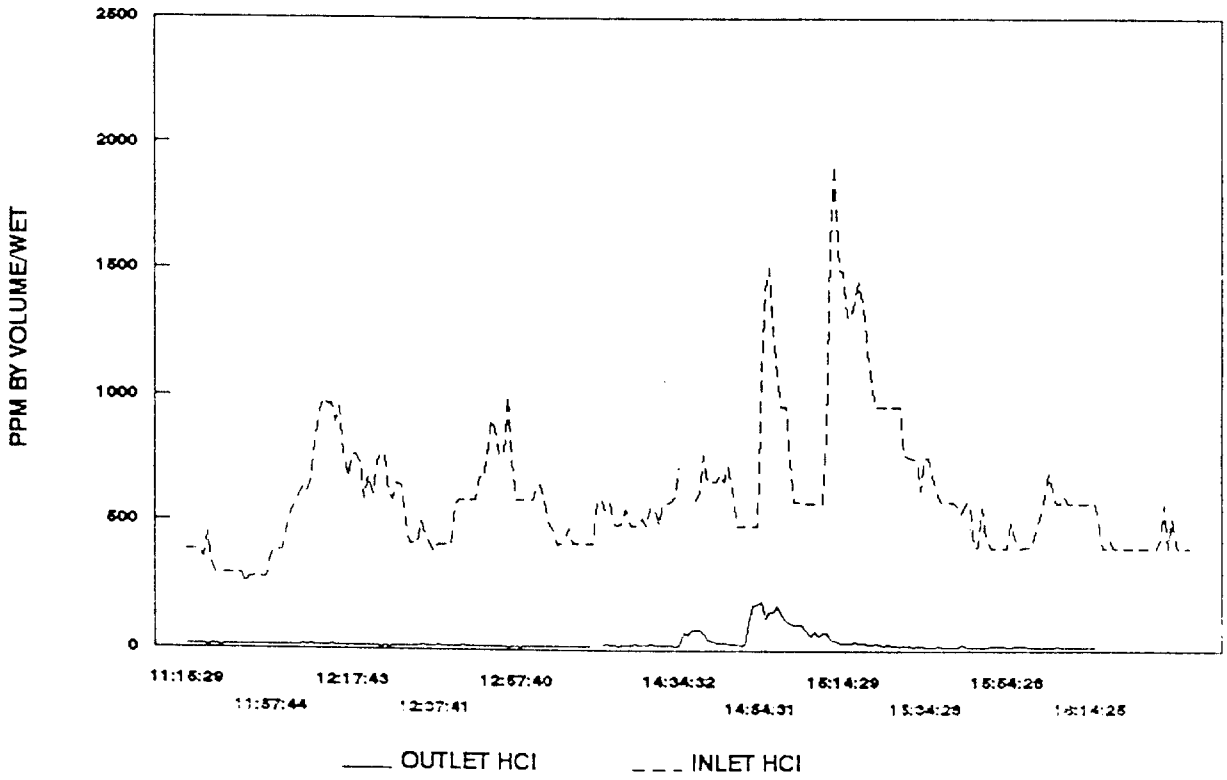
SEPTEMBER 11, 1991 – CO2



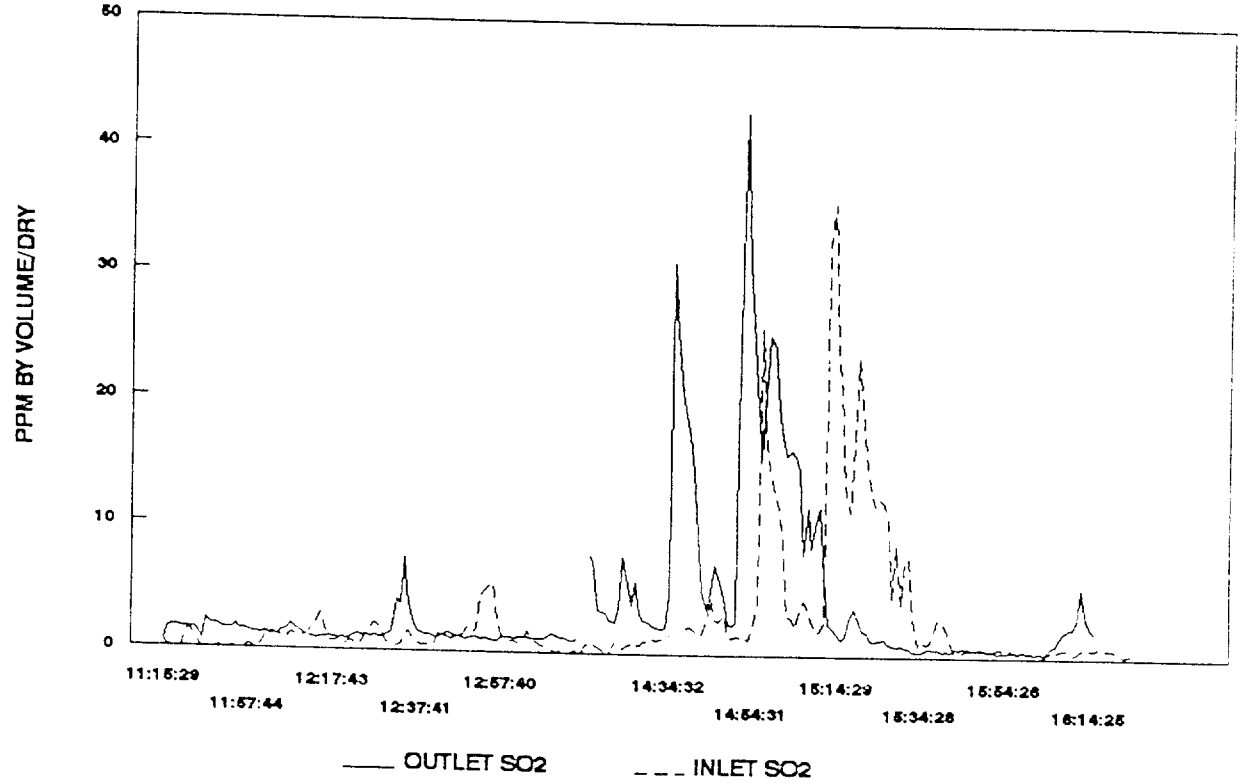
SEPTEMBER 11, 1991 – 02



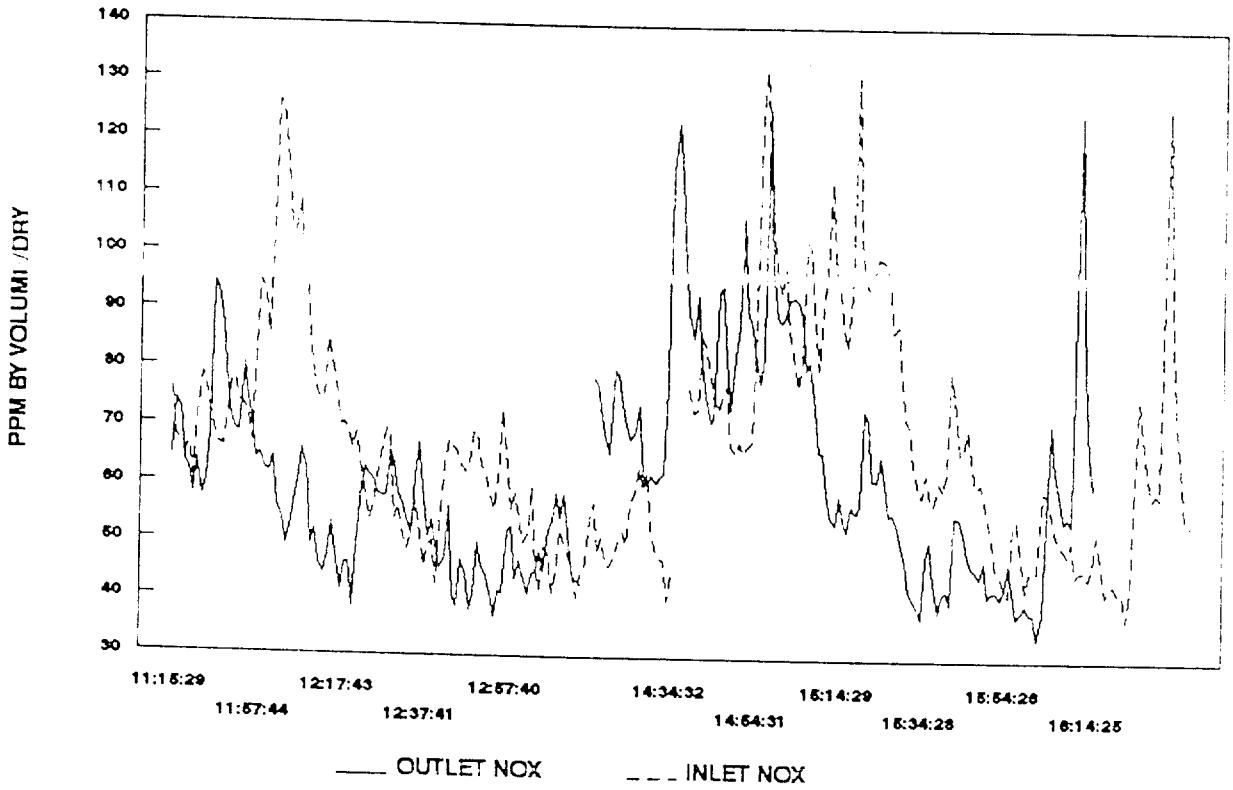
SEPTEMBER 11, 1991 – HCl



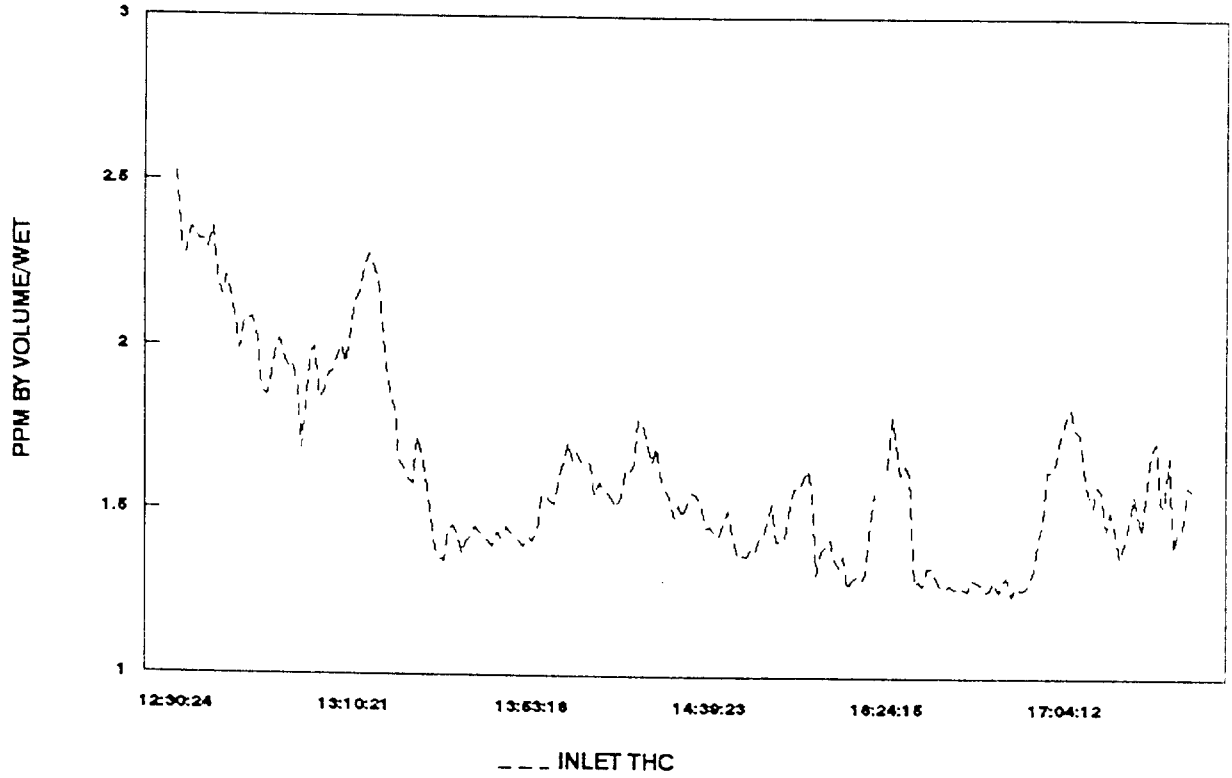
SEPTEMBER 11, 1991 – SO2



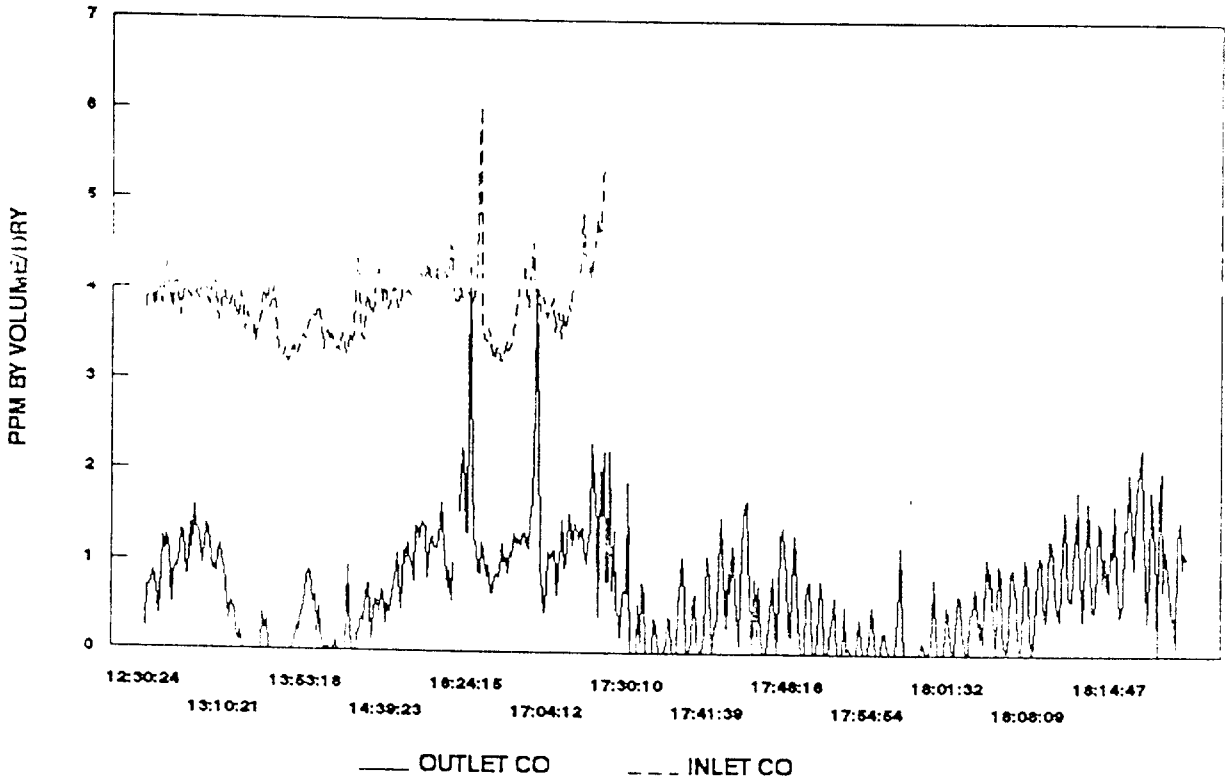
SEPTEMBER 11, 1991 – NOX



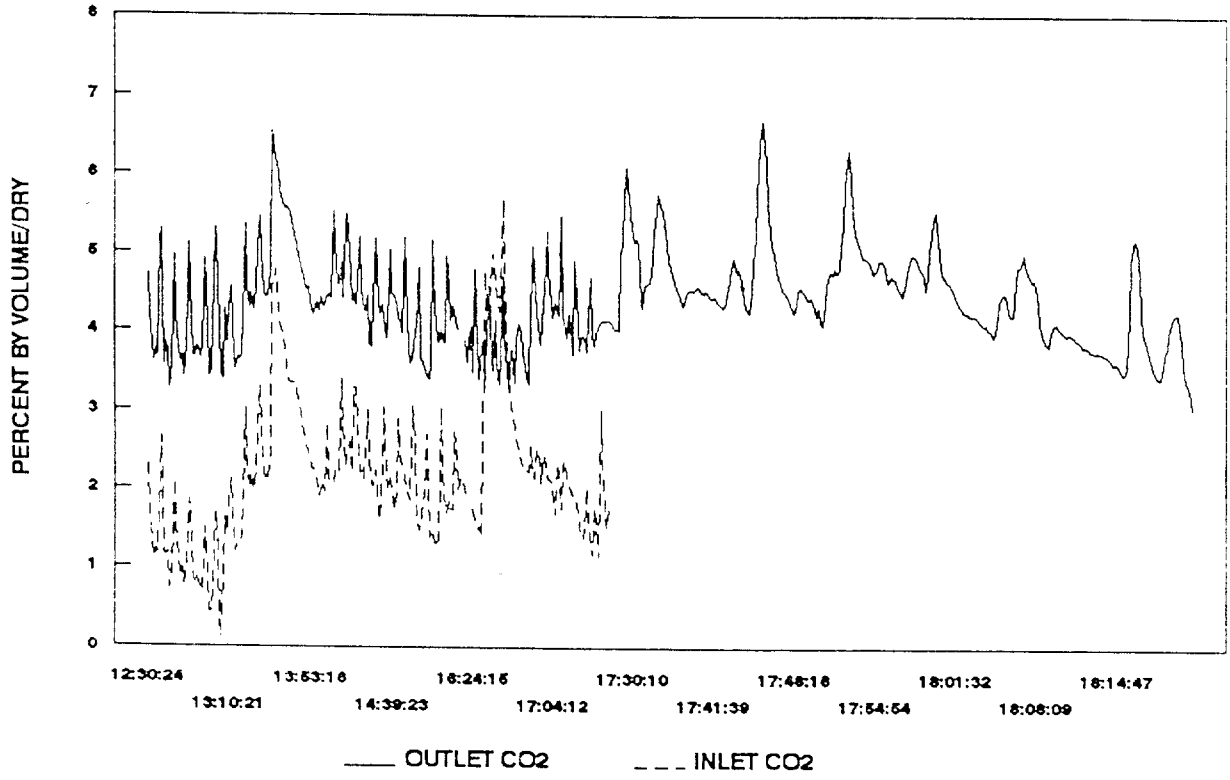
SEPTEMBER 12, 1991 – THC



SEPTEMBER 12, 1991 – CO



SEPTEMBER 12, 1991 – CO2



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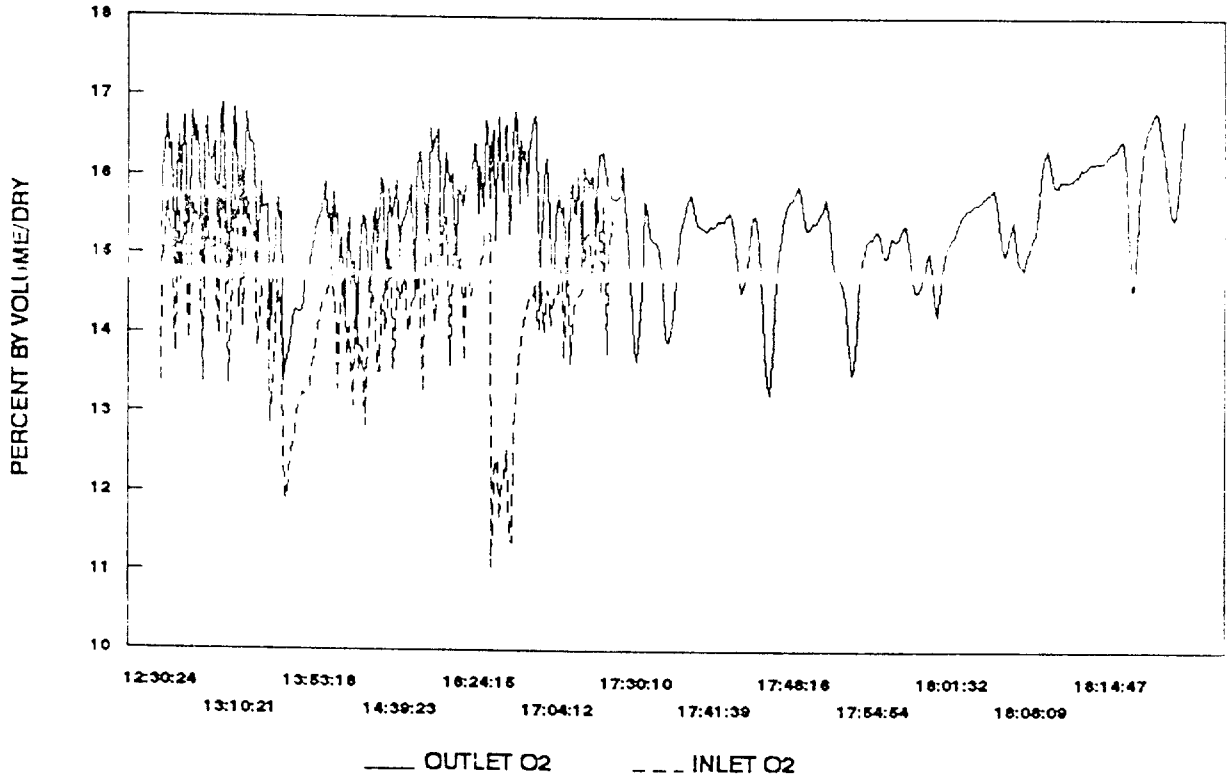
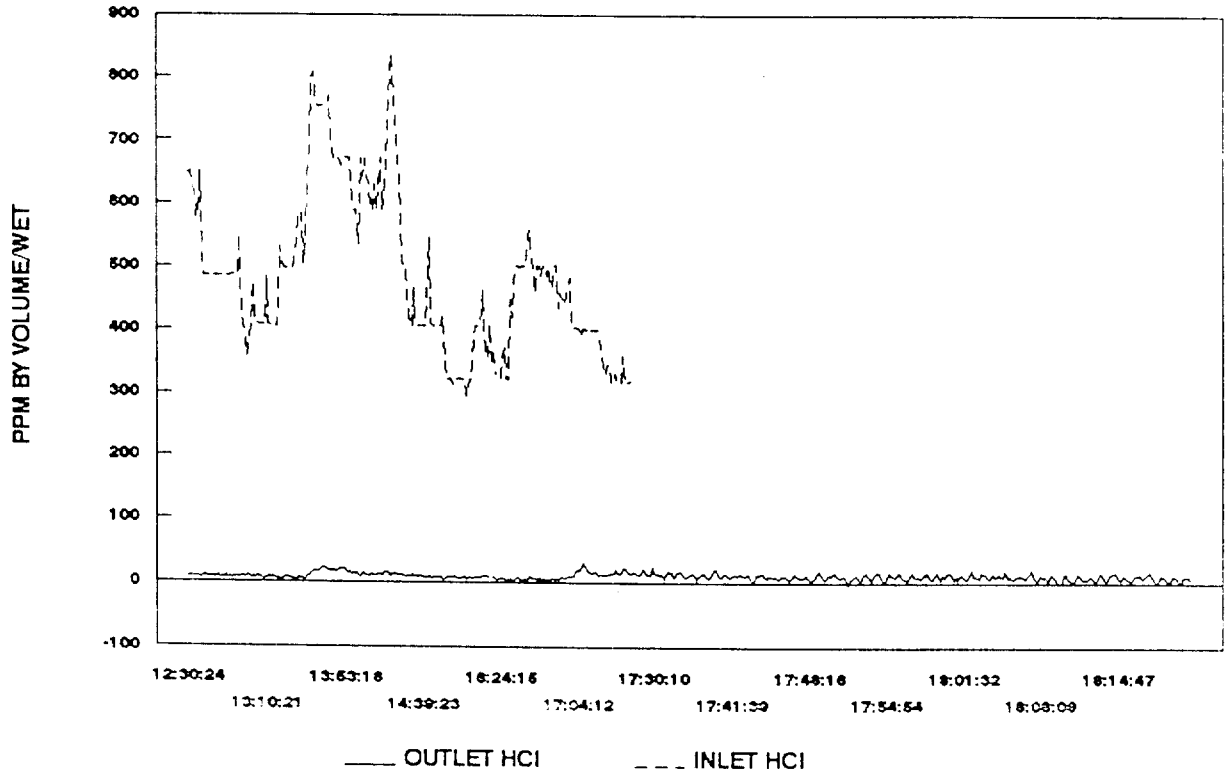


SEPTEMBER 12, 1991 – HCl



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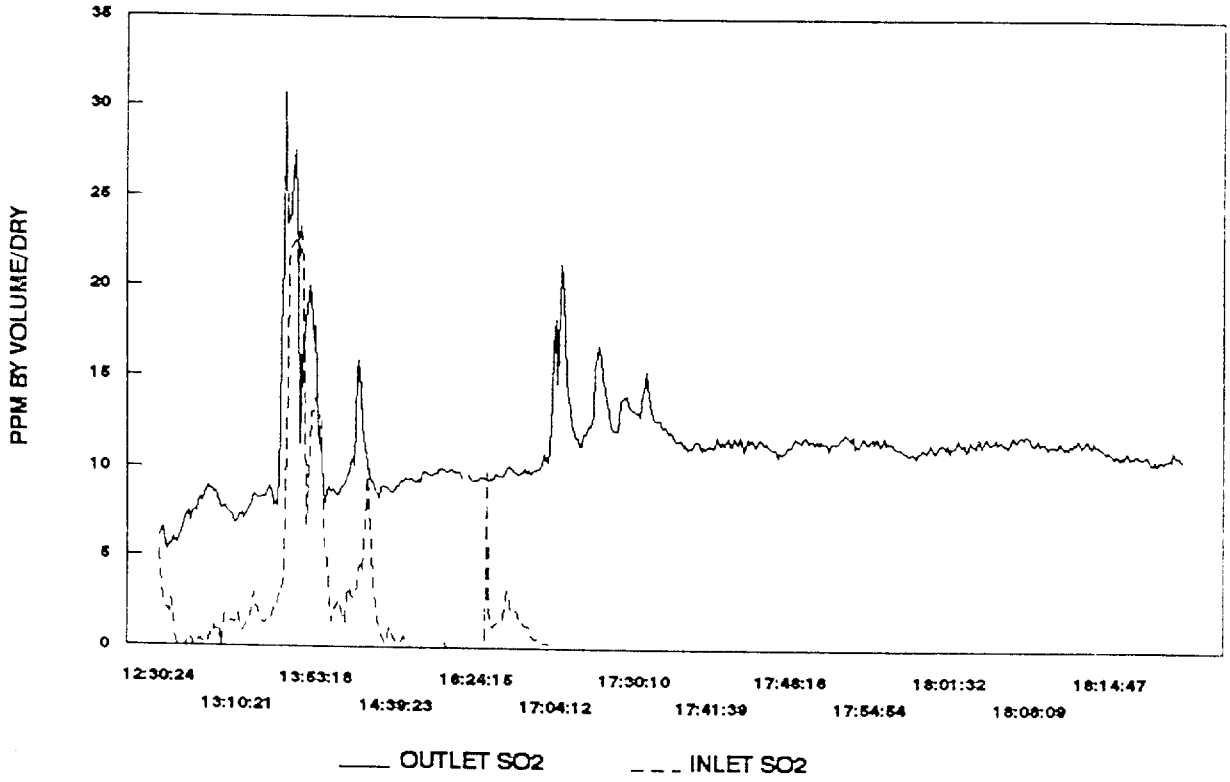
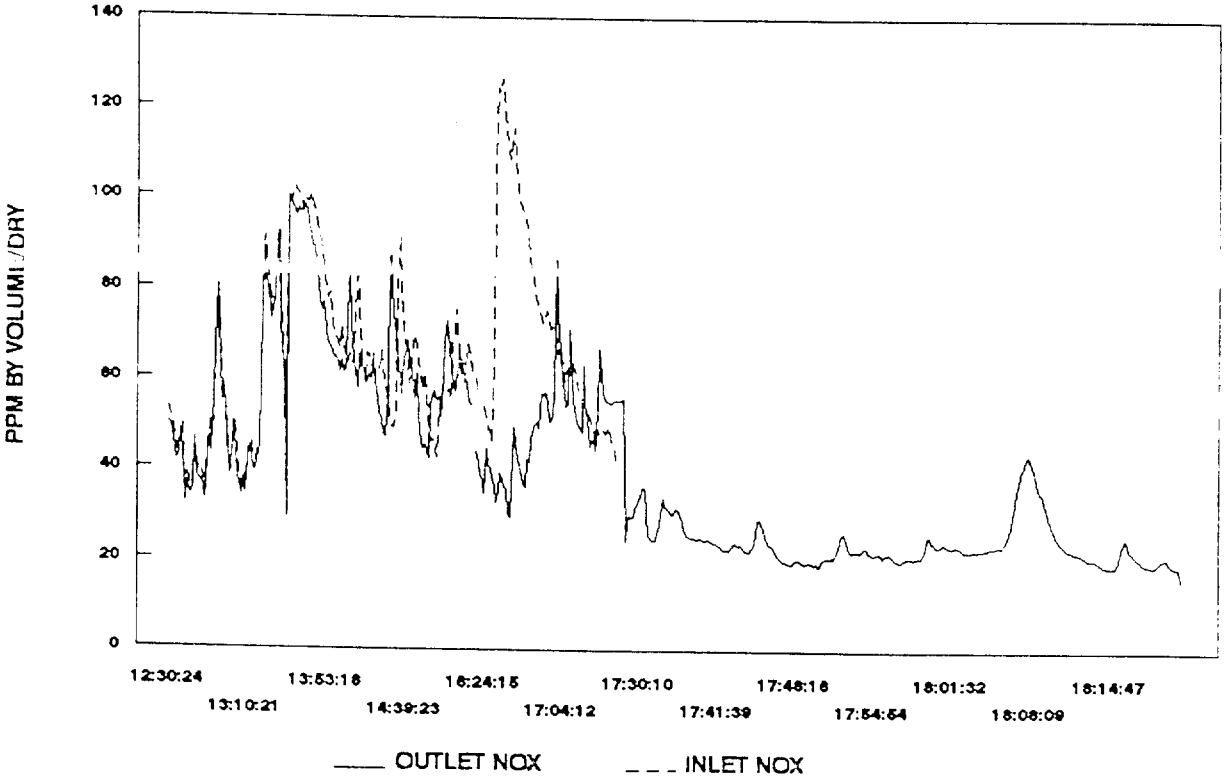
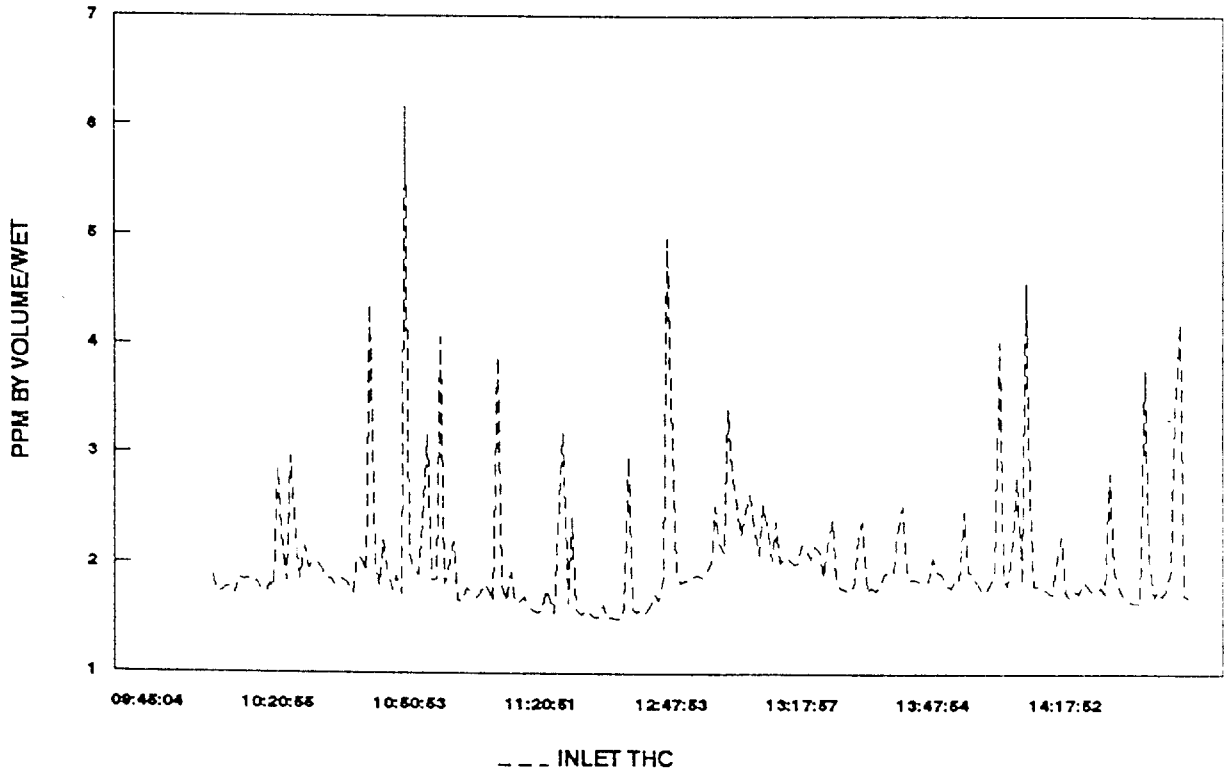


SEPTEMBER 12, 1991 – NOX



SEPTEMBER 13, 1991 – THC



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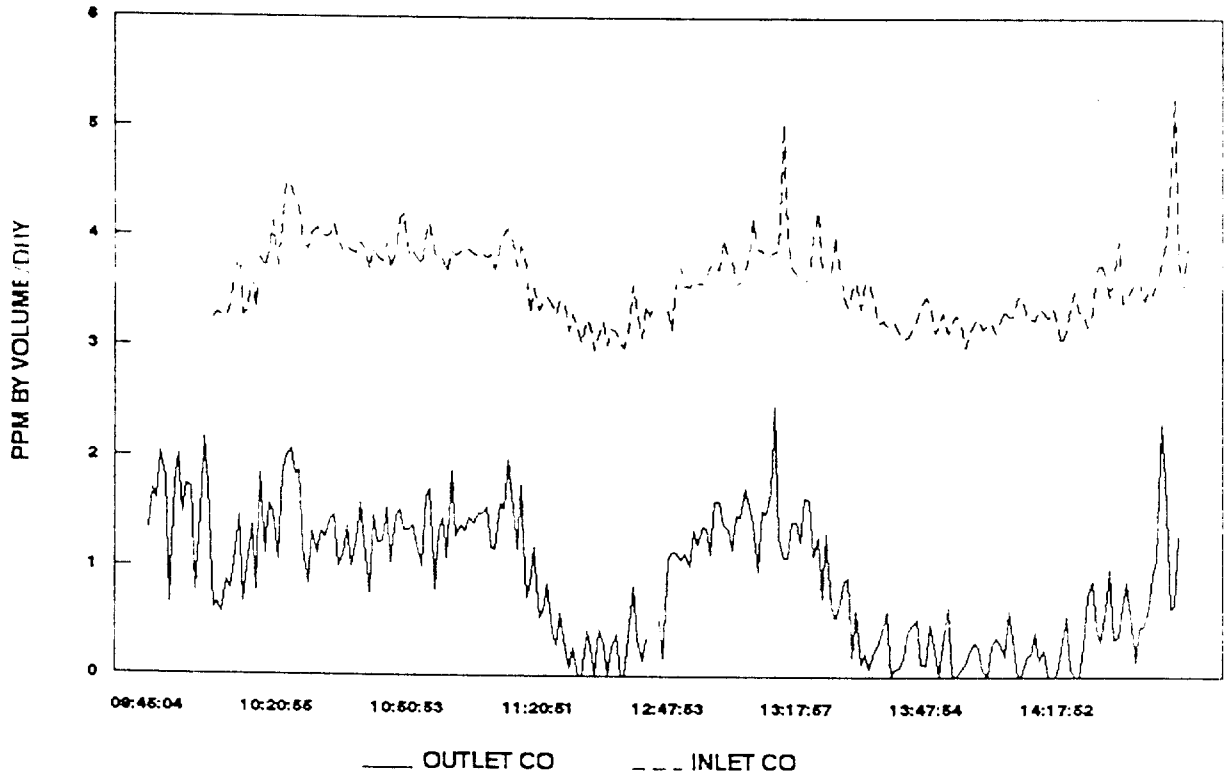

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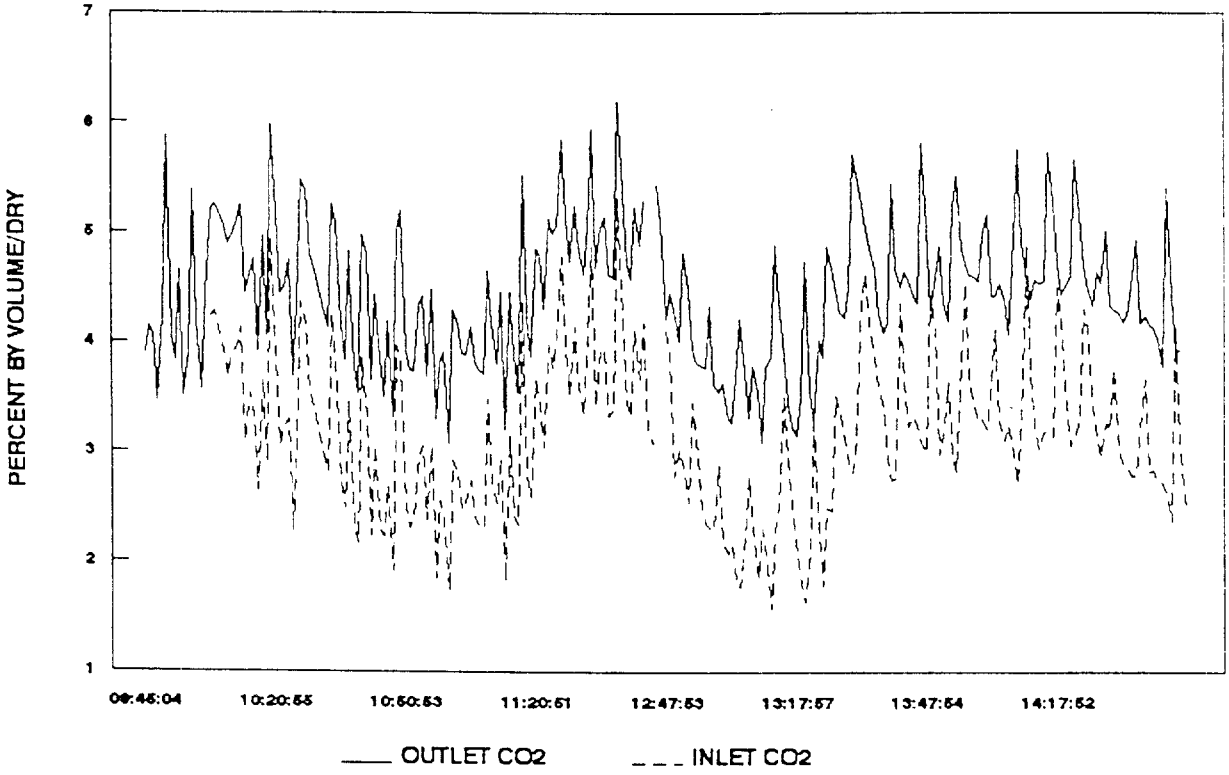
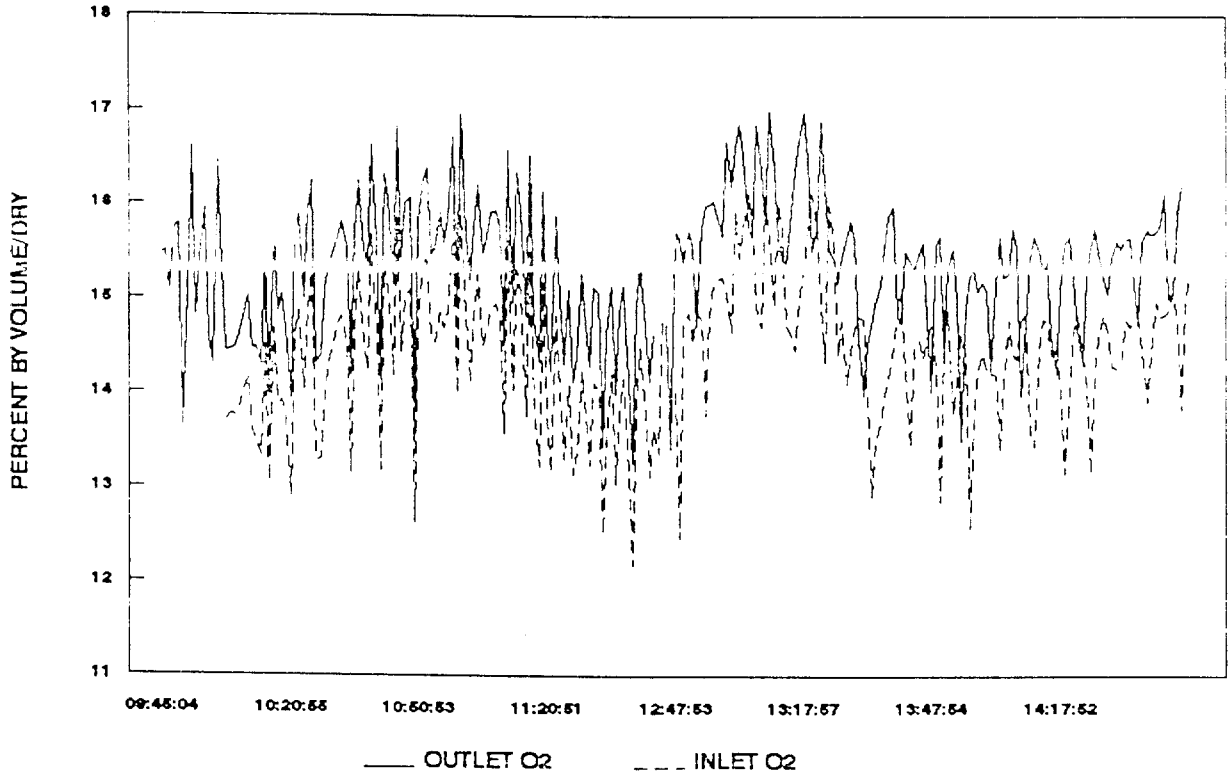
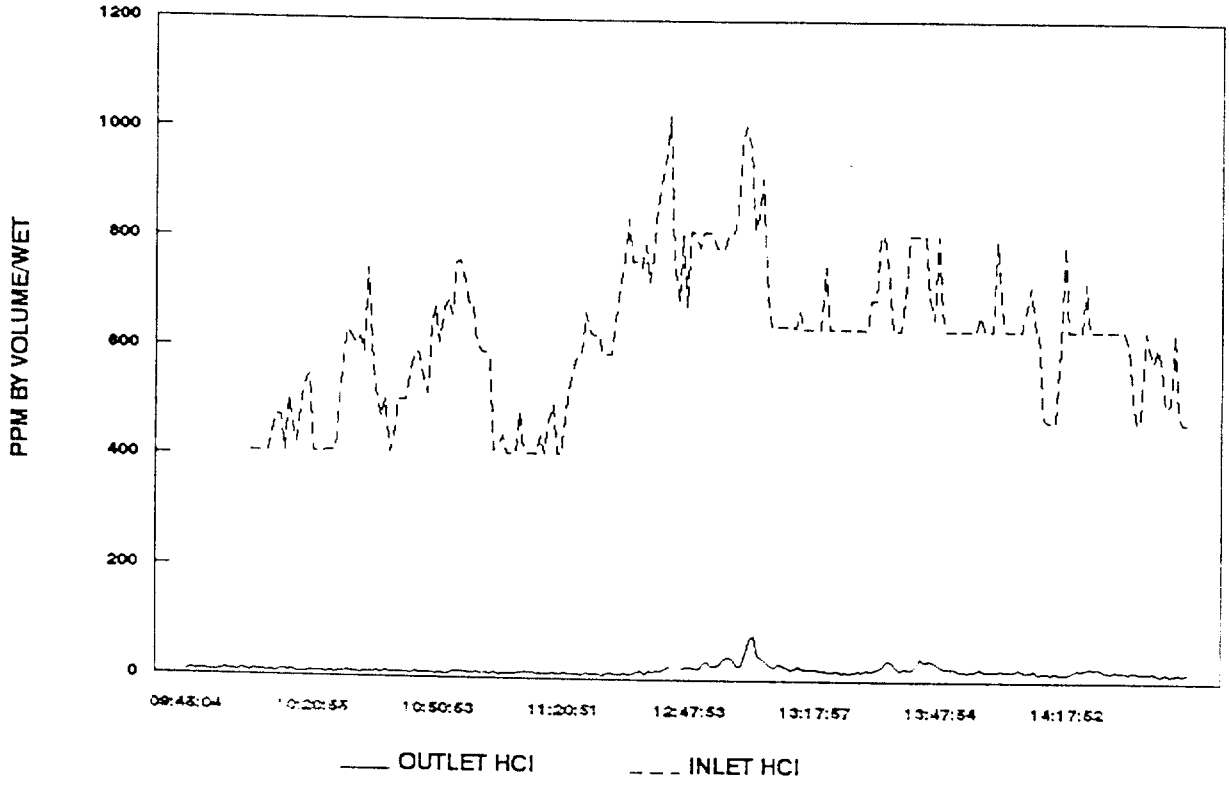


SEPTEMBER 13, 1991 – 02



SEPTEMBER 13, 1991 – HCl



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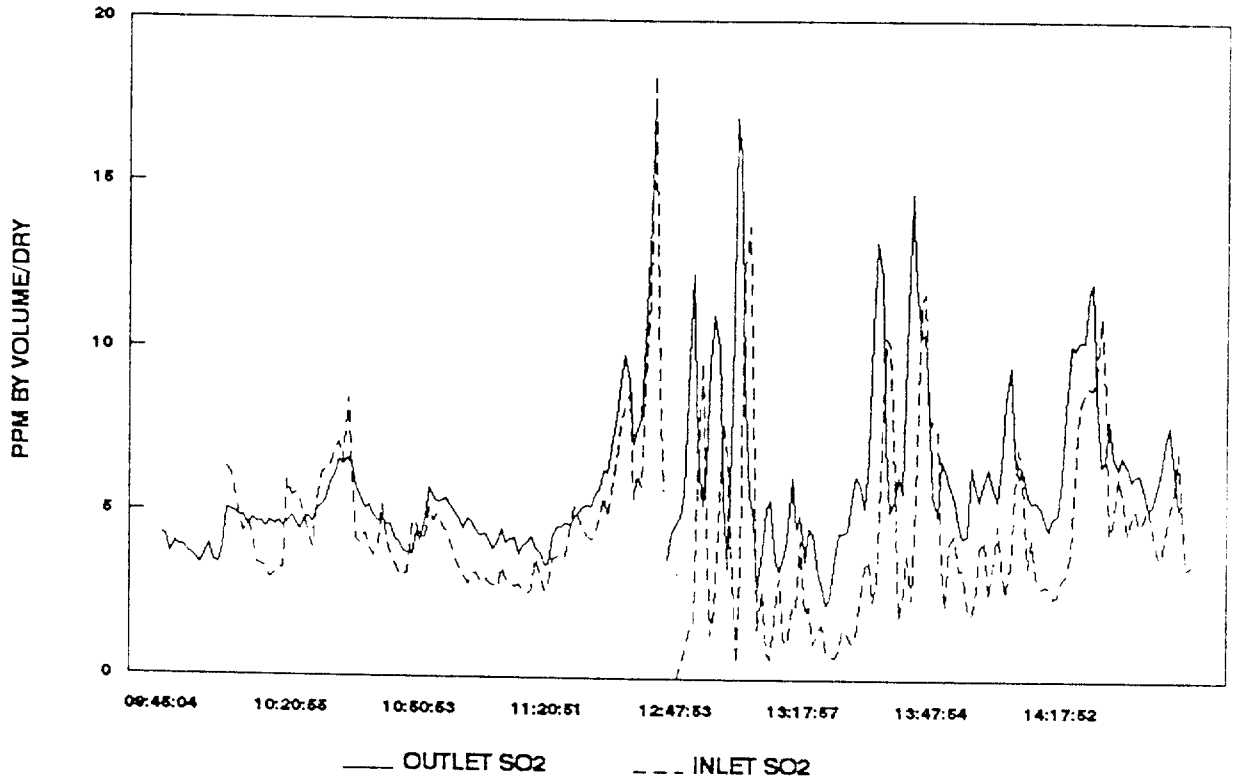

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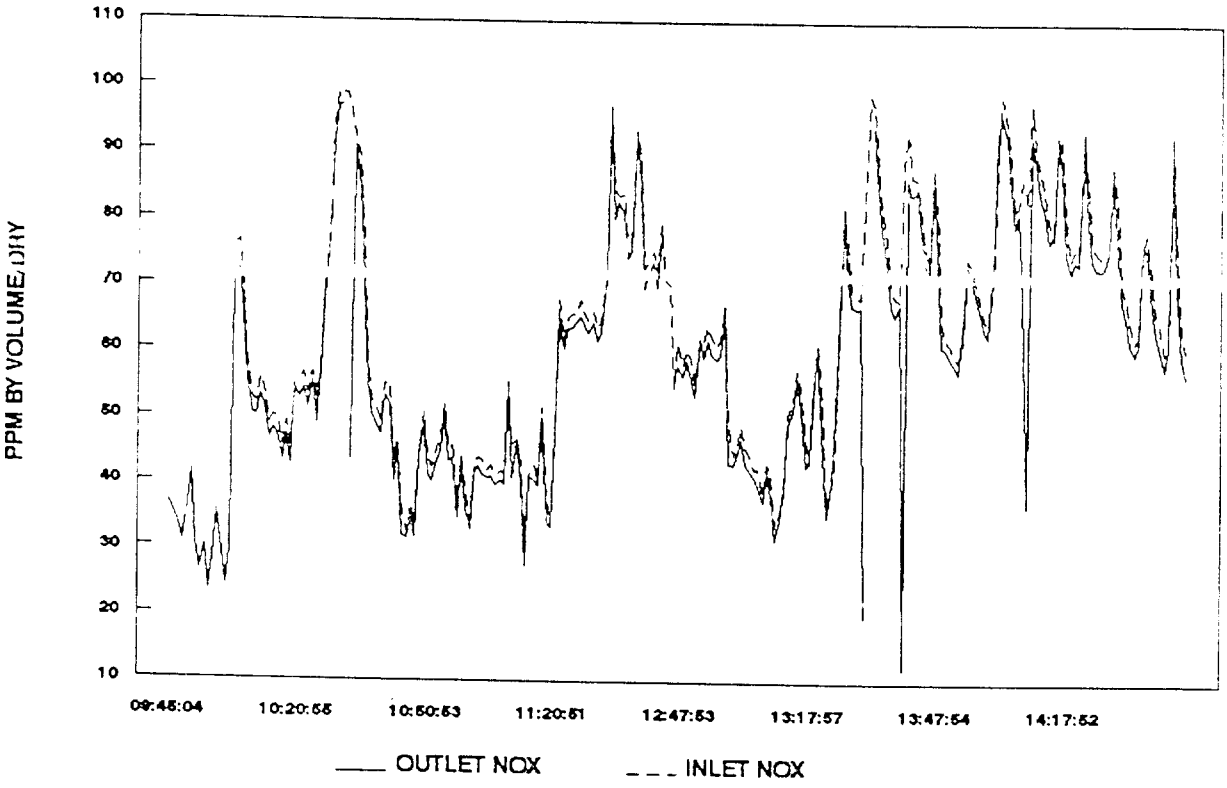
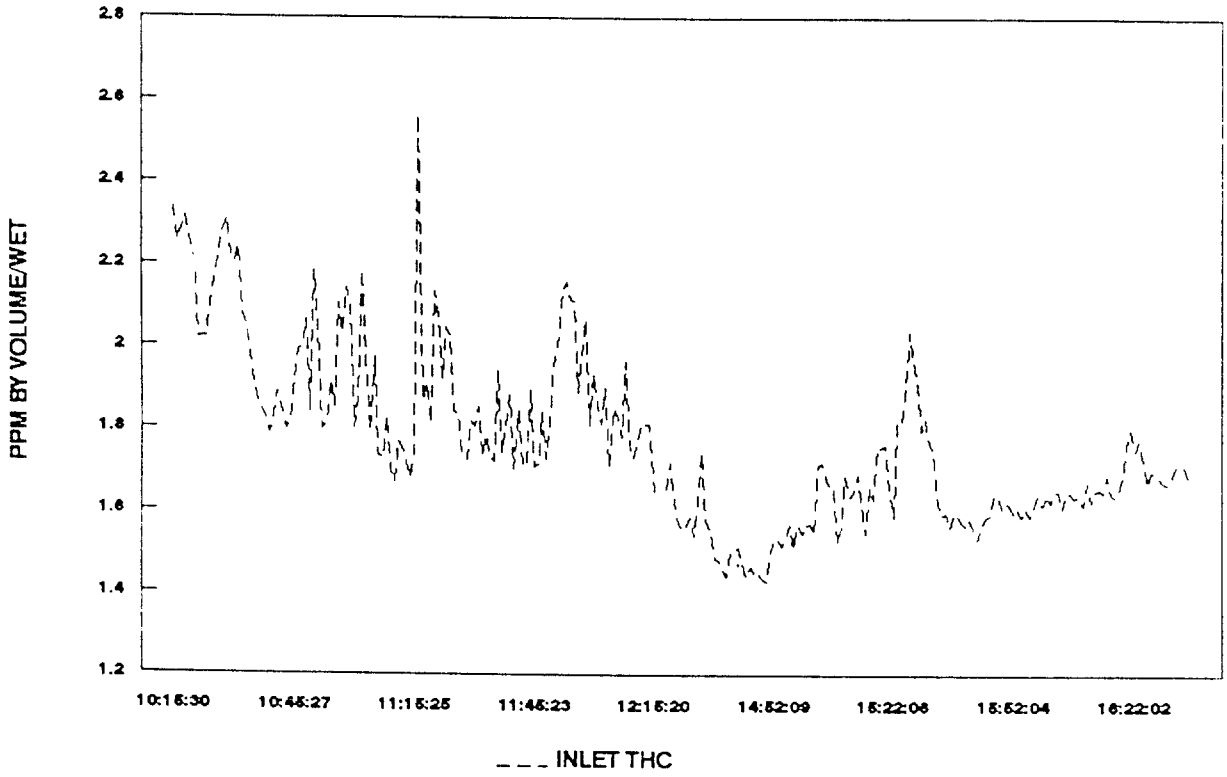
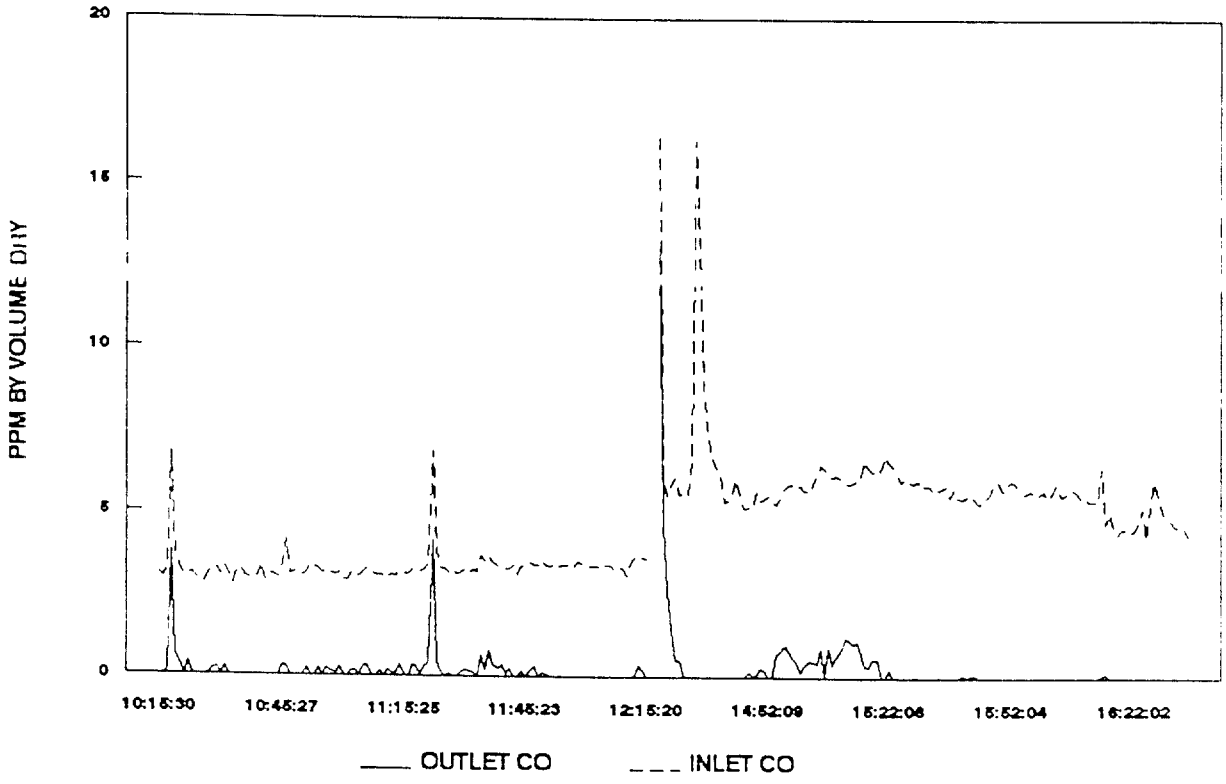


SEPTEMBER 14, 1991 – THC



SEPTEMBER 14, 1991 – CO



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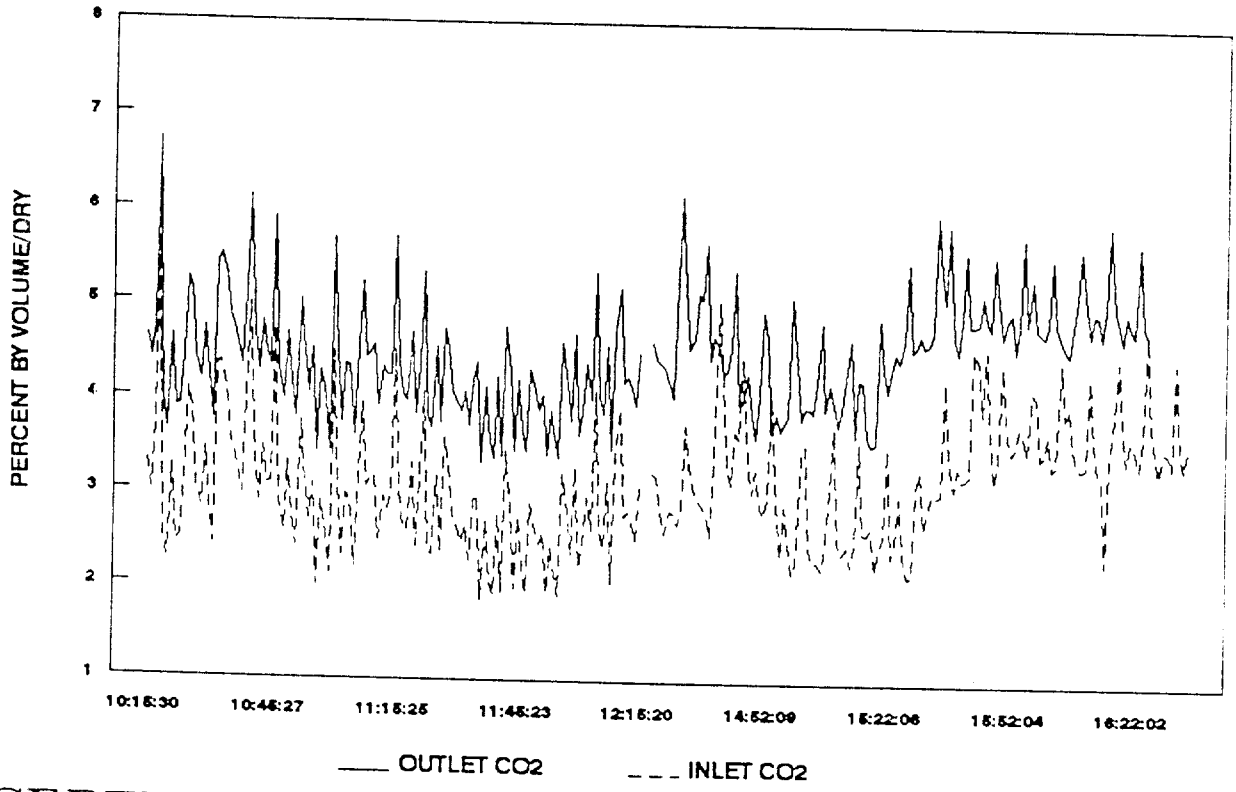
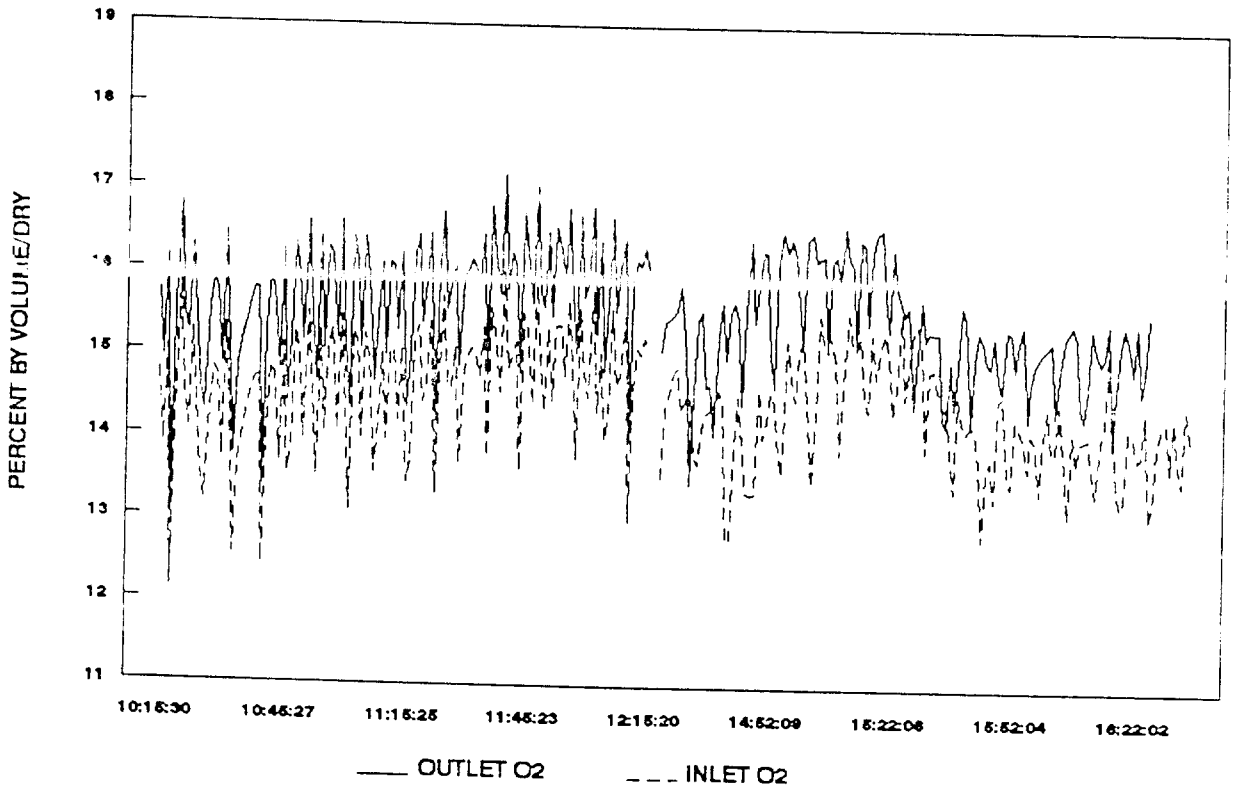
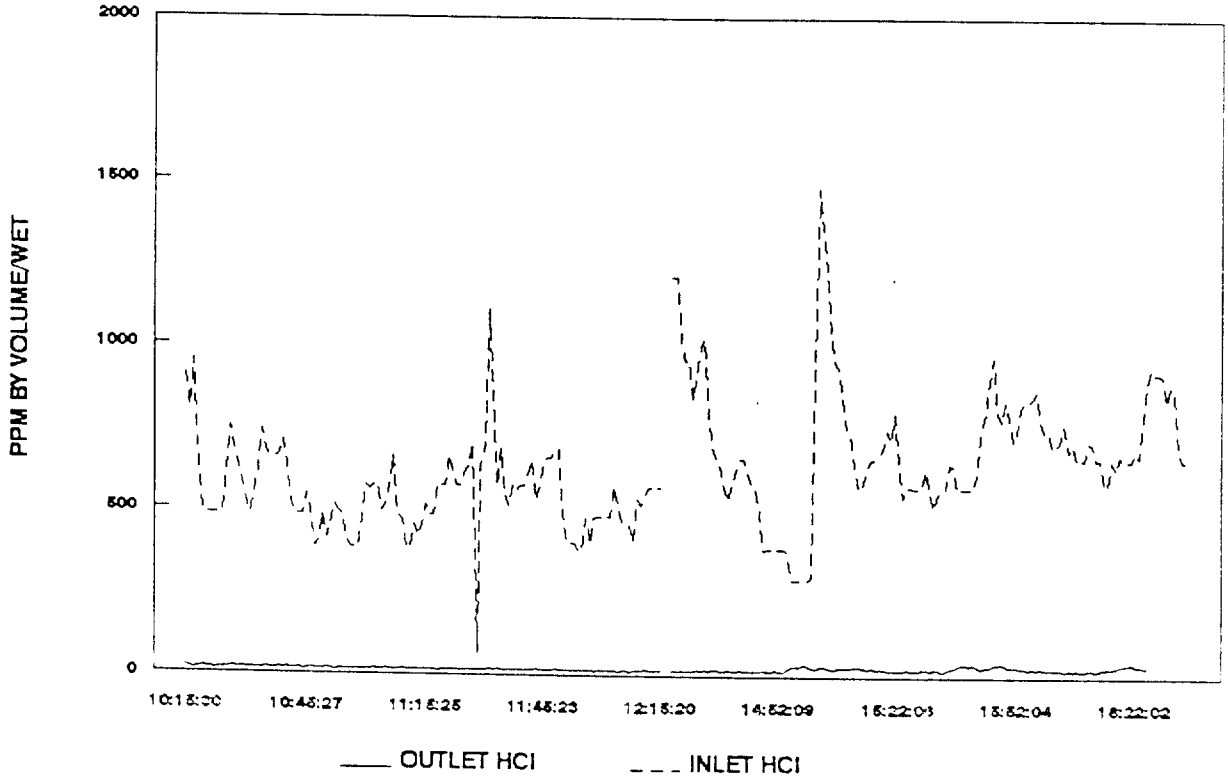


SEPTEMBER 14, 1991 – 02



SEPTEMBER 14, 1991 – HCl



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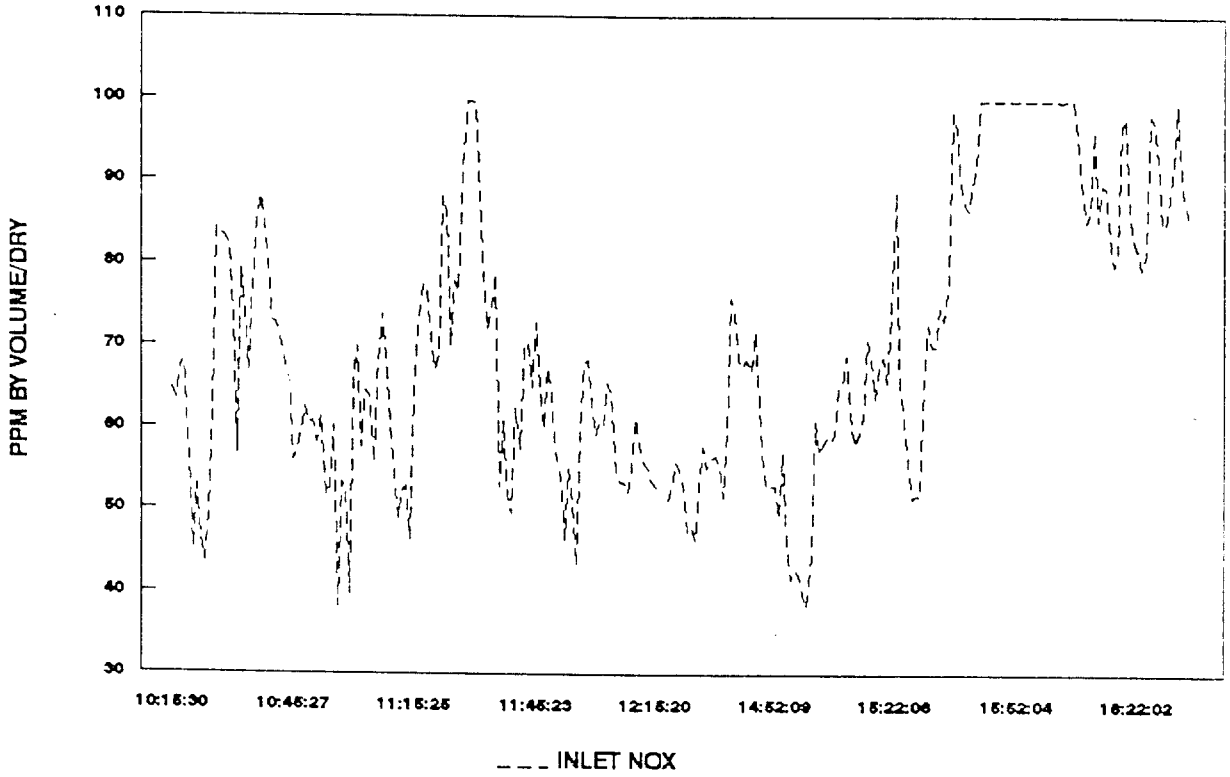

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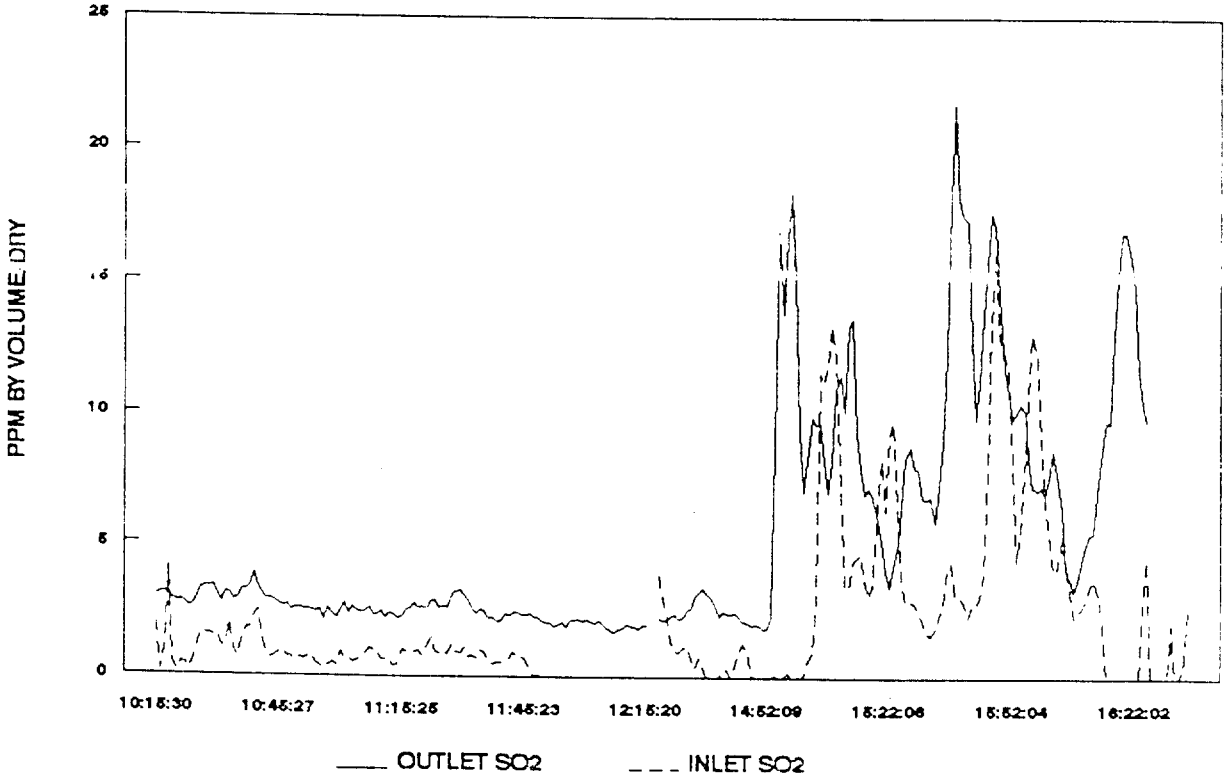
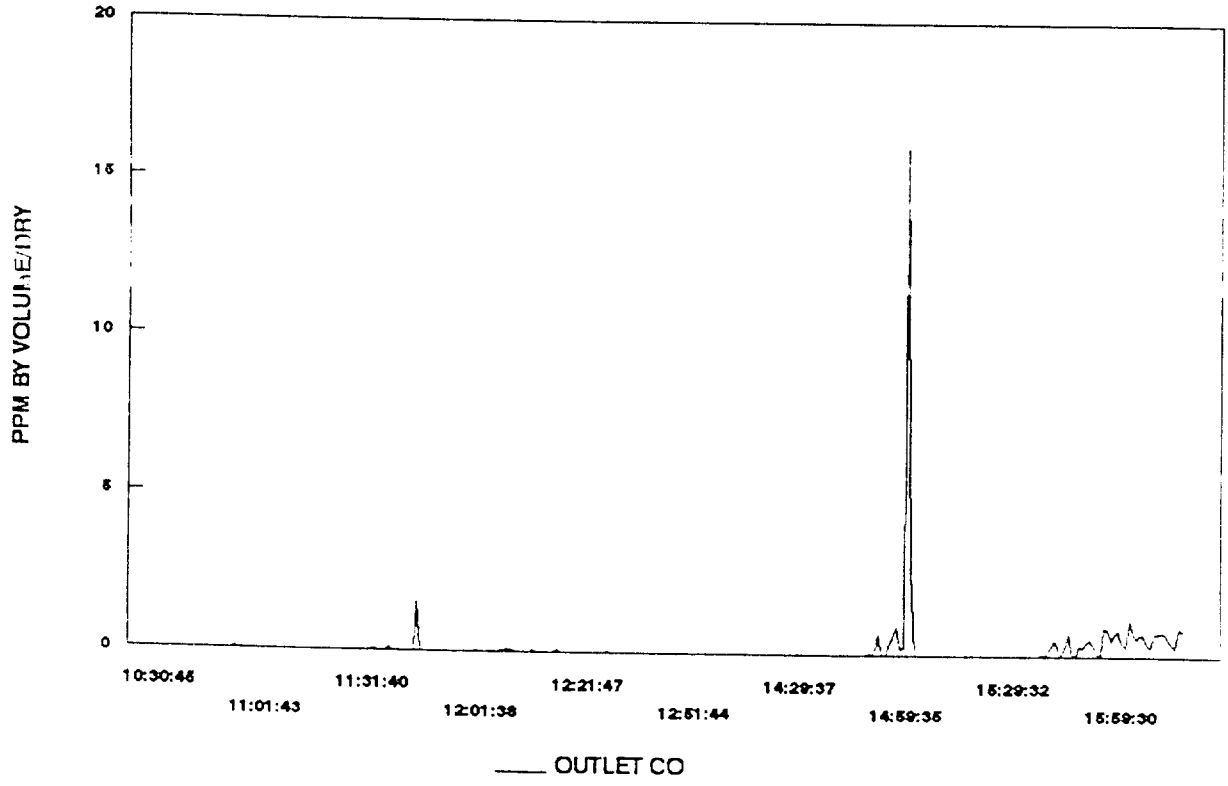


SEPTEMBER 16, 1991 – CO



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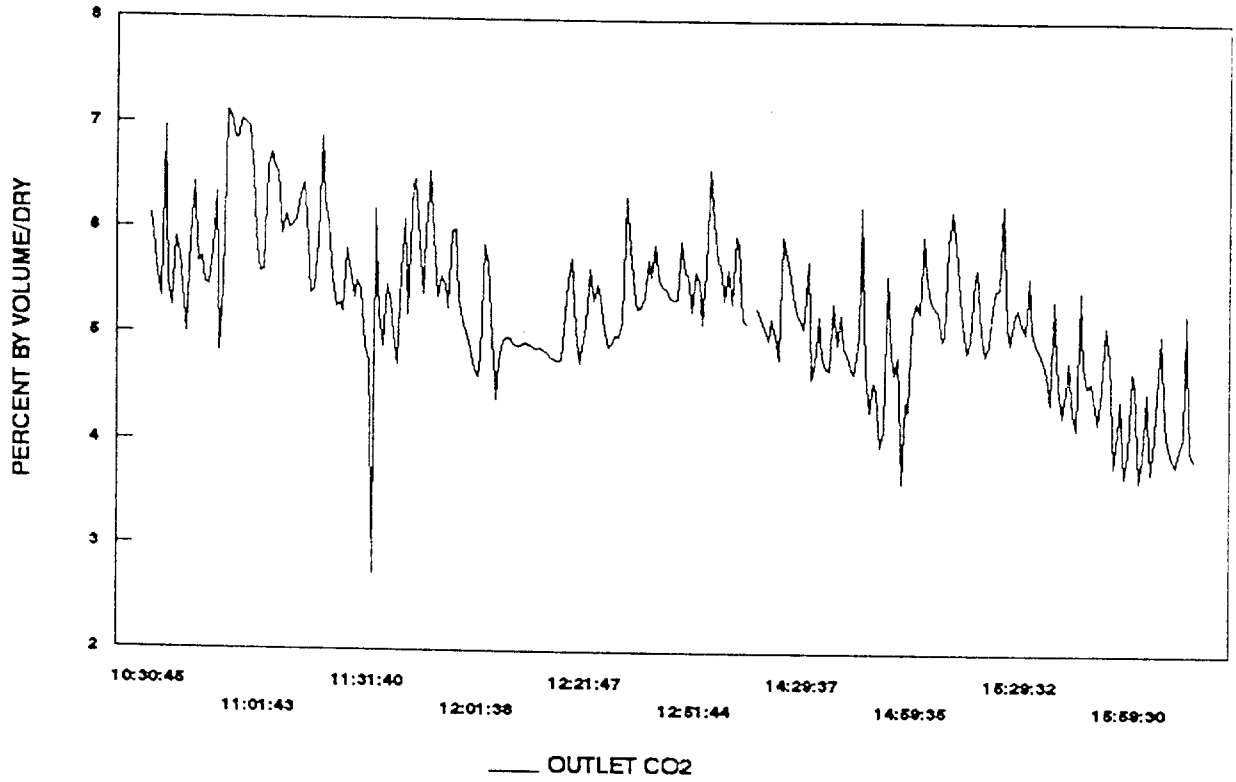

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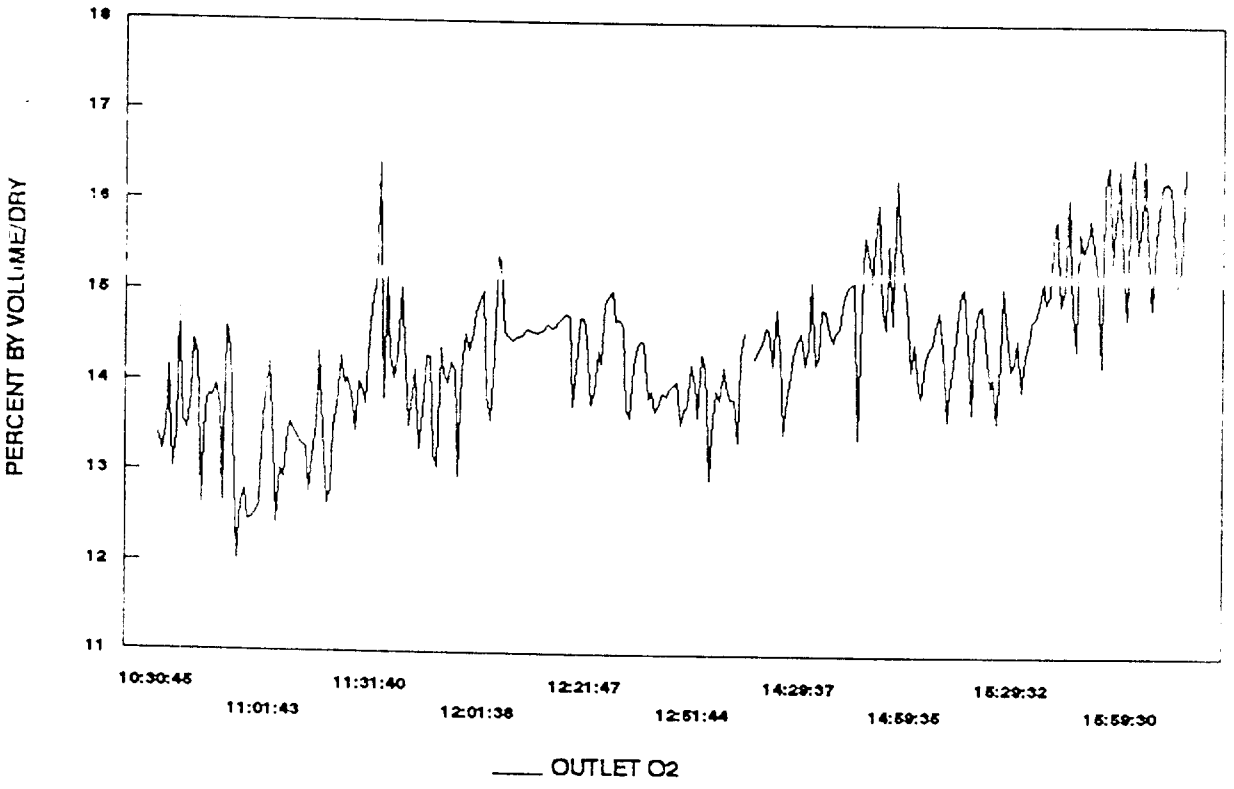

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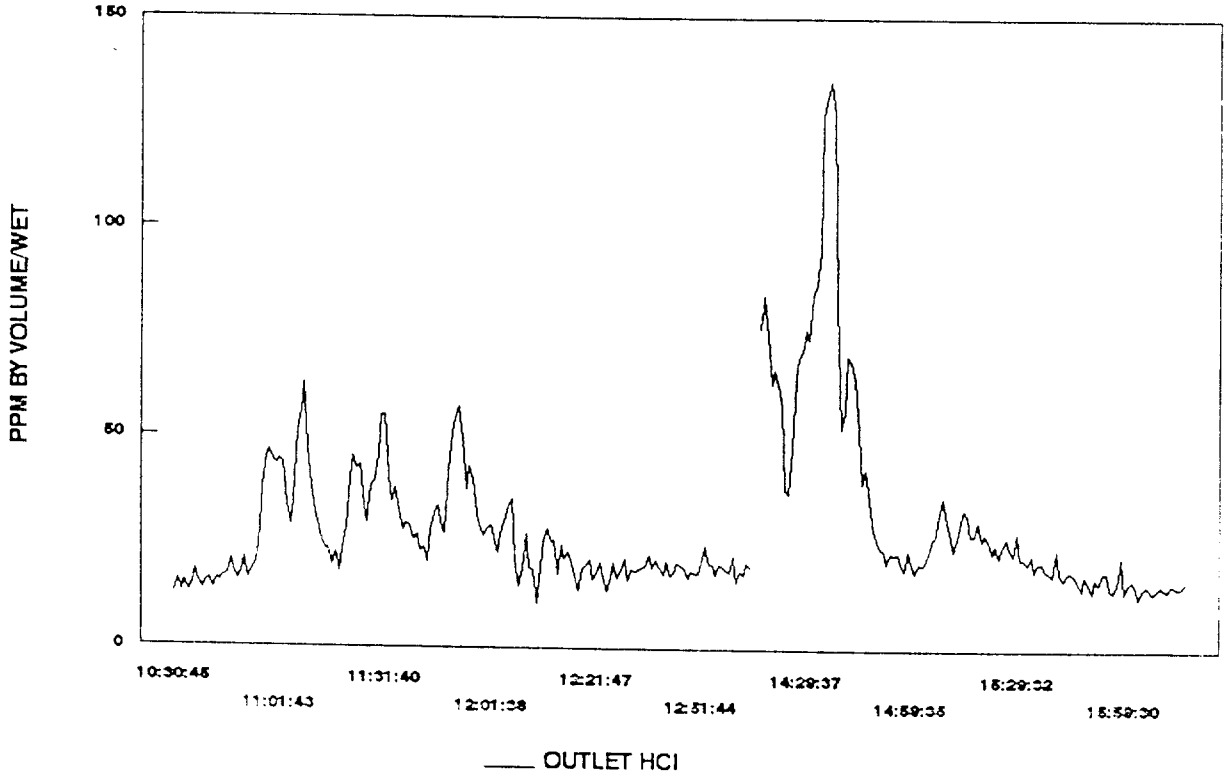

APPENDIX D-3

CALIBRATION DRIFTS

CORPORATION

CALC. NO. _____

SIGNATURE _____ DATE _____ CHECKED _____ DATE _____

PROJECT _____ JOB NO. _____

SUBJECT Radian Outlet Drift Calculations SHEET _____ OF _____ SHE

DATE	O_2		CO		CO_2		NOx		SO_2		THC		HCl	
	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D
9/6/91	0.00	0.00		-14		0.00		-2.24		-.52	n/a	n/a		.95
9/7/91		.40		-2.1		1.00					n/a	n/a	-.24	-2.19
9/9/91	.022	-.40	-3.24	6.76	-.20	2.28	.512	-3.99	3.65	1.35	n/a	n/a	1.44	.568
9/10/91	0.00	-1.62	-.696	1.82	0.00	0.00	.277	-.321	.252	.499	n/a	n/a	-.461	-4.95
9/11/91	.033	0.00	-.842	1.37	.100	0.00	-.141	.100	.068	.565	n/a	n/a	3.40	-0.72
9/12/91	-.019	.403	-1.27	1.49	-.100	-1.1	.139	1.31	.512	.552	n/a	n/a	-1.71	.954
9/13/91	.006	.402	.060	.218	0.00	0.00	-.221	1.10	.08	.548	n/a	n/a	.995	0.00
9/14/91	.054	.403	.212	.230	0.00	0.00	ND	ND	-.236	3.41	n/a	n/a	-2.88	-1.63
9/16/91	.005	0.00	1.83	-1.86	0.00	-1.09	ND	ND	-.392	-1.64	n/a	n/a	2.33	4.41

BIAS Data

ND = No Data, monitor was inoperable

CORPORATION

CALC. NO. _____

SIGNATURE _____ DATE _____ CHECKED _____ DATE _____

PROJECT _____ JOB NO. _____

SUBJECT Radian Inlet Drift Calculations SHEET _____ OF _____ SHE

DATE	O_2		CO		CO_2		NOx		SO_2		THC		HCl	
	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D	0%D	5%D
9/6/91	2.84	~~[illegible]~~ -.40	.14	-0.11	-0.08	0.00	-0.08	~~0.00~~ -2.24	-0.08	~~0.00~~ -.32	-0.08	~~0.00~~ 1.10	—	6.36
9/7/91	—	-0.00		.600		1.50		-.32		.02		-.20		4.50
9/9/91	-1.40	-2.44	-.169	-.554	0.00	-1.06	-.583	0.00	.168	1.54	1.88	2.18	-2.03	-5.32
9/10/91	-.188	-4.50	.029	-.555	.097	1.08	.047	.003	-.199	1.03	.240	-1.45	.241	0.00
9/11/91	.736	0.00	.020	.992	0.00	1.08	.061	.905	.049	.575	.207	-.782	-2.67	0.00
9/12/91	-.376	3.41	.059	-1.20	0.00	-1.78	-.941	0.00	-.115	.881	.397	0.00	2.10	0.00
① 9/13/91	.847	3.41	.154	.437	.099	0.00	0.000	0.30	.302	1.44	.005	.290	-.868	1.14
9/14/91	-.372	-3.37	.067	.645	0.00	0.00	0.27	1.7	.079	2.51	.394	.588	4.86	1.15
BIAS DATA 9/16/91	.170	0.00	.066	.120	0.00	0.00	-.27	0.79	.055	-1.15	.083	0.00	.868	0.00

Pretest

INLET

CALIBRATION SUMMARY

[illegible] 7:49:45

CALIBRATION FILE NAME #[illegible] [illegible]

Chan.	Name	Units	Demo Conc.	Demo Resp.	Open Conc.	Open Resp.	Slope	Int.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.25
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.31
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.21
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.05
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.10
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.75
[illegible]			[illegible]	[illegible]	0.00	0.000	1.000	0.00
[illegible]			[illegible]	[illegible]	0.00	0.000	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	0.000	1.000	0.00
[illegible]			[illegible]	[illegible]	0.00	0.000	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	0.000	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	0.000	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	0.000	1.000	0.00

Press Shift-Prtsc to Print Cur Table

Press [illegible] to Continue

500 CH4 = 10 ppm

Pretest

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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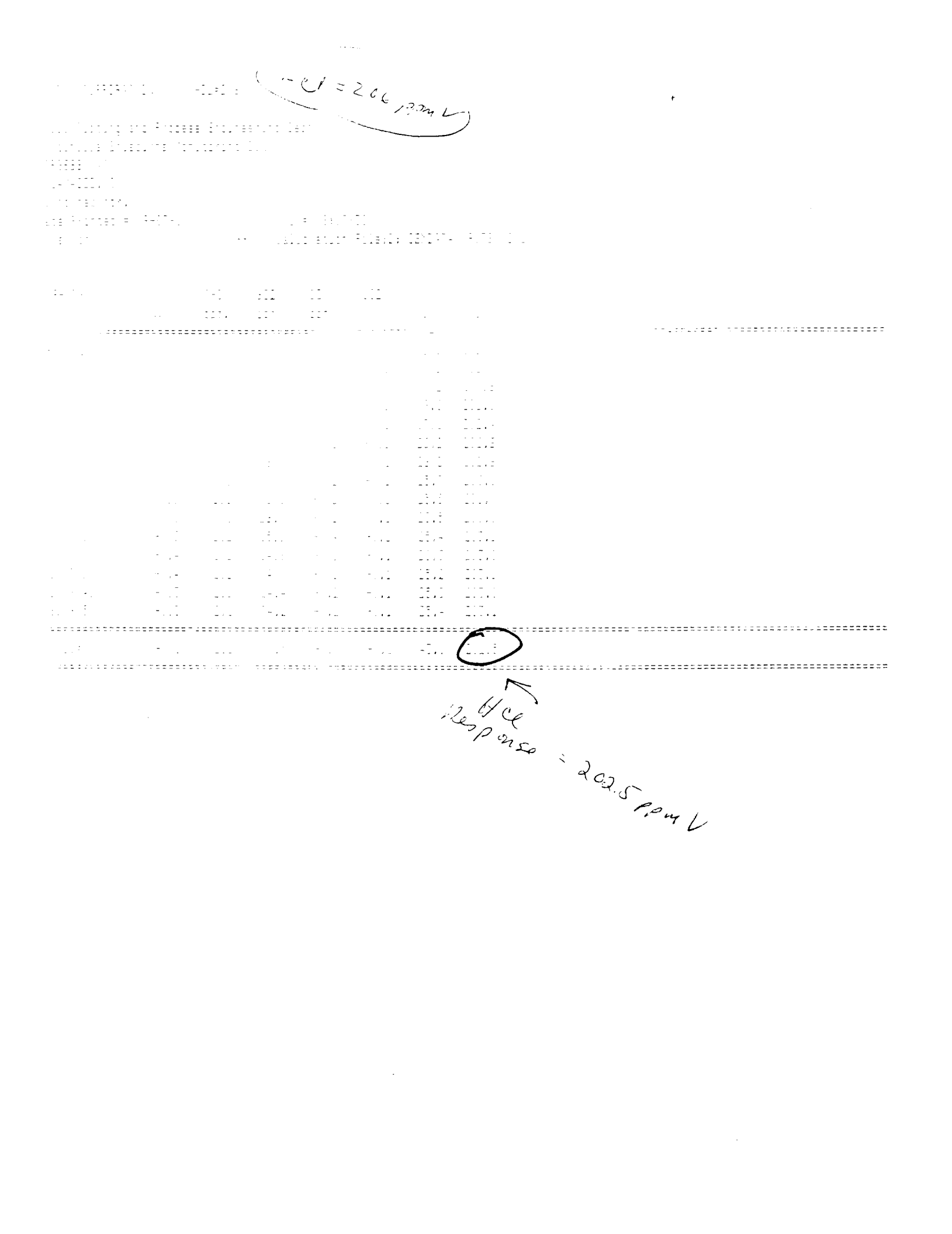
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible


HCl
Response = 202.5 ppm V

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	NOx	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	%	ppm	ppm
[illegible]	-0.7	1.1	23.9	-0.2	-0.1	25.3	107.9
[illegible]	-0.7	1.1	24.	-0.1	-0.1	25.2	35.9
[illegible]	-0.7	1.1	24.1	-0.1	-0.1	25.3	-4.7
[illegible]	-0.7	1.1	23.9	-0.2	-0.1	25.2	-4.2
[illegible]	-0.7	1.1	24.1	-0.2	-0.1	25.3	-4.2
[illegible]	-0.7	1.1	24.	-0.2	-0.1	25.2	-4.7
[illegible]	-0.8	1.1	23.9	-0.1	-0.1	25.3	-4.2
[illegible]	-0.7	1.1	23.9	-0.2	-0.1	25.2	-4.2
[illegible]	-0.7	1.1	24.	-0.2	-0.1	25.1	-4.2
[illegible]	-0.7	1.1	24.2	-0.2	-0.1	25.2	-4.2
[illegible]	-0.7	1.1	24.	-0.2	-0.1	25.2	-4.3
[illegible]	-0.7	1.1	24.7	-0.2	-0.1	25.3	-4.5
[illegible]	-0.3	1.3	24.5	-0.3	-0.1	25.3	-4.5
[illegible]	-0.7	2.2	24.1	-0.2	-0.1	25.4	-4.3
[illegible]	-0.7	1.3	24.	-0.7	-0.1	25.3	-4.6
Avg.=	-0.3	1.2	24.1	-0.3	-0.1	25.3	5.3

[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
[illegible] Printed = [illegible] Current Time = [illegible]
[illegible] Name = [illegible] Calibration File:[illegible]

[illegible] Time	[illegible] %V	[illegible] ppmV	[illegible] ppmV	[illegible] ppmV	[illegible] %V	[illegible] ppmV	[illegible] ppmV
[illegible]	4.4	3.4	-0.1	17.9	5.0	0.1	1384.7
[illegible]	4.5	3.2	-0.2	17.7	5.0	0.1	1385.5
[illegible]	4.4	3.1	-0.3	17.9	5.0	0.1	1385.2
[illegible]	4.5	3.1	-0.2	17.9	5.0	0.1	1385.3
[illegible]	4.5	3.1	[illegible]	17.9	5.0	0.1	1385.2
[illegible]	4.5	3.1	-0.1	17.8	5.0	0.1	1342.6
[illegible]	4.5	3.0	[illegible]	17.8	5.0	0.1	1199.6
[illegible]	4.5	3.0	-0.2	17.9	5.0	0.1	1199.8
[illegible]	4.5	3.0	-0.2	17.9	5.0	0.1	1199.8
[illegible]	4.5	3.0	-0.2	17.8	5.0	0.1	1199.9
[illegible]	4.5	2.9	-0.3	17.7	5.0	0.1	1162.7
[illegible]	4.5	2.9	-0.4	17.9	5.0	0.1	1009.1
[illegible]	4.5	2.9	-0.3	17.9	5.0	0.1	1009.3
[illegible]	4.5	2.8	-0.0	17.9	5.0	0.1	1009.0
[illegible]	4.5	2.8	-0.1	17.8	5.0	0.1	1009.4
[illegible]	4.5	2.8	-0.2	17.8	5.0	0.1	1009.4
[illegible]	4.5	2.9	-0.2	17.8	5.0	0.1	1009.6
Avg.=	4.5	3.0	-0.2	17.8	5.0	0.1	1193.3

02:20

Post test
Pre test - for

INLET

90.2

88.3

Post Test

[illegible]

[illegible] Processing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
[illegible] Printed = [illegible] Current Time = [illegible]
[illegible] Name = [illegible] Calibration File:[illegible]

[illegible] Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmV	HCl ppmv
[illegible]	9.6	48.4	[illegible]	[illegible]	10.1	0.6	-23.[illegible]
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-22.8
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-23.1
[illegible]	9.7	48.2	[illegible]	[illegible]	10.1	0.6	-22.9
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-23.[illegible]
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-23.0
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-22.9
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-23.[illegible]
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-22.9
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-22.9
[illegible]	9.7	48.3	[illegible]	[illegible]	10.1	0.6	-22.9
[illegible]	9.8	48.5	[illegible]	[illegible]	10.1	0.6	-22.9
Avg.=	9.7	48.3	0.7	56.9	10.1	0.6	-22.9

[illegible] CORPORATION O2=4.99 CO2=5.[illegible] CO=19.9 CH4=27.[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] for: EPA
[illegible] Printed = 09-07-1991 Current Time = 17:58:16
[illegible] Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\090781.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
17:58:17	5.0	27.8	0.8	17.8	5.1	0.6	478.9
17:58:27	4.8	27.8	0.9	17.9	5.1	0.6	479.2
17:58:37	4.9	27.8	0.7	17.8	5.0	0.6	478.8
17:58:47	4.9	27.9	0.7	17.7	5.1	0.6	479.3
17:58:57	4.9	27.8	0.9	17.6	5.0	0.6	479.[illegible]
17:59:07	4.9	27.9	0.8	17.7	5.0	0.6	478.7
17:59:17	4.9	27.8	1.1	17.7	5.0	0.6	478.9
17:59:27	4.9	27.8	1.1	17.7	5.0	0.6	478.9
17:59:37	4.9	27.8	0.7	17.8	5.0	0.6	478.8
17:59:47	5.0	27.7	1.9	17.8	5.0	0.6	478.8
17:59:57	5.0	27.7	0.9	17.7	5.0	0.6	478.8
18:00:07	5.0	27.8	1.0	17.6	5.0	0.6	478.8
18:00:17	5.0	27.8	0.9	17.7	5.0	0.6	479.0
18:00:27	5.0	27.8	0.8	17.8	5.0	0.6	478.[illegible]
18:00:37	[illegible]	[illegible]	0.9	17.8	5.0	[illegible]	478.8
18:00:46	4.5	6.3	3.[illegible]	[illegible]	[illegible]	63.9	475.5
18:00:56	4.4	3.0	[illegible]	14.[illegible]	[illegible]	77.2	475.1
18:01:06	3.8	[illegible]	56.7	8.7	0.0	80.6	[illegible]
Avg.=	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	478.3

[illegible] CORPORATION SO2=[illegible] NOx=[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] for: EPA
[illegible] Printed = [illegible]-07-1991 Current Time = [illegible]
[illegible] Name = [illegible] Calibration File:[illegible]

[illegible]-07-1991 Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmv	HCl ppmv
[illegible]	-0.5	1.2	35.3	0.1	-0.1	87.2	475.1
[illegible]	-0.4	1.1	36.1	[illegible]	-0.1	87.6	475.4
[illegible]	-0.4	1.1	36.1	[illegible]	-0.1	87.5	474.8
[illegible]	-0.4	1.2	36.2	[illegible]	-0.1	87.5	475.0
[illegible]	-0.4	1.1	36.[illegible]	[illegible]	-0.1	87.7	474.9
[illegible]	-0.4	1.1	36.1	[illegible]	-0.1	87.7	474.9
[illegible]	-0.4	1.1	36.1	[illegible]	-0.1	87.5	474.9
[illegible]	-0.4	1.1	36.2	[illegible]	-0.1	87.4	475.1
Avg.=	-0.4	1.1	36.1	[illegible]	-0.1	87.5	475.[illegible]

[illegible]

[illegible] Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Entered for: EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = D:\CEMDATA\[illegible] Calibration File:D:\CEMDATA\090791.CAL

[illegible] Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmV	NO ppmV
[illegible]	-0.4	1.1	36.3	0.0	-0.1	87.5	476.7
[illegible]	-0.4	1.2	36.2	0.0	-0.1	87.5	475.6
[illegible]	-0.4	1.8	36.3	0.1	0.0	71.8	475.5
[illegible]	-0.4	1.4	30.5	0.2	-0.0	38.3	476.6
[illegible]	-0.3	1.2	28.1	0.2	-0.1	29.1	476.9
[illegible]	-0.2	1.1	26.4	-0.0	-0.1	26.4	476.9
[illegible]	-0.2	1.1	25.1	-0.2	-0.1	25.8	477.0
[illegible]	-0.2	1.1	25.0	-0.2	-0.1	25.3	476.9
[illegible]	-0.2	1.1	25.1	-0.2	-0.1	25.2	477.0
[illegible]	-0.3	1.1	25.0	-0.3	-0.1	25.1	477.1
[illegible]	-0.4	1.2	25.1	-0.3	-0.1	25.1	476.9
[illegible]	-0.3	1.1	25.4	-0.4	-0.1	25.1	477.0
[illegible]	-0.3	1.1	25.1	-0.4	-0.1	25.1	477.0
Avg.	-0.3	1.2	45.1	-0.1	-0.1	39.8	476.7

[illegible]

Gas Testing and Process Engineering Data
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Site Entered = R-07-1991 Current Time = 10:10:22
File Name = C:\CEMDATA\R07F0199.FPX Destination Filename: CEMDATA\R07F0199.DAT

R-07-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO %	CO2 ppmv	NOx ppmv	NO ppmv
10:10:27	-0.7	1.1	25.1	-0.4	-0.1	25.0	55.1
10:10:32	-0.4	1.1	24.7	-0.1	-0.0	25.0	17.1
10:10:40	-0.4	1.0	24.8	-0.0	-0.1	25.1	91.5
10:10:45	-0.4	1.0	24.7	-0.4	-0.1	25.0	-25.9
10:10:50	-0.7	1.1	24.8	-0.4	-0.1	25.0	-26.1
10:10:55	-0.7	1.0	24.7	-0.4	-0.1	25.0	-26.1
10:11:00	-0.4	1.1	24.8	-0.0	-0.1	25.0	-26.1
10:11:05	-0.4	1.1	24.9	-0.0	-0.1	25.1	-26.1
10:11:10	-0.7	1.1	24.9	-0.0	-0.1	25.1	-26.1
10:11:15	-0.4	1.1	24.7	-0.4	-0.1	25.1	-26.0
10:11:20	-0.7	1.0	24.8	-0.4	-0.1	25.0	-26.1
10:11:25	-0.4	1.1	24.9	-0.4	-0.1	25.0	-26.1
10:11:30	-0.7	1.0	24.8	-0.0	-0.1	25.0	-26.1
10:11:35	-0.4	1.0	24.7	-0.0	-0.1	25.1	-25.8
Avg.=	-0.4	1.0	24.8	-0.0	-0.1	25.0	-9.8

[illegible]

Radian Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 19-07-1991 Current Time = 13:12:51
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\090781.CAL

19-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
13:12:52	-0.3	1.0	24.9	-0.4	-0.1	25.0	-25.6
13:17:02	-0.4	1.0	24.9	-0.4	-0.0	25.1	-25.2
13:17:12	-0.3	2.0	24.5	-0.4	-0.0	23.9	-25.8
13:17:22	-0.3	5.8	23.6	-0.3	0.0	7.6	-22.3
13:17:32	-0.3	6.6	16.4	-0.1	0.0	3.2	-22.1
13:17:42	0.2	6.8	7.5	-0.0	0.0	2.3	-22.1
13:17:52	12.8	6.9	3.5	-0.1	0.0	1.9	-22.0
13:14:02	18.6	6.9	2.2	-0.2	-0.0	1.8	-22.0
13:14:12	21.3	7.0	1.5	-0.3	-0.0	1.7	-22.2
13:14:22	22.2	6.9	1.3	-0.3	-0.0	1.7	-22.1
Avg.=	7.7	5.1	13.1	-0.2	-0.0	9.4	-23.1

[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Engineering Technician's Data
[illegible]
[illegible]
[illegible]
[illegible] DPA
[illegible] [illegible] Current Time = [illegible]
[illegible] Name = [illegible] [illegible] Calibration Files: [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Run # —
Pretest
Boiler Outlet

CALIBRATION SUMMARY
09-07-1991 07:50:18
CALIBRATION FILE NAME =D:\CEMDATA\090791.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.02	0.8035	20.00	8.071	2.474	0.03
2	THC	ppmV	0.00	%-3.3476	89.70	5.066	10.662	35.69
3	SO2	ppmV	0.00	-.0029	194.90	0.409	473.119	1.36
4	CO	ppmV	0.00	0.0091	88.90	0.878	102.323	-0.93
5	CO2	%V	0.00	0.0033	18.00	0.088	211.905	-0.69
6	NOx	ppmV	0.00	-.0132	195.60	7.850	24.874	0.33
7	HCl	ppmV	0.00	-.0049	107.00	0.526	201.502	-0.99
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

→ From prev day

Press Shift-PrtSc to Print Out Table
Press <> to Continue

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 07:54:02
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\090780.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
07:54:16	20.8	1.6	2.4	-1.6	-0.2	0.2	51.9
07:54:26	20.8	2.1	2.5	-1.0	-0.2	0.2	42.2
07:54:36	20.8	2.4	2.2	-1.6	-0.2	0.2	38.3
07:54:46	20.8	2.5	2.2	-2.1	-0.2	0.2	40.6
07:54:56	20.8	3.2	2.5	-2.2	-0.2	0.2	39.7
07:55:06	20.8	2.9	2.5	-1.9	-0.2	0.2	39.7
07:55:16	20.8	2.8	2.7	-1.7	-0.2	0.2	42.4
Avg.=	20.8	2.5	2.4	-1.7	-0.2	0.2	42.1

RADIAN CORPORATION SO2=86 NOX=88.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 08:04:45
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:04:46	0.2	-10.3	85.4	-1.5	-0.4	89.2	17.7
08:04:56	0.1	-10.8	88.9	-0.6	-0.4	89.4	10.0
08:05:06	0.1	-9.1	89.4	-0.2	-0.4	89.4	10.3
08:05:16	0.1	-9.2	89.3	-1.1	-0.4	89.4	10.1
08:05:26	0.1	-9.3	89.5	-1.3	-0.4	89.3	2.1
08:05:36	0.1	-9.3	89.9	-1.3	-0.4	89.3	3.5
08:05:45	0.1	-9.5	90.2	-1.1	-0.4	89.4	11.9
08:05:55	0.0	-9.5	90.3	-0.6	-0.4	89.4	10.9
08:06:05	0.0	-9.4	90.7	-0.6	-0.4	89.4	10.4
08:06:15	0.0	-9.6	90.6	-0.7	-0.4	89.3	11.9
08:06:25	0.0	-9.4	90.6	-1.2	-0.4	89.4	9.4
08:06:35	0.0	-9.3	90.9	-1.1	-0.4	89.3	6.3
Avg.=	0.1	-9.6	89.6	-1.0	-0.4	89.3	9.5

RADIAN CORPORATION HCL=9.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 08:06:52
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:06:53	0.0	-10.8	90.8	-0.9	-0.4	89.3	7.6
08:07:03	0.0	-10.4	90.9	-0.3	-0.4	89.4	6.9
08:07:13	0.0	-9.3	91.1	-0.4	-0.4	89.4	2.3
08:07:23	0.0	-9.2	91.0	-0.7	-0.4	89.4	7.2
08:07:33	0.0	-9.2	90.8	-1.3	-0.4	89.3	4.1
08:07:43	0.0	-9.3	91.4	-0.9	-0.4	89.4	8.3
08:07:53	0.0	-9.5	91.0	-0.8	-0.4	89.4	14.2
08:08:02	0.0	-9.6	90.7	-0.2	-0.4	67.4	18.7
08:08:12	0.0	-11.0	86.6	-0.1	-0.3	32.2	13.1
08:08:22	0.0	-11.9	64.3	-0.0	-0.3	26.3	7.3
08:08:32	0.1	-5.5	45.1	-1.3	-0.3	25.1	3.8
08:08:42	0.1	3.3	36.6	-1.0	-0.3	24.8	6.1
08:08:52	0.1	2.7	32.9	-0.6	-0.3	24.7	13.7
08:09:02	0.0	2.3	30.9	-0.4	-0.3	24.7	13.6
08:09:12	0.0	2.0	29.6	-0.6	-0.3	24.7	11.5
08:09:22	0.0	2.0	29.1	-0.6	-0.3	24.7	5.6
08:09:32	0.0	2.0	28.9	-0.9	-0.3	24.7	7.9
08:09:42	0.0	1.9	28.7	-1.4	-0.3	24.6	12.0
08:09:52	0.0	1.8	28.6	-1.1	-0.3	24.6	13.9
Avg.=	0.0	-4.6	61.5	-0.7	-0.4	51.3	9.4

RADIAN CORPORATION SO2=24.3 NOX=25.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 08:12:06
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:12:07	0.0	1.8	28.0	-0.5	-0.3	24.6	1.5
08:12:17	0.0	1.0	27.6	0.2	-0.3	24.6	12.1
08:12:27	0.0	1.9	27.8	-0.4	-0.3	24.6	11.4
08:12:37	0.0	1.6	26.9	-0.4	-0.4	24.6	8.7
08:12:47	0.0	1.6	27.2	-0.4	-0.3	24.5	11.8
08:12:56	0.0	1.6	27.1	-0.2	-0.3	24.6	12.8
08:13:06	0.0	1.7	27.2	0.4	-0.3	24.5	9.7
08:13:16	0.0	1.8	27.4	0.0	-0.4	24.5	4.6
08:13:26	0.0	1.6	27.2	-0.0	-0.3	24.6	-0.5
08:13:36	0.0	1.3	27.0	-0.3	-0.3	24.6	1.6
08:13:46	0.0	1.6	26.8	-0.5	-0.3	24.5	6.6
Avg.=	0.0	1.6	27.3	-0.2	-0.3	24.6	7.3

RADIAN CORPORATION O2=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 08:24:41
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:24:42	5.0	0.2	0.3	17.3	5.2	0.0	161.3
08:24:52	5.0	0.0	0.5	17.7	5.2	0.0	117.7
08:25:02	5.0	1.1	0.8	17.7	5.2	0.0	88.7
08:25:12	5.0	0.8	0.6	17.1	5.2	0.0	88.7
08:25:22	5.0	0.3	0.4	16.5	5.2	0.0	88.3
08:25:32	5.0	0.6	0.6	15.5	5.2	0.0	78.6
08:25:42	5.0	0.5	0.5	18.6	5.2	0.0	68.5
08:25:52	5.0	0.6	0.6	17.8	5.2	0.0	52.8
08:26:02	5.0	1.0	0.7	17.9	5.2	0.0	48.3
08:26:12	5.0	0.4	0.4	16.9	5.2	0.0	52.9
08:26:22	5.0	0.1	0.3	17.0	5.2	0.0	58.3
08:26:32	5.0	0.3	0.4	16.5	5.2	0.0	68.8
08:26:42	5.0	0.2	0.3	17.0	5.2	0.0	73.4
08:26:51	5.0	0.3	0.4	17.7	5.2	0.0	58.3
08:27:01	5.0	0.9	0.7	17.9	5.2	0.0	58.3
Avg.=	5.0	0.5	0.5	17.3	5.2	0.0	77.5

RADIAN CORPORATION C3 O=58.5 CO2=9.99 CO2==10

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
SOMERSET MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 08:32:14
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:32:16	9.9	0.8	0.7	56.8	10.3	0.0	64.0
08:32:26	9.9	0.0	0.5	57.6	10.3	0.0	66.3
08:32:36	9.9	0.6	0.6	57.3	10.3	0.0	61.0
08:32:46	9.9	0.8	0.7	57.2	10.3	0.0	56.1
08:32:55	10.0	1.1	0.8	57.6	10.3	0.0	51.0
08:33:05	10.0	1.1	0.8	58.1	10.3	0.0	50.0
08:33:15	9.9	0.6	0.5	58.1	10.3	0.0	52.8
08:33:25	10.0	0.8	0.6	57.8	10.3	0.0	51.1
08:33:35	9.9	0.7	0.6	57.4	10.3	0.0	48.3
08:33:45	9.9	0.3	0.3	57.3	10.3	0.0	43.2
08:33:55	9.9	0.5	0.5	57.7	10.3	0.0	37.7
Avg.=	9.9	0.7	0.6	57.5	10.3	0.0	52.9

RADIAN CORPORATION QC'S CO=88.9 CO2=18 O2=20

Run # 2
Post Test

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 17:46:40
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

OUTLET

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
17:46:40	20.0	-2.2	-0.9	87.6	18.3	0.6	13.6
17:46:50	20.0	-2.5	-1.0	87.0	18.3	0.6	10.1
17:47:00	20.1	-1.9	-0.9	86.9	18.2	0.6	12.2
17:47:10	20.0	-2.1	-0.9	87.1	18.2	0.6	13.6
17:47:20	20.1	-2.3	-1.1	87.6	18.2	0.6	9.5
17:47:30	20.1	-2.0	-0.9	86.8	18.2	0.6	8.8
17:47:40	20.1	-1.9	-0.8	87.3	18.2	0.6	9.4
17:47:50	20.1	-2.0	-0.8	87.6	18.2	0.6	10.9
17:48:00	20.1	-2.3	-1.1	83.8	18.2	0.6	10.2
Avg.=	20.1	-2.1	-0.9	86.8	18.2	0.6	10.9

RADIAN CORPORATION O2=[illegible] CO2=9.99 CO=58.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 17:52:02
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
17:52:02	10.0	-2.3	-1.2	56.3	10.2	0.7	11.7
17:52:12	10.0	-2.4	-1.2	55.6	10.2	0.7	7.1
17:52:22	10.0	-1.9	-1.4	56.7	10.2	0.7	3.7
17:52:32	10.0	-1.7	-1.4	56.0	10.2	0.7	5.0
17:52:42	10.0	-1.6	-1.1	56.6	10.2	0.7	12.5
17:52:52	10.0	-1.6	-1.4	56.8	10.2	0.7	6.1
17:53:02	10.0	-1.6	-1.3	56.4	10.2	0.7	3.6
17:53:12	10.0	-1.7	-1.3	56.9	10.2	0.7	6.9
17:53:22	10.0	-1.7	-1.4	56.0	10.2	0.7	-1.3
17:53:32	10.0	-1.5	-1.3	56.0	10.2	0.7	6.0
17:53:42	10.0	-1.7	-1.3	56.6	10.2	0.7	11.0
17:53:52	10.0	-1.8	-1.3	57.5	10.2	0.7	9.6
17:54:02	10.0	-1.7	-1.3	55.9	10.2	0.7	11.2
17:54:12	10.0	-1.5	-1.1	57.3	10.2	0.7	4.8
17:54:22	10.0	-1.9	-1.3	55.8	10.2	0.7	-1.6
17:54:32	10.0	-2.0	-1.6	57.2	10.2	0.8	0.5
Avg.=	10.0	-1.8	-1.3	56.5	10.2	0.7	6.1

RADIAN CORPORATION O2=4.99 CO2=5.02 CO=19.9 HQ 9.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 17:57:43
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
17:57:44	5.0	-5.0	-1.7	15.7	5.1	0.7	15.7
17:57:54	5.0	-2.2	-1.5	16.3	5.1	0.7	-0.6
17:58:04	5.0	-1.8	-1.6	15.1	5.1	0.7	13.3
17:58:14	5.0	-1.8	-1.4	15.2	5.1	0.7	11.6
17:58:24	5.0	-1.7	-1.6	16.0	5.1	0.7	18.9
17:58:34	5.0	-1.6	-1.4	16.2	5.1	0.7	15.6
17:58:43	5.0	-1.9	-1.7	16.5	5.1	0.8	11.5
17:58:53	5.0	-1.7	-1.5	15.9	5.1	0.8	15.5
17:59:03	5.0	-1.8	-1.6	16.0	5.1	0.7	7.3
17:59:13	5.0	-1.9	-1.8	15.3	5.1	0.7	9.1
17:59:23	5.0	-1.7	-1.4	15.5	5.1	0.7	15.6
17:59:33	5.0	-1.7	-1.5	15.9	5.1	0.7	11.6
17:59:43	5.0	-1.7	-1.5	17.0	5.1	0.7	17.3
17:59:53	5.0	-1.9	-1.7	15.6	5.1	0.7	11.7
18:00:03	5.0	-1.9	-1.4	16.7	5.1	0.7	5.4
18:00:13	5.0	-2.1	-1.6	15.4	5.1	0.7	9.1
Avg.=	5.0	-2.0	-1.6	15.9	5.1	0.7	11.8

RADIAN CORPORATION SO2=86 NOX=89.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 18:04:01
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:04:01	0.0	-9.1	87.6	-1.6	-0.4	89.1	9.2
18:04:11	0.0	-11.1	87.5	-1.2	-0.4	89.2	19.0
18:04:21	0.0	-9.9	87.6	-1.5	-0.4	89.2	17.7
18:04:31	0.0	-9.0	87.6	-2.0	-0.4	89.2	14.2
18:04:41	0.0	-8.6	87.8	-2.2	-0.4	89.3	7.0
18:04:51	0.0	-8.7	87.9	-2.3	-0.4	89.2	13.2
18:05:01	0.0	-8.8	88.0	-2.2	-0.4	89.3	13.9
18:05:11	0.0	-9.6	88.0	-1.2	-0.4	89.2	15.0
Avg.=	0.0	-9.3	87.7	-1.8	-0.4	89.2	13.7

RADIAN CORPORATION HCL=9.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 18:05:28
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:05:28	0.0	-10.9	88.0	-0.9	-0.4	89.2	20.9
18:05:38	0.0	-10.8	87.8	-1.4	-0.4	89.2	11.4
18:05:48	0.0	-9.5	88.0	-1.1	-0.4	89.2	9.2
18:05:58	0.0	-9.1	87.8	-2.5	-0.4	89.3	13.0
18:06:08	0.0	-9.9	86.9	-2.3	-0.4	65.7	17.4
18:06:18	0.0	-11.9	64.5	-1.6	-0.2	34.8	15.6
18:06:28	0.0	-0.9	40.8	-1.5	-0.3	27.7	13.4
18:06:38	0.1	2.4	31.3	-1.5	-0.3	25.8	14.4
18:06:48	0.2	1.8	28.0	-2.0	-0.3	25.3	11.9
18:06:58	0.1	1.6	26.2	-2.6	-0.3	25.2	9.2
18:07:08	0.1	1.5	25.6	-2.9	-0.3	25.2	14.1
18:07:18	0.1	1.3	25.3	-2.4	-0.3	25.1	18.9
18:07:28	0.0	0.1	25.2	-2.0	-0.3	25.1	23.6
18:07:38	0.0	0.3	25.3	-1.6	-0.3	25.1	21.6
Avg.=	0.1	-3.9	52.2	-1.9	-0.3	47.3	15.3

RADIAN CORPORATION SO2=24.6 NOx=25.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 18:09:54
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:09:55	0.0	0.8	24.6	-2.5	-0.4	25.0	13.4
18:10:05	0.0	0.4	24.3	-1.5	-0.3	25.1	4.8
18:10:15	0.0	0.8	24.2	-2.5	-0.4	25.1	1.6
18:10:25	0.0	1.1	24.1	-2.3	-0.3	25.0	5.7
18:10:34	0.0	1.3	24.5	-3.0	-0.4	25.0	11.7
18:10:44	0.0	1.2	24.4	-2.0	-0.4	25.0	13.3
18:10:54	0.0	1.2	24.7	-1.3	-0.4	25.1	11.4
18:11:04	0.0	1.2	25.2	-1.8	-0.4	25.1	7.1
18:11:14	0.0	1.3	25.0	-2.2	-0.4	25.1	1.4
18:11:24	0.0	1.2	24.5	-2.7	-0.4	25.1	3.5
18:11:34	0.0	1.2	24.4	-2.1	-0.4	25.1	5.6
18:11:44	0.0	1.3	24.4	-3.3	-0.4	25.1	15.5
18:11:54	0.0	1.3	24.8	-2.6	-0.4	25.1	11.4
18:12:04	0.0	1.2	24.6	-0.9	-0.4	25.1	3.4
18:12:14	0.0	1.2	24.6	-1.3	-0.4	25.1	7.3
18:12:24	0.0	1.3	24.8	-1.9	-0.4	25.1	1.3
18:12:34	0.0	1.3	24.3	-2.1	-0.4	25.1	5.2
Avg.=	0.0	1.1	24.6	-2.1	-0.4	25.1	7.3

RADIAN CORPORATION HCL=0

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-07-1991 Current Time = 18:12:46
File Name = D:\CEMDATA\090791.PRN Calibration File:D:\CEMDATA\0907B0.CAL

09-07-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:12:47	0.0	0.3	24.5	-1.2	-0.3	25.1	3.4
18:12:57	0.0	0.6	24.5	-2.5	-0.3	25.1	9.2
18:13:07	0.0	1.3	24.4	-1.4	-0.4	25.1	9.2
18:13:17	0.0	0.5	24.1	-1.7	-0.3	13.6	6.6
18:13:27	0.0	-1.9	13.1	-2.2	-0.2	2.6	3.3
18:13:37	0.2	1.8	2.6	-1.7	-0.3	1.2	4.2
18:13:47	4.2	-0.6	-0.1	-2.2	-0.3	1.0	1.1
18:13:57	11.9	-1.1	-0.7	-2.7	-0.3	0.9	10.0
18:14:07	17.6	-1.1	-1.1	-2.5	-0.3	0.9	10.3
18:14:17	20.0	-1.3	-0.9	-2.0	-0.3	0.9	9.3
18:14:27	20.8	-1.8	-1.1	-1.5	-0.3	0.9	11.1
Avg.=	6.8	-0.3	9.9	-2.0	-0.3	8.8	7.1

Run 4
Pre-test

OUTLET

CALIBRATION SUMMARY
09-09-1991 08:42:54
CALIBRATION FILE NAME =D:\CEMDATA\0909B0A.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.02	0.6085	20.00	8.104	2.465	0.03
2	~~THC~~	ppmV	0.00	%-3.4813	89.70	5.066	10.495	36.54
3	SO2	ppmV	0.00	-.0044	194.90	0.409	471.898	2.07
4	CO	ppmV	0.00	0.0082	98.90	0.865	101.436	-0.84
5	CO2	%V	0.00	0.0020	18.00	0.090	203.517	-0.40
6	NOx	ppmV	0.00	-.0121	195.60	7.821	24.971	0.30
7	HCl	ppmV	0.00	0.0237	107.00	0.533	210.120	-4.97
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press 'C' to Continue

RADIAN CORPORATION QC'S BEGIN HCL=49.1

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS HWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 08:45:58
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909B0A.CAL

09-09-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:45:59	0.0	3.9	33.1	0.9	-0.1	89.2	56.4
08:46:09	0.0	3.2	32.3	0.2	-0.1	89.2	42.9
08:46:19	0.0	4.2	31.9	0.2	-0.1	89.2	51.8
08:46:29	0.0	4.1	31.1	-0.5	-0.1	89.2	49.0
08:46:38	0.0	4.6	34.6	0.2	-0.1	89.0	49.5
08:46:48	0.0	-8.3	62.5	0.7	-0.1	89.1	51.6

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
08:47:28	0.0	-8.5	87.4	0.2	-0.1	89.2	53.1
08:47:38	0.0	-8.4	87.5	0.9	-0.1	89.1	52.5
08:47:48	0.0	-8.4	88.6	0.5	-0.1	89.1	43.8
08:47:58	0.0	-8.4	88.3	1.0	-0.1	89.2	44.6
08:48:08	0.0	-8.4	88.5	0.4	-0.1	89.2	51.9
08:48:22	0.0	-8.7	88.3	0.0	-0.1	89.1	53.9
08:48:32	0.0	-8.6	89.4	-0.0	-0.1	89.2	57.4
08:48:42	0.0	-8.4	89.6	0.4	-0.1	89.2	52.1
Avg.=	0.0	-4.9	69.4	0.3	-0.1	89.1	50.0

RADIAN CORPORATION SO2=86 NOX=88.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS #WI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 08:55:54
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909B0A.CAL

Hd 9.58

09-09-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:55:54	0.0	-7.1	90.7	1.6	-0.1	89.0	6.7
08:56:04	0.0	-8.8	90.8	0.9	-0.1	89.0	14.8
08:56:14	0.0	-8.1	90.7	0.5	-0.1	88.9	14.1
08:56:24	0.0	-7.6	91.0	-0.5	-0.1	89.0	9.7
08:56:34	0.0	-7.7	91.0	-0.4	-0.1	89.0	9.1
08:56:44	0.0	-7.3	90.9	1.3	-0.1	89.0	10.5
08:56:54	0.0	-7.3	91.0	1.5	-0.1	89.0	13.1
08:57:04	0.0	-8.1	90.9	1.0	-0.1	88.9	15.8
08:57:14	0.0	-7.3	90.9	0.6	-0.1	89.0	11.1
08:57:24	0.0	-7.3	90.8	1.7	-0.1	89.0	12.9
08:57:34	0.0	-7.4	90.8	-0.4	-0.1	88.9	9.7
08:57:44	0.0	-6.8	90.6	-0.5	-0.1	89.0	0.9
08:57:54	0.0	-7.0	90.9	1.9	-0.1	89.0	7.4
08:58:04	0.0	-8.1	91.2	1.1	-0.1	89.0	15.0
08:58:13	0.0	-7.6	90.9	0.1	-0.1	89.0	11.9
08:58:23	0.0	-7.8	91.3	-0.0	-0.1	89.0	11.0
08:58:33	0.0	-7.6	90.9	0.5	-0.1	88.9	10.1
08:58:43	0.0	-7.0	91.3	0.5	-0.1	88.6	4.5
08:58:53	0.0	-7.2	91.3	0.9	-0.1	88.4	7.9
08:59:03	0.0	-7.3	90.4	1.3	-0.1	88.5	12.0
08:59:13	0.0	-7.3	90.3	0.6	-0.1	88.4	10.0
08:59:23	0.0	-7.2	90.0	0.3	-0.1	88.4	7.8
08:59:33	0.0	-7.2	90.0	0.3	-0.1	88.5	4.4
08:59:43	0.0	-7.1	89.9	0.4	-0.1	88.5	0.7
08:59:53	0.0	-7.2	90.0	1.1	-0.1	88.5	9.6
[illegible]	0.0	-7.1	90.0	1.2	-0.1	88.5	7.2
09:00:13	0.0	-7.3	90.1	0.3	-0.1	88.5	5.7
[illegible]	0.0	-7.4	90.2	0.3	-0.1	88.4	6.3
Avg.=	0.0	-7.4	90.7	0.7	-0.1	88.8	9.4

RADIAN CORPORATION SO2=24.7 NOX=25.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 09:05:53
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909BOA.CAL

09-09-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
09:05:54	0.0	2.0	25.9	0.2	-0.1	24.4	-0.2
09:06:04	0.0	1.9	25.6	0.8	-0.0	24.4	9.1
09:06:14	0.0	2.8	25.9	0.0	-0.1	24.4	4.7
09:06:24	0.0	2.7	25.8	0.0	-0.1	24.4	7.9
09:06:34	0.0	2.6	25.8	-0.2	-0.1	24.4	4.7
09:06:44	0.0	2.7	25.7	-0.1	-0.1	24.4	8.6
09:06:54	0.0	2.8	25.7	0.7	-0.1	24.4	2.7
09:07:03	0.0	2.7	25.8	0.6	-0.1	24.4	0.9
09:07:13	0.0	2.7	26.1	-0.3	-0.1	24.4	3.4
09:07:23	0.0	2.6	25.4	-0.5	-0.1	24.4	2.0
Avg.=	0.0	2.6	25.8	0.1	-0.1	24.4	4.4

RADIAN CORPORATION O2=10 CO2=9.99 CO=58.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 09:11:42
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909B0A.CAL

09-09-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
09:11:43	9.9	1.2	1.1	58.5	10.2	-0.0	12.5
09:11:53	9.9	0.7	0.9	58.6	10.2	0.0	4.6
09:12:03	9.9	1.3	0.9	58.7	10.2	0.0	5.2
09:12:13	10.0	0.9	0.7	57.8	10.2	0.0	2.0
09:12:23	9.9	1.3	0.8	57.8	10.2	0.0	4.6
09:12:33	10.0	1.4	1.2	60.6	10.2	-0.0	12.9
09:12:43	10.0	1.3	0.8	59.6	10.2	0.0	12.3
09:12:53	9.9	1.6	1.2	57.3	10.2	-0.0	4.5
09:13:03	9.9	1.1	0.8	59.1	10.2	0.0	-2.2
09:13:13	9.9	1.3	0.9	59.0	10.2	0.0	-0.8
09:13:23	9.9	1.4	1.0	58.6	10.2	0.0	4.8
09:13:33	10.0	1.3	0.9	57.9	10.2	0.0	8.3
09:13:43	10.0	1.4	1.1	58.0	10.2	-0.0	7.5
Avg.=	10.0	1.2	0.9	58.6	10.2	0.0	5.9

RADIAN CORPORATION O2=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 09:18:23
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909B0A.CAL

09-09-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
09:18:24	5.0	0.7	0.7	18.5	5.2	-0.0	2.1
09:18:34	5.0	0.1	0.4	18.1	5.2	0.0	7.6
09:18:44	5.0	0.8	0.6	18.1	5.2	0.0	5.5
09:18:54	5.0	0.3	0.4	18.3	5.2	-0.0	3.9
09:19:04	5.0	0.4	0.2	18.7	5.2	0.0	4.7
09:19:14	5.0	0.5	0.4	18.5	5.2	0.0	5.0
09:19:24	5.0	0.5	0.3	18.2	5.2	0.0	4.0
09:19:34	5.0	0.6	0.4	18.2	5.2	0.0	6.9
09:19:44	5.0	0.6	0.5	18.3	5.2	0.0	2.6
09:19:54	5.0	0.6	0.4	18.5	5.2	0.0	1.0
09:20:04	5.0	0.7	0.6	18.9	5.2	0.0	3.4
09:20:14	5.0	0.4	0.3	18.8	5.2	0.0	4.9
09:20:23	5.0	0.5	0.2	18.5	5.2	0.0	11.9
09:20:33	5.0	0.7	0.5	18.2	5.2	0.0	7.1
09:20:43	5.0	0.6	0.4	18.0	5.2	0.0	-1.1
09:20:53	5.0	0.4	0.4	18.3	5.2	-0.0	2.0
Avg.=	5.0	0.5	0.4	18.4	5.2	0.0	4.5

RADIAN CORPORATION QC'S NOX=25.9 SO2=24.3

Mid-test QC's

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 15:03:39
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909BOB.CAL

OUTLET

09-09-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
15:03:40	0.0	-0.0	24.3	-3.2	-0.0	25.3	14.3
15:03:50	0.0	-0.0	23.9	-3.2	-0.1	25.3	8.9
15:04:00	0.0	-0.0	23.9	-3.2	-0.1	25.3	12.5
15:04:10	0.0	-0.0	24.0	-3.2	-0.0	25.3	15.7
15:04:20	0.0	-0.0	24.2	-3.2	-0.0	25.3	17.4
15:04:30	0.0	-0.0	23.9	-3.2	-0.0	25.3	16.7
15:04:40	0.0	-0.0	24.1	-3.2	-0.1	25.3	11.3
Avg.=	0.0	-0.0	24.1	-3.2	-0.0	25.3	13.8

RADIAN CORPORATION O2=10 [illegible] CO2=9.99 CO=58.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 15:08:12
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909BOB.CAL

09-09-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
15:08:13	10.0	-0.0	-0.8	54.4	10.0	1.1	13.9
15:08:23	10.0	-0.0	-1.0	54.3	10.0	1.1	14.1
15:08:32	10.0	-0.0	-1.0	54.0	10.0	1.1	6.3
15:08:42	10.0	-0.0	-1.0	53.7	10.0	1.1	0.2
15:08:52	10.0	-0.0	-1.0	54.1	10.0	1.1	6.8
15:09:02	10.0	-0.0	-1.0	54.8	10.0	1.1	15.6
15:09:12	10.0	-0.0	-0.9	55.5	10.0	1.1	8.5
15:09:22	10.0	-0.0	-1.0	54.6	10.0	1.1	10.3
15:09:32	10.0	-0.0	-0.9	54.5	10.0	1.1	13.9
15:09:42	10.0	-0.0	-1.1	54.4	10.0	1.1	6.1
Avg.=	10.0	-0.0	-1.0	54.4	10.0	1.1	9.6

RADIAN CORPORATION O2=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: RPA
Date Printed = 09-09-1991 Current Time = 15:13:17
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\0909BOB.CAL

09-09-1991 Time__	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
15:13:18	5.0	-0.0	-1.0	14.1	5.1	1.1	15.9
15:13:28	5.0	-0.0	-1.0	14.1	5.1	1.1	4.0
15:13:38	5.0	-0.0	-1.0	14.1	5.1	1.1	11.8
15:13:48	5.0	-0.0	-1.0	14.3	5.1	1.1	10.7
15:13:58	5.0	-0.0	-1.1	14.5	5.1	1.1	13.4
15:14:08	5.0	-0.0	-1.0	14.6	5.1	1.1	17.3
15:14:18	5.0	-0.0	-1.0	14.9	5.1	1.1	12.9
15:14:28	5.0	-0.0	-1.0	14.8	5.1	1.1	8.1
15:14:38	5.0	-0.0	-1.1	14.1	5.1	1.1	7.3
15:14:48	5.0	-0.0	-1.0	13.9	4.9	1.1	4.1
15:14:58	5.0	-0.0	-0.6	13.4	5.0	63.2	7.1
Avg.=	5.0	-0.0	-1.0	14.3	5.1	6.7	10.2

Run #3
Post test
BO

OUTLET

CALIBRATION SUMMARY
09-09-1991 18:23:09
CALIBRATION FILE NAME =D:\CEMDATA\090991F.CAL ~~Bogus~~

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%V	2.02	0.8107	20.00	8.146	2.451	0.03
2	Hg	ug/m3	0.00	-.0285	89.70	5.066	17.609	0.50
3	SO2	ppmV	0.00	-.0057	194.90	0.403	476.668	2.74
4	CO	ppmV	0.00	-.0241	88.90	0.829	104.152	2.51
5	CO2	%V	0.00	0.0018	18.00	0.088	208.640	-0.38
6	NOx	ppmV	0.00	0.0391	195.60	7.823	25.130	-0.98
7	HCl	ppmV	0.00	0.0380	107.00	0.530	217.385	-8.26
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

CEM INSTRUMENT DRIFT SUMMARY
09-09-1991 18:23:39

Bogus

Chan.	Name	Units	Zero Conc. Actual	Zero Conc. Observed	Span Actual	Span Observed	Drift % of Scale Zero	Drift % of Scale Span
1	O2	%V	2.020	2.025	20.00	20.10	0.02	0.42
2	Hg	ug/m3	0.000	-.506	89.70	0.00	-0.03	-4.48
3	SO2	ppmV	0.000	-.637	194.90	192.31	-0.64	-2.59
4	CO	ppmV	0.000	%-3.277	88.90	83.31	-3.28	-5.59
5	CO2	%V	0.000	-.027	18.00	17.53	-0.14	-2.35
6	NOx	ppmV	0.000	1.280	195.60	195.64	0.51	0.01
7	HCl	ppmV	0.000	3.005	107.00	106.43	1.20	-0.23
8			0.000	0.000	0.00	0.00	0.00	0.00
9			0.000	0.000	0.00	0.00	0.00	0.00

13	0.000	0.000	0.00	0.00	0.00	0.00
14	0.000	0.000	0.00	0.00	0.00	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION LINEARITY CHK SO2=86 NOX=88.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 18:26:11
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\090991F.CAL

09-09-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:26:12	0.0	0.4	89.4	0.0	-0.0	88.7	12.0
18:26:21	0.0	0.4	90.1	0.0	-0.0	88.7	10.3
18:26:31	0.0	0.4	89.9	0.0	-0.1	88.7	5.6
18:26:41	0.0	0.4	89.9	0.0	-0.1	88.7	1.5
18:26:51	0.0	0.4	90.0	0.0	-0.1	88.8	0.1
18:27:01	0.0	0.4	90.1	0.0	-0.1	88.7	-3.9
18:27:11	0.0	0.4	90.3	0.0	-0.1	88.8	-1.2
18:27:21	0.0	0.4	90.3	0.0	-0.1	88.7	3.0
Avg.=	0.0	0.4	90.0	0.0	-0.1	88.7	3.4

RADIAN CORPORATION SO2=24.3 NOX=25.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-09-1991 Current Time = 18:29:47
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\090991F.CAL

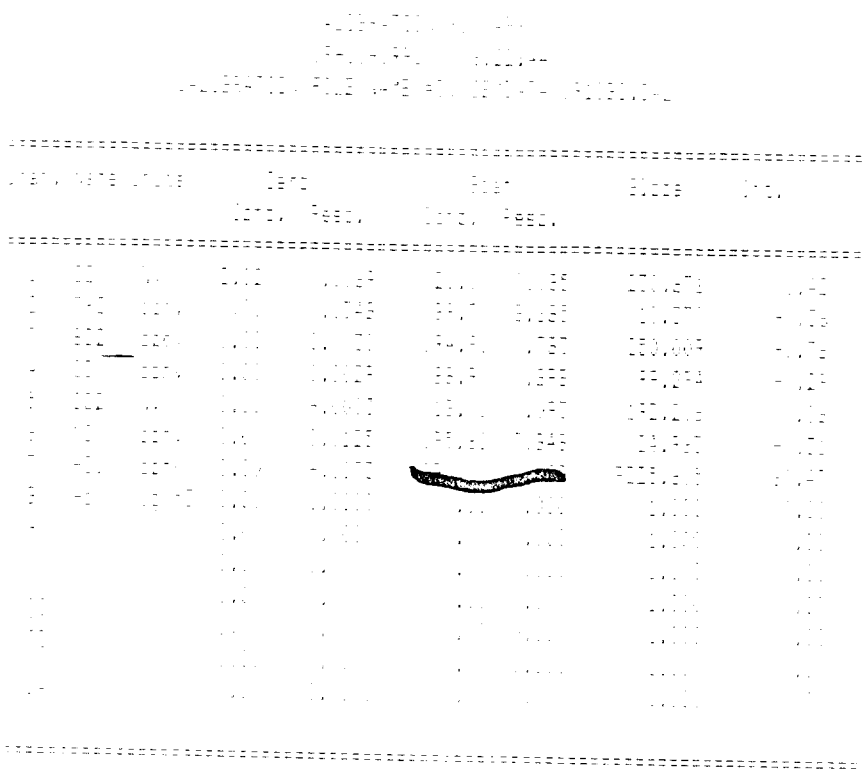
09-09-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:29:48	0.2	0.4	27.2	0.0	-0.0	24.2	3.0
18:29:58	0.0	0.4	26.8	0.0	-0.0	24.3	2.9
18:30:08	0.0	0.4	26.7	0.0	-0.0	24.3	-3.7
18:30:17	0.0	0.4	26.9	0.0	-0.0	24.3	7.3
18:30:27	0.0	0.4	26.8	0.0	-0.0	24.3	7.3
18:30:37	0.0	0.4	26.7	0.0	-0.0	24.3	11.0
18:30:47	0.0	0.4	26.6	0.0	-0.0	24.3	3.0
18:30:57	0.0	0.4	26.8	0.0	-0.0	24.3	-8.2
Avg.=	0.1	0.4	26.8	0.0	-0.0	24.3	2.8

RADIAN CORPORATION 02=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-09-1991 Current Time = 18:33:53
File Name = D:\CEMDATA\090991.PRN Calibration File:D:\CEMDATA\090991F.CAL

09-09-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:33:54	5.0	0.4	-0.1	16.3	5.3	-0.0	178.6
18:34:04	5.0	0.4	-0.1	16.3	5.3	0.0	177.4
18:34:14	5.0	0.4	-0.1	16.4	5.3	0.1	179.8
18:34:24	5.0	0.4	0.1	16.4	5.3	-0.0	176.2
18:34:34	5.0	0.4	-0.2	16.0	5.3	0.0	171.2
18:34:44	5.0	0.4	0.1	16.5	5.3	-0.0	162.5
18:34:54	5.0	0.4	0.2	16.3	5.3	-0.1	153.2
18:35:04	5.0	0.4	-0.1	16.6	5.3	-0.0	107.5
18:35:14	5.0	0.4	0.1	17.3	5.3	-0.1	71.4
18:35:24	5.0	0.4	0.0	17.2	5.3	-0.0	60.6
Avg.=	5.0	0.4	-0.0	16.5	5.3	-0.0	143.9

Run # 4
Pretest
Boiler Inlet



[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

HCl 206

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.2	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9.8	0.2	241.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	56.7	9.8	0.2	241.3	-4.2
[illegible]	[illegible]	48.4	-0.9	56.5	9.8	0.2	241.9	-4.2
[illegible]	10.6	48.4	-1.0	56.6	9.8	0.2	[illegible]	-4.2
08:46:46	10.6	48.4	-1.0	56.5	9.8	0.2	241.2	-4.2
08:46:56	10.6	48.7	-1.1	56.5	9.8	0.2	241.4	-4.2
08:47:06	10.6	48.5	-1.3	56.3	9.8	0.2	259.2	-4.2
08:47:16	10.6	48.2	-1.1	56.6	9.8	0.2	312.9	-4.2
08:47:26	10.6	48.7	-0.9	56.7	9.8	0.2	241.2	-4.2
08:47:36	10.6	48.2	-0.8	56.6	9.8	0.2	241.1	-4.2
08:47:46	10.6	48.2	-1.1	56.8	9.8	0.2	241.5	-4.2
08:47:56	10.6	48.2	-0.9	57.0	9.8	0.2	241.1	-4.2
08:48:06	10.6	48.2	-0.8	57.1	9.8	0.2	241.5	-4.2
08:48:16	10.5	48.2	-1.0	56.9	9.8	0.2	241.3	-4.2
08:48:26	10.5	48.7	-0.9	56.6	9.8	0.2	241.1	-4.2
08:48:36	10.5	48.7	-0.8	56.7	9.8	0.2	241.2	-4.2
08:48:46	10.5	48.4	-1.0	56.9	9.8	0.2	241.2	-4.2
08:48:56	10.5	48.2	-1.2	56.6	9.8	0.2	283.0	-4.2
08:49:06	10.5	[illegible]	-1.2	56.8	9.8	0.2	330.6	-4.2
08:49:16	10.5	48.4	-1.2	56.7	9.8	0.2	319.4	-4.2
08:49:26	[illegible]	[illegible]	[illegible]	56.6	9.8	0.2	[illegible]	-4.2
08:49:36	10.5	[illegible]	-1.0	56.6	9.8	0.2	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	56.3	[illegible]	[illegible]	[illegible]	-4.2
08:49:56	10.5	48.2	-1.0	57.0	9.8	0.2	330.3	-4.2
08:50:06	10.5	48.7	-1.2	56.9	9.7	0.2	322.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	56.7	9.8	0.2	[illegible]	-4.2

60

[illegible]

[illegible] Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Reported for: [illegible]
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File:[illegible]

[illegible] Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	5.6	27.0	-1.1	17.9	4.9	0.2	788.9	-4.2
[illegible]	5.4	27.1	-1.2	17.9	4.9	0.2	877.6	-4.2
[illegible]	5.4	27.1	-1.1	18.0	4.9	0.2	873.8	-4.2
[illegible]	5.4	27.0	-1.2	17.9	4.9	0.2	873.9	-4.2
[illegible]	5.4	27.1	-1.1	18.0	4.9	0.2	873.7	-4.2
[illegible]	5.4	27.1	-1.9	17.9	4.9	0.2	873.8	-4.2
[illegible]	5.4	27.1	-1.9	17.9	4.9	0.2	873.6	-4.2
[illegible]	5.4	27.1	-1.1	17.8	4.9	0.2	958.6	-4.2
[illegible]	5.4	27.0	-1.1	18.0	4.9	0.2	964.5	-4.2
[illegible]	5.4	27.0	-1.1	17.9	4.9	0.2	964.4	-4.2
[illegible]	5.4	27.0	-1.4	18.1	4.9	0.2	964.3	-4.2
[illegible]	5.4	27.0	-1.2	17.9	4.9	0.2	964.2	-4.2
[illegible]	5.4	27.0	-1.2	17.8	4.9	0.2	964.3	-4.2
[illegible]	5.4	27.0	-1.2	17.8	4.9	0.2	883.7	-4.2
[illegible]	5.4	27.0	-1.1	18.0	4.9	0.2	953.9	-4.2
[illegible]	5.4	27.0	-1.1	18.0	4.9	0.2	964.2	-4.2
[illegible]	5.4	27.0	-1.2	17.8	4.9	0.2	964.3	-4.2
[illegible]	5.4	27.0	-1.1	17.9	4.9	0.1	964.3	-4.2
[illegible]	5.4	27.0	-1.0	18.0	4.9	0.2	964.3	-4.2
[illegible]	5.4	27.0	-1.2	18.1	4.9	0.2	964.3	-4.2
[illegible]	5.4	26.9	-1.1	18.0	4.9	0.1	964.4	-4.2
[illegible]	5.4	27.0	-1.1	17.9	4.9	0.1	964.3	-4.2
[illegible]	5.4	27.0	-1.1	17.8	4.9	0.1	964.4	-4.2
[illegible]	5.4	27.0	-1.1	17.9	4.9	0.2	923.9	-4.2

[illegible] CORPORATION [illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 9:01:53
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\091091.CAL

09-10-1991 Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmv	HCl ppmv	Hg ug/m3
9:01:55	20.9	5.7	-1.1	-0.2	0.0	0.2	962.9	-4.2
9:02:05	20.9	5.8	-1.2	-0.2	0.0	0.2	962.5	-4.2
9:02:15	20.9	5.7	-1.1	-0.2	0.0	0.2	962.9	-4.2
9:02:25	20.9	5.7	-1.1	-0.2	0.0	0.2	962.8	-4.2
9:02:35	20.9	5.7	-1.1	-0.2	0.0	0.2	962.7	-4.2
9:02:45	20.9	5.6	-1.0	-0.2	0.0	0.2	962.8	-4.2
9:02:54	20.9	5.7	-1.2	-0.1	0.0	0.2	962.7	-4.2
9:03:04	20.9	5.7	-1.1	-0.2	0.0	0.2	962.8	-4.2
9:03:14	20.8	5.6	-1.1	-0.2	-0.1	0.2	962.7	-4.2
9:03:24	20.8	5.7	-1.1	-0.2	0.0	0.2	521.4	-4.2
9:03:34	20.8	5.7	-1.0	-0.2	0.0	0.2	521.4	-4.2
Avg.=	20.9	5.7	-1.2	-0.2	0.0	0.2	882.5	-4.2

CALIBRATION SUMMARY
[illegible]
CALIBRATION FILE NAME = [illegible]CAL

Re Cal HCl w/839

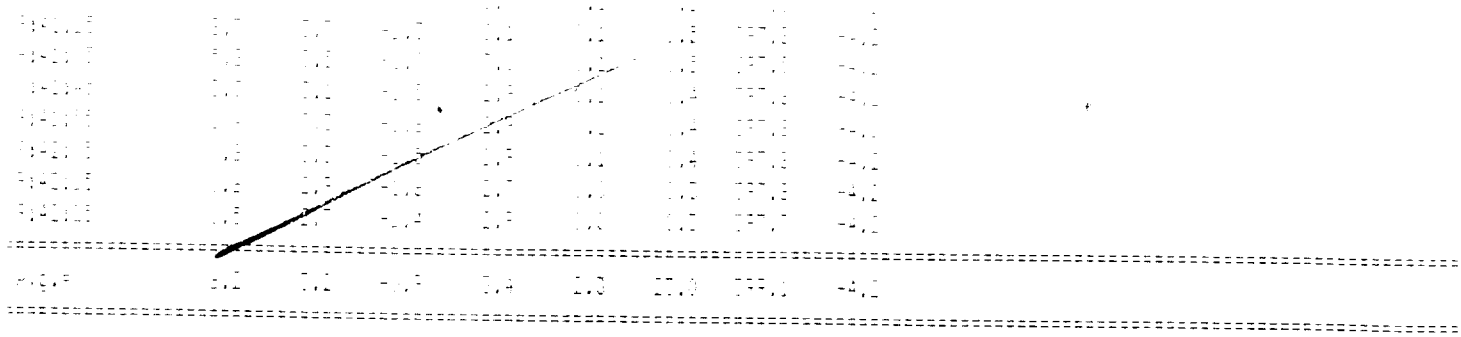
Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	CO2	%	0.00	[illegible]	[illegible]	1.355	220.571	0.42
2	THC	ppmv	0.00	[illegible]	[illegible]	5.555	15.570	-0.06
3	SO2	ppmv	0.00	[illegible]	194.[illegible]	.757	250.[illegible]	-0.76
4	CO	ppmv	0.00	[illegible]	[illegible]	.575	95.274	-0.27
5	O2	%	0.00	-.0005	15.[illegible]	0.080	192.206	0.06
6	NOx	ppmv	0.00	[illegible]	[illegible]	7.548	24.963	-0.01
7	HCl	ppmv	0.00	[illegible]	839.[illegible]	0.057	8873.043	54.37
8	Hg	ug/m3	0.00	[illegible]	[illegible]	0.000	1.000	0.00
9			0.00	[illegible]	[illegible]	0.000	1.000	0.00
10			0.00	[illegible]	[illegible]	0.000	1.000	0.00
11			0.00	[illegible]	[illegible]	.000	1.000	.00
12			[illegible]	[illegible]	[illegible]	.000	1.000	.00
13			.00	[illegible]	[illegible]	[illegible]	1.000	.00
14			.00	[illegible]	[illegible]	.000	1.000	.00

Press [illegible] to [illegible] Table
Press [illegible] to Continue

[illegible] CORPORATION

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File(s) [illegible]CAL

[illegible] Time	CO2 %	THC ppmv	SO2 ppmv	CO ppmv	O2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	75.2	401.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	75.2	401.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	4.[illegible]	[illegible]	70.0	401.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	62.4	401.8	-4.2



[illegible] CORPORATION [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = [illegible]-10-1991 Current Time = [illegible]:42:34
File Name = D:\CEMDATA\[illegible].PRN Calibration File:D:\CEMDATA\[illegible].CAL

[illegible]-10-1991 Time	O2 NV	THD ppmV	SO2 ppmV	CO ppmV	CO2 NV	NOx ppmV	HCl ppmV	Hg ug/m3
[illegible]:42:35	0.6	2.5	-1.4	2.9	0.0	0.3	397.5	-4.2
[illegible]:42:45	0.4	2.3	-1.4	2.8	0.0	0.3	397.6	-4.2
[illegible]:42:55	0.5	2.2	-1.5	2.5	0.0	0.3	397.7	-4.2
[illegible]:43:05	0.4	2.0	-1.6	2.8	0.0	0.3	397.6	-4.2
[illegible]:43:15	0.4	1.9	-1.5	2.6	0.0	0.3	397.9	-4.2
[illegible]:43:25	0.4	1.9	-1.5	2.6	0.0	0.2	397.7	-4.2
[illegible]:43:34	0.4	1.8	-1.4	2.7	0.0	0.2	397.6	-4.2
[illegible]:43:44	0.4	1.7	-1.4	2.6	0.0	0.2	397.6	-4.2
[illegible]:43:54	0.4	1.7	-1.7	2.6	0.0	0.2	397.6	-4.2
[illegible]:44:04	0.4	1.7	-1.7	2.6	0.0	0.2	397.6	-4.2
[illegible]:44:14	0.4	1.7	-1.5	2.6	0.0	0.2	397.7	-4.2
[illegible]:44:24	0.4	1.7	-1.5	2.6	0.0	0.2	397.6	-4.2
[illegible]:44:34	0.4	1.6	-1.6	2.6	0.0	0.2	397.8	-4.2
[illegible]:44:44	0.4	1.6	-1.5	2.6	0.0	0.2	397.7	-4.2
[illegible]:44:54	0.4	1.6	-1.6	2.6	0.0	0.2	397.7	-4.2
[illegible]:45:04	0.4	1.6	-1.7	2.5	0.0	0.2	397.7	-4.2
[illegible]:45:14	0.4	1.5	-1.8	2.6	0.0	0.2	397.7	-4.2
[illegible]:45:24	0.4	1.5	-1.6	2.7	0.0	0.2	397.6	-4.2
[illegible]:45:34	0.4	1.5	-1.6	2.6	0.0	0.2	397.6	-4.2
[illegible]:45:44	0.4	1.5	-1.7	2.5	0.0	0.2	397.8	-4.2
[illegible]:45:54	0.4	1.5	-1.4	2.6	0.0	0.2	397.8	-4.2
[illegible]:46:04	0.4	1.5	-1.3	2.5	0.0	0.2	397.6	-4.2
[illegible]:46:14	0.4	1.5	-1.3	2.5	0.0	0.2	397.7	-4.2
[illegible]:46:[illegible]	0.4	1.5	-1.3	2.6	0.0	0.2	397.9	-4.2
[illegible]:46:[illegible]	0.4	1.6	[illegible]	2.6	[illegible]	0.2	397.6	-4.2
[illegible]:46:[illegible]	0.4	1.4	-1.4	2.5	0.0	0.2	397.6	-4.2
[illegible]:46:[illegible]	0.4	1.5	-1.6	2.6	[illegible]	0.2	397.8	-4.2
[illegible]:47:[illegible]	0.4	1.4	-1.6	2.5	0.0	0.2	397.5	-4.2
[illegible]:47:[illegible]	0.4	1.4	-1.4	2.6	0.0	0.2	397.5	-4.2
[illegible]:47:[illegible]	0.4	1.4	-1.5	2.7	0.0	0.2	397.7	-4.2
[illegible]:47:[illegible]	0.4	1.4	-1.6	2.5	0.0	0.2	397.9	-4.2
Avg.=	0.4	1.7	-1.5	2.6	0.0	0.2	397.7	-4.2

[illegible]

Test Testing and Process Engineering Test
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Averaged Over: 1 Hr

Data Printed = 07-JUN-1991 Current Time = [illegible]
File Name = D: [illegible] Calibration File: D: [illegible]

7-JUN-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	5.8	26.4	-1.0	20.5	4.9	0.2	231.3	-4.2
[illegible]	5.8	26.5	-1.4	20.6	4.9	0.2	231.3	-4.2
[illegible]	5.8	26.3	-1.5	21.6	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.3	21.7	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.3	21.5	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.6	21.6	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.5	21.6	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.4	21.6	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.5	21.7	4.9	0.2	231.5	-4.2
[illegible]	5.8	26.3	-1.5	21.6	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.5	21.5	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.5	21.6	4.9	0.2	231.4	-4.2
[illegible]	5.8	26.3	-1.5	21.6	4.9	0.2	231.4	-4.2
07-JUN-1991	5.8	26.3	-1.7	20.7	4.9	0.2	232.5	-4.3
Avg	5.8	26.3	-1.5	21.3	4.9	0.2	231.7	-4.2

CO ≈ 19.9 CH4 = 27.6

[illegible] CORPORATION SYSTEM BIAS [illegible] CO2=5.[illegible]

[illegible] Testing and Process Engineering Unit
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
[illegible] Printed = [illegible] Current Time = [illegible]
[illegible] Name = [illegible] Calibration File:[illegible] CEMDATA [illegible].CAL

[illegible] Time	O2 %	THC ppmV	SO2 ppmV	CO ppmV	CO2 %	NOx ppmV	HCl ppmV	Hg ug/m3
[illegible]	5.5	26.3	-1.6	20.7	4.9	0.2	364.7	-4.2
[illegible]	5.4	26.3	-1.7	20.6	4.9	0.2	315.3	-4.2
[illegible]	5.4	26.4	-1.5	20.7	4.9	0.2	315.9	-4.2
[illegible]	5.4	26.3	-1.4	20.6	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.3	-1.4	20.6	4.9	0.2	316.0	-4.2
[illegible]	5.4	26.3	-1.4	20.6	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.4	-1.5	20.6	4.9	0.2	315.7	-4.2
[illegible]	5.5	26.3	-1.7	20.6	4.9	0.2	315.7	-4.2
[illegible]	5.4	26.4	-1.6	20.7	4.9	0.2	315.7	-4.2
[illegible]	5.4	26.4	-1.6	20.7	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.4	-1.5	20.6	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.3	-1.7	20.6	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.3	-1.6	20.7	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.3	-1.7	20.6	4.9	0.2	315.9	-4.2
[illegible]	5.4	26.3	-1.6	20.7	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.3	-1.5	20.7	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.3	-1.6	20.6	4.9	0.2	315.8	-4.2
[illegible]	5.4	26.3	-1.6	20.5	4.9	0.2	337.7	-4.2
[illegible]	5.4	26.4	-1.5	20.6	4.9	0.2	401.2	-4.2
Avg.=	5.4	26.3	-1.6	20.6	4.9	0.2	324.0	-4.2

Post test [illegible]
Pre test Burn Down
Inlet

[illegible]
[illegible]
[illegible]

Chan.	Name	Units	Cond. Comp.	Cond. Resp.	Span Comp.	Span Resp.	Slope	Int.
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Press Shift-PrtSc to Print Out Table
Press [illegible] to Continue

CEM INSTRUMENT DRIFT SUMMARY
[illegible]

Bogus

Chan.	Name	Units	Zero Conc. Actual	Zero Conc. Observed	Span Actual	Span Observed	Drift % of Scale Zero	Drift % of Scale Span
1	[illegible]	[illegible]	2.020	[illegible]	[illegible]	20.85	-0.[illegible]	[illegible]
2	[illegible]	ppmv	0.000	[illegible]	[illegible]	91.05	0.96	5.38
3	[illegible]	ppmv	0.000	[illegible]	194.9[illegible]	193.02	-1.02	-1.88
4	[illegible]	ppmv	0.000	0.025	88.90	89.33	0.03	0.43
5	[illegible]	[illegible]	0.000	-0.005	18.00	17.80	-0.03	-1.01
6	[illegible]	ppmv	0.000	[illegible]	195.60	195.15	0.05	-0.18
7	[illegible]	ppmv	0.000	[illegible]	[illegible]	[illegible]	-0.39	-0.01
8	Hg	ug/m3	0.000	0.000	0.00	0.00	0.00	0.00
9			0.000	0.000	0.00	0.00	0.00	0.00
10			0.000	0.000	0.00	0.00	0.00	0.00
11			0.000	0.000	0.00	0.00	0.00	0.00
12			0.000	0.000	0.00	0.00	0.00	0.00
13			0.000	0.000	0.00	0.00	0.00	0.00
14			0.000	0.000	0.00	0.00	0.00	0.00

Press Shift-PrtSc to Print Out Table
Press [illegible] to Continue

[illegible]

[illegible] Testing and Process Engineering Lab.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
[illegible] Printed = [illegible] Current Time = [illegible]
[illegible] Name = D:\CEMDATA\[illegible].PRN Calibration File:D:\CEMDATA\0910BIF.CAL

[illegible]	[illegible]	THC	SO2	CO	CO2	NOx	HCl	Hg
[illegible]	[illegible]	ppmv	ppmv	ppmv	[illegible]	ppmv	ppmv	ug/m3
[illegible]	9.8	42.7	-0.1	56.6	9.8	-0.0	401.2	-4.2
[illegible]	9.8	48.6	[illegible]	56.7	9.8	0.0	399.9	-4.2
[illegible]	9.8	48.6	[illegible]	56.5	9.8	0.0	400.0	-4.2
[illegible]	9.8	48.6	-0.0	56.6	9.8	0.0	399.9	-4.2
[illegible]	9.8	48.5	-0.0	56.6	9.8	0.0	400.[illegible]	-4.2
[illegible]	9.8	48.6	-0.1	56.6	9.8	0.0	400.0	-4.2
[illegible]	9.8	48.5	[illegible]	56.6	9.8	0.0	400.1	-4.2
[illegible]	9.8	48.6	[illegible]	56.9	9.8	0.0	399.8	-4.2
[illegible]	9.8	47.8	-[illegible]	56.7	9.8	[illegible]	400.1	-4.2

[illegible]

Data Testing and Process Engineering Test,
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 7-11-1991 Current Time = 17:55:24
File Name = D:\CEMDATA*.**1.PRN Calibration File:D:\CEMDATA\0710S1F.CAL

7-10-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	NO ppmv	mg ug/m3
17:55:25	10.1	48.8	-0.1	56.7	9.8	0.0	400.0	-4.2
17:55:35	9.8	48.8	-0.1	56.7	9.8	0.0	400.0	-4.2
17:55:47	9.8	48.8	-0.0	56.8	9.8	0.0	399.9	-4.2
17:55:57	9.8	48.8	-0.1	56.8	9.8	0.0	400.0	-4.2
17:56:07	9.8	48.7	0.1	57.0	9.8	0.0	399.9	-4.2
17:56:17	9.8	59.2	0.0	56.7	9.7	1.4	399.8	-4.2
17:56:27	9.1	4.2	1.0	57.8	3.0	5.2	400.9	-4.2
17:56:37	9.1	3.1	1.1	58.7	3.1	2.9	400.5	-4.2
17:56:47	9.9	1.8	0.9	57.9	3.1	0.5	400.1	-4.2
17:56:57	10.9	2.0	0.2	57.8	3.1	0.3	400.0	-4.2
18:07:07	10.2	2.0	1.0	7.8	0.1	0.3	400.2	-4.2
18:07:17	15.8	19.0	0.2	0.2	0.7	1.3	400.5	-4.2
18:07:27	10.8	47.7	1.7	1.0	9.7	1.2	399.9	-4.2
18:07:37	10.9	48.1	1.0	56.5	9.8	0.3	400.0	-4.2
18:07:47	10.1	48.3	0.4	56.5	9.8	0.1	400.0	-4.2
18:07:57	10.5	48.4	0.1	56.2	9.8	0.0	400.0	-4.2
18:08:07	10.5	48.4	0.1	56.7	9.8	0.0	400.0	-4.2
18:08:17	9.9	48.4	0.2	56.8	9.8	0.0	399.9	-4.2
18:08:27	9.9	48.4	0.1	56.4	9.8	0.0	400.1	-4.2
18:08:37	9.8	48.5	0.0	56.4	9.8	0.0	400.1	-4.2
Avg.	10.2	35.5	0.2	41.2	7.1	0.7	400.1	-4.2

[illegible] CORPORATION [illegible]

[illegible] Testing and Process Engineering Dept.
[illegible]tinuous Emissions Monitoring Data
[illegible]
[illegible]
[illegible]rformed for: EPA
[illegible]te Printed = [illegible]-10-1991 Current Time = [illegible]
[illegible]e Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BIF.CAL

[illegible]-10-1991	O2	THC	SO2	CO	CO2	NOx	HCl	Hg
[illegible]me	%V	ppmV	ppmV	ppmV	%V	ppmV	ppmV	ug/m3
[illegible]:05:51	5.2	27.2	-0.0	17.8	4.9	-0.0	235.6	-4.2
[illegible]:06:01	5.3	27.2	-0.1	17.8	4.9	-0.0	235.8	-4.2
[illegible]:06:11	5.3	27.3	0.1	17.8	4.9	-0.0	236.1	-4.2
[illegible]:06:21	5.3	27.3	-0.1	17.8	4.9	-0.0	236.0	-4.2
[illegible]:06:31	5.3	27.2	[illegible]	17.8	4.9	-0.0	236.1	-4.2
[illegible]:06:40	5.3	27.2	-0.1	17.8	4.9	-0.0	236.1	-4.2
[illegible]:06:50	5.3	27.2	-0.[illegible]	17.8	4.9	-0.0	236.0	-4.2
[illegible]:07:00	5.3	27.4	[illegible]	17.8	4.9	-0.0	235.9	-4.2
[illegible]:07:10	5.3	27.3	-0.2	17.9	4.9	-0.0	235.9	-4.2
[illegible]:07:20	5.3	27.3	0.1	18.0	4.9	-0.0	236.1	-4.2
[illegible]:07:30	5.3	27.3	-0.1	18.[illegible]	4.9	-0.0	236.1	-4.2
[illegible]:07:40	5.3	27.3	-0.1	17.9	4.9	-0.0	236.0	-4.2
[illegible]:07:50	5.3	27.3	0.0	17.9	4.9	-0.0	236.1	-4.2
[illegible]:08:00	5.3	27.3	0.2	17.9	4.9	-0.0	236.0	-4.2
[illegible]:08:10	5.3	27.3	-0.0	18.0	4.9	-0.0	235.9	-4.2
[illegible]:08:20	5.3	27.2	0.0	18.1	4.9	-0.0	236.0	-4.2
[illegible]:08:30	5.3	27.3	0.2	18.0	4.9	-0.0	235.9	-4.2
[illegible]:08:40	5.3	27.3	0.1	17.8	4.9	-0.0	236.0	-4.2
[illegible]:08:50	5.3	27.2	0.1	17.9	4.9	-0.0	235.9	-4.2
[illegible]:09:00	5.3	27.2	-0.[illegible]	18.1	4.9	-0.0	236.0	-4.2
[illegible]g.=	5.3	27.3	[illegible]	17.9	4.9	-0.0	244.0	-4.2

[illegible]

[illegible] Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 18:09:06
File Name = D:\DEMDATA\091091.PRN Calibration File:D:\DEMDATA\091091P.CAL

09-10-1991 Time	O2 MV	THC ppmv	SO2 ppmv	CO ppmV	CO2 MV	NOx ppmV	HCl ppmv	Hg ug/m3
18:09:10	5.3	27.3	0.2	18.0	4.9	-0.0	235.9	-4.2
18:09:20	5.3	27.2	0.2	17.9	4.9	-0.0	236.1	-4.2
18:09:29	5.3	27.2	-0.1	17.9	4.9	-0.0	236.2	-4.2
18:09:39	5.3	27.3	-0.1	17.8	4.9	-0.0	235.9	-4.2
18:09:49	5.3	27.2	-0.2	17.9	4.9	-0.0	236.[illegible]	-4.2
18:09:59	5.3	27.2	-0.2	18.0	4.9	-0.0	236.1	-4.2
18:10:09	5.3	27.2	-0.2	17.9	4.9	-0.0	236.1	-4.2
18:10:19	5.3	27.3	-0.2	17.9	4.9	-0.0	236.1	-4.2
18:10:29	5.3	27.2	-0.2	17.9	4.9	-0.0	236.[illegible]	-4.2
[illegible]	5.3	27.3	-0.1	17.8	4.9	-0.0	236.0	-4.2
[illegible]	5.2	23.4	-0.[illegible]	17.9	4.8	7.5	236.1	-4.2
[illegible]	4.8	4.2	15.6	17.4	0.8	72.5	235.5	-4.2
18:11:09	4.8	1.7	59.9	14.5	0.2	83.3	235.2	-4.2
18:11:19	4.1	0.8	[illegible]	8.7	0.0	86.3	235.4	-4.2
Avg.=	5.1	21.6	10.9	17.0	3.9	17.8	235.9	-4.2

[illegible] CORPORATION SO2=[illegible] NOx=[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] for: EPA
[illegible] Printed = [illegible]-10-1991 Current Time = [illegible]
[illegible] Name = D:\CEMDATA\[illegible].PRN Calibration File:D:\CEMDATA\[illegible].CAL

[illegible]-1991 Time	O2 V	THC ppmV	SO2 ppmV	CO ppmV	CO2 V	NOx ppmV	HCl ppmV	Hg ug/m3
[illegible]	1.1	-0.0	[illegible]	[illegible]	-0.1	89.3	232.2	-4.2
[illegible]	0.4	0.2	[illegible]	[illegible]	-0.1	89.4	235.4	-4.2
[illegible]	0.1	[illegible]	[illegible]	[illegible]	-0.1	89.9	236.6	-4.2
[illegible]	[illegible]	[illegible]	87.2	[illegible]	-0.1	89.5	235.[illegible]	-4.2
[illegible]	[illegible]	[illegible]	87.5	[illegible]	-0.1	89.3	235.2	-4.2
[illegible]	0.5	-0.0	87.3	[illegible]	-0.1	89.9	235.2	-4.2
[illegible]	[illegible]	[illegible]	87.7	[illegible]	-0.1	89.6	235.1	-4.2
[illegible]	[illegible]	-[illegible]	87.5	[illegible]	-0.1	89.6	233.4	-4.2
[illegible]	[illegible]	0.1	87.5	[illegible]	-0.1	89.9	271.9	-4.2
[illegible]	[illegible]	[illegible]	87.4	[illegible]	-0.1	89.9	186.8	-4.2
[illegible]	[illegible]	[illegible]	87.7	[illegible]	-0.1	89.5	149.7	-4.2
[illegible]	[illegible]	[illegible]	87.7	[illegible]	-0.1	89.6	150.1	-4.2
[illegible]	[illegible]	[illegible]	87.2	[illegible]	-0.1	90.0	148.7	-4.2
[illegible]	0.6	[illegible]	87.5	[illegible]	-0.1	89.8	147.9	-4.2
Avg.=	0.4	0.1	87.3	[illegible]	-0.1	89.7	213.1	-4.2

[illegible]

[illegible] Testing and Process Engineering Dept.
Particulate Emissions Monitoring Data
[illegible] Inc.
[illegible]
Effective Time: [illegible]

Date Printed = 10-10-1991 Current Time = 10:10:05
File Name = D:\DEMDATA\091021.PRN Calibration File=D:\DEMDATA\091021F.CAL

Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmV	HCl ppmv	Hg ug/m3
[illegible]	1.4	-0.1	24.4	-0.2	-0.1	25.1	46.4	-4.2
[illegible]	1.3	-0.1	24.4	-0.2	-0.1	25.0	47.7	-4.2
[illegible]	1.2	-0.0	24.5	-0.2	-0.1	25.1	48.1	-4.2
[illegible]	1.4	-0.1	24.4	-0.1	-0.1	25.1	47.4	-4.2
[illegible]	1.5	-0.1	24.4	-0.1	-0.0	25.1	46.9	-4.2
[illegible]	1.5	-0.1	24.4	-0.2	-0.1	25.0	46.9	-4.2
[illegible]	1.2	-0.1	24.4	-0.2	-0.1	24.9	46.0	-4.2
[illegible]	1.2	-0.0	24.5	-0.1	-0.1	24.9	47.8	-4.2
[illegible]	1.2	-0.0	24.5	-0.1	-0.1	25.0	48.1	-4.2
[illegible]	1.2	-0.0	24.5	-0.1	-0.1	24.9	48.2	-4.2
[illegible]	1.3	-0.0	24.5	-0.1	-0.1	25.0	46.7	-4.2
[illegible]	1.4	-0.1	24.5	-0.2	-0.1	25.0	47.4	-4.2
[illegible]	1.2	-0.0	24.4	-0.2	-0.1	24.9	56.1	-4.2
[illegible]	1.4	-0.1	24.7	-0.2	-0.1	25.0	112.8	-4.2
10:15:11	1.3	0.1	24.2	-0.2	-0.1	25.0	47.7	-4.2
[illegible]	1.2	-0.0	24.5	-0.2	-0.1	25.0	48.0	-4.2
[illegible]	1.4	-0.1	24.7	-0.2	-0.1	25.0	47.2	-4.2
[illegible]	1.4	-0.1	24.2	-0.2	-0.1	25.0	47.3	-4.2
[illegible]	1.3	-0.1	24.3	-0.2	-0.1	25.0	47.8	-4.2
[illegible]	1.3	-0.1	24.2	-0.2	-0.1	25.0	47.7	-4.2
[illegible]	1.2	-0.0	24.2	-0.2	-0.1	25.0	47.4	-4.2
[illegible]	1.4	-0.1	24.3	-0.2	-0.1	25.0	47.7	-4.2
[illegible]	1.2	0.1	24.3	-0.2	-0.0	25.1	47.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AVG 24.3
MAX = 25.7

[illegible]

ela Testing and Process Engineering Dept.
rinidad Emissions Monitoring Data
[illegible]
[illegible]
rformed for: EPA
te Printed = 09-10-1991 Current Time = 13:21:00
le Name = D:\EEMDATA\090191.PRN Calibration File:D:\CEMDATA\09102IF.CAL

9-10-1991	O2	THC	SO2	CO	CO2	NOx	HCl	Hg
Time	%V	ppmV	ppmV	ppmV	%V	ppmV	ppmV	ug/m3
9:21:24	18.5	5.9	0.6	-0.1	0.0	0.4	25.1	-4.2
9:21:44	18.8	5.9	0.4	-0.2	0.0	0.4	24.8	-4.2
9:21:04	20.0	5.9	0.4	-0.2	0.0	0.3	25.4	-4.2
9:22:24	20.2	5.9	0.1	-0.2	0.0	0.3	24.9	-4.2
Avg.=	18.1	5.9	1.5	-0.1	0.0	0.4	25.1	-4.2

[illegible] CORPORATION

[illegible] Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
[illegible] [illegible]
Date Printed = [illegible] Current Time = [illegible]
Log Name = D:\CEMDATA\[illegible] Calibration File = D:\CEMDATA\[illegible].CAL

[illegible] Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmV	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.[illegible]

[illegible] CORPORATION [illegible]

[illegible] Testing and Process Engineering Dept.

Continuous Emissions Monitoring Data

[illegible]

[illegible]

Printed for: EPA

Date Printed = [illegible] Current Time = [illegible]

File Name = C:\CEMDATA\[illegible].PRN Calibration File(s): CEMDATA\[illegible].CAL

[illegible] Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]	0.1	25.2	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.8	[illegible]	0.2	24.8	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.7	0.0	0.1	25.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.8	0.0	0.1	24.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]	0.1	25.2	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	25.2	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]	0.2	24.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.7	[illegible]	0.2	24.8	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	[illegible]	25.3	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.8	0.0	0.1	25.1	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.8	0.0	0.1	25.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.7	0.0	0.1	25.5	-4.2
Avg	0.5	0.7	[illegible]	1.7	0.0	0.1	25.1	-4.2

Some CO in tank?

Run #4
Pre-test
BO

Outlet

CALIBRATION SUMMARY
09-10-1991 08:23:05
CALIBRATION FILE NAME =D:\CEMDATA\0910BO.CAL

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%V	2.02	0.8031	20.00	8.076	2.472	0.03
2	Hg	ug/m3	0.00	-.0013	89.70	5.066	17.703	0.02
3	SO2	ppmV	0.00	-.0006	194.90	0.402	484.416	0.31
4	CO	ppmV	0.00	0.0076	88.90	0.894	100.291	-0.76
5	CO2	%V	0.00	0.0019	18.00	0.088	208.441	-0.40
6	NOx	ppmV	0.00	-.0134	195.60	7.840	24.907	0.33
7	HCl	ppmV	0.00	0.0265	107.00	0.499	226.664	-6.00
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 08:26:58
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BO.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:27:07	0.0	0.0	87.8	-0.5	-0.0	88.8	47.2
08:27:17	0.0	0.0	88.2	-0.6	-0.0	88.7	40.7
08:27:27	0.0	0.0	88.4	-0.1	-0.0	88.7	48.9
08:27:37	0.0	0.0	88.5	0.3	-0.1	88.7	51.0
08:27:47	0.0	0.0	88.3	0.8	-0.1	88.6	49.1
08:27:57	0.0	0.0	88.6	0.1	-0.0	88.7	48.6
08:28:07	0.0	0.0	88.3	-0.1	-0.0	88.6	43.4
08:28:17	0.0	0.0	88.5	-0.1	-0.0	88.7	50.6
08:28:26	0.0	0.0	88.6	-0.7	-0.1	88.7	58.6
08:28:36	0.0	0.0	88.4	0.5	-0.1	88.7	58.2
08:28:46	0.0	0.0	88.3	1.1	-0.1	88.7	47.3
08:28:56	0.0	0.0	88.6	0.4	-0.1	88.7	47.5
08:29:06	0.0	0.0	88.8	-0.3	-0.1	88.7	51.9
Avg.=	0.0	0.0	88.4	0.1	-0.0	88.7	49.5

Ref 49.1

RADIAN CORPORATION HCL=49.1

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO.MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 08:33:35
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BO.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:33:36	0.0	0.0	61.4	1.0	0.0	30.8	48.6
08:33:46	0.1	0.0	37.6	1.3	0.0	25.7	42.1
08:33:56	0.2	0.0	31.7	0.8	-0.0	24.9	50.4
08:34:06	0.1	0.0	29.3	0.5	-0.0	24.7	54.9
08:34:16	0.1	0.0	27.8	-0.2	-0.0	24.6	57.0
08:34:26	0.1	0.0	26.9	0.1	-0.0	24.5	50.0
08:34:36	0.0	0.0	26.6	0.3	-0.0	24.5	44.9
08:34:46	0.0	0.0	26.5	0.3	-0.0	24.5	47.2
08:34:56	0.0	0.0	26.4	0.3	-0.0	24.5	53.3
08:35:05	0.0	0.0	26.3	0.3	-0.0	24.5	55.6
08:35:15	0.0	0.0	26.1	0.4	-0.0	24.5	56.9
08:35:25	0.0	0.0	26.2	0.1	-0.0	24.5	51.7
08:35:35	0.0	0.0	26.0	0.5	-0.0	24.5	45.7
08:35:45	0.0	0.0	25.9	0.9	-0.0	24.5	51.4
Avg.=	0.1	0.0	30.4	0.5	-0.0	25.1	50.7

RADIAN CORPORATION SO2=24.3 NOX=25.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 08:37:30
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BO.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:37:31	0.0	0.0	25.5	1.2	-0.0	24.5	50.8
08:37:41	0.0	0.0	25.7	0.3	-0.0	24.5	40.9
08:37:50	0.0	0.0	25.5	0.9	-0.0	24.5	51.3
08:38:00	0.0	0.0	25.5	1.1	-0.0	24.5	54.2
08:38:10	0.0	0.0	25.5	0.8	-0.0	24.5	62.1
08:38:20	0.0	0.0	25.4	0.4	-0.0	24.5	58.0
08:38:30	0.0	0.0	25.5	0.2	-0.0	24.5	39.7
08:38:40	0.0	0.0	25.5	0.2	-0.0	24.5	42.9
08:38:50	0.0	0.0	25.7	0.7	-0.0	24.5	51.2
08:39:00	0.0	0.0	25.5	1.1	-0.0	24.5	52.4
08:39:10	0.0	0.0	25.4	1.0	-0.0	24.5	42.0
08:39:20	0.0	0.0	25.5	0.6	-0.0	24.5	16.1
08:39:30	0.0	0.0	25.4	0.6	-0.0	24.4	8.1
08:39:40	0.0	0.0	25.3	0.3	-0.0	24.4	6.5
08:39:50	0.0	0.0	25.3	0.7	-0.0	24.4	10.7
08:40:00	0.0	0.0	25.5	0.9	-0.0	24.5	11.0
08:40:10	0.0	0.0	25.5	0.8	-0.0	24.5	16.3
08:40:20	0.0	0.0	25.5	0.4	-0.0	24.5	6.1
08:40:30	0.0	0.0	25.4	0.2	-0.0	24.4	3.5
08:40:39	0.0	0.0	25.4	0.7	-0.0	24.5	1.5
08:40:49	0.0	0.0	25.3	0.7	-0.0	24.5	3.5
08:40:59	0.0	0.0	25.4	0.8	-0.0	24.4	3.6
Avg.=	0.0	0.0	25.5	0.7	-0.0	24.5	28.8

RADIAN CORPORATION O2=10 CO2= 9.99 CO=58.5 HCL=9.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 08:44:47
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BO.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:44:48	10.0	0.0	-1.5	57.9	10.4	0.1	3.8
08:44:58	10.0	0.0	-1.8	57.5	10.4	0.1	14.1
08:45:08	10.0	0.0	-1.5	58.7	10.4	0.1	9.1
08:45:17	10.0	0.0	-1.6	58.2	10.4	0.1	8.3
08:45:27	10.0	0.0	-1.4	57.7	10.4	0.1	2.4
08:45:37	10.0	0.0	-1.9	58.4	10.4	0.1	9.4
08:45:47	10.0	0.0	-1.8	57.6	10.4	0.1	12.5
08:45:57	10.0	0.0	-1.8	57.7	10.4	0.1	12.8
08:46:07	10.0	0.0	-1.6	58.5	10.4	0.1	9.0
08:46:17	10.0	0.0	-1.6	58.0	10.3	0.1	2.6
08:46:27	10.0	0.0	-1.8	57.8	10.3	0.1	7.1
08:46:37	10.0	0.0	-1.7	58.0	10.4	0.1	13.5
08:46:47	10.0	0.0	-1.6	57.7	10.4	0.1	9.5
08:46:57	10.0	0.0	-1.3	57.8	10.4	0.1	10.3
08:47:07	10.0	0.0	-1.6	58.5	10.3	0.1	5.0
08:47:17	10.0	0.0	-1.8	58.1	10.3	0.1	3.6
08:47:27	10.0	0.0	-1.8	57.7	10.3	0.1	7.3
08:47:37	10.0	0.0	-1.8	57.9	10.3	0.1	13.2
08:47:47	10.0	0.0	-1.8	57.7	10.4	0.1	14.6
08:47:57	10.0	0.0	-1.7	57.9	10.4	0.1	9.8
08:48:06	10.0	0.0	-1.8	58.9	10.3	0.1	8.3
08:48:16	10.0	0.0	-2.0	58.4	10.3	0.1	4.7
08:48:26	10.0	0.0	-1.6	58.2	10.3	0.1	-1.4
08:48:36	10.0	0.0	-2.1	58.0	10.4	0.1	13.6
08:48:46	10.0	0.0	-2.1	58.1	10.4	0.1	14.4
08:48:56	10.0	0.0	-2.0	57.7	10.4	0.1	12.8
08:49:06	10.0	0.0	-1.3	58.2	10.3	0.1	4.6
08:49:16	10.0	0.0	-1.3	58.3	10.3	0.1	-1.8
08:49:26	10.0	0.0	-1.7	58.2	10.3	0.1	6.9
08:49:36	10.0	0.0	-1.7	58.0	10.3	0.1	7.5
08:49:46	10.0	0.0	-1.9	57.9	10.3	0.1	9.4
08:49:56	10.0	0.0	-2.0	57.9	10.4	0.1	7.6
08:50:06	10.0	0.0	-1.7	57.9	10.3	0.1	7.7
08:50:16	10.0	0.0	-1.8	58.9	10.3	0.1	2.0
Avg.=	10.0	0.0	-1.7	58.1	10.4	0.1	8.1

RADIAN CORPORATION O2=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 08:56:28
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BO.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:56:29	5.0	0.0	-2.5	17.9	5.3	0.1	8.3
08:56:39	5.0	0.0	-2.2	18.3	5.3	0.1	6.3
08:56:49	5.0	0.0	-2.4	17.9	5.3	0.1	3.6
08:56:59	5.0	0.0	-2.5	17.7	5.3	0.1	6.2
08:57:09	5.0	0.0	-2.0	17.3	5.3	0.1	-7.3
08:57:19	5.0	0.0	-2.2	18.1	5.3	0.1	-1.1
08:57:28	5.0	0.0	-2.6	18.8	5.3	0.1	1.4
08:57:38	5.0	0.0	-2.3	18.6	5.3	0.1	10.4
08:57:48	5.0	0.0	-2.5	18.5	5.3	0.1	10.7
08:57:58	5.0	0.0	-2.5	17.9	5.3	0.1	1.9
08:58:08	5.0	0.0	-2.7	17.8	5.3	0.1	-9.3
08:58:18	5.0	0.0	-2.0	18.0	5.3	0.1	7.5
08:58:28	5.0	0.0	-2.1	18.6	5.3	0.1	10.6
08:58:38	5.0	0.0	-2.5	18.8	5.3	0.1	8.4
08:58:48	5.0	0.0	-2.4	18.6	5.3	0.1	12.4
08:58:58	5.0	0.0	-2.3	18.1	5.3	0.1	4.3
08:59:08	5.0	0.0	-2.6	17.5	5.3	0.1	1.7
08:59:18	5.0	0.0	-2.7	17.6	5.3	0.1	5.8
Avg.=	5.0	0.0	-2.4	18.1	5.3	0.1	4.5

RADIAN CORPORATION SYSTEM BIAS CHK O2=4.99 CO2=5.02

CO 19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 09:57:31
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BO.CAL

09-10-1991	O2	Hg/m3	SO2V PPMV	CO V PPMV	CO2 V	NOxV PPMV	HClV PPMV
09:57:32	5.0	-0.0	-2.7	18.8	5.3	0.2	12.9
09:57:42	5.0	-0.0	-2.7	18.7	5.3	0.2	1.5

Post test Burn Down

Pre test Burn Down

BO

Outlet

CALIBERATION SUMMARY
09-10-1991 17:54:38
CALIBERATION FILE NAME =D:\CEMDATA\0910BOF.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.02	0.8031	20.00	8.091	2.467	0.04
2	Hg	ug/m3	0.00	-.0004	89.70	5.066	17.706	0.01
3	SO2	ppmV	0.00	-.0032	194.90	0.400	482.909	1.54
4	CO	ppmV	0.00	0.0006	88.90	0.878	101.383	-0.07
5	CO2	%V	0.00	0.0019	18.00	0.088	208.958	-0.41
6	NOx	ppmV	0.00	-.0144	195.60	7.814	24.987	0.36
7	HCl	ppmV	0.00	0.0222	107.00	0.525	212.782	-4.72
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

CEM INSTRUMENT DRIFT SUMMARY
09-10-1991 17:54:47

Bogus

Chan.	Name	Units	Zero Conc. Actual	Zero Conc. Observed	Span Actual	Span Observed	Drift % of Scale Zero	Drift % of Scale Span
1	O2	%V	2.020	2.020	20.00	20.04	-0.00	0.15
2	Hg	ug/m3	0.000	0.016	89.70	0.00	0.00	-4.46
3	SO2	ppmV	0.000	%-1.237	194.90	194.27	-1.24	-0.63
4	CO	ppmV	0.000	-.697	88.90	87.25	-0.70	-1.65
5	CO2	%V	0.000	0.005	18.00	17.96	0.03	-0.20
6	NOx	ppmV	0.000	-.024	195.60	194.94	-0.01	-0.26
7	HCl	ppmV	0.000	-.971	107.00	113.01	-0.39	2.40
8			0.000	0.000	0.00	0.00	0.00	0.00
9			0.000	0.000	0.00	0.00	0.00	0.00
10			0.000	0.000	0.00	0.00	0.00	0.00
11			0.000	0.000	0.00	0.00	0.00	0.00
12			0.000	0.000	0.00	0.00	0.00	0.00
13			0.000	0.000	0.00	0.00	0.00	0.00
14			0.000	0.000	0.00	0.00	0.00	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION QC'S O2=10 CO2=9.99 CO=58.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 17:57:33
File Name = D:\CEMDATA\C91091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
17:57:33	9.9	0.0	-1.4	57.6	10.3	0.5	8.7
17:57:43	9.9	0.0	-1.4	57.2	10.3	0.5	7.2
17:57:53	9.9	0.0	-1.3	56.7	10.3	0.5	12.4
17:58:03	9.9	0.0	-1.5	56.9	10.3	0.5	2.5
17:58:13	9.9	0.0	-1.5	57.4	10.3	0.5	6.9

Avg.=	9.9	0.0	-1.4	57.3	10.3	0.5	9.9

Hd 9.58

RADIAN CORPORATION HCL=9.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 17:58:58
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
17:58:58	9.9	0.0	-1.4	56.4	10.3	0.5	11.0
17:59:08	9.9	0.0	-1.4	57.6	10.3	0.5	14.5
17:59:18	9.9	0.0	-1.4	57.9	10.1	6.3	14.5
17:59:28	9.9	0.0	-0.3	57.6	9.9	9.8	12.9
17:59:38	10.0	0.0	-0.8	48.1	5.4	6.8	10.4
17:59:48	10.3	0.0	-0.6	32.4	0.1	20.8	6.1
17:59:58	13.4	0.0	-0.1	16.9	0.1	18.9	10.1
18:00:08	17.5	0.0	-0.3	5.9	0.1	8.7	14.6
18:00:18	20.0	0.0	-0.4	1.6	0.1	6.8	18.0
18:00:28	20.7	0.0	-0.4	2.8	0.8	1.5	18.5
18:00:38	20.7	0.0	-0.6	15.8	9.8	0.4	13.5
18:00:48	19.0	0.0	-0.9	32.4	10.2	0.2	9.7
18:00:58	14.9	0.0	-1.5	46.1	10.2	0.2	9.8
18:01:08	11.7	0.0	-1.4	52.4	10.3	0.3	9.7
18:01:18	10.4	0.0	-1.6	56.3	10.3	0.3	9.8
18:01:28	10.0	0.0	-1.7	56.6	10.3	0.4	11.9
18:01:38	10.0	0.0	-1.3	55.9	10.3	0.4	10.8
Avg.=	13.4	0.0	-1.0	38.4	7.0	4.9	12.1

RADIAN CORPORATION O2=4.99 CO2=5.02 CO=19.9 [redacted]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 18:06:21
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:06:21	5.0	0.0	-1.5	17.4	5.3	0.4	20.9
18:06:31	5.0	0.0	-1.5	18.2	5.3	0.4	44.7
18:06:41	5.0	0.0	-1.4	17.4	5.3	0.4	37.0
18:06:51	5.0	0.0	-1.5	17.1	5.3	0.4	36.0
18:07:01	5.0	0.0	-1.5	17.3	5.3	0.4	36.0
18:07:11	5.0	0.0	-1.5	16.7	5.3	0.4	45.5
18:07:21	5.0	0.0	-1.4	17.2	5.3	0.4	46.6
18:07:31	5.0	0.0	-1.4	17.6	5.3	0.4	48.6
18:07:41	5.0	0.0	-1.5	18.1	5.3	0.4	46.9
18:07:51	5.0	0.0	-1.5	17.8	5.3	0.4	48.6
18:08:01	5.0	0.0	-1.5	17.9	5.3	0.4	50.6
18:08:11	5.0	0.0	-1.5	17.3	5.3	0.4	52.8
18:08:21	5.0	0.0	-1.5	16.8	5.3	0.4	49.5
18:08:31	5.0	0.0	-1.5	17.3	5.3	0.4	50.6
18:08:41	5.0	0.0	-1.3	17.9	5.3	0.4	47.3
18:08:51	5.0	0.0	-1.5	17.8	5.3	0.4	50.2
18:09:01	5.0	0.0	-1.5	17.7	5.3	0.4	52.8
Avg.=	5.0	0.0	-1.5	17.5	5.3	0.4	45.0

RADIAN CORPORATION HCL=49.1

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 18:09:44
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:09:44	5.0	0.0	-1.4	18.0	5.3	0.4	52.9
18:09:54	5.0	0.0	-1.4	18.1	5.3	0.4	56.6
18:10:04	5.0	0.0	-1.5	17.6	5.3	0.4	52.2
18:10:14	5.0	0.0	-1.4	17.7	5.3	0.4	58.3
18:10:24	5.0	0.0	-1.5	17.4	5.3	0.4	49.7
18:10:34	5.0	0.0	-1.4	17.4	5.3	0.4	42.7
18:10:44	5.0	0.0	-1.5	17.9	5.3	0.4	45.8
18:10:54	5.0	0.0	-1.3	18.1	5.3	34.7	54.5
18:11:04	5.0	0.1	23.1	16.7	4.0	76.6	62.9
18:11:14	4.9	0.1	58.7	12.8	0.6	82.5	56.7
18:11:24	4.2	0.1	72.5	6.6	0.2	84.9	51.2
Avg.=	4.9	0.0	13.0	16.2	4.3	25.6	53.0

RADIAN CORPORATION SO2=86 NOX=88.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 18:12:24
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:12:24	0.5	0.1	83.4	0.7	-0.0	86.6	50.7
18:12:34	0.1	0.1	86.5	0.4	-0.0	87.5	46.8
18:12:44	0.1	0.1	86.9	0.3	-0.1	87.5	49.4
18:12:54	0.1	0.1	87.2	0.7	-0.1	87.6	53.9
18:13:04	0.0	0.1	87.0	0.8	-0.1	87.7	59.1
18:13:14	0.0	0.1	87.3	0.6	-0.1	87.8	56.5
18:13:24	0.0	0.1	87.5	0.8	-0.1	87.9	49.6
18:13:34	0.0	0.1	87.6	0.4	-0.1	87.9	39.1
18:13:44	0.0	0.1	87.4	-0.4	-0.1	88.0	15.8
18:13:54	0.0	0.1	87.7	0.5	-0.1	88.0	10.9
18:14:04	0.0	0.1	87.8	0.7	-0.1	88.1	10.9
18:14:14	0.0	0.1	87.7	1.2	-0.1	88.2	10.3
18:14:24	0.0	0.1	88.2	0.1	-0.1	88.2	4.4
18:14:34	0.0	0.1	88.1	0.6	-0.1	88.3	5.9
Avg.=	0.1	0.1	87.2	0.5	-0.1	87.8	33.1

RADIAN CORPORATION SO2=24.3 NOX=25.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 18:16:59
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:17:00	0.0	0.0	25.7	0.1	-0.1	24.5	-1.9
18:17:10	0.0	0.0	25.2	1.0	-0.0	24.5	4.8
18:17:20	0.0	0.0	25.5	0.2	-0.1	24.5	4.2
18:17:30	0.0	0.0	25.3	-0.6	-0.1	24.5	-2.3
18:17:40	0.0	0.0	25.3	0.6	-0.1	24.5	-4.2
18:17:50	0.0	0.0	25.4	-0.9	-0.1	24.6	-1.1
18:18:00	0.0	0.0	25.2	-0.1	-0.1	24.5	3.1
18:18:10	0.0	0.0	25.0	0.3	-0.1	24.5	6.1
18:18:20	0.0	0.0	25.1	1.3	-0.1	24.5	1.7
18:18:30	0.0	0.0	25.3	-0.1	-0.0	24.5	-4.5
18:18:40	0.0	0.0	25.1	-0.3	-0.0	24.5	-7.8
18:18:49	0.0	0.0	25.1	-0.0	-0.1	24.5	-0.7
18:18:59	0.0	0.0	25.0	0.1	-0.1	24.5	8.5
18:19:09	0.0	0.0	25.0	0.0	-0.1	24.5	6.2
18:19:19	0.0	0.0	25.1	0.8	-0.1	24.5	4.2
18:19:29	0.0	0.0	25.1	-0.4	-0.1	24.5	-0.1
18:19:39	0.0	0.0	24.8	0.3	-0.1	24.5	-3.5
18:19:49	0.0	0.0	25.1	-2.2	-0.1	24.5	0.2
18:19:59	0.0	0.0	25.1	0.6	-0.1	24.5	6.6
18:20:09	0.0	0.0	25.0	0.5	-0.1	24.5	5.6
18:20:19	0.0	0.0	25.4	0.5	-0.1	24.5	7.1
18:20:29	0.0	0.0	25.3	0.5	-0.1	24.5	3.0
18:20:39	0.0	0.0	25.0	0.3	-0.1	24.5	-2.8
Avgs:	0.0	0.0	25.2	0.1	-0.1	24.5	1.4

RADIAN CORPORATION HCL=0

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 18:22:27
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:22:29	20.7	0.0	-0.4	0.6	-0.0	0.8	-4.9
18:22:39	20.7	0.0	-1.1	0.2	-0.0	0.8	-3.5
18:22:49	20.7	0.0	-0.8	-0.1	-0.0	0.8	0.8
18:22:59	20.7	0.0	-0.8	-0.6	-0.0	0.8	10.2
18:23:09	20.7	0.0	-0.6	0.3	-0.0	0.8	6.8
18:23:19	20.7	0.0	-1.1	0.9	-0.0	0.8	-0.4
18:23:29	20.7	0.0	-1.5	0.9	-0.0	0.9	-2.0
18:23:39	20.7	0.0	-1.3	0.5	-0.0	0.8	-2.0
Avg.=	20.7	0.0	-1.0	0.3	-0.0	0.8	0.6

RADIAN CORPORATION SYSTEM LEAK CHK W/N2

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 18:31:09
File Name = D:\CEMDATA\091091.PRN Calibration File:D:\CEMDATA\0910BOF.CAL

09-10-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
18:31:09	0.1	0.0	-1.5	2.7	0.0	0.8	4.7
18:31:19	0.1	0.0	-1.5	1.4	0.0	0.8	-4.2
18:31:29	0.1	0.0	-1.5	1.4	0.0	0.7	-3.4
18:31:39	0.1	0.0	-1.6	1.2	0.0	0.7	-0.6
18:31:49	0.1	0.0	-1.5	2.2	0.0	0.7	0.0
18:31:59	0.1	0.0	-1.4	2.5	0.0	0.6	2.9
18:32:09	0.1	0.0	-1.4	2.1	0.0	0.7	13.9
18:32:19	0.1	0.0	-1.4	1.9	0.0	0.7	17.5
18:32:29	0.1	0.0	-1.5	1.7	0.0	0.7	16.7
18:32:39	0.1	0.0	-1.5	1.7	0.0	0.6	15.1
18:32:49	0.1	0.0	-1.7	3.6	0.0	0.6	15.1
18:32:59	0.1	0.0	-1.4	1.0	0.0	0.6	10.2
18:33:09	0.1	0.0	-1.3	1.5	0.0	0.6	0.6
18:33:19	0.1	0.0	-1.2	1.6	0.0	0.5	-1.7
18:33:28	0.1	0.0	-1.2	1.2	0.0	0.5	1.5
18:33:38	0.1	0.0	-1.2	3.4	0.0	0.5	1.0
Avg.=	0.1	0.0	-1.4	1.9	0.0	0.6	5.8

CO instant ?

BI
Run # 5
Pie CAL's

Inlet

CALIBRATION SUMMARY
[illegible]
CALIBRATION FILE NAME = [illegible]

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

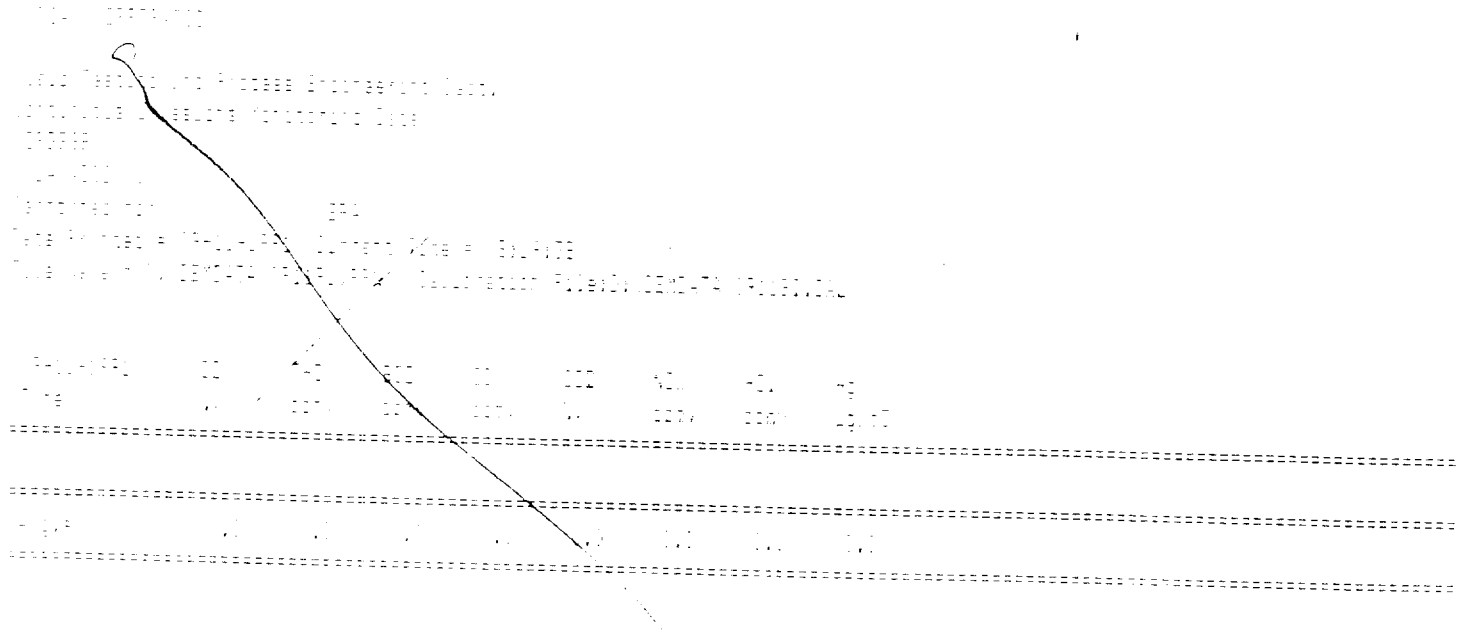
Press [illegible] to Print Out Table
Press [illegible] to Continue

[illegible]

[illegible] Tested and Proven Engineering Data.
Confidential Proprietary Data
[illegible]
[illegible]
Performed for:

Date Printed = 04-10-1991 Current Time = 08:17:19
File Name = D: [illegible]

Station	Z	Tot	Hor	E	Ver	NS	EW	Rho
	V/m	dBuV	dBuV	dBuV	V/m	dBuV	dBuV	dB/mT
S1:1,77	1.3	-0.7	0.2	1.1	1.0	0.0	736.2	-4.2
S1:4:49	7.7	18.1	0.9	19.4	8.4	1.2	739.5	-4.2
S1:4:55	8.2	18.1	.7	40.5	8.8	1.1	739.5	-4.2
S1:5:1	7.2	18.5	.8	37.2	8.0	1.1	739.5	-4.2
S1:5:15	8.3	17.7	.8	31.9	9.2	1.1	440.0	-4.2
S1:5:21	8.1	17.6	1.0	27.1	9.0	0.1	439.0	-4.2
S1:5:27	8.9	18.1	.8	34.2	9.4	1.0	737.1	-4.2
S1:5:43	8.7	18.1	.8	35.1	9.4	1.1	737.1	-4.2
S1:5:55	8.7	18.1	.8	35.5	9.5	1.1	737.5	-4.2
S1:6:1	8.5	18.1	.8	36.0	9.6	1.1	737.1	-4.2
S1:6:7	8.7	18.1	.8	36.4	9.6	1.1	738.1	-4.2
S1:6:23	8.8	18.1	.8	36.7	9.6	1.1	739.9	-4.2
S1:6:29	8.8	18.1	.8	36.9	9.6	1.1	739.9	-4.2
S1:6:45	8.9	18.1	.8	37.1	9.6	0.1	740.9	-4.2
S1:6:55	8.9	18.1	.8	37.1	9.6	0.1	434.2	-4.2
S1:7:1	8.9	18.2	.8	37.1	9.6	0.1	443.8	-4.2
Avg	8.2	18.5	.8	49.2	8.8	0.1	492.7	-4.2



[illegible]

Field Testing and Process Engineering Lab.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:20:12
File Name = D: [illegible] Calibration File:D: [illegible]

09-11-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
08:20:12	9.7	18.8	0.5	57.2	9.6	0.0	301.9	-4.2
08:20:22	9.5	19.1	0.2	57.2	9.6	0.0	302.6	-4.2
08:20:32	9.6	19.0	0.3	56.9	9.6	0.0	302.1	-4.2
08:20:42	9.6	19.0	0.5	56.9	9.6	0.0	302.7	-4.2
08:20:52	9.9	19.0	0.4	57.0	9.6	0.0	300.8	-4.2
08:21:02	10.2	19.0	0.5	57.1	9.6	0.1	299.5	-4.2
08:21:12	9.8	19.1	0.7	57.0	9.6	0.0	300.8	-4.2
08:21:22	9.6	19.1	0.6	56.9	9.6	0.0	302.2	-4.2
08:21:32	9.7	19.2	0.8	57.0	9.6	0.0	301.4	-4.2
08:21:42	9.8	19.1	0.5	56.8	9.6	0.0	301.6	-4.2
08:21:52	9.8	19.1	0.4	57.0	9.6	0.0	301.4	-4.2
Avg.=	9.7	19.1	0.5	57.0	9.6	0.0	301.5	-4.2

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	5.1	15.5	1.8	15.1	4.9	0.0	214.3	-4.4
[illegible]	5.0	15.5	1.9	15.1	4.9	-0.0	214.1	-4.1
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.4	-4.1
[illegible]	5.0	15.5	1.7	15.1	4.9	-0.0	214.3	-4.1
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.7	-4.1
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.7	-4.1
[illegible]	5.0	15.5	1.7	15.1	4.9	-0.0	214.7	-4.1
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.7	-4.1
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.7	-4.1
[illegible]	5.0	15.5	1.9	15.1	4.9	-0.0	214.1	-4.1
[illegible]	5.0	15.5	1.9	15.1	4.9	-0.0	214.1	-4.1
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.7	-4.1
[illegible]	5.0	15.5	1.7	15.1	4.9	-0.0	214.7	-4.1
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.1	-4.2
[illegible]	5.0	15.5	1.8	15.1	4.9	-0.0	214.6	-4.1

RADIAN CORPORATION

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
SORGESS MW1
[illegible]
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 8:29:05
File Name = D:\CEMDATA\091191.PRN Calibration File:D:\CEMDATA\091191.CAL

09-11-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
Avg.=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[illegible] CORPORATION [illegible]

Plant Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
PROCESS [illegible]
[illegible]
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 15:29:20
File Name = D:\CEMDATA\[illegible].PRN Calibration File:D:\CEMDATA\[illegible].CAL

09-11-1991 Time	O2 VV	THC ppmV	SO2 ppmV	CO ppmV	CO2 VV	NOx ppmV	HCl ppmV	Hg ug/m3
15:29:21	5.5	26.8	0.8	18.2	4.9	-0.0	252.5	-4.4
15:29:31	5.5	26.8	0.8	18.1	4.9	-0.0	301.9	-4.2
15:29:41	5.4	19.5	0.7	18.1	4.5	4.7	301.9	-4.2
15:29:51	5.2	[illegible]	0.4	17.6	0.3	39.1	231.1	-4.2
15:30:01	[illegible]	0.7	22.6	12.6	0.1	42.9	213.0	-4.2
15:30:11	[illegible]	0.7	26.7	6.7	0.0	43.9	213.1	-4.2
Avg.=	[illegible]	[illegible]	[illegible]	15.2	2.4	31.8	[illegible]	-4.3

[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:30:23
File Name = D:\CEMDATA 091191.PRN Calibration File:D:\CEMDATA 091181.CAL

09-11-1991 Time	O2 VV	THC ppmv	SO2 ppmv	CO ppmv	CO2 VV	NOx ppmv	HCl ppmv	Hg ug/m3
8:30:24	0.1	0.6	27.7	5.1	0.0	44.5	212.6	-4.4
8:30:34	0.6	0.2	28.3	1.8	-0.0	45.3	215.4	-4.2
8:30:44	0.5	0.1	29.[illegible]	1.6	-0.1	45.8	214.7	-4.2
8:30:54	0.4	0.1	29.4	1.6	-0.1	46.1	216.7	-4.2
Avg.=	1.1	0.2	28.6	1.8	-0.0	45.4	215.3	-4.3

[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 18:34:19
File Name = [illegible] Calibration File: [illegible]

09-11-1991 Time	O2 NV	THC ppmV	SO2 ppmV	CO ppmV	CO2 NV	NOx ppmv	HCl ppmV	Hg ug/m3
18:34:20	0.7	-0.3	30.6	0.3	-0.1	48.4	16.8	-4.2
18:34:30	0.6	-0.3	31.0	0.4	-0.1	48.4	16.6	-4.2
18:34:40	0.6	-0.3	30.9	0.3	-0.1	48.4	17.2	-4.2
18:34:50	0.7	-0.4	30.7	0.3	-0.1	48.5	16.5	-4.2
18:34:59	0.5	-0.2	30.8	0.2	-0.1	48.5	18.1	-4.2
18:35:09	0.6	-0.3	30.9	0.3	-0.1	48.5	17.6	-4.2
18:35:19	0.6	-0.3	31.0	0.3	-0.1	48.6	17.4	-4.2
18:35:29	0.5	-0.3	31.1	0.4	-0.1	48.6	17.7	-4.2
18:35:39	0.9	-0.5	30.8	0.4	-0.1	48.6	15.6	-4.2
18:35:49	0.6	-0.3	30.9	0.2	-0.1	48.7	84.0	-4.2
Avg	0.6	-0.3	30.9	0.3	-0.1	48.5	23.8	-4.2

[illegible]

Fuel Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed by: [illegible]
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File: [illegible]

[illegible] Time	CO V	THC ppmv	SO2 ppmv	CO ppmv	CO2 V	NOx ppmv	HCl ppmV	Hg ug/m3
[illegible]	[illegible]	-0.5	25.2	[illegible]	-0.1	24.9	[illegible]	-4.2
[illegible]	[illegible]	-0.5	25.1	[illegible]	-0.1	25.1	[illegible]	-4.2
[illegible]	[illegible]	-0.4	25.2	[illegible]	-0.1	25.1	[illegible]	-4.2
[illegible]	[illegible]	-0.5	25.2	[illegible]	-0.1	25.1	[illegible]	-4.2
[illegible]	[illegible]	-0.5	25.2	-0.1	-0.1	25.2	[illegible]	-4.2
[illegible]	[illegible]	-0.5	25.5	[illegible]	-0.1	25.2	[illegible]	-4.2
[illegible]	[illegible]	-0.5	[illegible]	[illegible]	-0.1	25.2	[illegible]	-4.2
[illegible]	[illegible]	-0.4	[illegible]	[illegible]	-0.1	25.2	[illegible]	-4.2
[illegible]	[illegible]	-0.5	[illegible]	[illegible]	-0.1	25.2	[illegible]	-4.2
[illegible]	[illegible]	-0.4	[illegible]	[illegible]	-0.1	25.2	[illegible]	-4.2
[illegible]	[illegible]	-0.5	[illegible]	[illegible]	-0.1	25.2	[illegible]	-4.2
[illegible]	[illegible]	-0.5	[illegible]	[illegible]	-0.1	25.2	[illegible]	-4.2

BI
Run #5
Post CAL's

Inlet

CALIBRATION SUMMARY
[illegible]
CALIBRATION FILE NAME [illegible]

Chan.	Name	Units	Cent Conc.	Cent Resp.	Span Conc.	Span Resp.	Slope	Int.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.61
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.197	-0.42
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.048	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	0.00
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	0.00

Press [illegible] to Print Out Table
Press [illegible] to Continue

[illegible] [illegible] [illegible]
[illegible]
[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			Actual	Observed Value	[illegible]	Observed	Zero	Base
1	[illegible]	WW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

Pre. CAL

BO

Cal 6 1

CALIBRATION SUMMARY
09-11-1991 08:09:53
CALIBRATION FILE NAME =D:\CEMDATA\0911BO.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.01	0.7945	20.00	8.060	2.476	0.04
2	Hg	ug/m3	0.00	-.0015	89.70	5.066	17.702	0.03
3	SO2	ppmV	0.00	-.0021	86.00	0.178	477.760	1.00
4	CO	ppmV	0.00	0.0129	88.90	0.887	101.680	-1.31
5	CO2	%V	0.00	0.0019	18.00	0.090	203.745	-0.40
6	NOx	ppmV	0.00	-.0007	88.30	8.865	9.960	0.01
7	HCl	ppmV	0.00	0.0146	107.00	0.546	201.217	-2.94
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print This Table
Press <CR> to Continue

CALIBRATION SUMMARY
09-11-1991 08:11:41
CALIBRATION FILE NAME =D:\CEMDATA\0911BO.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.01	0.7945	20.00	8.060	2.476	0.04
2	Hg	ug/m3	0.00	-.0015	2000.00	-0.001	%5456553.000	8171.25
3	SO2	ppmV	0.00	-.0021	86.00	0.178	477.760	1.00
4	CO	ppmV	0.00	0.0129	88.90	0.887	101.680	-1.31
5	CO2	%V	0.00	0.0019	18.00	0.090	203.745	-0.40
6	NOx	ppmV	0.00	-.0007	88.30	8.865	9.960	0.01
7	HCl	ppmV	0.00	0.0146	107.00	0.546	201.217	-2.94
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00

12	0.00	0.0000	0.00	0.000	1.000	0.00
13	0.00	0.0000	0.00	0.000	1.000	0.00
14	0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION QC'S BEGIN HCL=49.1

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:13:38
File Name = D:\CEMDATA\091191.PRN Calibration File:D:\CEMDATA\0911BO.CAL

09-11-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:13:39	0.1	2105.6	0.7	-0.5	0.0	-0.0	49.0
08:13:49	0.1	2180.4	-0.2	-0.3	0.0	-0.0	45.0
08:13:59	0.1	2114.0	0.1	-0.7	0.0	0.1	55.6
08:14:09	0.0	2210.5	0.3	-0.6	0.0	0.6	52.6
08:14:19	0.0	2277.7	0.6	0.1	0.2	0.6	59.3
08:14:29	0.1	2289.8	0.6	3.9	2.0	0.3	51.8
08:14:39	0.3	2447.5	0.8	13.3	6.1	0.2	51.8
08:14:49	1.9	2349.5	0.7	26.2	8.1	0.1	52.1
08:14:59	4.3	2350.9	1.1	37.1	9.0	0.1	56.7
08:15:09	6.4	2369.6	1.0	44.7	9.4	0.1	65.5
08:15:19	7.8	2469.9	1.1	50.1	9.6	0.0	59.4
08:15:29	8.7	2459.5	1.0	53.2	9.8	0.0	46.1
08:15:39	9.1	2476.4	1.1	54.4	9.9	0.0	55.7
08:15:49	9.4	2497.3	1.0	55.1	9.9	0.0	46.0
08:15:59	9.5	2453.1	0.8	55.6	10.0	-0.0	56.1
08:16:08	9.6	2534.4	0.5	55.6	10.1	-0.0	57.7
08:16:18	9.7	2534.0	0.7	56.2	10.1	-0.0	51.8
08:16:28	9.8	2610.8	0.8	57.5	10.1	-0.0	53.6
08:16:38	9.8	2586.6	0.5	58.3	10.1	-0.0	56.0
08:16:48	9.9	2592.7	0.5	57.0	10.1	-0.0	37.4
Avg.=	5.3	2395.5	0.7	33.8	6.7	0.1	53.0

RADIAN CORPORATION 02=10 CO2=9.99 CO=58.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:20:35
File Name = D:\CEMDATA\091191.PRN Calibration File:D:\CEMDATA\0911BO.CAL

09-11-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:20:35	9.9	2790.0	0.6	57.9	10.1	-0.1	3.8
08:20:45	9.9	2852.1	1.3	58.2	10.1	-0.1	12.0
08:20:55	9.9	2892.2	1.2	57.9	10.1	-0.1	7.3
08:21:05	9.9	2911.5	0.5	57.3	10.1	-0.0	1.3
08:21:15	9.9	2957.7	0.7	57.7	10.1	-0.0	6.0
08:21:25	9.9	2952.5	0.7	57.7	10.1	-0.1	9.4
08:21:35	9.9	2995.1	0.5	58.4	10.1	-0.0	14.0
08:21:45	9.9	2958.8	0.7	57.9	10.1	-0.0	14.3
08:21:55	9.9	2981.9	0.4	58.1	10.1	-0.0	7.9
08:22:05	9.9	3002.6	0.8	57.5	10.1	-0.1	-0.0
Avg.=	9.9	2929.9	0.8	57.9	10.1	-0.0	7.6

RADIAN CORPORATION O2=4.99 CO2=5.02 CO=19.9

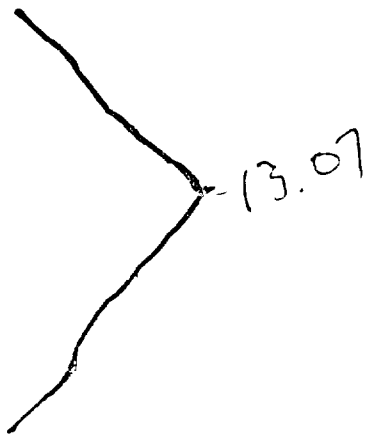
Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:26:50
File Name = D:\CEMDATA\091191.PRN Calibration File:D:\CEMDATA\0910B0A.CAL

09-11-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:26:51	5.0	0.0	0.0	18.7	5.3	-0.0	13.8
08:27:01	5.0	0.0	0.1	17.9	5.3	-0.1	1.5
08:27:11	5.0	0.0	0.3	17.6	5.3	-0.1	8.0
08:27:21	5.0	0.0	-0.0	18.0	5.3	-0.1	14.3
08:27:31	5.0	0.0	0.3	18.7	5.3	-0.1	14.5
08:27:41	5.0	0.0	0.4	19.0	5.3	-0.1	12.9
08:27:51	5.0	0.0	0.3	18.7	5.3	-0.1	15.0
08:28:01	5.0	0.0	0.6	18.4	5.3	-0.1	12.8
08:28:11	5.0	0.0	0.4	17.9	5.3	-0.1	12.2
08:28:20	5.0	0.0	0.2	18.0	5.3	-0.1	20.0
08:28:30	5.0	0.0	0.2	18.7	5.3	-0.1	19.1
Avg.=	5.0	0.0	0.3	18.3	5.3	-0.1	13.1

RADIAN CORPORATION HCL=8.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:29:29
File Name = D:\CEMDATA\091191.PRN Calibration File:D:\CEMDATA\0910BOA.CAL

09-11-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:29:30	5.0	0.0	-0.0	18.7	5.3	-0.0	11.8
08:29:40	5.0	0.0	0.5	19.0	5.3	1.4	10.7
08:29:50	5.0	0.0	1.4	18.0	5.2	38.0	14.2
08:30:00	5.0	0.0	12.5	14.7	0.9	43.8	15.8
08:30:10	4.6	0.0	20.1	9.5	0.2	44.8	17.8
08:30:20	2.9	0.0	23.4	5.5	0.1	45.4	19.1
08:30:30	1.2	0.0	25.4	3.2	0.1	45.9	16.0
08:30:40	0.4	0.0	26.9	2.3	0.1	46.2	10.2
08:30:50	0.2	0.0	27.9	1.7	0.0	46.5	12.3
08:31:00	0.2	0.0	28.5	1.2	0.0	46.8	12.9
08:31:10	0.1	0.0	29.1	1.2	-0.0	47.0	8.9
08:31:20	0.1	0.0	29.5	1.7	-0.0	47.2	13.3
08:31:30	0.1	0.0	29.7	2.2	-0.0	47.3	9.6
08:31:39	0.1	0.0	30.1	2.0	-0.0	47.4	10.4
08:31:49	0.1	0.0	30.5	1.7	-0.0	47.5	8.9
08:31:59	0.1	0.0	30.7	1.2	-0.0	47.6	14.4
08:32:09	0.1	0.0	30.7	1.1	-0.0	47.7	2[illegible]2
Avg.=	1.8	0.0	22.2	6.2	1.0	40.6	15[illegible]



RADIAN CORPORATION NOX=49 SO2=30

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:34:19
File Name = D:\CEMDATA\091191.PRN Calibration File:D:\CEMDATA\0910BOA.CAL

09-11-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:34:20	0.0	0.0	31.5	1.4	-0.1	48.4	3.9
08:34:30	0.0	0.0	32.1	2.1	-0.1	48.5	-2.5
08:34:40	0.0	0.0	31.8	1.9	-0.1	48.5	4.2
08:34:50	0.0	0.0	32.2	1.4	-0.1	48.6	5.3
08:35:00	0.0	0.0	32.1	1.2	-0.1	48.6	2.0
08:35:10	0.0	0.0	32.4	1.3	-0.1	48.6	-4.8
08:35:20	0.0	0.0	32.0	1.8	-0.1	48.6	0.7
08:35:30	0.0	0.0	32.0	2.1	-0.1	48.7	-4.1
08:35:40	0.0	0.0	32.2	2.1	-0.1	48.7	0.5
08:35:50	0.0	0.0	32.4	1.6	-0.1	48.6	22.7
Avg.=	0.0	0.0	32.1	1.7	-0.1	48.6	2.8

RADIAN CORPORATION SO2=24.3 NOX=25.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-11-1991 Current Time = 08:41:02
File Name = D:\CEMDATA\091191.PRN Calibration File:D:\CEMDATA\0910BOA.CAL

09-11-1991 Time —	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV
08:41:03	0.0	0.0	26.2	1.4	-0.1	24.4	8.1
08:41:13	0.0	0.0	26.2	1.1	-0.0	24.5	21.4
08:41:23	0.0	0.0	26.2	2.0	-0.0	24.5	15.5
08:41:33	0.0	0.0	26.2	1.6	-0.0	24.5	9.9
08:41:43	0.0	0.0	26.3	1.7	-0.1	24.5	6.9
08:41:53	0.0	0.0	26.1	0.9	-0.0	24.5	10.6
08:42:03	0.0	0.0	26.2	1.0	-0.0	24.5	13.7
08:42:13	0.0	0.0	26.4	2.0	-0.1	24.5	9.0
Avg.=	0.0	0.0	26.2	1.5	-0.0	24.5	11.9

Post CAL
BO

Out of

CALIBRATION SUMMARY
09-11-1991 16:59:59
CALIBRATION FILE NAME =D:\CEMDATA\0911BOF.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.01	0.7912	20.00	8.060	2.475	0.05
2	Hg	ug/m3	0.00	-.0027	200.00	-0.002	206690.766	562.68
3	SO2	ppmV	0.00	-.0014	86.00	0.177	482.829	0.69
4	CO	ppmV	0.00	0.0045	88.90	0.875	102.157	-0.46
5	CO2	%V	0.00	0.0020	18.00	0.090	204.527	-0.40
6	NOx	ppmV	0.00	-.0148	88.30	8.853	9.958	0.15
7	HCl	ppmV	0.00	0.0493	107.00	0.550	213.767	-10.54
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

CEM INSTRUMENT DRIFT SUMMARY
09-11-1991 17:00:23

Chan.	Name	Units	Zero Conc. Actual	Zero Conc. Observed	Span Actual	Span Observed	Drift % of Scale Zero	Drift % of Scale Span
1	O2	%V	2.010	2.002	20.00	20.00	-0.04	-0.01
2	Hg	ug/m3	0.000	%952.506	200.00	0.00	47.63	-10.00
3	SO2	ppmV	0.000	0.321	86.00	85.42	0.32	-0.58
4	CO	ppmV	0.000	-.852	88.90	87.63	-4.26	-6.33
5	CO2	%V	0.000	0.006	18.00	17.94	0.06	-0.63
6	NOx	ppmV	0.000	-.141	88.30	88.18	-0.14	-0.12
7	HCl	ppmV	0.000	6.988	107.00	107.71	2.80	0.28
8			0.000	0.000	0.00	0.00	0.00	0.00
9			0.000	0.000	0.00	0.00	0.00	0.00
10			0.000	0.000	0.00	0.00	0.00	0.00
11			0.000	0.000	0.00	0.00	0.00	0.00
12			0.000	0.000	0.00	0.00	0.00	0.00
13			0.000	0.000	0.00	0.00	0.00	0.00
14			0.000	0.000	0.00	0.00	0.00	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

Run # 6 B.I

Pre test

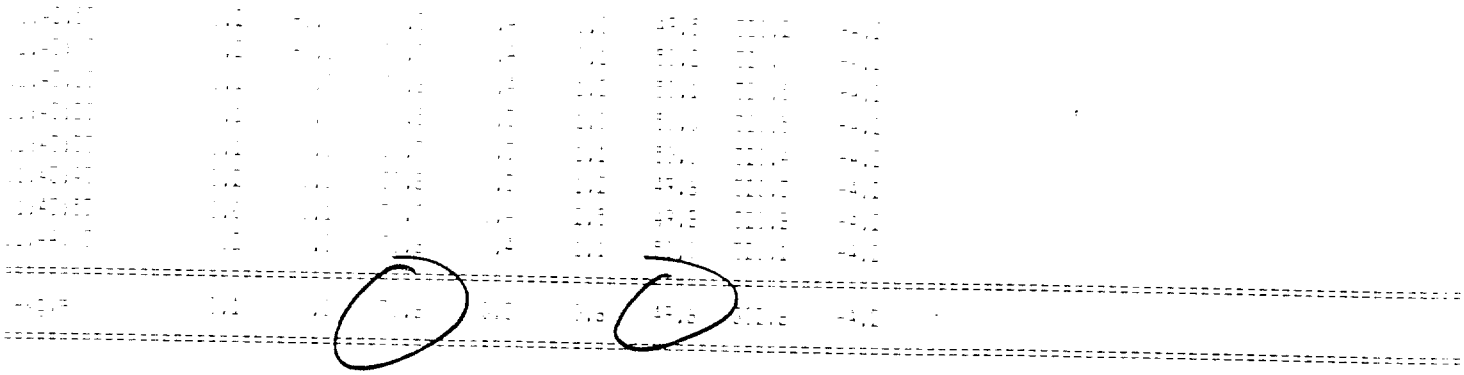
Inlet

[illegible]

Chan. Name Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Press Shift-PrtSc to Print Out Table
Press C to Continue

[illegible]



[illegible]

... Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File=D:\CEMDATA\[illegible].CAL

Time	O2 %	H2O ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	24.5	[illegible]	-0.6	25.5	222.7	-4.2
[illegible]	[illegible]	[illegible]	24.7	[illegible]	-0.6	25.2	221.1	-4.2
[illegible]	[illegible]	[illegible]	24.5	[illegible]	-0.7	25.3	221.0	-4.2
[illegible]	[illegible]	[illegible]	24.7	[illegible]	-0.7	25.2	220.9	-4.2
[illegible]	[illegible]	[illegible]	24.8	[illegible]	-0.7	25.2	221.8	-4.2
[illegible]	[illegible]	[illegible]	24.8	[illegible]	-0.7	25.0	220.9	-4.2
[illegible]	[illegible]	[illegible]	24.7	[illegible]	-0.7	25.0	221.8	-4.2
[illegible]	[illegible]	[illegible]	24.8	[illegible]	-0.6	24.9	221.2	-4.2
Avg	[illegible]	[illegible]	24.7	[illegible]	-0.6	25.2	221.3	-4.2

[illegible] CORPORATION [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-12-1991 Current Time = 11:52:09
File Name = [illegible] Calibration File:[illegible]

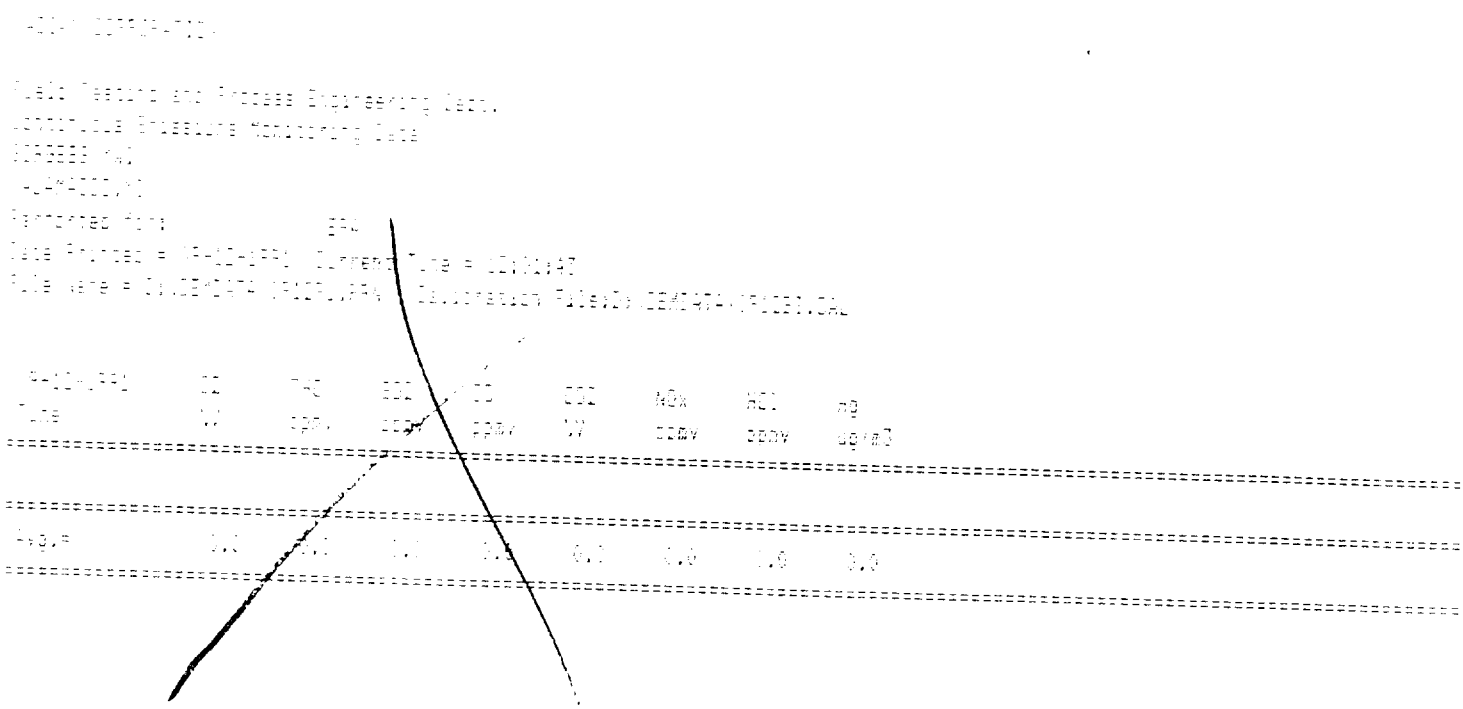
09-12-1991 Time	O2 %	THC ppmV	SO2 ppmV	CO ppmV	CO2 %	NOx ppmV	HCl ppmV	Hg ug/m3
11:52:12	10.5	42.5	1.5	55.7	7.2	0.1	236.9	-4.2
11:52:22	10.5	42.6	1.6	56.0	7.5	0.1	314.9	-4.2
11:52:32	10.6	42.6	1.6	56.5	7.5	0.1	321.8	-4.2
11:52:42	10.6	42.6	1.6	56.7	7.5	0.1	321.9	-4.2
11:52:52	10.6	42.7	1.4	56.5	7.5	0.1	322.0	-4.2
11:53:[illegible]	10.6	42.7	1.7	56.3	7.6	0.1	243.5	-4.2
11:53:11	10.6	42.7	1.5	56.5	7.6	0.1	315.1	-4.2
11:53:21	10.6	42.6	1.5	56.5	7.7	0.1	245.4	-4.2
11:53:31	10.6	42.6	1.6	56.8	7.7	0.1	237.3	-4.2
11:53:41	10.6	42.6	1.5	56.6	7.7	0.1	317.2	-4.2
11:53:51	10.6	42.6	1.5	56.4	7.7	0.1	322.0	-4.2
11:54:[illegible]	10.6	46.0	1.6	56.4	7.8	0.1	246.5	-4.2
11:54:11	10.6	49.0	1.7	56.6	7.8	0.1	310.5	-4.2
11:54:21	10.6	48.8	1.8	56.6	7.8	0.1	247.4	-4.2
11:54:31	10.6	48.8	1.5	56.5	7.8	0.1	236.6	-4.2
11:54:41	10.6	48.8	1.7	56.5	7.8	0.1	237.1	-4.2
11:54:51	10.6	48.8	1.6	56.5	7.8	0.1	309.3	-4.2
11:55:[illegible]	10.5	48.8	1.7	56.6	7.8	0.1	321.5	-4.2
11:55:11	10.5	48.8	1.7	56.6	7.8	0.1	250.9	-4.2
11:55:21	10.5	48.7	1.6	56.6	7.8	0.1	307.0	-4.2
11:55:31	10.5	48.8	1.5	56.5	7.8	0.1	321.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.7	[illegible]	[illegible]	-4.2

CO 5.0]
O2 = 10
CH4 = 48.9

[illegible]

U.S. Territory and Processes Engineering Sect.
Surface Emissions Monitoring Data
[illegible] Vol
[illegible]
Planned Tech: EPA
Date Printed = 04-12-1991 Current Time = 11:55:47
Job Name = C:\TEMP\74.04191.PRN Data Location File:C:\TEMP\74.04191.DAT

04-12-1991	O2	CH4	EGI	CO	CO2	NOx	HCl	Hg
Time	%	ppmv	ppmv	ppmv	%	ppmv	ppmv	ug/dscf
[illegible]	10.5	48.7	1.5	54.5	7.7	0.1	321.5	-4.2
[illegible]	10.5	48.8	1.6	54.5	7.7	0.1	321.6	-4.2
[illegible]	10.5	48.8	1.6	54.7	7.7	0.1	321.5	-4.2
[illegible]	10.5	48.7	1.7	54.6	7.7	0.1	321.5	-4.2
[illegible]	10.5	48.7	1.6	54.5	7.7	0.1	321.6	-4.2
[illegible]	10.4	48.8	1.7	54.5	7.6	0.1	321.7	-4.2
[illegible]	10.4	48.7	1.6	54.6	7.6	0.1	321.6	-4.2
[illegible]	10.5	48.7	1.6	54.6	7.6	0.1	321.7	-4.2
[illegible]	10.4	48.7	1.7	54.5	7.6	0.0	277.6	-4.2
[illegible]	10.4	48.7	1.6	54.6	7.6	0.0	296.1	-4.2
[illegible]	10.4	48.7	1.6	54.5	7.6	0.0	322.0	-4.2
[illegible]	10.4	48.7	1.6	54.5	7.6	0.0	260.5	-4.2
[illegible]	10.4	48.7	1.6	54.5	7.6	0.0	298.7	-4.2
[illegible]	10.4	48.7	1.6	54.6	7.6	0.0	281.3	-4.2
[illegible]	10.4	48.7	1.7	54.6	7.6	0.0	277.6	-4.2
[illegible]	10.4	48.7	1.7	54.5	7.6	0.0	277.4	-4.2
[illegible]	10.4	48.8	1.7	54.6	7.6	0.0	277.5	-4.2
[illegible]	10.5	48.8	1.6	54.6	7.6	0.0	296.1	-4.2
[illegible]	10.5	48.7	1.7	54.6	7.6	0.0	278.1	-4.2
[illegible]	10.4	48.8	1.6	54.5	7.6	0.0	260.5	-4.2
[illegible]	10.5	48.7	1.7	54.4	7.6	0.0	404.2	-4.2
[illegible]	10.5	48.7	1.6	54.6	7.6	0.0	277.2	-4.2
[illegible]	10.5	48.8	1.6	54.6	7.7	0.0	321.7	-4.2
[illegible]	10.4	48.7	1.7	54.5	7.6	0.1	322.6	-4.2

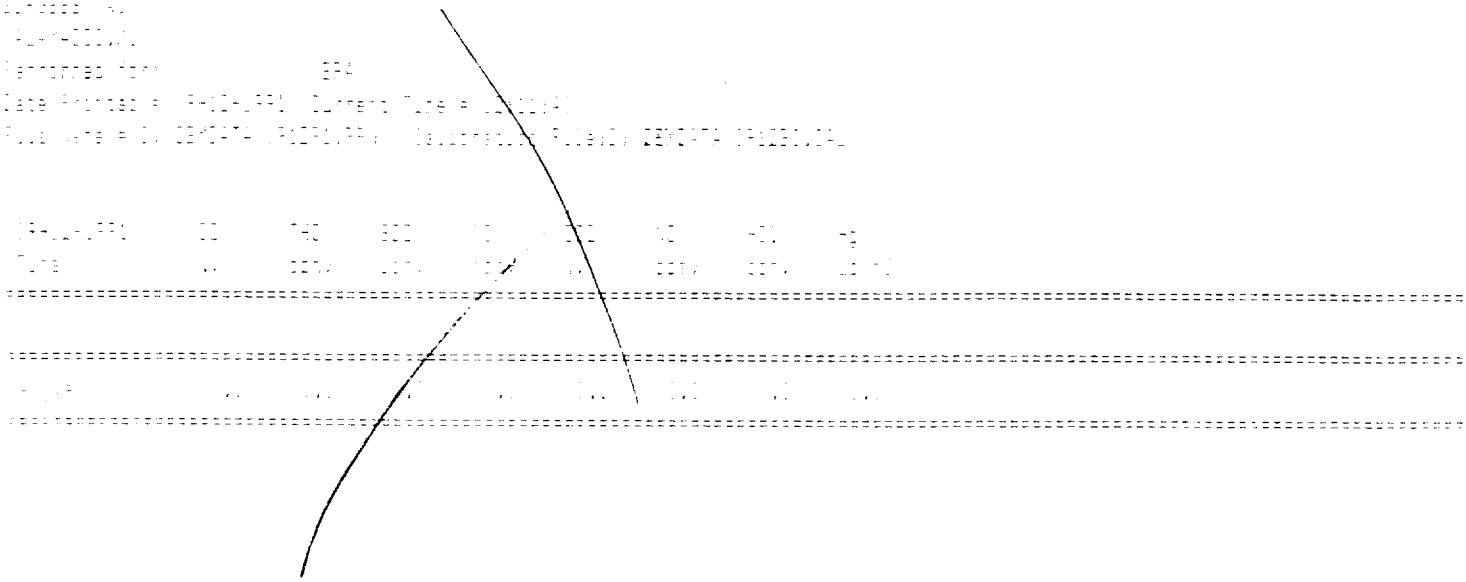


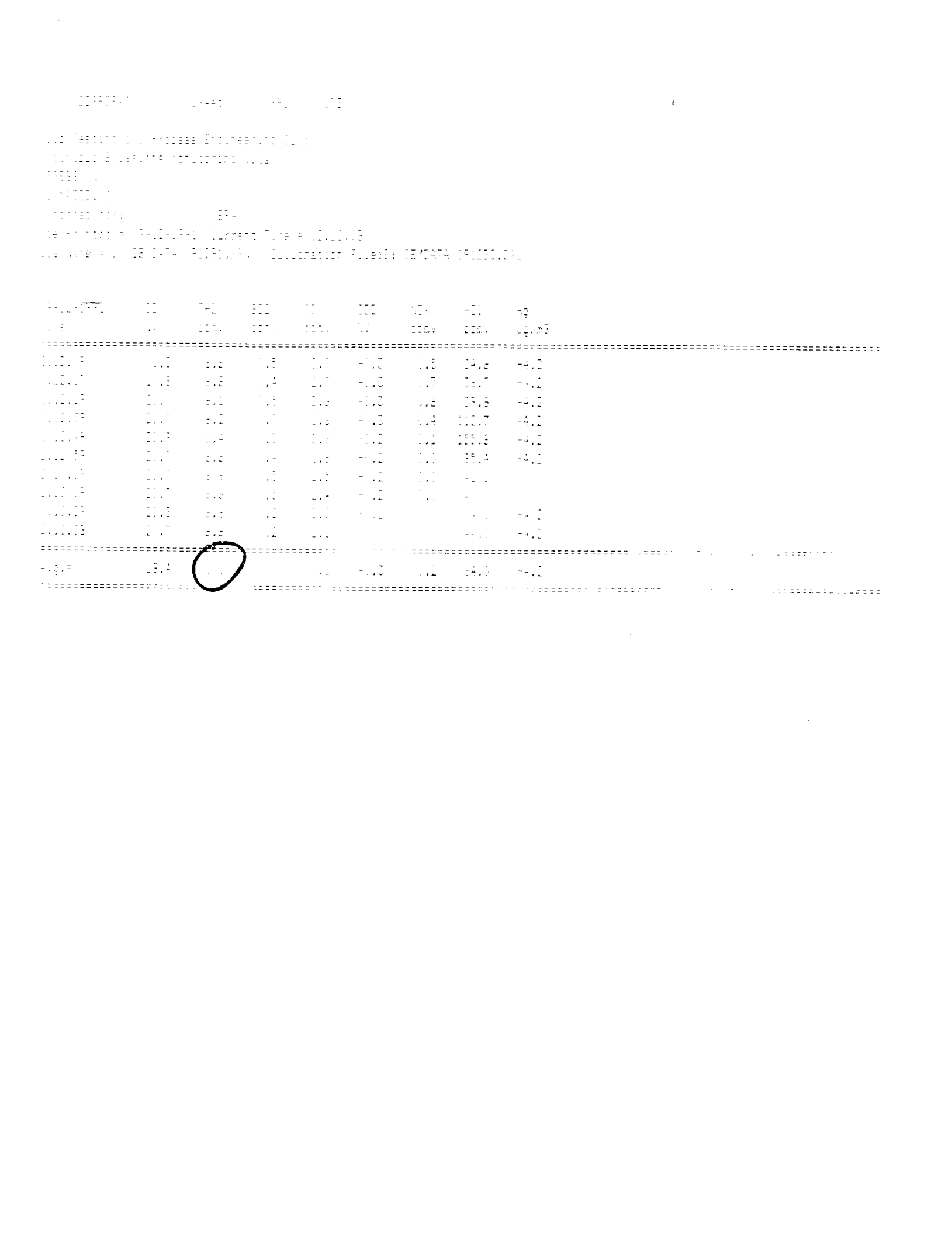
O2 = 14.11
CO = 19.9
CH4 = 27.6
CO2 = 5.02 →
HCl = 386

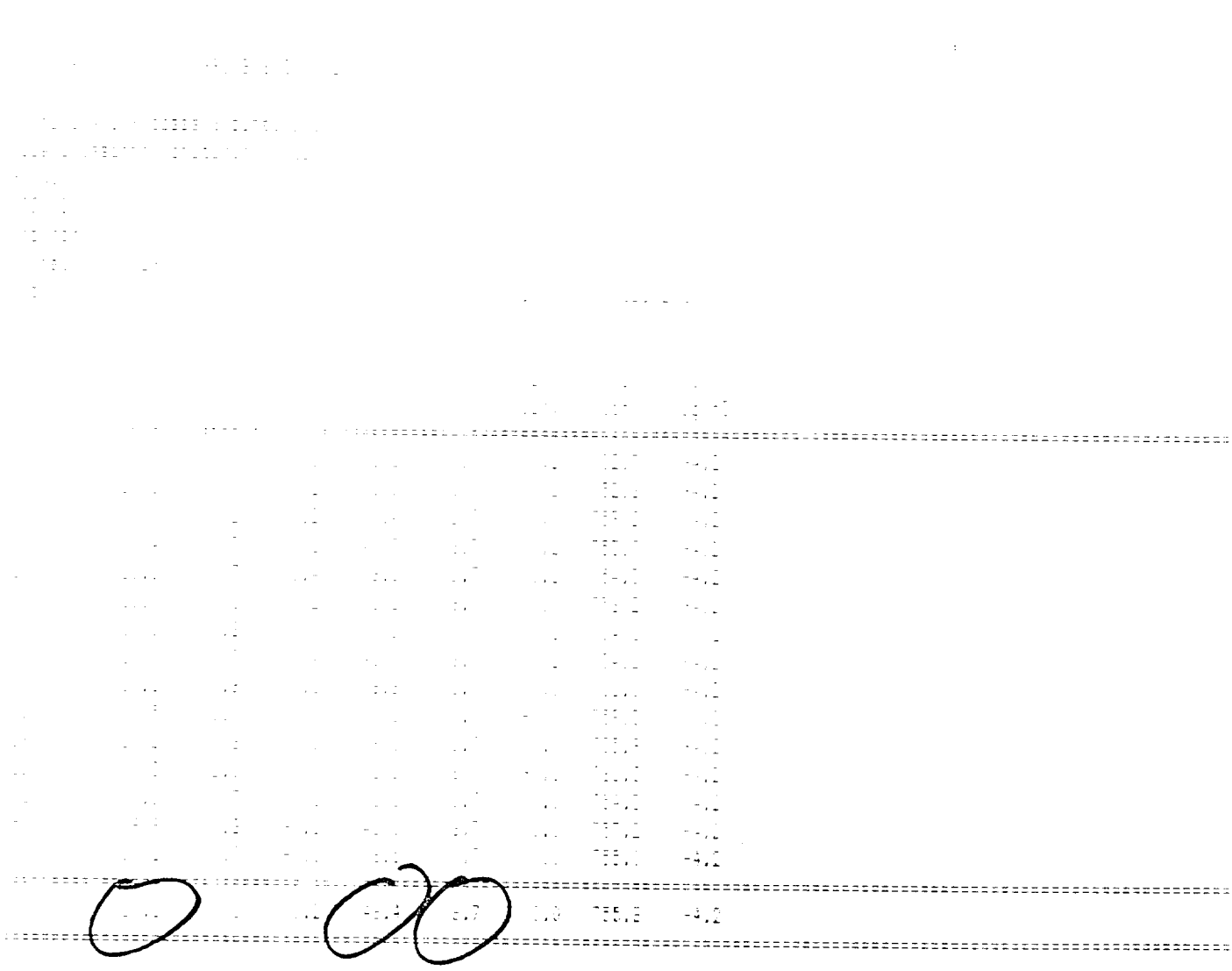
[illegible]

[illegible] Testing and Process Engineering Data
Detailed Emissions Monitoring Data
[illegible]
[illegible]
Averaged for, [illegible] GMT
Run Started = [illegible] Current Time = [illegible]
Data Path = D: [illegible] Validation Files\[illegible]

[illegible]	O2	CO2	SO2	CO	NOx	HCl	Hg
[illegible]	V%	DRY%	DRY	DRY	V%	DRY	ppmV	ug/m3
[illegible]	5.1	27.4	1.6	17.8	2.5	0.0	410.0	-4.2
[illegible]	5.1	27.4	1.6	17.9	2.5	0.0	410.1	-4.2
[illegible]	4.9	27.5	1.4	17.9	2.5	0.0	410.5	-4.2
[illegible]	4.9	27.4	1.6	18.1	2.5	0.0	410.5	-4.2
[illegible]	4.9	27.4	1.6	18.1	2.5	0.0	411.1	-4.2
[illegible]	4.8	27.5	1.8	17.9	2.5	-0.0	411.4	-4.2
[illegible]	4.8	27.5	1.6	17.9	2.5	-0.0	411.5	-4.2
[illegible]	4.9	27.5	1.4	18.0	2.5	-0.0	411.1	-4.2
[illegible]	4.8	27.5	1.4	17.9	2.5	-0.0	411.5	-4.2
[illegible]	4.8	27.5	1.4	17.9	2.5	-0.0	411.5	-4.2
[illegible]	5.1	27.5	1.6	17.8	2.5	0.0	410.6	-4.2
[illegible]	4.9	27.5	1.4	17.8	2.4	-0.0	411.4	-4.2
[illegible]	5.1	27.5	1.5	17.9	2.5	0.0	410.0	-4.2
[illegible]	5.1	27.5	1.7	18.0	2.5	0.0	410.5	-4.2
[illegible]	5.1	27.5	1.7	18.1	2.5	0.0	410.2	-4.2
[illegible]	5.0	27.5	1.6	18.1	2.5	0.0	410.6	-4.2
[illegible]	4.9	27.5	1.5	18.1	2.4	0.0	410.9	-4.2
[illegible]	4.9	27.5	1.4	18.1	2.5	0.0	411.1	-4.2
[illegible]	5.0	27.5	1.6	17.9	2.5	0.0	410.8	-4.2







Post test
Run #6

In 69

CALIBRATION SUMMARY
09-12-1991 19:56:56
CALIBRATION FILE NAME =D:\CEMDATA\0912BIF.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.01	0.0069	20.00	0.088	223.024	0.47
2	THC	ppmV	0.00	0.0049	89.50	8.743	10.312	-0.05
3	SO2	ppmV	0.00	-.0003	86.00	0.340	252.716	0.07
4	CO	ppmV	0.00	0.0012	88.50	0.918	96.939	-0.12
5	CO2	%V	0.00	-.0049	18.00	0.091	188.065	0.92
6	NOx	ppmV	0.00	0.0036	86.00	8.601	9.957	-0.03
7	HCl	ppmV	0.00	-.0054	809.00	0.087	9072.904	48.58
8	Hg	ug/m3	0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press C to Continue

Run # 6
BO

Re cal

Outlet

CALIBRATION SUMMARY
09-12-1991 11:37:53
CALIBRATION FILE NAME =D:\CEMDATA\0912BO.CAL

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%V	2.01	0.7990	20.00	8.067	2.475	0.03
2	Hg	ug/m3	0.00	-.0005	200.00	-0.002	%-163378.453	-86.68
3	SO2	ppmV	0.00	-.0034	86.00	0.182	464.908	1.59
4	~~CO~~	ppmV	0.00	0.0106	88.90	0.888	101.347	-1.07
5	CO2	%V	0.00	0.0019	18.00	0.090	203.235	-0.39
6	NOx	ppmV	0.00	-.0040	88.30	8.866	9.955	0.04
7	HCl	ppmV	0.00	0.0310	107.00	0.529	214.659	-6.66
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-Prtsc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION SO2=30 NOX=49

HCl = 49.1

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-12-1991 Current Time = 11:42:09
File Name = D:\CEMDATA\091291.PRN Calibration File:D:\CEMDATA\0912BO.CAL

09-12-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
11:42:10	0.1	154.8	32.3	-1.3	-0.0	48.8	45.1	-4.4
11:42:19	0.1	150.4	32.4	-0.1	-0.0	48.9	43.7	-4.4
11:42:29	0.1	165.6	32.2	-0.4	-0.0	48.8	47.9	-4.4
11:42:39	0.1	167.6	32.6	-0.2	-0.0	48.9	51.7	-4.4
11:42:49	0.1	176.8	32.3	-0.6	-0.0	48.8	52.1	-4.4

11:43:29	0.0	171.1	32.6	0.1	-0.0	48.9	48.1	-4.4
11:43:39	0.0	183.2	32.5	-0.1	-0.1	48.9	56.7	-4.4
11:43:49	0.0	198.7	32.7	-0.3	-0.1	48.9	63.8	-4.4
11:43:59	0.0	188.4	32.5	-0.4	-0.0	48.9	49.4	-4.4
11:44:09	0.0	207.2	32.5	0.3	-0.0	48.9	48.9	-4.4
11:44:19	0.0	202.3	32.7	0.9	-0.1	49.0	39.1	-4.4
11:44:29	0.0	163.4	32.9	0.8	-0.1	49.0	45.2	-4.4
Avg.=	0.1	177.3	32.5	-0.1	-0.0	48.9	49.0	-4.4

RADIAN CORPORATION NOX=25.9 SO2=24.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-12-1991 Current Time = 11:48:22
File Name = D:\CEMDATA\091291.PRN Calibration File:D:\CEMDATA\0912BO.CAL

09-12-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
11:48:23	0.0	182.8	26.2	-0.2	-0.0	25.1	0.5	-4.4
11:48:33	0.0	147.8	27.0	0.9	-0.0	25.0	5.9	-4.4
11:48:43	0.0	159.0	26.9	0.5	-0.0	24.9	8.0	-4.4
11:48:53	0.0	157.6	26.9	0.1	-0.0	24.9	6.2	-4.4
11:49:03	0.0	161.1	26.6	0.3	-0.0	24.8	4.4	-4.4
11:49:13	0.0	167.3	26.8	0.2	-0.0	24.9	8.8	-4.4
Avg.=	0.0	162.6	26.7	0.3	-0.0	24.9	5.6	-4.4

RADIAN CORPORATION HCL=9.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO.MI
Performed for: EPA
Date Printed = 09-12-1991 Current Time = 11:49:32
File Name = D:\CEMDATA\091291.PRN Calibration File:D:\CEMDATA\0912BO.CAL

09-12-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
11:49:33	0.0	152.3	26.5	0.9	-0.0	24.8	14.9	-4.4
11:49:43	0.0	150.8	26.8	0.7	-0.0	24.8	14.5	-4.4
11:49:53	0.0	164.6	26.9	0.4	-0.0	24.8	7.2	-4.4
11:50:03	0.0	168.0	27.1	0.4	-0.0	24.8	2.5	-4.4
11:50:13	0.0	162.6	27.1	0.4	-0.0	24.8	4.5	-4.4
11:50:23	0.0	148.7	26.7	1.0	-0.0	24.8	8.0	-4.4
11:50:33	0.0	137.7	26.7	1.3	-0.0	24.8	10.1	-4.4
11:50:43	0.0	131.2	27.0	1.1	-0.0	24.8	12.8	-4.4
11:50:52	0.0	126.3	27.0	0.5	-0.0	24.9	10.7	-4.4
11:51:02	0.0	134.4	26.4	0.1	-0.0	19.4	2.1	-4.4
11:51:12	0.0	104.6	18.2	3.5	2.0	6.8	8.8	-4.4
11:51:22	0.1	92.9	10.8	14.0	7.4	2.6	19.4	-4.4
11:51:32	1.6	97.9	7.1	28.8	9.3	1.1	8.8	-4.4
11:51:42	4.5	103.0	4.1	41.8	9.9	0.5	3.5	-4.4
11:51:52	6.9	102.2	3.1	50.0	10.1	0.3	2.5	-4.4
Avg.=	0.9	131.8	20.7	9.7	2.6	16.9	8.7	-4.4

RADIAN CORPORATION 02=10 CO2=9.99 CO=58.6

HCl 9.58

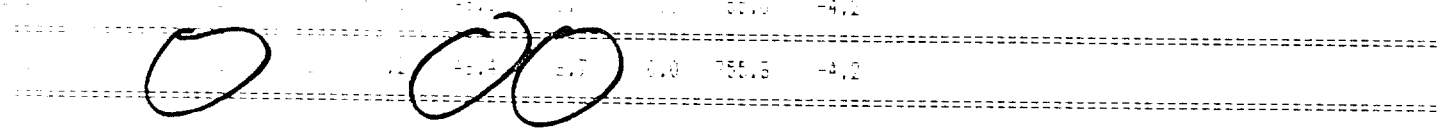
Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-12-1991 Current Time = 11:53:48
File Name = D:\CEMDATA\091291.PRN Calibration File:D:\CEMDATA\0912BO.CAL

09-12-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
11:53:49	9.9	108.3	2.2	58.9	10.3	0.2	14.9	-4.4
11:53:59	9.9	117.9	2.8	57.9	10.3	0.1	1.3	-4.4
11:54:09	9.9	116.8	2.6	58.3	10.3	0.1	10.7	-4.4
11:54:19	9.9	116.0	2.7	59.0	10.3	0.1	3.4	-4.4
11:54:29	9.9	114.2	2.8	58.9	10.3	0.1	17.2	-4.4
11:54:39	9.9	118.6	2.8	58.1	10.3	0.1	14.5	-4.4
11:54:49	9.9	108.3	2.4	58.0	10.3	0.1	2.6	-4.4
11:54:59	9.9	99.2	2.6	58.0	10.3	0.1	5.1	-4.4
11:55:09	9.9	96.3	2.4	58.0	10.3	0.1	7.2	-4.4
11:55:19	9.9	100.8	2.8	58.5	10.3	0.1	15.0	-4.4
11:55:29	10.0	98.6	2.6	58.5	10.3	0.1	13.0	-4.4
11:55:39	9.9	105.1	2.6	58.0	10.3	0.1	9.3	-4.4
11:55:48	10.0	100.4	2.3	58.1	10.3	0.1	5.1	-4.4
11:55:58	9.9	97.5	2.3	58.1	10.3	0.1	7.0	-4.4
11:56:08	10.0	100.0	2.6	58.0	10.3	0.1	13.0	-4.4
11:56:18	9.9	96.7	2.0	58.6	10.3	0.1	11.3	-4.4
11:56:28	10.0	101.8	2.2	58.7	10.3	0.1	[illegible]	-4.4
Avg.=	9.9	105.7	2.5	58.3	10.3	0.1	9.4	-4.4

RADIAN CORPORATION O2=4.99 CO2=5.0C CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-12-1991 Current Time = 12:02:29
File Name = D:\CEMDATA\091291.PRN Calibration File:D:\CEMDATA\0912BO.CAL

09-12-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
12:02:30	5.0	82.0	2.5	17.5	5.3	0.1	10.2	-4.4
12:02:40	5.0	79.4	2.5	18.9	5.3	0.1	12.5	-4.4
12:02:50	5.0	87.4	2.2	18.3	5.3	0.1	17.4	-4.4
12:03:00	5.0	88.4	2.6	17.9	5.3	0.1	17.0	-4.4
12:03:10	5.0	88.6	2.5	18.6	5.3	0.1	14.1	-4.4
12:03:20	5.0	86.8	2.5	19.2	5.3	0.1	8.3	-4.4
12:03:30	5.0	85.8	2.4	19.0	5.3	0.1	4.0	-4.4
12:03:40	5.0	89.8	2.6	18.6	5.3	0.1	11.9	-4.4
12:03:50	5.0	97.2	2.5	18.1	5.3	0.1	13.9	-4.4
12:04:00	5.0	100.0	2.7	17.8	5.3	0.1	7.6	-4.4
12:04:10	5.0	98.0	2.4	18.4	5.3	0.1	11.1	-4.4
12:04:20	5.0	98.0	2.5	19.3	5.3	0.1	9.1	-4.4
12:04:30	5.0	95.6	2.4	19.2	5.3	0.1	6.8	-4.4
12:04:40	5.0	90.2	2.2	18.8	5.3	0.1	5.6	-4.4
12:04:50	5.0	84.4	2.0	18.2	5.3	0.1	10.7	-4.4
Avg.=	5.0	90.1	2.4	18.5	5.3	0.1	10.7	-4.4



Run # 6 80

Post Cal

Out 6 +

CALIBRATION SUMMARY
09-12-1991 18:59:06
CALIBRATION FILE NAME =D:\CEMDATA\0912B0F.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.01	0.7984	20.00	8.081	2.470	0.04
2	THC	PPM	0.00	-.0499	200.00	8.755	22.715	1.13
3	SO2	ppmV	0.00	0.0021	86.00	0.181	481.058	-1.00
4	CO	ppmV	0.00	-.0021	88.90	0.875	101.359	0.21
5	CO2	%V	0.00	0.0020	18.00	0.091	201.309	-0.40
6	NOx	ppmV	0.00	0.0100	88.30	8.749	10.104	-0.10
7	HCl	ppmV	0.00	0.0141	107.00	0.524	209.966	-2.96
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press <C> to Continue

RADIAN CORPORATION THRU SYSTEM O2=10 CO2=9 CO=44

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-12-1991 Current Time = 12:16:15
File Name = D:\CEMDATA\091291.PRN Calibration File:D:\CEMDATA\0912BO.CAL

09-12-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
12:16:16	10.0	-44.1	3.3	45.1	9.3	0.1	13.0	-4.4
12:16:26	9.9	-45.6	3.5	46.1	9.4	0.1	14.4	-4.4
12:16:36	9.9	-45.9	3.1	46.4	9.4	0.1	8.5	-4.4
12:16:46	9.9	-50.3	3.6	45.3	9.3	0.1	-0.2	-4.4
12:16:56	9.9	-54.7	3.7	45.2	9.3	0.1	1.8	-4.4
12:17:06	9.9	-59.3	3.4	45.5	9.3	0.1	9.7	-4.4
12:17:16	9.9	-63.5	3.4	46.2	9.4	0.1	11.3	-4.4
12:17:26	9.9	-71.7	3.3	46.8	9.3	0.1	11.3	-4.4
12:17:36	9.9	-79.5	2.9	46.1	9.3	0.1	6.4	-4.4
12:17:46	9.9	-100.5	2.9	45.4	9.3	0.1	1.6	-4.4
12:17:56	9.9	-106.1	2.8	45.0	9.4	0.1	-1.2	-4.4
12:18:06	9.9	-100.8	3.1	45.9	9.3	0.1	1.7	-4.4
Avg.=	9.9	-68.5	3.2	45.7	9.3	0.1	6.5	-4.4

Run # 7

~~[illegible]~~

BI

Pre CAL

Inlet

CALIBRATION SUMMARY

[illegible]

CALIBRATION FILE NAME [illegible]

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	[illegible]	[illegible]	[illegible]	[illegible]	~~[illegible]~~	~~[illegible]~~	[illegible]	[illegible]
2	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	ug/m3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Press [illegible] to Print Out Table

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Nox = 49

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Continuous Emissions Monitoring Data
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[illegible]
Performed for: EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File: [illegible]

[illegible] Time	CO %	THC ppmv	SO2 ppmv	[illegible] ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg µg/m3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48.7	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48.8	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48.9	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	48.9	[illegible]	[illegible]

[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
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Performed for: EPA
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File Name = D: [illegible] Calibration File:D: [illegible]

[illegible] Time	[illegible] %	THC ppmv	[illegible] ppmv	[illegible] ppmv	[illegible] %	NOx ppmV	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.1	409.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	49.2	410.3	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.1	409.8	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.1	409.9	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.1	410.3	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.0	409.9	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.1	409.8	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.2	409.7	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.3	410.4	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.5	410.7	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.6	409.8	-4.2
[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-0.1	49.8	408.6	-4.2
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[illegible]	0.7	0.9	[illegible]	0.4	-0.1	40.7	408.1	-4.2
[illegible]	0.8	0.9	24.2	[illegible]	-0.1	33.6	408.1	-4.2
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[illegible]	0.8	0.8	24.1	[illegible]	-0.1	16.7	409.4	-4.2
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	15.0	409.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	14.9	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	14.5	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	35.5	[illegible]	-4.2

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Field Testing and Process Engineering Dept.
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Performed for: EPA
Date Printed = [illegible] Current Time = [illegible]
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[illegible]	[illegible]	[illegible]	24.5	[illegible]	-0.1	24.7	[illegible]	-4.2
[illegible]	[illegible]	-0.4	24.7	[illegible]	-0.1	24.7	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	24.7	[illegible]	-4.2
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	24.7	141.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	24.7	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	24.7	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	140.7	-4.2
Avg.	[illegible]	[illegible]	24.9	[illegible]	-0.1	24.[illegible]	140.5	-4.2

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Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
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Performed for: EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File:[illegible]

[illegible] Time	O2 NV	THC ppmv	SO2 ppmv	CO ppmv	CO2 NV	NOx ppmV	HCl ppmV	Hg ug/m3
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.2	[illegible]	[illegible]	-4.2
Avg.=	[illegible]	[illegible]	[illegible]	[illegible]	0.5	0.4	[illegible]	-4.2

[illegible]

Air Traffic and Process Simulation Tool

[illegible]

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Performed for:

Data Printed = [illegible] Current Time = [illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	-4.2

[illegible] CORPORATION [illegible]

Plant Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 9-13-1991 Current Time = 07:56:29
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\091391.CAL

9-13-1991 Time	CO VV	THC ppmv	SO2 ppmv	CO ppmv	CO2 VV	NOx ppmv	HCl ppmv	Hg ug/m3
07:56:31	10.4	49.9	1.9	55.8	9.9	-0.1	324.5	-4.2
07:56:41	10.3	50.0	1.9	56.0	10.0	-0.1	324.3	-4.2
07:56:51	10.3	50.1	1.7	56.2	9.9	-0.1	324.5	-4.2
07:57:01	10.3	50.0	1.9	55.9	9.9	-0.1	324.2	-4.2
07:57:11	10.3	50.0	2.0	55.8	9.9	-0.1	324.2	-4.2
07:57:21	10.3	50.1	1.9	56.0	9.9	-0.1	324.3	-4.2
07:57:31	10.3	50.1	1.8	56.1	9.9	-0.1	324.1	-4.2
07:57:40	10.3	50.1	1.9	56.1	9.9	-0.1	324.2	-4.2
07:57:51	10.3	50.0	1.8	56.1	9.9	-0.1	324.1	-4.2
07:58:01	10.3	50.0	1.9	56.0	9.9	-0.1	324.0	-4.2
07:58:11	10.3	50.0	2.0	55.9	9.9	-0.1	323.8	-4.2
07:58:21	10.3	50.1	1.9	55.9	9.9	-0.1	324.0	-4.2
07:58:31	10.3	50.1	2.1	55.8	9.9	-0.1	366.3	-4.2
07:58:40	10.3	50.1	1.9	56.0	9.9	-0.1	405.6	-4.2
07:58:50	10.3	50.1	2.1	56.4	9.9	-0.1	364.4	-4.2
07:59:00	10.3	50.1	2.0	56.3	9.9	-0.1	323.8	-4.2
07:59:10	10.3	50.1	1.9	56.3	9.9	-0.1	323.6	-4.2
Avg.=	10.3	50.0	1.9	56.0	9.9	-0.1	333.8	-4.2

[illegible]

[illegible] Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Data Printed = [illegible] Current Time = [illegible]
File name = [illegible]CEMDATA[illegible] Calibration File:D:\CEMDATA\[illegible].CAL

[illegible] Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	.0	0.0	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	.1	0.0	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	.1	[illegible]	-0.1	[illegible]	-4.2
[illegible]	20.1	[illegible]	[illegible]	.1	0.0	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	-0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	0.1	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.4	-0.0	0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	1.4	-0.1	0.3	317.6	-4.2
[illegible]	20.1	5.6	[illegible]	[illegible]	-0.0	-0.0	323.5	-4.2
[illegible]	19.8	5.5	[illegible]	.5	-0.0	0.0	310.8	-4.2

[illegible] CORPORATION [illegible]

Lab Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
[illegible]
Performed for: EPA
Date Printed = 09-10-1991 Current Time = 08:04:02
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\091391.CAL

9-10-1991 Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmv	HCl ppmv	Hg ug/m3
08:04:04	19.8	5.8	2.1	0.5	-0.0	-0.1	237.6	-4.2
08:04:17	19.8	5.9	2.2	0.2	-0.0	-0.1	238.3	-4.2
08:04:27	19.9	5.8	2.1	0.1	-0.0	-0.1	238.1	-4.2
08:04:37	19.9	5.8	1.8	0.1	-0.0	-0.1	238.2	-4.2
08:04:47	19.9	5.9	1.7	0.0	0.0	-0.1	238.4	-4.2
08:04:57	19.9	5.8	1.8	0.1	0.0	-0.1	238.3	-4.2
08:05:07	19.9	5.9	1.8	0.1	0.0	-0.1	238.0	-4.2
08:05:17	19.8	5.8	1.8	0.1	0.0	-0.1	238.4	-4.2
08:05:27	19.8	5.8	1.7	0.0	0.0	-0.1	238.2	-4.2
08:05:37	19.8	5.8	1.8	0.0	0.0	-0.1	238.3	-4.2
08:05:47	19.8	5.8	1.7	0.0	0.0	-0.1	238.2	-4.2
Avg.=	19.8	5.8	1.8	0.1	-0.0	-0.1	238.2	-4.2

[illegible]

Public Technical and Process Engineering Data,
Confidential Calculations Manufacturing Data
Standard Oil
Cleveland,O.

Reference Only Date

Data Printed = 10-04-1991 Current Time = 13:11:10

File Name = D:\DEMOFILE.DAT Calculation Filename:DEMOFILE.CAL

Description	Oil	TAC	Oil	Oil	Oil	Oil	Oil	Oil
Time	W	Oil	Oil	Oil	W	Oil	Oil	Oil
01/01/1	1.8	1.8	1.8	1.1	-0.1	1.1	879.8	-4.1
01/01/1	1.7	1.8	1.7	1.1	-0.1	1.1	882.8	-4.1
01/01/1	1.8	0.4	1.8	1.1	-0.1	1.8	874.8	-4.1
01/01/1	1.8	1.8	1.8	1.1	-0.1	1.7	888.1	-4.1
01/01/1	1.7	1.8	1.8	1.1	-0.1	1.8	915.8	-4.1
01/01/1	1.8	1.1	1.7	1.1	-0.1	1.8	889.8	-4.1
01/01/1	1.8	1.8	1.8	1.1	-0.1	1.1	885.8	-4.1
01/01/1	1.8	1.8	1.8	1.1	-0.1	-0.1	845.1	-4.1
01/01/1	1.8	1.8	1.8	1.1	-0.1	-0.1	814.8	-4.1
01/01/1	1.8	1.8	1.8	1.1	-0.1	-0.1	822.8	-4.1
01/01/1	1.8	1.8	1.7	1.1	-0.1	-0.1	852.1	-4.1
01/01/1	1.7	1.8	1.8	1.1	-0.1	-0.1	858.8	-4.1
01/01/1	1.8	1.8	1.8	1.1	-0.1	-0.1	802.1	-4.1
01/01/1	1.8	0.4	1.7	1.1	-0.1	-0.1	836.1	-4.1
01/01/1	1.8	0.1	1.8	1.1	-0.1	-0.1	765.1	-4.1
01/01/1	1.8	0.1	1.8	1.1	-0.1	-0.1	722.1	-4.1
Avg.s	1.8	1.4	1.8	1.1	-0.1	0.4	502.1	-4.1

[illegible]

[illegible]

[illegible]

Instr.	Name	Units	Zero		Span		Slope	Int.
			Zero	Resp.	Conc.	Resp.		
1	O2	%	1.01	1.1064	21.00	1.085	227.778	0.64
2	THC	ppmv	1.00	0.0514	97.61	5.777	18.252	-0.54
3	SO2	mmV	1.00	-.1017	50.10	1.741	250.551	0.33
4	CO	mmV	1.00	-.1026	38.70	1.725	95.733	-0.27
5	CO2	%	1.00	-.1051	15.00	1.091	187.141	0.76
6	NOx	ppmv	1.00	.1054	99.70	5.771	9.592	-0.05
7	HCl	mmv	..	-.1077	559.10	1.087	3850.552	64.61
8	Hg	ug/m3	1.00	.1061	1.00	1.000	1.000	0.00
9			1.00	0.0000	.00	1.000	1.000	0.00
10			1.00	.....	.00	1.000	1.000	1.00
11			1.00	.....	.00	1.000	1.000	1.00
12			1.00	.....	.00	1.000	1.000	1.00
13			1.00	.....	.00	1.000	1.000	1.00
14			1.00	.....	.00	1.000	1.000	1.00

Fe Cal O2

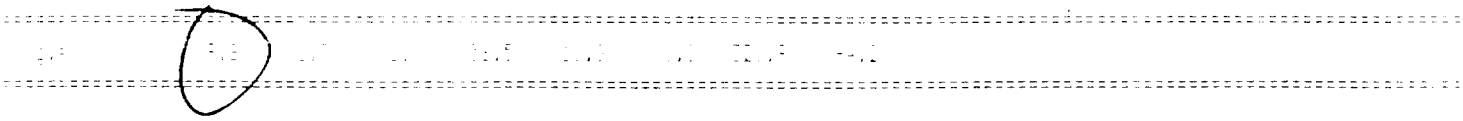
Press Shift-Prtsc to Print Out Table
Press [illegible] to Continue

[illegible]

[illegible]

Fuel Testing and Process Engineering Dept.
10 Particle Emissions Monitoring Data
[illegible]
[illegible]
Sampling Site: [illegible]
Data Printed: 04/24/1991 Current Time: 9:52:14
Cal Data = D:\DEMDATA\091591.94w Calibration File:D:\DEMDATA\091591A.CAL

04/24/1991	O2	THC	SO2	CO	CO2	NOx	HCl	Hg
Time	%	ppmv	ppmv	ppmv	%	ppmv	ppmv	ug/m3
9:52:14	10.1	1.0	2.1	54.5	10.0	0.0	720.1	-4.2
9:52:24	9.9	1.0	2.1	54.5	10.0	0.0	719.7	-4.2
9:52:34	9.9	1.0	2.1	54.5	10.0	0.0	721.1	-4.2



[illegible] CORPORATION [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-17-1991 Current Time = 09:55:28
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\091391A.CAL

09-17-1991 Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmv	HCl ppmv	Hg ug/m3
09:55:29	5.0	1.7	1.8	18.1	3.6	0.0	365.6	-4.2
09:55:39	5.1	1.8	1.9	17.9	3.6	0.0	321.3	-4.2
09:55:49	5.1	1.7	1.9	18.0	3.6	0.0	321.6	-4.2
09:55:59	5.0	1.7	1.8	18.0	3.6	-0.0	321.8	-4.2
09:56:09	5.1	1.7	2.1	17.9	3.6	0.0	238.7	-4.2
09:56:19	5.1	1.8	2.2	17.9	3.6	0.0	267.9	-4.2
09:56:28	5.1	1.8	2.1	17.9	3.6	0.0	289.2	-4.2
09:56:38	4.9	1.9	2.0	17.9	3.6	-0.0	236.8	-4.2
09:56:48	5.1	1.9	2.0	17.9	3.6	0.0	235.5	-4.2
09:56:58	5.1	2.0	2.0	17.9	3.6	0.0	235.7	-4.2
09:57:08	5.0	2.0	2.2	17.8	3.6	-0.0	236.6	-4.2
09:57:18	5.1	2.0	1.8	17.8	3.6	0.0	236.0	-4.2
09:57:28	5.0	1.8	1.9	17.8	3.6	-0.0	235.9	-4.2
09:57:38	4.9	1.9	1.8	17.8	3.6	-0.0	236.9	-4.2
09:57:48	5.1	1.8	2.1	17.9	3.6	0.0	235.5	-4.2
Avg.=	5.0	1.8	2.0	17.9	3.6	0.0	271.0	-4.2

[illegible]

Public Testing and Process Improvement Test

Confidential Proprietary Data

[illegible]

[illegible]

Permitted for: ESA

Data Printed = [illegible] Current Time = [illegible]

File Name = D:\DEMODATA [illegible] Calibration Files:D:\DEMODATA [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Time	V1	ppmv	ppmv	ppmV	V2	ppmv	ppmV	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

BI
Run #7

Inlet

CALIBRATION SUMMARY
09-10-1991 15:24:04
CALIBRATION FILE NAME =D: CEMDATA\0910BIF.CAL

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	CO	%%	2.01	0.0064	20.00	0.088	219.755	0.60
2	THC	ppmv	0.00	0.0519	89.80	8.751	10.333	-0.54
3	SO2	ppmv	0.00	0.0047	86.00	0.347	251.187	-1.19
4	CO	ppmv	0.00	0.0044	88.90	0.929	96.119	-0.42
5	CO2	%%	0.00	-0.0052	18.00	0.091	187.234	0.93
6	NOx	ppmv	0.00	0.0049	88.00	8.900	9.927	-0.05
7	HCl	ppmv	0.00	-0.0082	839.00	0.088	8763.534	72.00
8	Hg	ug/m3	0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift+PrtSc to Print Out Table
Press C to Continue

[illegible] CORPORATION [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 16:48:23
File Name = D:\CEMDATA\091391.PPN Calibration File:D:\CEMDATA\0913BIF.CAL

HCl 386

QC's
Prior to Burn Down

Quickest Inlet

09-13-1991 Time	CO %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmv	HCl ppmv	Hg ug/m3
16:48:23	2.7	2.0	-0.5	-0.0	0.0	0.1	401.7	-4.2
16:48:33	2.7	2.1	-0.5	-0.0	0.0	0.1	401.9	-4.2
16:48:43	1.8	2.1	-0.5	-0.2	0.0	0.0	406.7	-4.2
16:48:53	1.8	2.0	-0.4	-0.1	0.0	0.0	406.4	-4.2
16:49:03	1.8	2.0	-0.5	-0.0	0.0	0.0	406.4	-4.2
16:49:13	1.8	1.9	-0.5	-0.1	0.0	0.0	406.3	-4.2
16:49:23	1.8	2.1	-0.5	-0.1	0.0	0.0	406.2	-4.2
16:49:33	1.8	2.0	-0.3	-0.1	0.0	0.0	406.5	-4.2
16:49:43	1.8	2.2	-0.4	-0.1	0.0	0.0	406.5	-4.2
16:49:53	1.8	2.0	-0.5	-0.1	0.0	0.0	406.6	-4.2
16:50:03	1.8	2.2	-0.5	-0.0	0.0	0.0	406.3	-4.2
16:50:13	1.9	2.1	-0.5	-0.0	0.0	0.0	405.7	-4.2
16:50:23	2.9	2.9	-0.6	-0.1	0.0	0.1	400.6	-4.2
16:50:33	2.0	2.5	-0.5	-0.1	0.0	0.0	404.9	-4.2
16:50:43	2.5	2.5	-0.6	-0.0	0.0	0.1	402.8	-4.2
16:50:53	1.9	2.5	-0.3	-0.1	0.0	0.0	406.3	-4.2
Avg.=	2.1	2.4	-0.5	-0.1	0.0	0.0	405.1	-4.2

[illegible]

Fuels Testing and Process Engineering Dept.

[illegible] Operational Data

[illegible]

[illegible]

Performed for: [illegible]

Date Printed = 09-17-1991 Current Time = 15:55:10

File Name = C:\DEMDATA\[illegible].[illegible] Calibration File(s): DEMDATA\[illegible]

Time	O2 (%)	T-C (DRY)	CO2 (DRY)	CO (DRY)	SO2 (%)	NOX (DRY)	-CL (DRY)	-Q (BTU/HR)
[illegible]	9.7	2.4	-0.4	56.4	10.3	0.1	558.9	-4.2
[illegible]	10.3	49.7	- .2	56.6	10.3	0.0	556.1	-4.2
[illegible]	9.9	49.7	- .2	56.7	10.3	0.0	1011.3	-4.2
[illegible]	10.2	49.7	- .2	56.8	10.3	0.1	1007.3	-4.2
[illegible]	10.2	49.7	- .2	56.7	10.3	0.1	1006.1	-4.2
[illegible]	10.3	49.7	-0.2	56.8	10.3	0.1	1005.5	-4.2
[illegible]	9.8	49.7	- .2	56.8	10.3	0.0	1012.5	-4.2
[illegible]	10.1	49.7	- .2	56.7	10.3	0.0	1017.9	-4.2
[illegible]	9.9	49.7	-0.2	56.8	10.3	0.0	1019.9	-4.2
[illegible]	9.7	49.7	-0.2	56.8	10.3	0.0	1021.1	-4.2
[illegible]	10.1	49.7	-0.2	56.9	10.3	0.0	1025.9	-4.2
[illegible]	10.2	49.7	- .2	56.8	10.3	0.0	1019.3	-4.2
[illegible]	9.9	49.7	-0.2	56.7	10.3	0.0	1010.8	-4.2
[illegible]	10.4	49.7	-0.2	56.4	10.3	0.1	1006.1	-4.2
[illegible]	10.3	49.7	-0.2	56.5	10.3	0.1	1006.8	-4.2
[illegible]	9.9	49.8	-0.2	56.2	10.3	0.0	1011.1	-4.2
[illegible]	10.3	49.8	-0.2	56.5	10.3	0.0	1009.9	-4.2
[illegible]	9.7	49.8	-0.2	56.4	10.3	0.0	1011.9	-4.2
[illegible]	10.1	49.8	-0.2	56.6	10.3	0.0	1009.1	-4.2
[illegible]	10.1	49.8	- .2	56.6	10.3	0.0	1004.2	-4.2
[illegible]	9.8	49.8	- .2	56.5	10.3	0.0	1012.5	-4.2
[illegible]	10.1	49.8	- .2	56.8	10.3	0.0	1010.1	-4.2
[illegible]	10.0	49.7	- .2	56.6	10.3	0.1	1016.0	-4.2
[illegible]	10.1	49.7	- .2	56.6	10.3	0.1	1018.6	-4.2
[illegible]	10.1	49.7	- .2	56.6	10.3	0.1	1017.0	-4.2
[illegible]	10.1	49.7	- .2	56.6	10.3	0.1	1014.8	-4.2

[illegible] CORPORATION [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 17:01:52
File Name = D:\CEMDATA\0913P1.PRN Calibration File:D:\CEMDATA\0913BIP.CAL

09-13-1991 Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmv	HCl ppmv	Hg ug/m3
17:01:57	4.8	27.7	-0.3	17.8	3.7	0.0	1015.8	-4.2
17:02:07	5.1	27.6	-0.1	17.7	3.7	0.0	1011.5	-4.2
17:02:17	4.9	27.6	-0.2	17.8	3.7	0.0	1014.3	-4.2
17:02:27	4.9	27.5	-0.3	17.8	3.7	0.0	1014.0	-4.2
17:02:37	5.3	27.6	-0.2	17.7	3.7	0.1	1009.7	-4.2
17:02:47	5.1	27.6	-0.3	17.8	3.7	0.0	1012.3	-4.2
17:02:57	4.9	27.6	-0.3	17.8	3.7	0.0	1014.2	-4.2
17:03:07	5.1	27.6	-0.2	17.7	3.7	0.0	1012.1	-4.2
17:03:17	5.3	27.6	-0.2	17.7	3.7	0.1	1010.0	-4.2
17:03:27	4.9	27.6	-0.4	17.8	3.7	0.0	1013.9	-4.2
17:03:37	4.9	27.6	-0.4	17.8	3.7	0.0	897.0	-4.2
17:03:47	5.4	27.5	-0.2	17.7	3.7	0.1	813.1	-4.2
17:03:57	5.4	27.6	-0.2	17.8	3.7	0.1	813.0	-4.2
17:04:07	5.0	27.5	-0.2	17.8	3.7	0.0	819.6	-4.2
17:04:17	5.2	27.6	-0.2	17.8	3.7	0.0	928.3	-4.2
17:04:27	5.3	27.6	-0.3	17.8	3.7	0.0	1010.3	-4.2
17:04:37	5.5	27.6	-0.1	17.7	3.7	0.1	895.7	-4.2
17:04:47	5.4	27.6	-0.2	17.8	3.7	0.1	922.5	-4.2
17:04:57	5.4	27.6	-0.3	17.8	3.7	0.1	1009.4	-4.2
17:05:07	5.3	27.6	-0.3	17.8	3.7	0.1	898.5	-4.2
17:05:17	5.1	27.6	-0.2	17.7	3.7	0.0	817.7	-4.2
17:05:27	5.0	27.7	-0.2	17.8	3.7	0.1	728.3	-4.2
17:05:37	5.2	27.6	-0.4	17.8	3.7	0.0	647.0	-4.2
17:05:47	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
17:05:57	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
17:06:07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
17:06:17	5.3	27.6	-0.2	17.7	3.7	0.0	646.5	-4.2
17:06:27	5.3	27.6	-0.2	17.7	3.7	0.1	645.6	-4.2
17:06:37	5.5	27.6	-0.2	17.8	3.7	0.1	643.3	-4.2
[illegible]	5.2	27.6	-0.3	17.7	[illegible]	0.0	869.0	-4.2

[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File: [illegible]

[illegible] Time	[illegible]	[illegible] ppmv	[illegible] ppmv	[illegible] ppmv	[illegible]	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	647.0	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	648.3	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.9	648.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.9	647.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	649.1	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	647.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	648.8	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	648.2	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	649.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.8	648.1	-4.2

NOx = 41
SO2 = 30

RADIAN CORPORATION

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
ALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 17:12:15
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BIF.CAL

09-13-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
17:12:21	0.6	2.4	29.1	0.2	-0.1	49.1	644.7	-4.2
17:12:31	0.6	2.7	29.1	0.2	-0.1	49.3	644.2	-4.2
17:12:41	0.6	2.8	29.1	0.2	-0.1	49.2	644.9	-4.2
17:12:51	0.5	2.7	29.3	0.2	-0.1	49.4	644.7	-4.2
17:13:01	0.5	2.5	29.4	0.2	-0.1	49.3	644.6	-4.2
17:13:11	0.5	2.5	29.4	0.2	-0.1	49.3	644.4	-4.2
17:13:21	0.5	2.4	29.5	0.2	-0.1	49.4	644.4	-4.2
17:13:31	0.5	2.4	29.5	0.2	-0.1	49.4	644.5	-4.2
17:13:41	0.5	2.4	29.6	0.2	-0.1	49.3	644.5	-4.2
17:13:51	0.6	2.4	29.3	0.2	-0.1	49.3	644.4	-4.2
17:14:01	0.6	2.4	29.3	0.2	-0.1	49.3	644.4	-4.2
17:14:10	0.6	2.5	29.6	0.2	-0.1	49.4	644.5	-4.2
Avg.=	0.6	2.7	29.3	0.2	-0.1	49.3	644.5	-4.2

[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = [illegible] Current Time = 17:18:22
File Name = D:\CEMDATA\[illegible] Calibration File:D:\CEMDATA\[illegible]

[illegible] Time	CO %	THC ppm	SO2 ppm	CO ppm	CO2 %	NOx ppm	HCl ppm	Hg ug/m3
17:18:22	9.7	2.7	-0.2	47.7	8.8	0.1	644.1	-4.3
17:18:32	9.4	2.6	-0.1	47.7	8.8	0.1	649.0	-4.2
17:18:42	9.2	2.5	-0.2	47.7	8.8	0.0	651.3	-4.2
17:18:52	9.6	2.5	-0.2	47.7	8.8	0.1	646.5	-4.2
17:19:02	9.5	2.5	-0.4	47.7	8.8	0.1	647.1	-4.2
17:19:12	9.4	2.5	-0.2	47.8	8.8	0.1	646.1	-4.2
17:19:22	9.4	2.5	-0.2	47.9	8.8	0.1	646.6	-4.2
17:19:32	9.5	2.5	-0.2	47.9	8.8	0.1	646.7	-4.2
17:19:42	9.5	2.5	-0.1	47.7	8.8	0.1	647.1	-4.2
17:19:52	9.2	2.4	-0.1	47.6	8.8	0.0	648.9	-4.2
17:20:02	9.6	2.4	-0.4	47.7	8.8	0.1	645.4	-4.2
A.g.=	9.5	2.5	-0.2	47.7	8.8	0.1	647.6	-4.2

Run # 7
BO
Pre CAL

CALIBRATION SUMMARY
09-13-1991 07:24:34
CALIBRATION FILE NAME =D:\CEMDATA\0913BO.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.01	0.7964	20.00	8.071	2.473	0.04
2	THC	PPM	0.00	-.0499	200.00	8.755	22.715	1.13
3	SO2	ppmV	0.00	0.0038	86.00	0.184	477.305	-1.84
4	CO	ppmV	0.00	0.0083	88.90	0.882	101.699	-0.84
5	CO2	%V	0.00	0.0020	18.00	0.092	200.664	-0.40
6	NOx	ppmV	0.00	0.0073	88.30	8.799	10.044	-0.07
7	HCl	ppmV	0.00	0.0269	107.00	0.543	207.336	-5.58
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-Prtsc to Print Out Table
Press [illegible] to Continue

RADIAN CORPORATION QC'S BEGIN SO2=30 NOX=49

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 07:27:54
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
07:28:09	0.1	1.9	31.6	0.1	-0.0	48.7	38.4	-4.5
07:28:19	0.1	2.1	31.4	-1.2	-0.0	48.7	40.6	-4.4
07:28:29	0.1	2.1	31.6	-0.5	-0.0	48.7	40.3	-4.4
07:28:39	0.1	2.0	31.6	0.1	-0.1	48.7	38.6	-4.4
07:28:49	0.1	2.0	31.7	0.1	-0.1	48.7	43.7	-4.4
07:28:59	0.1	2.0	31.7	0.1	-0.1	48.7	48.0	-4.4
07:29:09	0.1	1.9	31.5	-0.5	-0.1	48.7	50.5	-4.4
07:29:19	0.1	2.0	31.6	-0.7	-0.1	48.7	45.2	-4.4
Avg.=	0.1	2.0	31.6	-0.3	-0.0	48.7	43.2	-4.4

RADIAN CORPORATION 02=2.01

BU

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 16:48:31
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BOF.CAL

Outlet

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
16:48:42	2.0	4.3	-1.4	-0.3	-0.0	0.2	6.5	-4.4
16:49:42	2.0	5.3	-1.4	-0.1	-0.0	0.2	9.5	-4.4
16:50:42	2.0	5.4	-1.4	0.2	-0.0	0.2	8.7	-4.4
Avg.=	2.0	5.0	-1.4	-0.1	-0.0	0.2	8.2	-4.4

QC's prior to Burn down

Post Run #7

Nox Monitor gas down ≈ 1700

RADIAN CORPORATION

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 16:56:20
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BOF.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
16:56:41	9.9	110.8	-1.3	58.4	10.1	0.2	165.0	-4.4
16:57:41	9.9	110.7	-1.4	58.0	10.1	0.2	106.6	-4.4
16:58:41	9.9	110.9	-1.3	58.2	10.1	1.0	176.0	-4.4
Avg.=	9.9	110.8	-1.3	58.2	10.1	0.4	149.2	-4.4

RADIAN CORPORATION 02=4.99 CO2=5.02 CO=19.9 ~~CH4=87.6~~

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 17:02:21
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BOF.CAL

No THC on outlet During entire test

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
17:02:22	5.0	61.2	-1.6	18.7	5.1	0.2	206.6	-4.5
17:02:32	5.0	61.3	-1.7	18.2	5.1	0.2	206.7	-4.4
17:02:42	5.0	61.3	-1.7	17.9	5.1	0.2	175.5	-4.4
17:02:52	5.0	61.4	-1.6	18.5	5.1	0.2	185.6	-4.4
17:03:02	5.0	61.3	-1.9	19.2	5.1	0.2	160.3	-4.4
17:03:12	5.0	61.3	-1.5	19.1	5.1	0.2	144.8	-4.4
17:03:22	5.0	61.4	-2.0	18.7	5.1	0.2	144.8	-4.4
17:03:32	5.0	61.4	-1.9	18.0	5.1	0.2	134.8	-4.4
17:03:41	5.0	61.3	-1.6	18.2	5.1	0.2	154.4	-4.4
17:03:51	5.0	61.3	-1.5	18.7	5.1	0.2	180.5	-4.4
17:04:01	5.0	61.3	-1.3	19.2	5.1	0.2	195.9	-4.4
17:04:11	5.0	61.2	-1.8	19.0	5.1	0.2	181.6	-4.4
17:04:21	5.0	61.3	-1.7	18.5	5.1	0.2	165.6	-4.4
17:04:31	5.0	61.4	-1.4	18.3	5.1	0.2	184.5	-4.4
17:04:41	5.0	61.3	-1.9	18.1	5.1	0.2	201.2	-4.4
17:04:51	5.0	61.4	-1.8	18.3	5.1	0.2	186.6	-4.4
17:05:01	5.0	61.4	-2.0	19.2	5.1	0.2	118.8	-4.4
17:05:11	5.0	61.4	-1.9	18.8	5.1	0.2	85.5	-4.4
17:05:21	5.0	61.4	-1.6	18.7	5.1	0.2	83.1	-4.4
17:05:31	5.0	61.4	-1.5	18.4	5.1	0.2	83.1	-4.4
17:05:41	5.0	61.4	-1.7	18.3	5.1	0.2	78.9	-4.4
17:05:51	5.0	61.3	-1.7	18.3	5.1	0.2	69.4	-4.4
17:06:01	5.0	61.4	-1.7	18.8	5.1	0.2	72.5	-4.4
17:06:11	5.0	61.3	-1.6	19.1	5.1	0.2	68.9	-4.4
17:06:21	5.0	61.3	-1.7	18.7	5.1	0.2	72.5	-4.4
17:06:30	5.0	61.3	-1.3	18.9	5.1	0.2	73.9	-4.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RADIAN CORPORATION SO2=24.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 17:08:59
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BOF.CAL

09-13-1991 Time ___	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
17:09:00	0.1	-0.3	24.2	0.9	0.0	0.2	73.0	-4.4
17:09:10	0.1	-0.1	24.3	1.9	0.0	0.2	69.3	-4.4
17:09:20	0.1	-0.3	24.2	1.7	0.0	0.2	76.7	-4.4
17:09:30	0.1	-0.2	24.3	0.9	0.0	0.2	74.1	-4.4
17:09:40	0.1	-0.2	24.1	0.9	-0.0	0.2	77.6	-4.4
17:09:50	0.1	-0.2	24.3	0.9	-0.0	0.2	74.1	-4.4
17:10:00	0.1	-0.2	24.3	0.7	0.0	0.2	61.4	-4.4
17:10:10	0.1	-0.1	24.3	1.3	-0.0	0.2	70.3	-4.4
17:10:20	0.1	-0.3	24.1	1.7	-0.0	0.2	77.4	-4.4
Avg.=	0.1	-0.2	24.3	1.2	0.0	0.2	72.7	-4.4

RADIAN CORPORATION SO2=30

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 17:12:07
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BOF.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
17:12:09	0.1	5.3	30.3	1.3	0.0	0.2	104.6	-4.5
17:12:19	0.1	5.3	30.7	2.0	-0.0	0.2	84.9	-4.4
17:12:29	0.1	6.1	30.3	2.0	-0.0	0.2	71.6	-4.4
17:12:39	0.1	9.5	30.6	1.2	-0.0	0.2	78.7	-4.4
17:12:49	0.0	6.1	30.6	1.2	-0.0	0.2	87.4	-4.4
17:13:04	0.0	5.5	30.7	1.3	-0.0	0.2	92.3	-4.4
17:13:14	0.0	5.3	30.4	1.5	-0.0	0.2	74.2	-4.4
17:13:24	0.0	5.2	30.8	2.0	-0.0	0.2	82.9	-4.4
17:13:34	0.0	5.2	30.5	1.9	-0.0	0.2	98.2	-4.4
17:13:44	0.0	5.1	30.8	1.7	-0.0	0.2	91.7	-4.4
17:13:54	0.0	5.2	30.5	1.4	-0.0	0.2	82.3	-4.4
17:14:04	0.0	5.3	30.5	1.0	-0.0	0.2	79.4	-4.4
17:14:14	0.0	5.4	30.7	1.5	-0.0	0.2	86.0	-4.4
17:14:24	0.0	5.4	30.7	2.0	-0.0	0.2	98.3	-4.4
Avg.=	0.0	5.7	30.6	1.6	-0.0	0.2	86.6	-4.4

RADIAN CORPORATION 02=10 CO2=8 CO=44

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-13-1991 Current Time = 17:18:38
File Name = D:\CEMDATA\091391.PPM Calibration File:D:\CEMDATA\0913BOF.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
17:18:39	10.0	5.2	-0.9	43.8	9.1	0.2	63.1	-4.4
17:18:49	10.0	5.1	-1.2	44.4	9.1	0.2	63.1	-4.4
17:18:59	10.0	5.1	-1.2	43.9	9.1	0.2	69.5	-4.4
17:19:09	10.0	5.1	-1.2	43.3	9.1	0.2	73.0	-4.4
17:19:19	10.0	5.2	-1.2	43.5	9.1	0.2	70.0	-4.4
17:19:28	10.0	5.2	-1.1	44.4	9.1	0.2	64.9	-4.4
17:19:38	10.0	5.2	-1.4	44.6	9.1	0.2	56.6	-4.4
17:19:48	10.0	5.0	-1.4	45.0	9.2	0.2	56.5	-4.4
17:19:58	10.0	4.9	-1.6	44.6	9.1	0.2	74.1	-4.4
Avg.=	10.0	5.1	-1.3	44.2	9.1	0.2	65.7	-4.4

CALIBRATION SUMMARY
[illegible]
CALIBRATION FILE NAME [illegible]

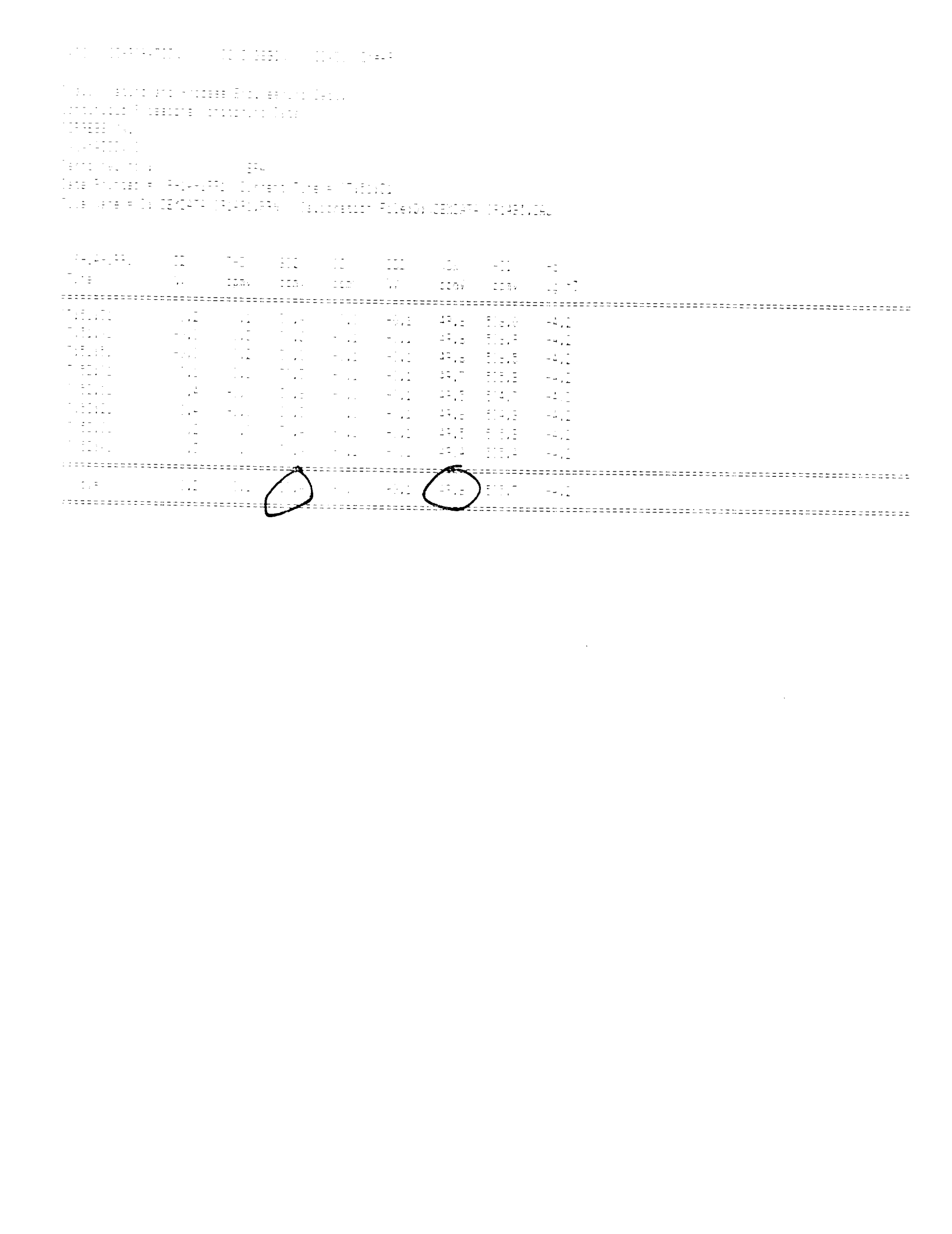
Chan.	Name	Units	Demo Conc.	Demo Resp.	Span Conc.	Span Resp.	Slope	Int.
[illegible]	[illegible]	[illegible]	1.99	[illegible]	[illegible]	[illegible]	225.861	0.53
[illegible]	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.19
[illegible]	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	250.783	-0.73
[illegible]	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.66
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	186.997	0.99
[illegible]	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	[illegible]	8736.006	70.31
[illegible]	[illegible]	ug/m3	[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]
[illegible]			[illegible]	[illegible]	[illegible]	[illegible]	1.000	[illegible]

~~Burner~~
~~for Burner~~

BI
Run #8
Pre CALS
Inlet

Nox monitor is sampling at ~~[illegible]~~ outlet. No Nox at inlet 9/13/91 ≈ 1700pm thru test

Press [illegible] to Print Out Table
Press [illegible] to Continue



[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 07:57:00
File Name = D:\DEMDATA\091491.PPM Calibration File:D:\DEMDATA\091491.CAL

09-14-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmV	HCl ppmV	Hg ug/m3
07:57:00	0.3	-0.1	23.9	-0.3	-0.1	22.5	460.6	-4.2
07:57:10	0.3	-0.0	23.8	-0.2	-0.1	22.6	410.6	-4.2
07:57:20	0.1	0.0	23.6	-0.3	-0.1	23.0	411.5	-4.2
07:57:30	0.1	0.0	23.6	-0.4	-0.1	23.0	411.6	-4.2
07:57:40	0.2	-0.0	23.6	-0.4	-0.1	23.0	411.1	-4.2
07:57:50	0.2	0.0	23.6	-0.2	-0.1	23.2	411.2	-4.2
07:58:00	0.3	-0.1	23.9	-0.2	-0.1	23.6	410.4	-4.2
07:58:10	0.3	-0.1	23.9	-0.3	-0.1	23.6	410.5	-4.2
07:58:20	0.1	0.0	23.9	-0.4	-0.1	23.6	411.6	-4.2
07:58:30	0.4	-0.1	24.1	-0.3	-0.1	23.6	410.2	-4.2
07:58:39	0.3	-0.1	24.1	-0.3	-0.1	23.7	410.8	-4.2
07:58:49	0.1	0.0	23.7	-0.4	-0.1	23.8	411.5	-4.2
07:58:59	0.2	-0.0	23.8	-0.2	-0.1	23.8	410.9	-4.2
07:59:09	0.4	-0.1	24.0	-0.3	-0.1	23.8	410.1	-4.2
Avg.=	0.2	-0.0	23.8	-0.3	-0.1	23.4	414.5	-4.2

[illegible]

[illegible] Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
[illegible]
[illegible]

[illegible]								
[illegible]	[illegible]	THC	[illegible]	[illegible]	[illegible]	NOx	HCl	Hg
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	411.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.0	399.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.1	410.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	426.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.1	491.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.3	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	410.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.3	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	410.3	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.4	422.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24.4	496.2	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	411.1	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.1	9.5	410.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5.1	4.3	409.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	417.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.4	20.4	[illegible]	-4.2

Run # 0
Post test Cal
BI

CALIBRATION SUMMARY
[illegible]
CALIBRATION FILE NAME [illegible]

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	[illegible]	[illegible]	1.99	0.0061	[illegible]	0.089	217.979	0.67
2	THC	ppmV	0.00	[illegible]	[illegible]	8.844	10.219	-0.58
3	[illegible]	ppmV	0.00	[illegible]	[illegible]	0.341	252.924	-0.32
4	[illegible]	ppmV	0.00	[illegible]	88.90	0.931	96.240	-0.72
5	[illegible]	[illegible]	0.00	-.0053	13.00	0.091	187.218	0.99
6	NOx	ppmV	0.00	0.0288	88.30	9.044	9.794	-0.28
7	HCl	ppmV	0.00	-.0029	839.00	0.087	9345.911	27.20
8	Hg	ug/m3	0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press (C) to Continue

[illegible] CORPORATION [illegible] [illegible] [illegible] [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 18:05:39
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\091491.CAL

HCl 386
PCE TST
QA's

Inlet

09-14-1991 Time	O2 %	THC ppmV	SO2 ppmV	CO ppmV	CO2 %	NOx ppmV	HCl ppmV	Hg ug/m3
8:02:40	10.4	48.2	0.3	56.5	10.5	0.2	406.7	-4.2
8:05:50	10.3	48.7	0.3	56.4	10.6	0.2	405.2	-4.2
8:05:59	10.2	48.7	0.3	56.7	10.6	0.2	405.6	-4.2
8:06:19	10.2	48.7	0.3	56.5	10.6	0.2	405.2	-4.2
8:06:29	10.2	48.8	0.5	56.7	10.6	0.2	405.8	-4.2
8:06:39	10.2	48.7	0.4	56.7	10.6	0.2	405.8	-4.2
8:06:49	10.2	48.7	0.3	56.2	10.6	0.2	407.2	-4.2
8:06:59	10.2	48.7	0.3	56.2	10.6	0.2	421.6	-4.2
8:07:09	10.2	48.7	0.4	56.9	10.6	0.2	405.9	-4.2
8:07:19	10.2	48.8	0.4	56.8	10.6	0.2	406.7	-4.2
8:07:29	10.2	48.8	0.3	56.4	10.6	0.2	407.3	-4.2
8:07:39	10.2	48.8	0.4	56.4	10.6	0.2	424.8	-4.2
8:07:49	10.2	48.5	0.5	56.8	10.6	0.2	405.8	-4.2
8:07:59	10.2	48.5	0.4	56.7	10.6	0.2	405.7	-4.2
8:08:09	10.2	48.5	0.5	56.8	10.6	0.2	405.1	-4.2
8:08:19	10.2	48.4	0.6	56.5	10.6	0.2	428.8	-4.2
8:08:29	10.1	48.5	0.3	56.3	10.6	0.2	406.1	-4.2
8:08:39	10.1	48.5	0.2	56.4	10.6	0.2	405.7	-4.2
8:08:49	10.1	48.6	0.5	56.6	10.6	0.2	405.6	-4.2
8:08:59	10.1	48.6	0.6	56.7	10.6	0.2	405.8	-4.2
8:09:09	10.1	48.6	0.4	56.5	10.6	0.2	405.6	-4.2
8:09:19	10.1	48.6	0.3	56.4	10.6	0.2	405.6	-4.2
8:09:29	10.1	48.6	0.4	56.5	10.6	0.2	423.2	-4.2
8:09:39	10.1	48.6	0.4	56.7	10.6	0.2	422.4	-4.2
8:09:49	10.1	48.6	0.4	56.8	10.6	0.2	405.6	-4.2
8:09:59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8:10:09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8:10:19	10.1	48.4	0.4	56.5	10.6	0.2	476.2	-4.2
8:10:29	10.1	48.5	0.4	56.7	10.6	0.2	406.1	-4.2
8:10:39	10.1	48.5	0.5	56.9	10.6	0.2	478.3	-4.2
8:10:49	10.1	48.5	0.4	56.7	10.6	0.2	474.1	-4.2
Avg	10.2	48.4	0.4	56.5	10.6	0.2	411.9	-4.2

[illegible]

Field Testing and Process Engineering Dept.
[illegible] Stationary Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Data Printed = 09-14-1991 Current Time = [illegible]
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\091481.CAL

9-14-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
8:14:00	9.3	0.3	0.3	43.5	9.0	0.2	506.0	-4.2
8:14:10	9.2	0.3	0.6	43.7	9.0	0.2	506.1	-4.2
8:14:20	9.4	0.3	0.5	43.6	9.0	0.2	505.9	-4.2
8:14:30	9.5	0.3	0.1	43.6	9.0	0.2	505.6	-4.2
8:14:40	9.3	0.4	0.4	43.6	9.0	0.2	506.1	-4.2
8:14:50	9.4	0.3	0.2	43.7	9.0	0.2	505.9	-4.2
8:15:0[illegible]	9.3	0.4	0.3	43.8	9.0	0.2	348.3	-4.2
8:15:1[illegible]	9.2	0.3	0.5	43.4	9.0	0.2	399.6	-4.2
8:15:20	9.5	0.3	0.1	43.7	9.0	0.2	492.3	-4.2
8:15:30	9.6	0.4	0.3	43.6	9.0	0.2	505.4	-4.2
8:15:40	9.3	0.5	0.4	43.6	9.0	0.2	506.1	-4.2
8:15:50	9.5	0.5	0.5	43.7	9.0	0.2	505.5	-4.2
8:15:59	9.5	0.5	0.6	43.5	9.0	0.2	505.7	-4.2
Avg.=	9.4	0.4	0.4	43.6	9.0	0.2	484.5	-4.2

[illegible]

Field Testing and Process Engineering Dept.
Particulate Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = [illegible]
File Name = [illegible]

[illegible] Time	[illegible]	[illegible]	SO2	CO	CO2	NOx	HCl	PM
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

RADIAN CORPORATION [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 08:23:06
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\091491.CAL

09-14-1991 Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmV	CO2 %V	NOx ppmV	HCl ppmv	Hg dg/m3
08:23:09	5.2	26.9	0.2	17.5	3.8	0.2	838.4	-4.2
08:23:19	5.2	27.0	0.3	17.6	3.8	0.2	837.7	-4.2
08:23:29	5.2	26.9	0.4	17.5	3.8	0.2	838.2	-4.2
08:23:39	5.2	26.9	0.3	17.5	3.8	0.2	838.2	-4.2
08:23:49	5.2	26.9	0.2	17.5	3.8	0.2	838.1	-4.2
08:23:59	5.2	26.8	0.5	17.6	3.8	0.2	838.2	-4.2
08:24:09	5.2	26.9	0.5	17.6	3.8	0.2	838.0	-4.2
08:24:19	5.2	26.8	0.3	17.6	3.8	0.2	838.0	-4.2
08:24:29	5.2	26.8	0.4	17.6	3.8	0.2	837.9	-4.2
08:24:39	5.2	26.8	0.3	17.5	3.8	0.2	838.0	-4.2
08:24:49	5.2	26.9	0.1	17.5	3.8	0.2	838.1	-4.2
08:24:59	5.2	26.9	0.1	17.6	3.8	0.2	838.2	-4.2
08:25:09	5.2	27.0	0.4	17.7	3.8	0.2	838.1	-4.2
08:25:19	5.2	26.9	0.3	17.7	3.8	0.2	838.2	-4.2
08:25:29	5.2	27.0	0.5	17.6	3.8	0.2	838.2	-4.2
08:25:39	5.1	18.7	0.5	17.6	4.8	0.5	838.3	-4.2
08:25:48	4.8	3.4	0.5	18.7	8.2	0.3	835.0	-4.2
08:25:58	4.9	0.9	0.5	24.9	8.8	0.2	834.6	-4.2
08:26:08	5.8	3.2	0.6	33.4	5.4	1.2	834.9	-4.2
Avg.=	5.2	22.6	0.4	18.9	4.4	0.3	837.6	-4.2

RADIAN CORPORATION CH4=5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
GORGES MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 08:26:26
File Name = D:\CEMDATA\091491.PSN Calibration File:D:\CEMDATA\091481.CAL

09-14-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
08:26:28	9.2	6.1	0.6	32.6	-0.1	0.4	834.4	-4.3
08:26:38	11.5	5.8	0.5	14.9	-0.0	0.3	834.5	-4.2
08:26:48	15.4	5.5	0.3	5.2	-0.0	0.3	834.7	-4.2
08:26:58	18.7	5.6	0.3	1.2	0.0	0.3	834.7	-4.2
08:27:08	20.1	5.6	0.3	0.1	0.0	0.3	834.6	-4.2
08:27:18	20.5	5.6	0.3	-0.1	0.0	0.3	834.5	-4.2
08:27:28	20.6	5.6	0.3	-0.2	0.0	0.3	834.6	-4.2
08:27:38	20.6	5.6	0.2	-0.2	0.0	0.3	723.2	-4.2
08:27:48	20.7	5.6	0.4	-0.2	0.0	0.3	671.0	-4.2
08:27:58	20.6	5.6	0.3	-0.3	0.0	0.3	616.4	-4.2
08:28:08	20.6	5.6	0.1	-0.2	0.0	0.3	414.4	-4.2
08:28:18	20.6	5.6	0.4	-0.3	0.0	0.3	324.2	-4.2
08:28:28	20.6	5.5	0.2	-0.2	0.0	0.3	269.3	-4.2
08:28:37	20.6	5.6	0.3	-0.2	0.0	0.3	294.5	-4.2
08:28:47	20.5	5.6	0.3	-0.3	0.0	0.3	270.3	-4.2
08:28:57	20.5	5.6	0.2	-0.3	0.0	0.3	239.7	-4.2
08:29:07	20.5	5.6	0.1	-0.3	0.0	0.3	292.2	-4.2
08:29:17	20.5	5.6	-0.0	-0.2	0.0	0.3	324.1	-4.2
08:29:27	20.4	5.6	0.2	-0.2	0.0	0.3	324.0	-4.2
08:29:37	20.4	5.5	0.5	-0.3	-0.0	0.3	324.1	-4.2
08:29:47	20.3	5.5	0.3	-0.3	-0.1	0.4	323.9	-4.2
08:29:57	20.2	5.6	0.2	0.1	-0.1	1.0	324.1	-4.2
08:30:07	20.1	5.9	0.5	1.1	-0.1	3.9	324.3	-4.2
08:30:17	20.0	5.8	1.2	2.3	-0.0	0.4	324.3	-4.2
08:30:27	19.9	5.6	0.8	1.5	-0.0	0.2	324.4	-4.2
Avg:	20.1	5.6	0.3	2.2	-0.0	0.5	502.0	-4.2

FABIAN CORPORATION O2=4.9% CO2=5.1% CO=19.0%

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 08:35:05
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BI.CAL

09-14-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
08:35:07	4.4	0.0	0.5	19.1	3.8	0.1	326.7	-4.2
08:35:17	4.5	0.0	0.3	18.9	3.8	0.1	326.2	-4.2
08:35:27	4.6	-0.0	0.5	18.9	3.8	0.1	325.7	-4.2
08:35:37	4.6	-0.0	0.1	19.1	3.8	0.1	325.9	-4.2
08:35:47	4.6	-0.0	0.4	19.1	3.8	0.1	325.8	-4.2
08:35:57	4.7	-0.0	0.0	19.0	3.8	0.1	325.2	-4.2
08:36:07	4.5	0.0	0.2	18.9	3.8	0.1	326.2	-4.2
08:36:18	4.7	-0.1	0.3	19.0	3.8	0.1	325.4	-4.2
08:36:28	4.6	-0.0	0.0	19.0	3.8	0.1	326.0	-4.2
08:36:38	4.6	-0.0	0.3	19.0	3.8	0.1	325.9	-4.2
08:36:48	4.6	-0.0	0.3	19.0	3.8	0.1	325.8	-4.2
08:36:58	4.7	-0.0	0.3	19.0	3.8	0.1	325.4	-4.2
08:37:08	4.5	0.1	0.4	19.0	3.8	0.1	327.0	-4.2
Avg.=	4.6	-0.0	0.3	19.0	3.8	0.1	325.9	-4.2

re-cal
HCl

CALIBRATION SUMMARY
09-14-1991 09:20:42
CALIBRATION FILE NAME =D:\CEMDATA\0914BIF.CAL

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%V	1.99	0.0065	20.00	0.086	225.861	0.53
2	THC	ppmV	0.00	0.0182	89.80	8.795	10.231	-0.19
3	SO2	ppmV	0.00	0.0029	86.00	0.346	250.788	-0.73
4	CO	ppmV	0.00	0.0068	88.90	0.925	96.815	-0.66
5	CO2	%V	0.00	-.0053	18.00	0.091	186.997	0.99
6	NOx	ppmV	0.00	0.0021	88.30	8.858	9.970	-0.02
7	HCl	ppmV	0.00	-.0029	839.00	0.088	9266.473	26.97
8	Hg	ug/m3	0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

recal
HCl

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION HCL=206

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 09:21:56
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BIF.CAL

09-14-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
09:21:59	15.2	4.8	-0.7	23.4	-0.0	0.4	208.2	-4.2
09:22:09	15.2	4.6	-0.7	22.9	-0.1	0.4	208.6	-4.2
09:22:19	15.2	4.6	-0.6	23.2	-0.1	0.4	208.7	-4.2

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9:22:58	14.5	4.4	-0.5	23.1	-0.1	0.3	208.2	-4.2
9:27:03	14.1	4.4	-0.5	23.6	-0.1	0.3	208.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9:32:28	13.5	4.4	-0.6	23.4	-0.1	0.3	208.7	-4.2
9:37:03	12.6	5.0	-0.6	23.1	-0.1	0.3	208.9	-4.2
Avg.=	14.5	4.6	-0.6	23.4	-0.1	0.4	208.6	-4.2

RADIAN CORPORATION HDL=206

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
SORGEE MWI
.ALAMA2DD.MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 09:23:49
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\09148IF.CAL

09-14-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
09:23:50	13.7	5.2	-0.8	23.0	-0.0	0.3	208.6	-4.2
09:24:00	13.6	4.8	-0.5	22.8	-0.0	0.3	208.5	-4.2
09:24:10	14.1	4.7	-0.5	22.5	-0.1	0.3	208.7	-4.2
09:24:20	14.4	4.6	-0.7	22.5	-0.1	0.3	208.5	-4.2
09:24:30	14.7	4.5	-0.9	22.5	-0.1	0.3	208.7	-4.2
09:24:40	14.9	4.5	-0.8	22.6	-0.1	0.3	209.0	-4.2
09:24:49	15.2	4.5	-0.6	22.7	-0.1	0.3	208.8	-4.2
09:24:59	15.3	4.5	-0.5	22.8	-0.1	0.3	209.0	-4.2
09:25:09	15.3	4.5	-0.7	23.1	-0.1	0.3	208.7	-4.2
09:25:19	15.3	4.5	-0.6	23.2	-0.1	0.3	208.7	-4.2
Avg.=	14.7	4.6	-0.6	22.8	-0.1	0.3	208.7	-4.2

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
SORGESS MWI
ALAMA2CO.MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 09:27:41
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BIF.CAL

09-14-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
09:27:42	15.1	4.5	-0.7	24.9	-0.1	0.2	385.3	-4.2
09:27:52	15.2	4.6	-0.6	24.3	-0.0	0.2	384.9	-4.2
09:28:02	15.2	4.5	-0.8	24.1	-0.1	0.2	385.5	-4.2
09:28:12	15.3	4.6	-0.3	23.9	-0.1	0.2	385.6	-4.2
09:28:22	15.3	4.5	-0.5	23.9	-0.1	0.2	385.5	-4.2
09:28:32	15.4	4.4	-0.6	23.6	-0.1	0.2	385.4	-4.2
09:28:42	15.4	4.3	-1.3	23.7	-0.1	0.2	385.8	-4.2
09:28:52	15.5	4.4	-0.7	23.5	-0.1	0.2	489.0	-4.2
09:29:02	15.6	4.3	-0.8	23.4	-0.1	0.2	385.3	-4.2
09:29:12	15.7	4.4	-0.8	23.4	-0.1	0.2	385.7	-4.2
09:29:22	15.8	4.5	-0.7	23.2	-0.1	0.2	385.9	-4.2
09:29:31	15.9	4.5	-0.6	23.1	-0.1	0.2	385.8	-4.2
09:29:41	16.0	4.5	-0.7	23.0	-0.1	0.2	385.2	-4.2
09:29:51	16.0	4.4	-0.8	23.0	-0.1	0.2	386.0	-4.2
09:30:01	15.8	4.5	-0.7	23.0	-0.1	0.2	385.9	-4.2
Avg.=	15.6	4.5	-0.7	23.6	-0.1	0.2	392.5	-4.2

[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
Sorgasse Fuel
ALAMEDA,NJ
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 09:58:25
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\091415IF.CAL

09-14-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
09:57:20	2.2	1.7	-0.8	1.5	-0.0	0.2	296.6	-4.2
09:57:25	2.7	1.7	-0.8	1.5	-0.0	0.1	292.3	-4.2
09:57:30	1.7	1.7	-0.7	1.5	-0.0	0.1	310.7	-4.2
09:57:35	1.7	1.7	-0.8	1.5	-0.0	0.1	311.1	-4.2
09:57:40	1.7	1.7	-0.8	1.4	-0.0	0.1	311.5	-4.2
09:57:45	1.8	1.8	-0.8	1.4	-0.0	0.1	309.7	-4.2
09:57:50	1.8	1.8	-0.8	1.4	-0.0	0.1	310.1	-4.2
09:57:55	1.8	1.8	-0.7	1.4	-0.0	0.1	304.4	-4.2
09:58:00	1.8	1.8	-0.8	1.4	-0.0	0.1	295.8	-4.2
09:58:05	1.8	1.8	-0.8	1.5	-0.0	0.1	299.7	-4.2
09:58:10	1.8	1.8	-0.7	1.5	-0.0	0.1	299.7	-4.2
09:58:15	1.7	1.8	-0.8	1.4	-0.0	0.0	323.0	-4.2
09:58:20	1.8	1.8	-0.8	1.5	-0.0	0.0	363.5	-4.2
09:58:25	1.8	1.4	-0.7	1.5	-0.0	0.0	299.7	-4.2
09:58:30	1.9	1.4	-0.7	1.4	-0.0	0.1	299.0	-4.2
09:57:04	1.3	1.3	-0.8	1.4	-0.0	0.0	299.7	-4.2
Avg.=	1.9	1.6	-0.7	1.4	-0.0	0.1	281.0	-4.2

Pre CALS
BO
Run #8
Outlet

CALIBRATION SUMMARY
09-14-1991 07:49:48
CALIBRATION FILE NAME =D:\CEMDATA\0914BO.CAL

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%V	1.99	0.7935	20.00	8.061	2.478	0.02
2	Hg	ug/m3	0.00	%-3.0087	1500.00	1.587	326.422	982.10
3	SO2	ppmV	0.00	-.0025	86.00	0.182	465.132	1.17
4	CO	ppmV	0.00	0.0100	88.90	0.881	102.048	-1.02
5	CO2	%V	0.00	0.0019	18.00	0.090	204.111	-0.39
6	NOx	ppmV	~~0.00~~	~~-.0016~~	~~88.30~~	~~8.706~~	10.141	0.02
7	HCl	ppmV	0.00	0.0208	107.00	0.541	205.551	-4.28
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-Prtsc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION SO2 =30

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MHI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 07:51:38
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914B0.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV							
07:51:40	0.0	984.1	32.3	1.2	0.0	-0.0	47.6	-4.5	0.0	0.0	32.0	32.0	32.0	32.0
07:51:50	0.0	984.0	32.3	1.9	0.0	-0.0	45.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:52:00	0.0	983.9	32.2	2.0	-0.0	-0.0	42.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:52:10	0.0	983.9	32.5	1.6	0.0	-0.0	42.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:52:20	0.0	983.8	32.2	1.4	0.0	-0.0	44.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:52:30	0.0	983.7	32.3	1.0	0.0	-0.0	51.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:52:40	0.0	983.6	32.3	1.2	-0.0	-0.0	47.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:52:50	0.0	983.6	32.3	1.8	-0.0	-0.0	40.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
Avg.=	0.0	983.8	32.3	1.5	0.0	-0.0	45.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0

RADIAN CORPORATION HCL=49.1

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 07:54:39
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BO.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV							
07:54:40	0.1	983.5	23.0	0.4	0.0	-0.0	47.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:54:49	0.2	983.4	21.6	1.5	0.0	-0.0	55.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:54:59	0.2	983.5	21.4	1.9	0.0	-0.0	48.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:55:09	0.1	983.6	21.7	1.7	0.0	-0.0	46.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:55:19	0.1	983.7	24.5	1.2	0.0	-0.0	42.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:55:29	0.1	983.9	25.5	1.0	0.0	-0.0	45.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:55:39	0.1	983.9	26.0	0.7	0.0	-0.0	54.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:55:49	0.0	984.0	26.0	1.4	0.0	-0.0	47.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:55:59	0.0	984.0	25.8	1.7	0.0	-0.0	48.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:56:09	0.0	983.9	25.8	1.2	0.0	-0.0	47.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:56:19	0.0	983.9	25.7	1.3	0.0	-0.0	44.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:56:29	0.0	983.8	25.7	1.1	-0.0	-0.0	53.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:56:39	0.0	983.8	25.9	0.6	-0.0	-0.0	56.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:56:49	0.0	983.7	25.6	1.0	-0.0	-0.0	52.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:56:59	0.0	983.6	26.1	1.5	0.0	-0.0	48.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:57:09	0.0	983.6	25.6	1.3	0.0	-0.0	44.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:57:19	0.0	983.5	25.7	1.5	0.0	-0.0	48.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:57:29	0.0	983.5	25.9	1.2	-0.0	-0.0	50.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:57:38	0.0	983.5	26.1	0.7	-0.0	-0.0	54.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:57:48	0.0	983.5	25.9	1.0	-0.0	-0.0	54.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:57:58	0.0	983.5	25.8	1.6	-0.0	-0.0	50.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:58:08	0.0	983.4	26.1	1.7	-0.0	-0.0	53.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
07:58:18	0.0	983.4	26.0	1.4	-0.0	-0.0	51.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
Avg.=	0.1	983.7	25.1	1.2	0.0	-0.0	49.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0

RADIAN CORPORATION SO2=24.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 07:58:42
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BO.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV								
07:58:42	0.0	983.4	26.3	0.7	-0.0	-0.0	57.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
07:58:52	0.0	983.4	25.8	1.0	0.0	-0.0	50.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
07:59:02	0.0	983.4	25.8	1.9	-0.0	-0.0	47.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
07:59:12	0.0	983.4	26.0	1.4	-0.0	-0.0	50.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
07 :22	0	983.4	26.0	1.2	-0.0	-0.0	55.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
07:59:32	0.0	983.4	25.6	1.0	-0.0	-0.0	54.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
07:59:42	0.0	983.4	25.9	0.6	-0.0	-0.0	53.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
07:59:52	0.0	983.4	26.0	1.2	-0.0	-0.0	45.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
08:00:02	0.0	983.3	26.1	2.0	-0.0	-0.0	41.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
08:00:11	0.0	983.3	26.2	1.5	0.0	-0.0	47.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
08:00:21	0.0	983.3	26.0	1.1	0.0	-0.0	55.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
08:00:31	0.0	983.3	25.8	1.1	0.0	-0.0	56.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
08:00:41	0.0	983.3	26.0	0.7	-0.0	-0.0	39.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
08:00:51	0.0	983.3	26.0	1.3	-0.0	-0.0	24.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
08:01:01	0.0	983.3	25.6	1.5	0.0	-0.0	22.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	
Avg.=	0.0	983.4	25.9	1.2	-0.0	-0.0	46.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	

25.9

RADIAN CORPORATION 02=10 CO2=9.99 CO=58.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 08:04:46
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BO.CAL

Hd 9.58

09-14-1991 Time —	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV								
08:04:46	10.0	983.3	1.0	57.9	10.3	-0.0	17.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:04:56	10.0	983.2	1.3	59.1	10.3	-0.0	4.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:05:06	9.9	983.2	0.8	59.1	10.3	-0.0	12.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:05:16	10.0	983.2	1.0	58.7	10.3	-0.0	14.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:05:26	9.9	983.2	1.2	58.5	10.3	-0.0	8.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:05:36	10.0	983.2	1.0	58.5	10.3	-0.0	12.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:05:46	9.9	983.2	0.8	58.8	10.3	-0.0	4.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:05:56	10.0	983.2	1.2	59.4	10.3	-0.0	11.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:06:06	9.9	983.2	1.0	59.4	10.3	-0.0	14.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:06:16	10.0	983.2	1.0	59.2	10.3	-0.0	20.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:06:26	9.9	983.3	0.9	58.5	10.3	-0.0	18.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:06:36	10.0	983.3	0.7	58.3	10.3	-0.0	8.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:06:46	10.0	983.3	1.2	57.7	10.3	-0.0	8.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:06:56	10.0	983.3	0.7	58.3	10.3	-0.0	14.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:07:06	10.0	983.3	0.7	60.1	10.3	-0.0	23.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:07:16	10.0	983.3	0.9	60.4	10.3	-0.0	11.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:07:26	10.0	983.3	0.7	58.6	10.3	-0.0	12.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:07:35	10.0	983.3	0.6	58.7	10.3	-0.0	11.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:07:45	10.0	983.3	0.9	58.6	10.3	-0.0	4.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:07:55	10.0	983.3	1.0	58.7	10.3	-0.0	14.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:08:05	10.0	983.3	0.9	59.1	10.3	-0.0	24.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:08:15	10.0	983.3	0.8	58.7	10.3	-0.0	16.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:08:25	10.0	983.3	1.0	58.3	10.3	-0.0	9.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:08:35	9.9	983.2	1.0	57.8	10.3	-0.0	20.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:08:45	10.0	983.3	0.8	57.7	10.3	-0.0	16.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:08:55	10.0	983.3	0.8	58.6	10.3	-0.0	16.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
08:09:25	10.0	983.3	0.5	58.6	10.3	-0.0	16.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:09:35	9.9	983.3	0.9	58.4	10.3	-0.0	11.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:09:45	10.0	983.3	0.7	58.1	10.3	-0.0	22.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:09:55	10.0	983.2	0.9	57.8	10.3	-0.0	13.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:10:05	10.0	983.2	0.9	59.4	10.3	-0.0	19.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:10:15	10.0	983.2	0.7	59.6	10.3	-0.0	14.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:10:24	10.0	983.2	0.7	58.8	10.3	-0.0	18.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
08:10:34	10.0	983.2	0.7	58.4	10.3	-0.0	10.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.
Avg.=	10.0	983.3	0.9	58.7	10.3	-0.0	14.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	32.

RADIAN CORPORATION 02=10 CO2=9 CO=44

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 08:13:45
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BO.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV								
08:13:46	10.0	983.3	0.9	45.8	9.3	-0.0	11.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:13:56	10.0	983.2	0.9	44.5	9.3	-0.0	13.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:14:06	10.0	983.2	0.7	46.8	9.3	-0.0	22.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:14:16	10.0	983.3	0.7	46.4	9.3	-0.0	14.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:14:26	10.0	983.3	0.9	45.6	9.3	-0.0	7.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:14:36	9.9	983.3	0.9	44.9	9.3	-0.0	18.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:14:46	10.0	983.3	0.7	45.3	9.3	-0.0	16.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:14:56	10.0	983.3	0.7	45.4	9.3	-0.0	28.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:15:05	10.0	983.3	1.1	46.3	9.3	-0.0	11.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:15:15	10.0	983.3	0.7	45.9	9.3	-0.0	24.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:15:25	10.0	983.4	0.7	45.7	9.3	-0.0	13.1	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:15:35	10.0	983.4	1.0	44.9	9.3	-0.0	16.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:15:45	10.0	983.4	0.8	45.1	9.3	-0.0	9.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:15:55	10.0	983.4	0.5	45.3	9.3	-0.0	16.2	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:16:05	10.0	983.4	0.7	45.7	9.3	-0.0	20.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
Avg.=	10.0	983.3	0.8	45.6	9.3	-0.0	16.3	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3

RADIAN CORPORATION 02=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 08:20:25
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BO.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV								
08:20:26	5.0	983.4	0.5	18.9	5.3	-0.0	24.8	-4.5	0.0	0.0	32.0	32.0	32.0	32.0	3
08:20:36	5.0	983.2	0.7	18.7	5.3	-0.0	12.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:20:46	5.0	983.2	0.6	18.7	5.3	-0.0	20.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:20:56	5.0	983.2	0.6	19.0	5.3	-0.0	20.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:21:06	5.0	983.2	0.4	18.7	5.3	-0.0	18.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:21:16	5.0	983.1	0.7	18.9	5.3	-0.0	14.6	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:21:26	5.0	983.1	0.6	18.8	5.3	-0.0	4.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:21:36	5.0	983.1	0.8	18.2	5.3	-0.0	8.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:21:46	5.0	983.1	0.6	18.4	5.3	-0.0	18.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:21:56	5.0	983.1	0.5	18.4	5.3	-0.0	16.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:22:06	5.0	983.1	0.2	18.7	5.3	-0.0	18.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:22:16	5.0	983.1	0.6	18.6	5.3	-0.0	11.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:22:26	5.0	983.1	0.5	19.2	5.3	-0.0	16.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:22:36	5.0	983.1	0.6	18.5	5.3	-0.0	16.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
08:22:46	5.0	983.1	0.5	18.1	5.3	-0.0	23.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3
Avg.=	5.0	983.1	0.6	18.7	5.3	-0.0	16.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0	3

RADIAN CORPORATION 02=4.99 CO2=5.04 CO=19.05

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 08:35:30
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BO.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV							
08:35:31	5.0	983.3	0.4	20.1	5.3	-0.0	15.0	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:35:41	5.0	983.4	0.6	20.6	5.3	-0.0	13.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:35:51	5.0	983.3	0.6	19.8	5.3	-0.0	12.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:[illegible].01	5.0	983.3	0.7	19.5	5.3	-0.0	13.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:36:11	5.0	983.3	0.5	20.7	5.3	-0.0	18.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:36:21	5.0	983.3	0.6	21.0	5.3	-0.0	20.9	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:36:31	5.0	983.3	0.3	21.5	5.3	-0.0	16.8	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:36:41	5.0	983.4	0.4	20.7	5.3	-0.0	15.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:36:51	5.0	983.4	0.5	19.8	5.3	-0.0	16.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:37:01	5.0	983.4	0.6	19.3	5.3	-0.0	17.5	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
08:37:11	5.0	983.3	0.4	20.4	5.3	-0.0	18.7	-4.4	0.0	0.0	32.0	32.0	32.0	32.0
Avg.=	5.0	983.3	0.5	20.3	5.3	-0.0	16.4	-4.4	0.0	0.0	32.0	32.0	32.0	32.0

CALIBRATION SUMMARY
09-14-1991 08:47:07
CALIBRATION FILE NAME =D:\CEMDATA\0914BOA.CAL

RE CAL #9

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%V	1.99	0.7935	20.00	8.061	2.478	0.02
2	Hg	ug/m3	0.00	0.0013	1500.00	1.587	946.182	-1.21
3	SO2	ppmV	0.00	-.0025	86.00	0.182	465.132	1.17
4	CO	ppmV	0.00	0.0100	88.90	0.881	102.048	-1.02
5	CO2	%V	0.00	0.0019	18.00	0.090	204.111	-0.39
6	NOx	ppmV	0.00	-.0016	88.30	8.706	10.141	0.02
7	HCl	ppmV	0.00	0.0208	107.00	0.541	205.551	-4.28
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Enter-Prtsc to Print out Table
Press <C> to Continue

RADIAN CORPORATION LEAK CHK W/O2 2.01% THRU SYS.

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 09:53:25
File Name = D:\CEMDATA\091491.PRN Calibration File:D:\CEMDATA\0914BOA.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:53:31	2.0	1.0	1.3	1.2	0.0	0.0	16.3	-4.4
09:54:31	2.0	1.1	1.1	1.1	0.0	0.0	15.3	-4.4
09:55:31	2.0	1.1	1.2	0.9	0.0	0.0	15.5	-4.4
09:56:31	2.0	1.1	1.3	1.0	0.0	0.0	20.5	-4.4

Avg.=	2.0	1.1	1.2	1.1	0.0	0.0	17.2	1.4

RADIAN CORPORATION 02=1.99

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 16:34:45
File Name = D:\CEMDATA\091491A.PRN Calibration File:D:\CEMDATA\0914BOA.CAL

BO
Run #8
Post-tst
QC's

0.+6+

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
16:34:46	2.0	0.5	-0.2	-1.4	0.0	0.0	16.4	-4.6
16:34:56	2.0	0.4	-0.6	-1.6	0.0	0.0	21.5	-4.4
16:35:06	2.0	0.4	-0.3	-1.6	-0.0	0.0	27.6	-4.4
16:35:16	2.0	0.4	-0.4	-0.4	-0.0	0.0	28.8	-4.4
16:35:26	2.0	0.4	-0.4	-0.8	-0.0	0.0	24.1	-4.4
Avg.=	2.0	0.4	-0.4	-1.1	0.0	0.0	23.7	-4.5

RADIAN CORPORATION 02=4.99 CO2=5.02 ~~CO=18.9 GHV=37.6~~

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 16:37:48
File Name = D:\CEMDATA\091491A.PRN Calibration File:D:\CEMDATA\0914BOA.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
16:37:49	5.0	-0.5	0.0	18.4	5.3	0.0	18.6	-4.5
16:37:59	5.0	-0.4	-0.6	18.1	5.3	0.0	20.8	-4.4
16:38:09	5.0	-0.5	-0.4	17.8	5.3	0.0	28.8	-4.4
16:38:18	5.0	-0.5	-0.3	18.1	5.3	0.0	28.7	-4.4
16:38:28	5.0	-0.4	-0.3	18.7	5.3	0.0	22.7	-4.4
16:38:38	5.0	-0.5	-0.4	18.6	5.3	0.0	16.4	-4.4
16:38:48	5.0	-0.5	-0.5	18.3	5.3	0.0	16.4	-4.4
16:38:58	5.0	-0.5	-0.7	18.0	5.3	0.0	24.7	-4.4
16:39:08	5.0	-0.5	-0.4	17.9	5.3	0.0	27.0	-4.4
16:39:18	5.0	-0.5	-0.3	18.2	5.3	0.0	22.9	-4.4
16:39:28	5.0	-0.5	-0.4	18.8	5.3	0.0	24.7	-4.4
16:39:38	5.0	-0.5	-0.2	18.7	5.3	0.0	27.0	-4.4
16:39:48	5.0	-0.5	-0.1	18.1	5.3	0.0	16.4	-4.4
16:39:58	5.0	-0.5	-0.8	18.0	5.3	0.0	20.5	-4.4
16:40:08	5.0	-0.5	-0.5	18.1	5.3	0.0	31.0	-4.4
16:40:18	5.0	-0.5	-0.7	18.1	5.3	0.0	24.7	-4.4
16:40:28	5.0	-0.5	-0.7	18.5	5.3	0.0	20.4	-4.4
16:40:38	5.0	-0.5	-0.6	18.8	5.3	0.0	20.5	-4.4
16:40:48	5.0	-0.5	-0.6	18.7	5.3	0.0	22.9	-4.4
16:40:58	5.0	-0.5	-0.6	18.5	5.3	0.0	27.0	-4.4
16:41:07	5.0	-0.5	-0.4	18.0	5.3	0.0	31.0	-4.4
16:41:17	5.0	-0.5	-0.4	18.1	5.3	0.0	28.8	-4.4
16:41:27	5.0	-0.5	-0.8	18.5	5.3	0.0	27.0	-4.4
16:41:37	5.0	-0.5	-0.7	18.7	5.3	0.0	30.9	-4.4
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16:42:17	5.0	-0.5	-0.7	18.1	5.2	0.0	28.9	-4.4
16:42:27	5.0	-0.5	-0.4	17.7	5.2	0.0	28.8	-4.4
16:42:37	5.0	-0.5	-0.6	18.0	5.3	0.0	32.6	-4.4
16:42:47	5.0	-0.5	-0.6	17.9	5.3	0.0	23.5	-4.4
16:42:57	5.0	-0.5	-0.6	17.3	5.3	0.0	20.6	-4.4
16:43:07	5.0	-0.5	-0.7	17.1	5.3	0.0	35.7	-4.4
16:43:17	5.0	-0.5	-0.8	16.7	5.3	0.0	29.5	-4.4
16:43:27	5.0	-0.5	-0.5	16.8	5.3	0.0	36.2	-4.4
Avg.=	5.0	-0.5	-0.5	18.2	5.3	0.0	25.5	-4.4

RADIAN CORPORATION 02=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 16:45:53
File Name = D:\CEMDATA\091491A.PRN Calibration File:D:\CEMDATA\0914BOA.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	HOx ppmV	HCl ppmV	
16:45:54	5.0	-0.5	-0.3	17.5	5.3	0.0	12.8	-4.5
16:46:04	5.0	-0.5	-0.7	17.2	5.2	0.0	16.1	-4.4
16:46:14	5.0	-0.5	-0.3	17.3	5.2	0.0	21.0	-4.4
16:46:23	5.0	-0.5	-0.3	16.8	5.2	0.0	17.1	-4.4
16:46:33	5.0	-0.5	-0.7	17.1	5.3	0.0	13.7	-4.4
16:46:43	5.0	-0.5	-0.5	17.6	5.2	0.0	12.5	-4.4
16:46:53	5.0	-0.5	-0.8	17.8	5.2	0.0	15.1	-4.4
16:47:03	5.0	-0.5	-0.7	17.5	5.2	0.0	20.9	-4.4
16:47:13	5.0	-0.5	-0.9	17.3	5.2	0.0	21.6	-4.4
16:47:23	5.0	-0.5	-0.7	16.7	5.2	0.0	19.5	-4.4
16:47:33	5.0	-0.5	-0.8	16.8	5.2	0.0	16.4	-4.4
Avg.=	5.0	-0.5	-0.6	17.2	5.2	0.0	17.0	-4.4

RADIAN CORPORATION 02=10 CO2=10 CO=14

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 16:50:16
File Name = D:\CEMDATA\091491A.PRN Calibration File:D:\CEMDATA\0914BOA.CAL

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
16:50:17	10.0	-0.5	-0.1	44.7	9.3	0.0	18.6	-4.6
16:50:27	10.0	-0.5	-0.4	44.4	9.3	0.0	20.5	-4.4
16:50:37	10.0	-0.5	-0.4	44.3	9.3	0.0	18.7	-4.4
16:50:47	10.0	-0.5	-0.3	44.4	9.3	0.0	8.9	-4.4
16:50:57	10.0	-0.5	-0.6	44.8	9.3	0.0	14.3	-4.4
16:51:07	10.0	-0.5	-0.7	44.5	9.2	0.0	20.2	-4.4
16:51:17	10.0	-0.5	-0.7	44.2	9.2	0.0	24.5	-4.4
16:51:27	10.0	-0.5	-0.5	44.3	9.3	0.0	16.7	-4.4
16:51:37	10.0	-0.5	-0.5	44.3	9.3	0.0	16.4	-4.4
16:51:47	10.0	-0.5	-0.5	44.5	9.3	0.0	20.2	-4.4
16:51:57	10.0	-0.5	-0.3	44.7	9.3	0.0	13.3	-4.4
16:52:07	10.0	-0.5	-0.4	45.0	9.2	0.0	33.3	-4.4
16:52:17	10.0	-0.5	-0.5	44.6	9.2	0.0	25.5	-4.4
Avg.=	10.0	-0.5	-0.5	44.5	9.3	0.0	19.3	-4.4

Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-14-1991 Current Time = 17:07:41
File Name = D:\CEMDATA\091491A.PRN Calibration File:D:\CEMDATA\0914BOA.CAL

CMF

09-14-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
17:07:42	0.0	-0.5	29.7	0.4	-0.0	0.0	89.1	-4.4
17:07:52	0.0	-0.5	30.0	-0.0	-0.0	0.0	102.2	-4.4
17:08:02	0.0	-0.5	29.9	0.4	-0.0	0.0	104.0	-4.4
17:08:12	0.0	-0.5	30.1	1.0	-0.0	0.0	88.4	-4.4
17:08:22	0.0	-0.5	30.0	1.5	-0.0	0.0	75.0	-4.4
17:08:32	0.0	-0.5	30.0	0.9	-0.0	0.0	73.1	-4.4
17:08:42	0.0	-0.5	30.0	0.7	-0.0	0.0	78.3	-4.4
17:08:52	0.0	-0.5	30.1	0.5	-0.0	0.0	69.9	-4.4
17:09:02	0.0	-0.5	29.9	-0.1	-0.0	0.0	55.0	-4.4
17:09:12	0.0	-0.5	29.9	0.2	-0.0	0.0	52.8	-4.4
17:09:21	0.0	-0.5	30.1	1.2	-0.0	0.0	56.6	-4.4
17:09:31	0.0	-0.5	30.1	1.3	-0.0	0.0	68.7	-4.4
17:09:41	0.0	-0.5	30.2	1.1	-0.0	0.0	69.3	-4.4
17:09:51	0.0	-0.5	30.2	0.6	-0.0	0.0	63.2	-4.4
17:10:01	0.0	-0.5	29.8	0.3	-0.0	0.0	65.3	-4.4
17:10:11	0.0	-0.5	29.8	0.4	-0.0	0.0	48.6	-4.4
17:10:21	0.0	-0.5	30.4	0.8	-0.0	0.0	33.1	-4.4
17:10:31	0.0	-0.5	30.1	1.1	-0.0	0.0	31.3	-4.4
17:10:41	0.0	-0.5	30.1	1.0	-0.0	0.0	33.9	-4.4
17:10:51	0.0	-0.5	30.1	0.6	-0.0	0.0	29.9	-4.4
17:11:01	0.0	-0.5	30.5	0.4	-0.0	0.0	37.6	-4.4
Avg.=	0.0	-0.5	30.1	0.7	-0.0	0.0	63.1	-4.4

:14:30	2.0	-0.4	-0.4	0.8	0.0	0.0	23.0	-4.5
:14:40	2.0	-0.6	-0.8	1.0	-0.0	0.0	26.6	-4.4
:14:50	2.0	-0.9	-0.5	1.1	-0.0	0.0	24.4	-4.4
:14:59	2.0	-0.9	-0.7	0.8	-0.0	0.0	22.8	-4.4
:15:09	2.0	-0.8	-0.7	0.8	0.0	0.0	22.3	-4.4
:15:19	2.0	-0.8	2.4	1.6	2.0	0.0	19.3	-4.4
:15:29	2.2	-0.8	16.8	3.2	0.6	0.0	25.0	-4.4
:15:39	3.0	-0.7	21.6	3.8	0.0	0.0	26.0	-4.4
:15:49	3.1	-0.7	22.6	2.8	-0.0	0.0	19.0	-4.4
:15:59	1.4	-0.7	18.9	1.4	0.0	0.0	23.4	-4.4
7:16:09	0.4	-0.7	8.7	0.7	0.5	0.0	26.9	-4.4
7:16:19	0.2	-0.6	5.4	1.8	0.5	0.0	9.5	-4.4
7:16:29	1.3	-0.6	2.1	12.2	9.5	0.0	18.4	-4.4
7:16:39	4.8	-0.6	0.8	35.5	17.4	0.0	17.2	-4.4
7:16:49	10.1	-0.6	0.2	56.7	17.5	0.0	28.2	-4.4
7:16:59	14.2	-0.6	0.2	60.4	5.7	0.0	20.5	-4.4
7:17:09	17.0	-0.6	-0.1	46.3	0.7	0.0	22.4	-4.4
7:17:19	19.5	-0.6	-0.1	27.6	0.1	0.0	14.5	-4.4
7:17:29	20.4	-0.6	-0.4	13.1	0.0	0.0	14.6	-4.4
7:17:39	20.8	-0.6	-0.2	4.2	0.0	0.0	18.6	-4.4
7:17:48	20.8	-0.6	-0.1	1.2	0.0	0.0	20.6	-4.4
7:17:58	20.8	-0.6	-0.2	1.0	0.0	0.0	26.9	-4.4
7:18:08	20.8	-0.6	-0.3	0.7	0.0	0.0	28.7	-4.4
Avg.=	8.4	-0.7	4.1	12.1	2.4	0.0	21.7	-4.4

I CORPORATION HCL=49.1

Testing and Process Engineering Dept.
uous Emissions Monitoring Data
S MWI
ZOO,MI
ned for: EPA
rinted = 09-14-1991 Current Time = 17:22:02
ame = D:\CEMDATA\091491A.PRN Calibration File:D:\CEMDATA\0914BOA.CAL

-1991	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
3	7.5	-0.4	0.5	-0.1	-0.0	0.0	43.0	-4.4
3	2.4	-0.3	-0.8	0.9	-0.0	0.0	46.4	-4.4
3	2.1	-0.3	-0.7	0.8	-0.0	0.0	43.3	-4.4
3	2.1	-0.4	-0.9	0.6	-0.0	0.0	45.6	-4.4
3	2.1	-0.4	-0.7	-0.0	-0.0	0.0	50.5	-4.4
	2.0	-0.3	-0.6	-0.5	-0.0	0.0	52.6	-4.4
	2.0	-0.3	-0.8	-0.0	-0.0	0.0	57.8	-4.4
	2.0	-0.3	-0.9	0.7	-0.0	0.0	58.0	-4.4
	2.0	-0.3	-0.8	0.7	-0.0	0.0	52.8	-4.4
	2.0	-0.3	-0.7	0.7	-0.0	0.0	47.4	-4.4
	2.6	-0.4	-0.6	0.4	-0.0	0.0	49.7	-4.4

Post Cal
BO
Run # 8
Outlier

CALIBRATION SUMMARY
09-14-1991 17:51:31
CALIBRATION FILE NAME =D:\CEMDATA\0914BOF.CAL

	Zero		Span		Slope	Int.
	Conc.	Resp.	Conc.	Resp.		
	1.99	0.7989	20.00	8.102	2.466	0.02
3	0.00	0.0009	1500.00	1.587	945.976	-0.89
	0.00	-.0050	86.00	0.176	474.383	2.35
	0.00	0.0121	88.90	0.879	102.607	-1.24
	0.00	0.0019	18.00	0.090	204.147	-0.39
	0.00	-.0004	88.30	8.706	10.142	0.00
	0.00	0.0494	107.00	0.550	213.810	-10.56
	0.00	0.0000	0.00	0.000	1.000	0.00
	0.00	0.0000	0.00	0.000	1.000	0.00
	0.00	0.0000	0.00	0.000	1.000	0.00
	0.00	0.0000	0.00	0.000	1.000	0.00
	0.00	0.0000	0.00	0.000	1.000	0.00
	0.00	0.0000	0.00	0.000	1.000	0.00
	0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-Prtsc to Print This File
Press <C> to Continue

Precal's
Run # 9

BI

Inlet

The Following QC's were shot through entire system.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

LEAK ✓

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	ppmv	[illegible]	[illegible]	[illegible]	ppmv	ppmv	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	215.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	216.0	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	215.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	215.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2

Hcl 206

215.7

[illegible]

[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] = [illegible] [illegible] = [illegible]
[illegible] [illegible] DEMDATA [illegible]

[illegible] Time	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	0.0	215.1	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	215.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	215.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	231.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	215.7	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	0.0	287.1	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	215.1	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	215.3	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	215.6	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	230.1	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	236.5	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2

[illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Monitored for: EPA
Date Printed = [illegible] Current Time = [illegible]
Raw Data File = [illegible] Calibration File= [illegible]

[illegible] Time	O2 %V	THC ppmv	SO2 ppmv	CO ppmv	CO2 %V	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	9.6	0.6	-1.4	45.9	9.5	-0.0	392.1	-4.2
[illegible]	10.2	0.4	-1.7	45.8	9.5	-0.0	386.0	-4.2
[illegible]	9.4	0.6	-1.6	45.7	9.5	-0.0	392.8	-4.2
[illegible]	10.1	0.4	-1.4	44.9	9.5	-0.1	388.8	-4.2
[illegible]	10.2	0.7	-1.4	45.7	9.5	-0.0	386.6	-4.2
[illegible]	9.6	0.6	-1.5	45.8	9.5	-0.0	391.9	-4.2
[illegible]	9.8	0.4	-1.5	45.9	9.5	-0.0	390.0	-4.2
[illegible]	9.7	1.2	-1.5	45.8	9.5	-0.0	389.6	-4.2
[illegible]	9.7	1.1	-1.5	45.8	9.5	-0.0	389.9	-4.2
[illegible]	9.7	1.1	-1.6	45.7	9.5	-0.0	389.9	-4.2
[illegible]	9.7	1.1	-1.5	45.6	9.5	-0.0	389.4	-4.2
[illegible]	9.7	1.1	-1.6	45.7	9.5	-0.0	389.6	-4.2
[illegible]	9.7	1.1	-1.6	45.7	9.5	-0.0	389.0	-4.2
[illegible]	9.7	1.0	-1.4	45.7	9.5	-0.0	389.7	-4.2
[illegible]	9.7	1.1	-1.5	45.6	9.5	-0.0	389.0	-4.2
Avg.=	9.8	0.8	-1.5	45.7	9.5	-0.0	389.7	-4.2

THC = 48.9

[illegible] CORPORATION [illegible]

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File [illegible]

[illegible] Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Avg.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible]
Data Printed = [illegible] Current Time = [illegible]
File Name = D:\[illegible] Calibration File:D:\[illegible]

[illegible] Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	19.4	5.2	-1.8	2.2	-0.0	-0.0	215.9	-4.2
[illegible]	19.4	5.2	-1.8	2.1	-0.0	-0.0	215.2	-4.2
[illegible]	19.4	5.2	-1.7	2.2	-0.0	-0.0	216.1	-4.2
[illegible]	19.4	5.2	-1.7	2.2	-0.0	-0.0	215.2	-4.2
[illegible]	19.4	5.2	-1.8	2.2	-0.0	-0.0	216.1	-4.2
[illegible]	19.4	5.2	-1.7	2.1	-0.0	-0.0	216.0	-4.2
[illegible]	19.4	5.2	-1.8	2.2	-0.0	-0.0	216.2	-4.2
[illegible]	19.4	5.2	-1.8	2.1	-0.0	-0.0	215.9	-4.2
[illegible]	19.4	5.2	-1.8	2.1	-0.0	-0.0	216.2	-4.2
[illegible]	19.4	5.2	-1.8	2.2	-0.0	-0.0	216.4	-4.2
[illegible]	19.4	5.2	-1.8	2.2	-0.0	-0.0	215.9	-4.2
Avg.	19.4	5.2	-1.8	2.2	-0.0	-0.0	216.0	-4.2

Thore system

[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
Performed by: EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File: [illegible]

[illegible] Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	5.2	25.7	-1.7	19.8	4.1	-0.0	219.1	-4.2
[illegible]	5.2	25.6	-1.5	19.7	4.1	-0.0	299.9	-4.2
[illegible]	5.2	25.6	-1.2	19.8	4.1	-0.0	218.5	-4.2
[illegible]	5.2	25.6	-1.1	19.9	4.1	-0.0	218.6	-4.2
[illegible]	5.1	25.6	-1.9	[illegible]	4.1	-0.0	218.8	-4.2
[illegible]	5.2	25.6	-1.1	19.8	4.1	-0.0	218.8	-4.2
[illegible]	5.2	25.6	-1.7	19.8	4.1	-0.0	218.5	-4.2
[illegible]	5.2	25.7	-1.1	19.8	4.1	-0.0	218.9	-4.2
[illegible]	5.2	25.6	-1.5	19.7	4.1	-0.0	218.9	-4.2
[illegible]	5.2	25.6	-1.2	[illegible]	4.1	-0.0	218.6	-4.2
[illegible]	5.2	25.6	-1.2	[illegible]	4.1	-0.0	218.9	-4.2
[illegible]	5.2	25.6	-1.2	19.7	4.1	-0.0	218.6	-4.2
[illegible]	5.2	25.6	-1.4	19.8	4.1	-0.0	219.2	-4.2
[illegible]	5.2	25.7	-1.2	19.8	4.1	-0.0	305.5	-4.2
[illegible]	5.2	25.7	-1.1	20.1	4.1	-0.0	305.5	-4.2
[illegible]	5.2	25.6	-1.1	19.9	4.1	-0.0	218.7	-4.2
[illegible]	5.2	25.7	-1.7	[illegible]	4.1	-0.0	305.4	-4.2
[illegible]	5.2	25.6	-1.2	19.8	4.1	-0.0	238.8	-4.2

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Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
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[illegible]
Performed for: EPA
Date Printed = [illegible] Current Time = [illegible]
File Name = [illegible] Calibration File:[illegible]

[illegible] Time	O2 %	THC ppmV	SO2 ppmV	CO ppmV	CO2 %	NOx ppmV	HCl ppmV	Hg ug/m3
[illegible]	[illegible]	[illegible]	22.4	[illegible]	-0.0	-0.0	304.0	-4.2
[illegible]	[illegible]	[illegible]	22.5	[illegible]	-0.0	-0.0	304.4	-4.2
[illegible]	[illegible]	[illegible]	22.7	[illegible]	-0.0	-0.0	302.1	-4.2
[illegible]	[illegible]	[illegible]	22.7	[illegible]	-0.0	-0.0	337.3	-4.2
[illegible]	[illegible]	[illegible]	22.6	[illegible]	-0.0	-0.0	388.7	-4.2
[illegible]	[illegible]	[illegible]	22.7	[illegible]	-0.0	-0.0	385.9	-4.2
[illegible]	[illegible]	[illegible]	22.7	[illegible]	-0.0	-0.0	390.7	-4.2
[illegible]	[illegible]	[illegible]	22.6	[illegible]	-0.0	-0.0	389.4	-4.2
[illegible]	[illegible]	[illegible]	22.7	[illegible]	-0.0	-0.0	426.7	-4.2
[illegible]	[illegible]	[illegible]	22.9	[illegible]	-0.0	-0.0	453.1	-4.2
Avg.=	[illegible]	[illegible]	22.7	[illegible]	-0.0	-0.0	368.5	-4.2

[illegible] [illegible] [illegible]

[illegible] Testing and Process Engineering Data
Correlation Evaluation Monitoring Data
[illegible]
[illegible]
[illegible]
Symmetrical Fit: [illegible]

Data Analyst = [illegible] Current Time = [illegible]
File Date = [illegible] Evaluation Folder [illegible]

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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

thru System

[illegible] CORPORATION [illegible]

thrusystem

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
[illegible]
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 09:24:28
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\091691.CAL

9-16-1991 Time	O2 %V	THC ppmv	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
09:24:28	0.6	0.1	23.9	2.0	-0.0	-0.0	303.7	-4.2
09:24:38	0.5	0.1	23.5	2.1	-0.0	-0.0	358.0	-4.2
09:24:48	0.6	0.2	23.6	2.1	-0.0	-0.0	333.4	-4.2
09:24:58	0.6	0.2	23.5	2.1	-0.0	-0.0	358.4	-4.2
09:25:08	0.5	0.1	23.5	2.1	-0.0	-0.0	388.6	-4.2
09:25:18	0.5	0.1	23.7	2.1	-0.0	-0.0	388.7	-4.2
09:25:28	0.5	0.1	23.5	2.1	-0.0	-0.0	388.3	-4.2
09:25:38	0.6	0.2	23.6	2.1	-0.0	-0.0	388.6	-4.2
09:25:48	0.4	0.2	23.5	2.0	-0.0	-0.0	388.4	-4.2
09:25:58	0.5	0.1	23.4	2.1	-0.0	-0.0	388.4	-4.2
09:26:08	0.6	0.1	23.4	2.1	-0.0	-0.0	388.7	-4.2
09:26:18	0.5	0.1	23.5	2.1	-0.0	-0.0	388.3	-4.2
09:26:28	0.5	0.1	23.6	2.1	-0.0	-0.0	389.0	-4.2
09:26:38	0.6	0.1	23.3	2.1	-0.0	-0.0	388.0	-4.2
09:26:48	0.4	0.2	23.3	2.1	-0.0	-0.0	389.4	-4.2
Avg.=	0.5	0.1	23.5	2.1	-0.0	-0.0	375.2	-4.2

[illegible]

Lab Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
[illegible]
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[illegible] EPA
[illegible]
[illegible]

[illegible] Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	104.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	[illegible]	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	305.4	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	-0.0	304.3	-4.2
Avg	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0	337.4	-4.2

Pre cals
Run #9
BO

CALIBRATION SUMMARY
09-16-1991 08:11:59
CALIBRATION FILE NAME =D:\CEMDATA\0916BO.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	1.99	0.7946	20.00	8.078	2.473	0.03
2	Hg	ug/m3	0.00	0.0023	1536.00	1.587	969.536	-2.27
3	SO2	ppmV	0.00	-.0030	86.00	0.180	469.418	1.41
4	CO	ppmV	0.00	0.0197	88.90	0.895	101.612	-2.00
5	CO2	%V	0.00	0.0020	18.00	0.091	201.527	-0.40
6	NOx	ppmV	0.00	0.0158	88.30	8.765	10.093	-0.16
7	HCl	ppmV	0.00	0.0453	107.00	0.544	214.400	-9.71
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press <C> to Continue

All QC's that follow were sent thru entire Sampling System

Outlet

RADIAN CORPORATION HCL=9.53

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 08:15:19
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BO.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
08:15:19	20.7	0.4	2.8	-2.0	0.1	0.1	8.2	-4.4
08:15:29	20.7	0.3	3.1	-2.4	0.1	0.1	18.6	-4.4
08:15:39	20.7	0.3	3.2	-2.0	0.1	0.1	17.5	-4.4
08:15:49	20.7	0.3	3.1	-1.1	0.1	0.1	9.5	-4.4
08:15:59	20.7	0.3	3.1	-0.7	0.1	0.1	11.9	-4.4
08:16:09	20.7	0.3	3.3	-1.2	0.0	0.1	10.5	-4.4
08:16:19	20.7	0.3	4.4	15.1	0.1	0.2	10.2	-4.4
08:16:29	20.7	0.2	9.6	75.6	0.3	0.9	17.1	-4.4
08:16:39	20.6	0.6	11.5	99.6	0.8	4.3	19.9	-4.4
08:16:49	19.8	0.7	11.1	99.6	0.7	2.6	13.4	-4.4
08:16:58	18.7	0.8	8.7	99.6	0.2	0.7	11.8	-4.4
08:17:08	15.1	0.8	7.6	99.6	0.0	0.2	14.0	-4.4
08:17:18	8.6	0.9	6.0	99.6	0.0	0.1	20.5	-4.4
08:17:28	3.6	1.0	3.8	72.6	0.0	0.0	21.6	-4.4
08:17:38	1.5	1.1	3.7	37.7	0.0	0.0	12.9	-4.4
08:17:48	0.8	1.2	3.3	19.6	0.0	0.0	9.4	-4.4
Avg.=	15.9	0.6	5.5	44.3	0.2	0.6	~~11.2~~	~~-4.4~~

RADIAN CORPORATION N2 THRU SYS. HCL=9.58

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 08:26:10
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916B0.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
08:26:11	0.0	0.8	2.4	-0.2	0.0	-0.0	11.8	-4.4
08:26:21	0.0	0.8	2.2	1.6	0.0	-0.0	14.2	-4.4
08:26:31	0.0	0.8	1.6	1.1	0.0	-0.0	11.6	-4.4
08:26:41	0.0	0.8	2.4	0.6	0.0	-0.0	6.3	-4.4
08:26:51	0.0	0.7	2.2	-0.1	0.0	-0.0	9.9	-4.4
08:27:01	0.0	0.7	2.3	-0.3	0.0	-0.0	14.2	-4.4
08:27:11	0.0	0.7	2.3	0.7	0.0	-0.0	12.8	-4.4
08:27:21	0.0	0.7	2.1	1.1	0.0	-0.0	8.6	-4.4
08:27:31	0.0	0.7	2.1	1.1	0.0	-0.0	6.2	-4.4
08:27:41	0.0	-4.3	2.2	1.0	0.0	-0.0	8.3	-4.4
08:27:51	0.0	-3.3	2.2	0.5	0.0	-0.0	17.1	-4.4
08:28:01	0.0	-3.6	2.3	0.2	0.0	-0.0	19.2	-4.4
08:28:10	0.0	-3.6	2.2	0.3	0.0	-0.0	17.5	-4.4
08:28:20	0.0	-3.6	2.3	0.6	0.0	-0.0	16.2	-4.4
08:28:30	0.0	-3.6	2.2	0.8	0.0	-0.0	8.8	-4.4
08:28:40	0.0	-3.6	2.5	1.0	0.0	-0.0	8.1	-4.4
08:28:50	0.0	-3.6	2.2	0.7	0.0	-0.0	10.9	-4.4
08:29:00	0.0	-3.6	1.9	0.1	0.0	-0.0	15.3	-4.4
08:29:10	0.0	-3.2	2.1	0.2	0.0	0.8	16.2	-4.4
08:29:20	0.0	-2.0	2.6	0.8	0.0	3.1	11.9	-4.4
08:29:30	0.0	-1.9	2.8	1.4	0.1	0.6	10.1	-4.4
08:29:40	0.1	-1.9	2.4	1.0	0.0	0.1	8.2	-4.4
08:29:50	0.4	-1.9	2.5	0.6	0.0	-0.0	9.9	-4.4
08:30:00	1.1	-1.9	2.4	0.2	0.0	-0.0	15.0	-4.4
08:30:10	1.7	-1.9	2.2	0.4	0.0	-0.0	20.6	-4.4
08:30:20	1.9	-1.9	2.3	0.7	0.0	0.3	20.3	-4.4
08:30:30	2.0	-1.9	2.2	1.0	0.0	0.2	16.7	-4.4
08:30:40	2.0	-1.9	2.2	1.3	0.0	-0.0	11.8	-4.4
08:30:50	2.0	-1.9	2.0	0.9	0.0	-0.0	10.2	-4.4
Avg.=	0.4	-1.7	2.3	0.7	0.0	0.2	12.7	-4.4

RADIAN CORPORATION 02 THRU SYS. 1.99%

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALA[illegible]30.MI
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 08:31:59
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916E0.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
08:32:00	2.0	-1.9	2.2	0.8	0.0	-0.0	8.1	-4.5
08:32:10	2.0	-1.8	2.2	0.9	0.0	-0.1	26.1	-4.4
08:32:20	2.0	-1.9	2.2	0.6	0.0	-0.1	21.7	-4.4
08:32:30	2.0	-1.9	2.7	1.2	0.0	-0.1	11.9	-4.4
08:32:40	2.0	-1.9	2.5	1.1	0.0	-0.1	15.3	-4.4
08:32:50	2.0	-1.9	2.4	0.5	0.0	-0.1	20.8	-4.4
08:33:00	2.0	-1.9	2.3	-0.0	0.0	-0.1	20.8	-4.4
08:33:10	2.0	-1.9	2.6	-0.1	0.0	-0.1	20.7	-4.4
08:33:20	2.0	-1.9	2.5	1.1	0.0	-0.1	18.8	-4.4
08:33:30	2.0	-1.9	2.4	1.7	0.0	-0.1	11.3	-4.4
08:33:40	2.0	-1.9	2.5	1.0	0.0	-0.1	9.0	-4.4
08:33:50	2.0	-1.9	2.7	0.2	0.0	-0.1	12.8	-4.4
08:34:00	2.0	-1.9	2.3	0.2	0.0	-0.1	17.3	-4.4
08:34:10	2.0	-1.9	2.4	0.7	0.0	-0.1	23.3	-4.4
08:34:20	2.0	-1.9	2.5	0.9	0.0	-0.1	29.1	-4.4
08:34:29	2.0	-1.9	2.4	0.5	0.0	-0.1	27.2	-4.4
08:34:39	2.0	-1.9	2.3	-1.5	0.0	-0.1	30.4	-4.4
Avg.=	2.0	-1.9	2.4	0.6	0.0	-0.1	19.1	-4.4

RADIAN CORPORATION HCL/49.1 02/10 C02/9 C0/44

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 08:38:26
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BO.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
08:38:27	9.9	-2.2	2.9	44.1	9.3	-0.1	55.1	-4.4
08:38:37	9.9	-2.1	2.8	44.2	9.3	-0.1	50.0	-4.4
08:38:47	9.9	-2.0	2.6	44.5	9.3	-0.1	55.5	-4.4
08:38:57	9.9	-2.0	2.7	44.5	9.3	-0.1	57.8	-4.4
08:39:07	9.9	-2.0	2.7	44.0	9.3	-0.1	58.5	-4.4
08:39:17	9.9	-2.0	3.0	43.4	9.3	-0.1	54.7	-4.4
08:39:27	9.9	-2.0	3.0	43.4	9.3	-0.1	52.3	-4.4
08:39:37	9.9	-2.0	3.1	44.0	9.3	-0.1	47.5	-4.4
08:39:47	9.9	-2.0	3.0	44.7	9.3	-0.1	44.3	-4.4
08:39:57	9.9	-2.0	2.9	44.6	9.3	-0.1	55.1	-4.4
08:40:07	9.9	-2.0	2.9	44.3	9.3	-0.1	55.1	-4.4
08:40:17	9.9	-2.0	3.3	43.7	9.3	-0.1	55.4	-4.4
08:40:27	9.9	-2.0	3.2	43.3	9.3	-0.1	56.8	-4.4
Avg.=	9.9	-2.0	2.9	44.0	9.3	-0.1	53.7	-4.4

RADIAN CORPORATION TTHEU SYS. 02/10 CO2/9.99 CO/58.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 08:46:39
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BO.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
08:46:39	9.9	-1.9	2.5	57.4	10.3	-0.0	18.4	-4.4
08:46:49	9.9	-1.9	3.1	56.7	10.3	-0.1	8.2	-4.4
08:46:59	9.9	-1.9	3.1	57.4	10.3	-0.1	11.2	-4.4
08:47:09	9.9	-1.9	2.6	57.7	10.3	-0.1	13.7	-4.4
08:47:19	9.9	-1.9	3.1	57.4	10.3	-0.1	10.0	-4.4
08:47:29	9.9	-1.9	3.1	56.9	10.3	-0.1	9.3	-4.4
08:47:39	9.9	-1.9	2.9	56.5	10.3	-0.1	12.1	-4.4
08:47:49	9.9	-1.9	2.7	56.9	10.3	-0.1	17.7	-4.4
08:47:59	9.9	-1.9	2.9	57.6	10.3	-0.1	13.9	-4.4
08:48:09	9.9	-1.9	3.3	57.7	10.2	-0.1	8.7	-4.4
08:48:18	9.9	-1.9	3.2	57.5	10.2	-0.1	5.5	-4.4
08:48:28	9.9	-1.9	3.2	56.8	10.2	-0.1	5.9	-4.4
Avg.=	9.9	-1.9	3.0	57.2	10.3	-0.1	11.2	-4.4

9.58

CALIBRATION SUMMARY
09-16-1991 08:54:28
CALIBRATION FILE NAME =D:\CEMDATA\0916BOA.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	1.99	0.7946	20.00	8.078	2.473	0.03
2	Hg	ug/m3	0.00	-.0012	1536.00	1.587	967.378	1.16
3	SO2	ppmV	0.00	-.0030	86.00	0.180	469.418	1.41
4	CO	ppmV	0.00	0.0197	88.90	0.895	101.612	-2.00
5	CO2	%V	0.00	0.0020	18.00	0.091	201.527	-0.40
6	NOx	ppmV	0.00	0.0158	88.30	8.765	10.093	-0.16
7	HCl	ppmV	0.00	0.0453	107.00	0.544	214.400	-9.71
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

ie cal Hg manifo

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION 02/4.99 c02/5.02 C019.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 09:00:22
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BOA.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:00:23	4.9	0.1	2.8	17.2	5.3	-0.1	10.0	-4.4
09:00:33	4.9	0.1	2.8	17.5	5.3	-0.1	9.5	-4.4

09:01:12	4.9	0.1	3.0	18.1	5.3	-0.1	13.0	-4.4
09:01:22	4.9	0.0	2.6	18.2	5.3	-0.1	12.4	-4.4
09:01:32	4.9	0.1	2.5	17.9	5.3	-0.1	15.2	-4.4
09:01:42	4.9	0.1	2.7	17.4	5.3	-0.1	16.2	-4.4
09:01:52	4.9	0.1	2.9	17.1	5.3	-0.1	11.5	-4.4
09:02:02	4.9	0.1	2.8	17.7	5.3	-0.1	10.0	-4.4
09:02:12	4.9	0.1	2.6	18.2	5.3	-0.1	16.5	-4.4
09:02:22	4.9	0.1	3.0	18.4	5.3	-0.1	9.5	-4.4
09:02:32	4.9	0.1	3.0	18.2	5.3	-0.1	12.1	-4.4
09:02:42	4.9	0.1	2.9	17.7	5.3	-0.1	11.2	-4.4
09:02:52	4.9	0.0	2.8	17.7	5.3	-0.1	8.7	-4.4
09:03:02	4.9	0.0	2.8	16.9	5.3	-0.1	13.9	-4.4
Avg.=	4.9	0.1	2.8	17.6	5.3	-0.1	12.0	-4.4

RADIAN CORPORATION NOX=40.6

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS NWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-16-1991 Current Time = 09:07:53
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BOA.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:07:54	0.1	0.6	3.5	0.4	-0.0	39.6	16.1	-4.4
09:08:04	0.1	0.5	3.1	0.2	-0.0	39.6	1.9	-4.4
09:08:14	0.1	0.5	3.0	0.1	-0.0	39.6	13.3	-4.4
09:08:24	0.1	0.6	3.0	1.1	-0.0	39.6	10.1	-4.4
09:08:34	0.1	0.5	2.9	1.2	-0.0	39.6	8.2	-4.4
09:08:44	0.0	0.5	2.8	0.6	-0.0	39.6	6.3	-4.4
09:08:54	0.0	0.5	2.9	0.2	-0.0	39.7	9.6	-4.4
Avg.=	0.1	0.5	3.0	0.5	-0.0	39.6	9.4	-4.4

RADIAN CORPORATION THRU SYS NOX=25.9 SO2=24.31

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-16-1991 Current Time = 09:13:10
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BOA.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:13:11	0.0	0.5	26.0	0.8	-0.0	24.5	7.1	-4.4
09:13:21	0.0	0.6	26.3	0.3	-0.0	24.4	9.2	-4.4
09:13:31	0.0	0.6	26.2	0.7	-0.0	24.4	8.9	-4.4
09:13:41	0.0	0.6	26.4	1.3	-0.0	24.4	8.1	-4.4
09:13:51	0.0	0.6	26.2	1.1	-0.0	24.4	14.3	-4.4
09:14:00	0.0	0.7	26.6	1.0	-0.0	24.4	14.7	-4.4
09:14:10	0.0	0.7	26.3	0.5	-0.0	24.4	13.2	-4.4
09:14:20	0.0	0.7	26.3	-0.2	-0.0	24.4	11.8	-4.4
09:14:30	0.0	0.7	26.2	0.7	-0.0	24.4	7.8	-4.4
09:14:40	0.0	0.6	26.9	1.0	-0.0	24.4	6.2	-4.4
09:14:50	0.0	0.6	26.6	1.3	-0.0	24.3	4.9	-4.4
Avg.=	0.0	0.6	26.4	0.8	-0.0	24.4	9.6	-4.4

RADIAN CORPORATION

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-16-1991 Current Time = 09:24:28
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0316BOA.CAL

09-16-1991	O2	Hg	SO2	CO	CO2	NOx	HCl
Time	%V	ug/m3	ppmV	ppmV	%V	ppmV	ppmV
Avg.=	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RADIAN CORPORATION SO2=24.3 NOX=25.9 THRU SYS.

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-16-1991 Current Time = 09:24:53
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BOA.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:24:55	0.0	1.0	28.0	0.7	-0.0	24.4	1.4	-4.5
09:25:05	0.0	1.1	28.0	0.7	-0.0	24.3	16.2	-4.4
09:25:14	0.0	1.0	27.6	1.3	-0.0	24.4	11.9	-4.4
09:25:24	0.0	1.0	27.6	1.5	-0.0	24.3	14.2	-4.4
09:25:34	0.0	1.0	27.6	0.9	-0.0	24.3	6.2	-4.4
09:25:44	0.0	0.9	27.8	0.4	-0.0	24.4	3.9	-4.4
09:25:54	0.0	1.0	27.8	0.1	-0.0	24.3	18.5	-4.4
09:26:04	0.0	1.0	27.8	0.5	-0.0	24.3	10.1	-4.4
09:26:14	0.0	0.9	27.6	1.1	-0.0	24.3	8.2	-4.4
09:26:24	0.0	1.0	27.7	1.1	-0.0	24.3	11.8	-4.4
09:26:34	0.0	0.9	27.6	1.0	-0.0	24.3	2.2	-4.4
09:26:44	0.0	1.0	27.7	1.0	-0.0	24.3	15.6	-4.4
09:26:54	0.0	0.9	27.8	0.3	-0.0	24.3	8.5	-4.4
Avg.=	0.0	1.0	27.7	0.8	-0.0	24.3	9.9	-4.4

HCl

RADIAN CORPORATION THRU SYS SO2=30 NOX=49

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-16-1991 Current Time = 09:29:54
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916B0A.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:29:54	0.0	1.0	33.1	1.5	-0.1	48.4	9.2	-4.4
09:30:04	0.0	1.1	32.5	0.8	-0.0	48.5	14.2	-4.4
09:30:14	0.0	1.0	32.9	1.1	-0.1	48.5	10.1	-4.4
09:30:24	0.0	1.0	33.3	1.4	-0.1	48.5	9.9	-4.4
09:30:34	0.0	1.0	32.7	1.6	-0.1	48.5	9.9	-4.4
09:30:44	0.0	1.0	32.5	1.0	-0.1	48.5	15.9	-4.4
09:30:54	0.0	1.0	32.7	0.8	-0.1	48.5	16.1	-4.4
09:31:04	0.0	0.9	32.6	0.7	-0.1	48.5	4.5	-4.4
09:31:14	0.0	1.0	32.7	0.9	-0.1	48.5	7.9	-4.4
09:31:24	0.0	0.9	32.5	1.2	-0.1	48.5	9.7	-4.4
09:31:34	0.0	1.0	32.6	1.3	-0.1	48.5	11.7	-4.4
09:31:44	0.0	0.9	32.9	1.0	-0.1	48.6	8.4	-4.4
09:31:54	0.0	0.9	32.9	0.6	-0.1	48.5	9.7	-4.4
09:32:03	0.0	0.9	33.1	0.5	-0.1	48.5	9.8	-4.4
Avg.=	0.0	1.0	32.8	1.0	-0.1	48.5	10.5	-4.4

BI
Run #9
Post Cals

Inlet

CALIBRATION SUMMARY
09-16-1991 17:29:30
CALIBRATION FILE NAME =D:\CEMDATA 0916BIF.CAL

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%	1.99	[illegible]	[illegible]	0.094	206.309	0.55
2	THC	ppmv	0.00	0.0337	89.80	8.704	10.387	-0.35
3	SO2	ppmv	0.00	0.0053	[illegible]	0.349	250.796	-1.45
4	CO	ppmv	0.00	0.0095	88.90	0.940	95.551	-0.91
5	CO2	%	0.00	-.0054	18.00	0.091	186.837	1.00
6	NOx	ppmv	0.00	-.0019	211.50	8.504	24.868	0.03
7	HCl	ppmv	0.00	-.0039	[illegible]	0.087	9191.543	35.97
8	Hg	ug/mC	0.00	0.0000	[illegible]	0.000	1.000	0.00
9			0.00	0.0000	[illegible]	0.000	1.000	0.00
10			0.00	0.0000	[illegible]	0.000	1.000	0.00
11			0.00	0.0000	[illegible]	0.000	1.000	0.00
12			0.00	0.0000	[illegible]	0.000	1.000	0.00
13			0.00	0.0000	[illegible]	0.000	1.000	0.00
14			0.00	0.0000	[illegible]	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press [illegible] to Continue

RC
Run #9
Post Cals

CALIBRATION SUMMARY
09-16-1991 17:29:36
CALIBRATION FILE NAME =D:\CEMDATA\0916B0.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	1.99	0.7941	20.00	8.062	2.478	0.02
2	Hg	ug/m3	0.00	-.0012	1536.00	1.587	967.378	1.16
3	SO2	ppmV	0.00	-.0011	86.00	0.183	467.764	0.50
4	CO	ppmV	0.00	0.0381	88.90	0.912	101.696	-3.87
5	CO2	%V	0.00	0.0020	18.00	0.092	200.011	-0.39
6	NOx	ppmV	0.00	-.0113	88.30	8.697	10.140	0.11
7	HCl	ppmV	0.00	0.0690	107.00	0.521	236.568	-16.33
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Outlet

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION HCL=49.1

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 07:29:35
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913B0.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
07:29:38	0.1	1.8	31.4	0.4	-0.0	48.7	39.1	-4.5
07:29:48	0.1	2.0	31.7	0.4	-0.1	48.7	45.1	-4.4
07:29:58	0.1	2.0	31.7	0.1	-0.1	48.7	48.2	-4.4
07:30:08	0.1	1.9	31.5	-0.3	-0.1	48.7	50.4	-4.4
07:30:18	0.1	1.9	31.4	-0.5	-0.1	48.7	40.5	-4.4
07:30:28	0.1	2.0	31.9	-0.1	-0.1	48.7	43.3	-4.4
07:30:38	0.1	1.9	31.5	0.4	-0.1	48.7	54.6	-4.4
07:30:48	0.1	2.0	31.8	0.4	-0.1	48.7	51.9	-4.4
07:30:58	0.1	2.0	31.8	0.1	-0.1	48.7	49.0	-4.4
07:31:08	0.0	2.1	31.7	-0.1	-0.1	48.7	50.3	-4.4
07:31:18	0.0	1.8	31.3	0.0	-0.1	48.7	42.5	-4.4
07:31:28	0.0	2.1	31.8	0.2	-0.0	48.8	43.5	-4.4
07:31:38	0.0	2.5	31.7	0.7	-0.0	48.8	52.6	-4.4
07:31:48	0.1	4.0	30.2	1.0	-0.0	41.4	50.0	-4.4
07:31:58	0.1	4.4	23.7	0.4	-0.0	34.4	50.2	-4.4
Avg.=	0.0	2.3	31.0	0.2	-0.0	47.3	47.4	-4.4

ENVIRAN CORPORATION NOX=25.9 SO2=24.3

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 07:36:56
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
07:36:57	0.0	1.6	25.4	1.4	-0.0	24.4	15.2	-4.4
07:37:07	0.0	1.8	25.8	0.9	-0.0	24.4	10.3	-4.4
07:37:17	0.0	1.8	25.7	0.5	-0.0	24.4	9.0	-4.4
07:37:27	0.0	1.8	25.7	0.0	-0.0	24.4	7.6	-4.4
07:37:37	0.0	1.8	25.9	0.5	-0.0	24.4	11.3	-4.4
07:37:47	0.0	1.7	25.6	1.4	-0.0	24.4	13.4	-4.4
07:37:57	0.0	1.8	25.9	0.9	-0.0	24.4	13.3	-4.4
07:38:06	0.0	1.7	25.6	0.7	-0.0	24.4	8.5	-4.4
07:38:16	0.0	1.7	25.8	0.5	-0.0	24.4	4.2	-4.4
07:38:26	0.0	1.7	25.8	0.2	-0.0	24.4	3.3	-4.4
Avg.=	0.0	1.7	25.7	0.7	-0.0	24.4	9.6	-4.4

RADIAN CORPORATION HCL=9.53

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 07:39:06
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
07:39:06	0.0	4.2	24.5	2.0	0.2	23.4	13.3	-4.5
07:39:16	0.1	6.8	14.8	5.8	1.5	20.8	8.9	-4.4
07:39:26	0.9	6.8	9.6	6.7	0.9	11.0	8.5	-4.4
07:39:36	4.1	7.0	7.5	5.4	0.1	6.6	8.9	-4.4
07:39:46	11.5	7.2	6.6	3.9	0.1	5.1	13.1	-4.4
07:39:56	17.6	7.3	6.2	2.4	0.1	4.0	12.1	-4.4
07:40:06	20.1	7.5	6.1	1.5	0.1	3.5	10.9	-4.4
07:40:16	20.8	7.2	5.6	0.8	0.1	2.1	5.9	-4.4
07:40:26	20.8	7.0	5.4	0.1	0.1	1.1	3.8	-4.4
07:40:36	20.8	7.2	5.2	0.3	0.1	1.1	6.8	-4.4
07:40:46	20.8	7.3	5.3	1.1	0.1	1.1	15.4	-4.4
07:40:56	20.8	7.6	5.1	0.6	0.1	1.0	15.3	-4.4
07:41:06	20.8	7.7	5.3	-0.2	0.1	1.0	8.6	-4.4
07:41:16	20.8	7.9	5.1	-0.2	0.1	0.9	7.6	-4.4
07:41:25	20.8	11.5	5.0	-0.2	0.1	3.5	7.6	-4.4
07:41:35	20.8	5.3	6.2	2.5	2.5	1.1	8.7	-4.4
Avg.=	15.1	7.2	7.7	2.0	0.4	5.5	9.7	-4.4

RADIAN CORPORATION SO2=9 O2=10 CO=44

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 07:43:13
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
07:43:14	9.9	3.1	3.3	43.7	9.1	-0.1	13.6	-4.4
07:43:24	9.9	2.8	3.0	43.9	9.2	-0.1	11.8	-4.4
07:43:34	9.9	2.6	2.3	43.8	9.2	-0.1	14.1	-4.4
07:43:44	9.9	2.5	2.1	44.5	9.2	-0.1	12.3	-4.4
07:43:54	9.9	2.5	2.1	44.7	9.2	-0.1	14.1	-4.4
07:44:04	9.9	2.7	2.6	44.2	9.2	-0.1	14.1	-4.4
07:44:14	9.9	2.5	1.8	43.5	9.2	-0.1	11.8	-4.4
07:44:24	9.9	2.7	1.7	43.6	9.2	-0.1	12.3	-4.4
07:44:34	9.9	2.5	1.7	43.9	9.2	-0.1	16.1	-4.4
07:44:44	10.0	2.4	1.5	44.4	9.2	-0.1	17.5	-4.4
07:44:53	9.9	2.3	1.3	44.5	9.2	-0.1	8.9	-4.4
07:45:03	9.9	2.5	2.0	43.9	9.2	-0.1	11.8	-4.4
07:45:13	9.9	2.5	2.6	43.8	9.2	-0.1	12.8	-4.4
Avg.=	9.9	2.6	2.2	44.0	9.2	-0.1	13.2	-4.4

RADIAN CORPORATION 02=4.99 CO2=5.02 CO=19.9

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 07:51:35
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
07:51:36	5.0	63.1	0.4	18.9	5.2	-0.1	19.4	-4.4
07:51:46	5.0	62.9	0.8	17.9	5.2	-0.1	2.2	-4.4
07:51:56	5.0	63.0	1.3	18.5	5.2	-0.1	7.3	-4.4
07:52:06	5.0	62.9	1.3	18.3	5.2	-0.1	15.1	-4.4
07:52:16	5.0	63.1	1.3	18.6	5.2	-0.1	14.2	-4.4
07:52:26	5.0	62.9	0.5	17.8	5.2	-0.1	11.7	-4.4
07:52:36	5.0	63.0	1.4	17.0	5.2	-0.1	11.7	-4.4
07:52:46	5.0	63.1	1.0	18.0	5.2	-0.1	10.7	-4.4
07:52:56	5.0	63.0	0.7	18.4	5.2	-0.1	10.8	-4.4
07:53:06	5.0	62.9	0.6	18.6	5.2	-0.1	14.8	-4.4
07:53:16	5.0	62.9	0.1	18.7	5.2	-0.1	16.3	-4.4
07:53:26	5.0	63.1	1.9	18.1	5.2	-0.1	16.5	-4.4
07:53:36	5.0	63.0	0.9	17.3	5.2	-0.1	10.1	-4.4
07:53:46	5.0	62.9	0.6	18.0	5.2	-0.1	4.5	-4.4
07:53:55	5.0	62.9	0.6	18.7	5.2	-0.1	5.7	-4.4
07:54:05	5.0	63.0	0.6	18.9	5.2	-0.1	7.8	-4.4
Avg.=	5.0	63.0	0.9	18.2	5.2	-0.1	11.2	-4.4

RADIAN CORPORATION O2=10 CO2=9.99 CO=59.5

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 07:56:54
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
07:56:55	9.9	112.7	1.2	58.0	10.1	-0.1	6.3	-4.4
07:57:05	9.9	112.7	1.7	59.1	10.1	-0.1	13.3	-4.4
07:57:15	10.0	112.7	1.3	58.8	10.1	-0.1	16.2	-4.4
07:57:25	9.9	112.8	1.0	58.1	10.1	-0.1	11.3	-4.4
07:57:35	9.9	112.8	1.0	58.2	10.1	-0.1	3.3	-4.4
07:57:45	9.9	112.9	2.1	58.3	10.1	-0.1	6.0	-4.4
07:57:55	10.0	112.8	1.0	59.0	10.1	-0.1	10.6	-4.4
07:58:05	9.9	112.7	0.9	59.3	10.1	-0.1	12.4	-4.4
07:58:15	9.9	112.9	1.6	59.1	10.1	-0.1	13.4	-4.4
07:58:24	9.9	112.7	1.0	58.9	10.1	-0.1	11.0	-4.4
07:58:34	10.0	113.0	1.8	58.4	10.1	-0.1	5.2	-4.4
07:58:44	10.0	113.0	2.1	58.2	10.1	-0.1	3.1	-4.4
07:58:54	10.0	112.9	1.9	58.7	10.1	-0.1	9.4	-4.4
07:59:04	10.0	112.8	1.4	59.0	10.1	-0.1	12.4	-4.4
07:59:14	10.0	112.8	1.3	59.1	10.0	-0.1	10.4	-4.4
07:59:24	9.9	112.6	1.7	59.0	10.0	-0.1	14.0	-4.4
Avg.=	9.9	112.8	1.4	58.7	10.1	-0.1	9.9	-4.4

RADIAN CORPORATION SYSTEM LEAK CHK W/N2

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 09:11:48
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	O2 %V	THC PPM	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:12:06	0.1	3.6	0.9	1.7	0.0	-0.5	8.8	-4.4
09:13:06	0.1	3.5	0.8	2.1	0.0	-0.5	9.4	-4.4
09:14:06	0.1	3.5	0.9	1.9	0.0	-0.5	7.6	-4.4
09:15:06	0.1	3.4	1.0	1.9	0.0	-0.5	7.5	-4.4
09:16:06	0.1	3.5	0.8	1.9	0.0	-0.5	9.6	-4.4
09:17:06	0.1	3.4	1.1	1.9	0.0	-0.5	8.1	-4.4
09:18:06	0.1	3.6	1.2	2.1	0.0	-0.5	9.0	-4.4
09:19:06	0.1	3.4	1.6	1.9	0.0	-0.5	10.5	-4.4
09:20:06	0.1	3.4	1.2	2.0	0.0	-0.5	10.1	-4.4
09:21:05	0.1	3.4	1.5	1.9	0.0	-0.6	10.9	-4.4
09:22:05	0.1	3.2	1.1	1.8	0.0	-0.6	10.5	-4.4
09:23:05	0.1	3.2	1.0	1.9	0.0	-0.6	8.9	-4.4
09:24:05	0.1	3.0	1.2	1.7	0.0	-0.6	8.4	-4.4
Avg.=	0.1	3.4	1.1	1.9	0.0	-0.5	9.2	-4.4

RADIAN CORPORATION LEAK CHK W/N2 THRU SYSTEM

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-13-1991 Current Time = 10:02:17
File Name = D:\CEMDATA\091391.PRN Calibration File:D:\CEMDATA\0913BO.CAL

09-13-1991 Time	OD %V	THC PPM	CO2 ppmV	CO ppmV	SO2 %V	NOx ppmV	HCl ppmV	
10:02:17	0.1	3.5	0.5	2.4	0.0	-0.0	9.7	-4.4
10:02:27	0.1	3.1	0.7	2.4	0.0	-0.0	11.1	-4.5
10:02:37	0.1	3.5	1.1	2.3	0.0	-0.0	7.7	-4.4
10:02:47	0.1	3.5	0.8	1.7	0.0	-0.0	8.6	-4.4
10:02:57	0.1	3.6	0.7	2.3	0.0	-0.0	9.9	-4.4
10:03:07	0.1	3.2	0.6	2.6	0.0	-0.0	13.5	-4.4
10:03:17	0.1	3.5	1.1	3.0	0.0	-0.0	9.1	-4.4
Avg.=	0.1	3.4	0.8	2.4	0.0	-0.0	9.9	-4.4

B0
Run #7
Post Cal.
Outlet

CALIBRATION SUMMARY
09-13-1991 15:24:20
CALIBRATION FILE NAME =D:\CEMDATA\0913B0F.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	2.01	0.7970	20.00	8.079	2.471	0.04
2	THC	PPM	0.00	0.0596	200.00	8.755	23.000	-1.37
3	SO2	ppmV	0.00	0.0044	86.00	0.183	482.112	-2.12
4	CO	ppmV	0.00	0.0089	88.90	0.884	101.630	-0.90
5	CO2	%V	0.00	0.0020	18.00	0.092	200.382	-0.40
6	NOx	ppmV	0.00	-.0147	88.30	8.706	10.126	0.15
7	HCl	ppmV	0.00	0.0370	107.00	0.562	203.703	-7.55
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print This Table
Press [illegible] to Continue

CEM system response time ...

BI (Inlet)

-DIAN CORPORATION RESPONSE TIME NO=7 SO2=98.2

.eld Testing and Process Engineering Dept.
:ntinuous Emissions Monitoring Data
:RGESS MWI
:LAMAZOO,MI
:rformed for: EPA
:te Printed = 09-16-1991 Current Time = 09:36:58
.le Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\091681.CAL

response based on SO_2

SO_2 98.2 · 85% = 83.47 ppm
response time < 2 minutes

9-16-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3	
9:36:59	0.5	0.1	-0.3	2.3	-0.0	-0.0	304.3	-4.2	← SHOOT 98.2 ppm SO_2 up a line
9:37:09	0.5	0.1	-0.7	2.3	-0.0	-0.0	387.4	-4.2	
9:37:19	0.5	1.1	-0.8	2.3	-0.0	-0.0	389.3	-4.2	
9:37:29	0.6	3.0	-0.0	2.4	-0.1	-0.0	389.4	-4.2	
9:37:39	0.6	2.6	5.2	2.5	-0.1	-0.0	388.2	-4.2	
9:37:49	0.7	1.1	25.3	2.5	-0.0	-0.0	388.2	-4.2	
9:37:59	1.5	0.3	55.3	2.5	-0.0	-0.0	385.4	-4.2	
9:38:08	1.5	0.2	78.2	2.4	-0.0	-0.0	385.8	-4.2	
9:38:18	1.2	0.3	89.3	2.4	-0.0	-0.0	386.0	-4.2	← ø < 85% of full response
9:38:28	0.6	0.4	93.1	2.3	-0.0	-0.0	388.7	-4.2	
9:38:38	0.5	0.4	94.6	2.3	-0.0	-0.0	388.7	-4.2	
9:38:48	0.6	0.2	95.2	2.3	-0.0	-0.0	388.1	-4.2	
9:38:58	0.6	0.4	95.7	2.4	-0.0	-0.0	388.2	-4.2	
9:39:08	0.6	0.3	95.8	2.4	-0.0	-0.0	387.8	-4.2	
9:39:18	0.5	0.3	96.0	2.3	-0.0	-0.0	387.8	-4.2	
9:39:28	0.7	0.3	96.1	2.3	-0.0	-0.0	387.5	-4.2	
9:39:38	0.6	0.3	96.1	2.3	-0.0	-0.0	388.4	-4.2	
9:39:48	0.6	0.3	96.4	2.4	-0.0	-0.0	340.2	-4.2	
9:39:58	0.6	0.3	96.6	2.4	-0.0	-0.0	350.6	-4.2	
9:40:08	0.6	0.3	96.8	2.3	-0.0	-0.0	341.6	-4.2	
9:40:18	0.6	0.3	96.8	2.3	-0.0	-0.0	349.6	-4.2	
9:40:28	0.5	0.3	96.8	2.3	-0.0	-0.0	388.4	-4.2	
9:40:38	0.6	0.3	96.9	2.3	-0.0	-0.0	387.7	-4.2	
[illegible]									
[illegible]									
[illegible]									
9:41:17	0.6	0.2	96.9	2.3	-0.0	-0.0	387.8	-4.2	
9:41:27	0.8	0.2	97.1	2.3	-0.0	-0.0	387.2	-4.2	
9:41:37	0.6	0.3	97.0	2.4	-0.0	-0.0	387.8	-4.2	
9:41:47	0.5	0.3	97.2	2.4	-0.0	-0.0	388.6	-4.2	
9:41:57	0.4	0.2	89.6	2.3	-0.0	-0.0	389.1	-4.2	← 0947 Shoot N2 (zero gas)
9:42:07	0.6	0.1	55.0	2.2	-0.0	-0.0	347.7	-4.2	
9:42:17	0.5	0.1	20.1	2.2	-0.0	-0.0	345.4	-4.2	
9:42:27	0.5	0.2	7.2	2.2	-0.0	-0.0	387.8	-4.2	
9:42:37	0.4	0.1	3.2	2.2	-0.0	0.0	389.1	-4.2	
9:42:47	0.6	-0.0	1.7	2.3	-0.0	0.0	388.2	-4.2	
9:42:57	0.6	0.0	1.1	2.3	-0.0	-0.0	387.9	-4.2	
9:43:07	0.5	0.1	0.9	2.2	-0.0	0.0	388.9	-4.2	
9:43:17	0.5	0.2	0.6	2.3	-0.0	-0.0	388.8	-4.2	
9:43:47	0.5	0.1	0.2	2.3	-0.0	-0.0	388.6	-4.2	0947 Shoot span
9:44:17	0.5	0.1	-0.1	2.3	-0.0	0.0	389.5	-4.2	
9:44:46	0.5	0.1	-0.1	2.3	-0.0	-0.0	402.0	-4.2	
9:45:16	0.5	0.1	-0.3	2.2	-0.0	-0.0	494.6	-4.2	
9:45:46	0.5	0.1	-0.2	2.3	-0.0	-0.0	535.2	-4.2	
9:46:16	0.5	0.1	-0.4	2.3	-0.0	-0.0	582.1	-4.2	
9:46:46	0.5	0.7	-0.3	2.3	-0.0	-0.0	651.2	-4.2	

Full (+ 85%)

9-16-1991 ime	C2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	g ng/m3
:47:16	0.6	2.2	16.9	2.5	-0.0	-0.0	678.2	-4.2
:47:46	0.7	0.5	81.6	2.5	-0.0	-0.0	773.8	-4.2
:48:16	0.7	0.3	95.3	2.3	-0.0	-0.0	558.4	-4.2
:48:46	0.7	0.3	96.7	2.3	-0.0	-0.0	445.6	-4.2
:49:16	0.6	0.3	96.8	2.4	-0.0	-0.0	424.6	-4.2
:49:46	0.6	0.3	97.1	2.3	-0.0	-0.0	388.1	-4.2
:50:16	0.5	0.3	97.1	2.3	-0.0	-0.0	388.6	-4.2
:50:46	0.5	0.3	97.3	2.3	-0.0	-0.0	388.8	-4.2
:51:16	0.5	0.3	97.3	2.3	-0.0	-0.0	389.1	-4.2
:51:46	0.4	0.2	96.0	2.3	-0.0	-0.0	389.2	-4.2
:52:15	0.5	0.0	30.2	2.1	-0.0	0.0	389.2	-4.2
:52:45	0.4	0.1	2.0	2.1	-0.0	0.0	389.4	-4.2
:53:15	0.6	0.0	0.5	2.0	-0.0	0.0	388.7	-4.2
:53:45	0.5	0.0	0.2	2.1	-0.0	0.0	359.8	-4.2
:54:15	0.5	0.1	-0.1	2.0	-0.0	0.0	389.0	-4.2
:54:45	0.5	0.0	-0.2	2.1	-0.0	0.0	389.4	-4.2
Avg.=	0.6	0.4	54.1	2.3	-0.0	-0.0	406.4	-4.2

0972 Shoot Span

CEM System Response Time Test

RADIAN CORPORATION RESPONSE TIME NO=97 SO2=98.2

BO (outlet)

response based on SO_2

SO_2 98.2 · 85% = 83.47 ppm

response time < 2 minutes

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-16-1991 Current Time = 09:36:55
File Name = D:\CEMDATA\091691.PRN Calibration File:D:\CEMDATA\0916BOA.CAL

09-16-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
09:36:56	0.0	1.4	3.0	1.0	0.0	0.0	14.7	-4.4
09:37:06	0.0	1.2	2.9	0.7	0.0	0.1	9.1	-4.4
09:37:16	0.0	1.2	3.0	0.9	-0.0	8.0	2.4	-4.4
09:37:26	0.0	1.0	9.6	0.9	0.3	26.9	6.5	-4.4
09:37:36	0.1	0.9	15.4	0.7	2.2	51.2	10.4	-4.4
09:37:46	1.0	0.8	33.2	0.1	2.5	83.5	15.9	-4.4
09:37:56	3.4	0.8	64.7	-0.9	0.9	93.6	13.3	-4.4
09:38:06	5.0	0.8	81.2	-0.8	-0.1	94.5	4.0	-4.4
09:38:16	3.8	0.7	87.4	-0.4	-0.1	94.7	5.9	-4.4
09:38:26	1.5	0.7	90.0	0.8	-0.1	94.8	2.7	-4.4
09:38:36	0.4	0.7	91.3	1.5	-0.1	94.9	15.8	-4.4
09:38:45	0.1	0.7	91.8	1.2	-0.1	95.0	11.9	-4.4
09:38:55	0.1	0.7	92.9	1.0	-0.1	95.0	13.7	-4.4
09:39:05	0.1	0.7	93.3	0.6	-0.1	95.1	4.1	-4.4
09:39:15	0.1	0.8	93.8	0.5	-0.1	95.1	11.6	-4.4
09:39:25	0.0	0.8	94.2	1.2	-0.1	95.2	4.0	-4.4
09:39:35	0.0	0.8	95.5	1.5	-0.1	95.2	11.8	-4.4
09:39:45	0.0	0.8	95.6	1.2	-0.1	95.2	14.1	-4.4
09:39:55	0.0	0.8	96.2	1.2	-0.1	95.2	11.8	-4.4
09:40:05	0.0	0.8	96.1	0.8	-0.1	95.2	8.1	-4.4
09:40:15	0.0	0.8	96.0	0.2	-0.1	95.2	11.8	-4.4
09:40:25	0.0	0.8	96.2	0.7	-0.1	95.3	8.1	-4.4
09:40:35	0.0	0.8	96.2	1.4	-0.1	95.2	11.3	-4.4
09:40:45	0.0	0.8	96.2	1.5	-0.1	95.2	22.3	-4.4
09:40:55	0.0	0.8	96.2	1.2	-0.1	95.2	16.0	-4.4
09:41:05	0.0	0.8	96.7	0.8	-0.1	95.1	3.8	-4.4
09:41:15	0.0	0.8	97.0	0.4	-0.1	95.3	3.8	-4.4
09:41:25	0.0	0.8	97.1	0.5	-0.1	95.2	14.1	-4.4
09:41:34	0.0	0.8	97.0	1.2	-0.1	95.2	9.8	-4.4
09:41:44	0.0	0.9	97.0	1.4	-0.1	67.0	11.8	-4.4
09:41:54	0.0	1.2	71.3	0.9	-0.0	5.0	16.1	-4.4
09:42:04	0.0	1.2	29.8	0.8	0.0	1.2	8.2	-4.4
09:42:14	0.0	1.2	18.8	0.8	0.0	0.7	-2.4	-4.4
09:42:24	0.0	1.1	12.3	0.8	0.0	0.5	-0.6	-4.4
09:42:34	0.0	1.1	10.2	1.2	0.0	0.3	15.9	-4.4
09:42:44	0.0	1.1	9.2	1.5	0.0	0.3	14.3	-4.4
09:42:54	0.0	1.1	8.8	1.3	0.0	0.2	10.1	-4.4
09:43:04	0.0	1.1	7.2	1.3	0.0	0.2	10.0	-4.4
09:43:14	0.0	1.1	7.8	0.8	0.0	0.1	10.0	-4.4
09:43:24	0.0	1.1	6.3	0.7	0.0	0.1	10.0	-4.4
09:43:54	0.0	1.1	5.5	1.4	0.0	0.1	11.4	-4.4
09:44:24	0.0	1.1	4.0	0.8	0.0	0.0	3.6	-4.4
09:44:54	0.0	1.1	3.3	1.2	0.0	0.0	10.1	-4.4
09:45:24	0.0	1.0	3.2	1.0	0.0	-0.0	3.0	-4.4
09:45:54	0.0	1.0	3.1	1.1	0.0	-0.0	12.0	-4.4
09:46:23	0.0	1.0	3.0	0.7	0.0	-0.0	8.1	-4.4

O2 start 12

O2 start 2

09-16-1991	O2	Hg	SO2	CO	CO2	NOx	HCl	
TIme	%V	ug/m3	ppmV	ppmV	%V	ppmV	ppmV	
09:46:53	0.0	0.9	6.7	1.5	0.3	14.6	13.3	-4.4
09:47:23	1.9	0.6	39.1	-0.7	2.0	71.6	8.6	-4.4
09:47:53	4.6	0.5	82.0	-0.2	0.1	94.5	16.5	-4.4
09:48:23	0.5	0.5	89.8	0.8	-0.1	94.9	6.2	-4.4
09:48:53	0.1	0.5	91.4	0.8	-0.1	95.1	13.4	-4.4
09:49:23	0.0	0.5	93.6	1.1	-0.1	95.2	8.6	-4.4
09:49:53	0.0	0.5	95.0	1.0	-0.1	95.2	14.1	-4.4
09:50:23	0.0	0.5	96.4	0.9	-0.1	95.2	4.3	-4.4
09:50:53	0.0	0.5	96.8	0.5	-0.1	95.3	11.7	-4.4
09:51:23	0.0	0.5	97.1	0.4	-0.1	95.3	11.6	-4.4
09:51:53	0.0	0.8	70.6	0.8	-0.0	29.8	16.0	-4.4
09:52:23	0.0	1.0	13.3	1.2	0.0	0.5	12.6	-4.4
09:52:53	0.0	1.0	8.3	0.4	0.0	0.2	14.2	-4.4
09:53:23	0.0	1.0	5.5	1.4	0.0	0.1	8.3	-4.4
09:53:52	0.0	1.0	3.6	0.5	0.0	0.1	10.0	-4.4
09:54:22	0.0	1.0	3.1	1.1	0.0	0.0	10.0	-4.4
09:54:52	0.0	1.0	3.1	0.8	0.0	0.0	14.9	-4.4
Avg.=	0.4	0.9	53.9	0.8	0.1	52.5	10.1	-4.4

SPIKE 96.2 ppm SO_2 UP THE LINE

Nox Converter efficiency test

pg 1/

INLET

CALIBRATION SUMMARY
19-15-1991 12:25:45
CALIBRATION FILE NAME #1: CEM1978\091591.CAL

NOx CAL

CONVERTER TAKEN FROM INOPERABLE INLET ANALYZER (OAD O_3 GENERATOR) AND TESTED IN OPERABLE OUTLET NOx ANALYZER.

Chan.	Name	Units	Zero Conc.	Zero Resp.	Span Conc.	Span Resp.	Slope	Int.
1	O2	%	1.00	0.0001	20.00	0.089	217.979	0.07
2	THC	ppmv	1.00	1.0568	89.50	8.644	10.219	-0.32
3	SO2	ppmv	0.00	0.0002	80.00	0.741	252.924	-0.02
4	CO	ppmv	0.00	0.0075	88.90	0.921	96.248	-0.72
5	CO2	%	0.00	-0.0060	10.00	0.971	187.218	0.99
6	NOx	ppmv	0.00	0.0238	211.50	8.504	24.941	-0.59
7	HCl	ppmv	0.00	-0.0029	809.00	0.087	9248.911	27.21
8	Hg	ug/m3	1.00	1.0000	1.00	1.000	1.000	0.00
9			0.00	0.0000	1.00	1.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press CR to Continue

INLET

NOx QC

...ion Monitoring and Process Engineering Dept.
...ntinuous Emissions Monitoring Data
...
...
...
...Printed by: ...
...e Printed: 9-16-1991 Current Time: 12:47:25
...e Name: C:\CEM1978\091591.CAL Calibration File: C:\CEM1978\091591.CAL

9-15-1991 Time	O2 %	THC ppmv	SO2 ppmv	CO ppmv	CO2 %	NOx ppmv	HCl ppmv	Hg ug/m3
12:47:25	10.3	0.1	+0.2	-1.3	+0.1	41.3	107.2	-4.2
12:48:25	10.4	0.1	+0.2	1.3	+0.1	41.5	108.0	-4.2
12:49:25	10.4	0.1	+0.2	1.3	+0.1	42.1	107.3	-4.2
12:50:25	10.4	0.1	+0.2	1.3	+0.1	42.0	107.2	-4.2

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FALL.

3/5

INLET

NOx QC

ENCLD

[illegible] CORPORATION NOx=[illegible] NO=[illegible] [illegible] #ALM[illegible]

[illegible] Testing and Process Engineering Dept.
[illegible] Emissions Monitoring Data
[illegible]
[illegible]
[illegible] EPA
[illegible] Printed = [illegible] Current Time = [illegible]
[illegible] Name = [illegible] Calibration File:[illegible]

[illegible]	O2	THC	SO2	CO	CO2	NOx	HCl	Hg
[illegible]	%V	ppmv	ppmv	ppmv	%V	ppmV	ppmV	ug/m3
[illegible]	20.4	[illegible]	-0.5	[illegible]	-0.1	100.8	106.5	-4.2
[illegible]	20.5	[illegible]	-0.4	[illegible]	-0.1	101.6	101.0	-4.2
[illegible]	20.4	5.2	-0.4	[illegible]	-0.1	101.4	106.0	-4.2
[illegible]	20.4	[illegible]	-0.5	[illegible]	-0.1	101.8	106.[illegible]	-4.2
[illegible]	20.4	[illegible]	-0.4	[illegible]	-0.1	101.8	105.9	-4.2
[illegible]	20.4	[illegible]	[illegible]	[illegible]	-0.1	101.8	105.8	-4.2
[illegible]	20.4	[illegible]	[illegible]	[illegible]	-0.1	102.0	105.7	-4.2
[illegible]	20.4	[illegible]	-0.1	[illegible]	-0.1	102.[illegible]	105.7	-4.2
[illegible]	20.4	4.1	-0.4	[illegible]	-0.1	101.6	105.[illegible]	-4.2

-DIAN CORPORATION N02=206 PPM CYL. #ALM018841
4

:eld Testing and Process Engineering Dept.
:ntinuous Emissions Monitoring Data
:RGESS MHI
-.AMAZOO,MI
erformed for: EPA
ate Printed = 09-15-1991 Current Time = 13:14:06
.le Name = D:\CEMDATA\091591.PRN Calibration File:D:\CEMDATA\091591.CAL

CONVERTER CHECK
204 ppm NO_2

09-15-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
13:14:07	20.5	3.0	-0.2	0.0	-0.1	45.6	104.9	-4.2
13:15:07	20.5	3.0	-0.0	0.0	-0.1	46.3	104.5	-4.2
13:16:07	20.5	3.0	-0.1	0.0	-0.1	47.8	104.8	-4.2
13:17:07	20.5	3.1	-0.1	0.0	-0.1	49.1	104.8	-4.2
13:18:07	20.5	3.1	0.0	0.0	-0.1	50.5	104.9	-4.2
13:19:07	20.5	3.1	0.1	0.0	-0.1	51.8	104.9	-4.2
13:20:06	20.5	3.1	0.1	-0.0	-0.1	53.1	104.8	-4.2
13:21:06	20.5	3.2	0.1	0.0	-0.1	54.6	104.9	-4.2
13:22:06	20.5	3.3	0.2	0.0	-0.1	55.7	104.9	-4.2
13:23:06	20.5	3.3	0.3	0.0	-0.1	56.9	104.9	-4.2
13:24:06	20.5	3.3	0.3	0.0	-0.1	58.1	104.8	-4.2
13:25:06	20.5	3.4	0.3	0.0	-0.1	58.8	104.8	-4.2
13:26:06	20.4	3.4	0.2	0.0	-0.1	59.7	104.8	-4.2
13:27:06	20.4	3.4	0.4	0.0	-0.1	60.5	104.7	-4.2
13:28:06	20.4	3.5	0.4	0.0	-0.1	61.3	104.7	-4.2
13:29:06	20.4	3.6	0.4	0.0	-0.1	62.3	104.7	-4.2
13:30:06	20.5	3.6	0.5	0.1	-0.1	62.9	104.7	-4.2
13:31:06	20.5	3.6	0.6	0.0	-0.1	63.8	104.7	-4.2
13:32:06	20.4	3.7	0.5	0.0	-0.1	64.3	104.7	-4.2
13:33:05	20.4	3.6	0.5	0.0	-0.1	64.9	104.7	-4.2
13:34:05	20.5	3.7	0.6	0.0	-0.1	66.0	104.6	-4.2
13:35:05	20.4	3.7	0.6	0.0	-0.1	66.4	104.7	-4.2
13:36:05	20.4	3.7	0.7	0.1	-0.1	67.2	104.5	-4.2
13:37:05	20.4	3.7	0.8	0.1	-0.1	67.7	104.5	-4.2
13:38:05	20.4	3.8	0.8	0.0	-0.1	68.0	104.5	-4.2
13:39:05	20.4	3.8	0.9	0.0	-0.1	69.5	104.4	-4.2
13:40:05	20.4	3.8	0.8	-0.0	-0.1	69.6	104.3	-4.2
13:41:05	20.4	4.0	0.9	-0.0	-0.1	70.1	104.2	-4.2
13:42:05	20.4	3.9	0.9	0.0	-0.1	70.7	104.2	-4.2
13:43:05	20.4	3.9	1.0	-0.0	-0.1	71.9	104.1	-4.2
13:44:05	20.4	3.9	1.1	-0.0	-0.1	72.6	104.1	-4.2
13:45:05	20.4	3.9	1.1	0.0	-0.1	72.9	104.0	-4.2
Avg.=	20.4	3.5	0.5	0.0	-0.1	61.3	104.6	-4.2

Nox Monitor 5/5
Tele 10 AR (INLET)
SN 10AR-24758-217

NO_2 = 204 ppm

DIAN CORPORATION NOX CONVERSON EFFCENCY

eld Testing and Process Engineering Dept.
ntinuous Emissions Monitoring Data
RGESS MWI
LAMAZOO,MI
rformed for: EPA
te Printed = 09-15-1991 Current Time = 13:46:52
le Name = D:\CEMDATA\091591.PRN Calibration File:D:\CEMDATA\091591.CAL

9-15-1991 Time	O2 %V	THC ppmV	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	Hg ug/m3
3:47:04	20.4	3.9	1.2	-0.0	-0.1	74.0	103.2	-4.2
3:48:04	20.4	3.9	1.2	0.0	-0.1	74.7	103.8	-4.2
3:49:04	20.4	4.0	1.3	-0.0	-0.1	75.2	103.7	-4.2
3:50:04	20.4	4.0	1.3	0.0	-0.1	76.8	103.6	-4.2
3:51:04	20.4	4.2	1.4	-0.0	-0.1	77.2	103.5	-4.2
3:52:04	20.4	4.0	1.5	-0.0	-0.1	77.6	103.4	-4.2
3:53:04	20.4	4.0	1.6	-0.0	-0.1	78.6	103.4	-4.2
3:54:04	20.4	3.9	1.4	-0.0	-0.1	79.3	103.3	-4.2
3:55:04	20.4	3.9	1.5	-0.0	-0.1	79.9	103.3	-4.2
3:56:04	20.4	3.9	1.6	-0.0	-0.1	80.6	103.1	-4.2
3:57:04	20.4	3.9	1.5	-0.0	-0.1	81.1	103.0	-4.2
3:58:04	20.4	3.9	1.6	0.0	-0.1	81.5	103.1	-4.2
3:59:03	20.4	3.9	1.6	-0.0	-0.1	82.0	103.0	-4.2
4:00:03	20.4	3.9	1.7	-0.1	-0.1	82.4	102.9	-4.2
4:01:03	20.4	4.0	1.8	-0.0	-0.1	82.9	102.8	-4.2
4:02:03	20.4	3.9	1.7	-0.0	-0.1	83.5	102.8	-4.2
4:03:03	20.4	3.9	1.7	0.1	-0.1	84.0	102.7	-4.2
4:04:03	20.4	3.9	1.8	0.0	-0.1	84.2	102.7	-4.2
4:05:03	20.4	4.0	1.9	-0.0	-0.1	84.9	102.6	-4.2
4:06:03	20.4	4.0	1.8	-0.1	-0.1	85.2	102.6	-4.2
4:07:03	20.4	4.0	1.8	-0.0	-0.1	85.7	102.5	-4.2
4:08:03	20.4	3.9	1.8	0.0	-0.1	86.0	102.4	-4.2
14:09:03	20.4	3.8	1.9	-0.0	-0.1	86.4	102.3	-4.2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14:13:02	20.4	3.9	2.0	-0.0	-0.1	87.1	102.2	-4.2
14:14:02	20.4	3.9	2.0	-0.1	-0.1	86.9	102.0	-4.2
14:15:02	20.4	3.9	2.0	-0.0	-0.1	88.6	101.9	-4.2
14:16:02	20.4	3.9	2.0	-0.0	-0.1	89.1	101.9	-4.2
14:17:02	20.4	3.8	1.9	0.0	-0.1	89.0	101.9	-4.2
14:18:02	20.4	3.9	2.0	-0.0	-0.1	89.5	101.8	-4.2
Avg.=	20.4	3.9	1.7	-0.0	-0.1	83.0	102.8	-4.2

(OUTLET)

RADIAN CORPORATION NOX=101.8 HG=100.1 ALM018708

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-15-1991 Current Time = 14:58:23
File Name = D:\CEMDATA\091591.PRN Calibration File:D:\CEMDATA\091591.CAL

NOx QC

09-15-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
14:58:23	0.5	-1.0	2.9	-3.1	-0.0	102.8	12.2	-4.4
14:59:23	0.0	-1.1	2.3	-2.1	-0.1	102.9	9.6	-4.4
15:00:23	0.0	-1.1	2.2	-1.9	-0.1	102.9	10.8	-4.4
15:01:23	0.0	-1.1	2.1	-2.0	-0.1	102.8	12.6	-4.4
15:02:23	0.0	-1.1	2.0	-1.8	-0.1	102.8	7.6	-4.4
15:03:23	0.0	-1.1	2.0	-1.6	-0.1	102.7	14.2	-4.4
15:04:23	0.0	-1.1	2.0	-1.5	-0.1	102.7	10.7	-4.4
Avg.=	0.1	-1.1	2.2	-2.0	-0.1	102.8	11.1	-4.4

page 2/5
outlet

RADIAN CORPORATION NOX=40.8 NO=39.7 ALM018708

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: KPA
Date Printed = 09-15-1991 Current Time = 15:08:42
File Name = D:\CEMDATA\091591.PRN Calibration File:D:\CEMDATA\091591.CAL

NOx QC

09-15-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
15:08:48	0.0	-0.9	1.1	-1.3	-0.0	41.2	15.0	-4.4
15:09:48	0.0	-1.0	1.3	-1.2	-0.0	40.5	14.2	-4.4
15:10:48	0.0	-1.0	1.2	-1.4	-0.0	40.2	9.9	-4.4
15:11:48	0.0	-1.0	1.0	-1.2	-0.0	40.1	10.7	-4.4
15:12:48	0.0	-1.0	1.0	-1.3	-0.0	39.9	12.1	-4.4
Avg.=	0.0	-1.0	1.1	-1.3	-0.0	40.4	12.4	-4.4

Nox Monitor outlet
Teco Model 15
SN 10 A/R-25558-221

RADIAN CORPORATION N02=204 NOX CONV. EFF. TEST

Field Testing and Process Engineering Dept.
Continuous Emissions Monitoring Data
BORGESS MWI
KALAMAZOO,MI
Performed for: EPA
Date Printed = 09-15-1991 Current Time = 15:21:14
File Name = D:\CEMDATA\091591.PRN Calibration File:D:\CEMDATA\091591.CAL

NOx CONVERTER

09-15-1991 Time	O2 %V	Hg ug/m3	SO2 ppmV	CO ppmV	CO2 %V	NOx ppmV	HCl ppmV	
15:21:16	0.0	1.8	-0.0	-1.6	-0.1	185.7	8.8	-4.5
15:22:15	0.0	1.6	-0.1	-2.2	-0.1	188.7	7.0	-4.4
15:23:15	0.0	1.6	-0.2	-1.7	-0.1	191.3	4.5	-4.4
15:24:15	0.0	1.5	-0.2	-1.8	-0.1	191.6	13.6	-4.4
15:25:15	0.0	1.6	-0.3	-1.6	-0.1	191.8	13.4	-4.4
15:26:15	0.0	1.5	-0.4	-1.4	-0.1	192.0	11.2	-4.4
15:27:15	0.0	1.5	-0.6	-1.4	-0.1	192.1	9.7	-4.4
15:28:15	0.0	1.4	-0.5	-1.3	-0.1	192.3	11.0	-4.4
15:29:15	0.0	1.4	-0.5	-1.1	-0.1	192.3	11.1	-4.4
15:30:15	0.0	1.3	-0.7	-1.0	-0.1	192.5	12.4	-4.4
15:31:15	0.0	1.3	-0.7	-0.9	-0.1	192.6	13.1	-4.4
15:32:15	0.0	1.2	-0.5	-0.9	-0.1	192.6	9.2	-4.4
15:33:15	0.0	1.2	-0.4	-1.2	-0.1	192.6	10.0	-4.4
15:34:15	0.0	1.2	-0.6	-1.0	-0.1	192.8	9.6	-4.4
15:35:14	0.0	1.2	-0.5	-1.1	-0.1	192.8	10.4	-4.4
15:36:14	0.0	1.1	-0.5	-1.1	-0.1	193.0	10.5	-4.4
15:37:14	0.0	1.1	-0.3	-0.7	-0.1	192.9	10.4	-4.4
15:38:14	0.0	1.1	-0.4	-0.5	-0.1	193.0	14.8	-4.4
15:39:14	0.0	1.1	-0.5	-0.7	-0.1	193.0	11.8	-4.4
15:40:14	0.0	1.1	-0.5	-0.8	-0.1	193.1	11.2	-4.4
15:41:14	0.0	1.0	-0.1	-0.7	-0.1	193.0	8.8	-4.4
15:42:14	0.0	1.0	-0.3	-0.6	-0.1	193.1	7.3	-4.4
15:43:14	0.0	1.0	-0.1	-0.6	-0.1	193.1	8.6	-4.4
15:44:14	0.0	1.0	-0.2	-0.6	-0.1	193.2	11.5	-4.4
15:45:14	0.0	1.0	-0.1	-0.6	-0.1	193.2	12.3	-4.4
15:46:14	0.0	1.0	-0.1	-0.6	-0.1	193.1	12.2	-4.4
15:47:14	0.0	1.0	-0.3	-0.5	-0.1	193.2	12.3	-4.4
15:48:13	0.0	1.0	-0.2	-0.5	-0.1	193.1	13.7	-4.4
15:49:13	0.0	1.0	-0.2	-0.7	-0.1	193.2	8.5	-4.4
15:50:13	0.0	1.0	-0.3	-0.7	-0.1	193.2	10.9	-4.4
15:51:13	0.0	1.0	-0.2	-0.4	-0.1	193.2	12.2	-4.4
15:52:13	0.0	1.0	-0.1	-0.5	-0.1	193.3	9.3	-4.4
15:53:13	0.0	1.0	-0.1	-0.4	-0.1	193.4	12.0	-4.4
Avg.=	0.0	1.2	-0.3	-1.0	-0.1	192.4	10.7	-4.4

CALIBRATION SUMMARY
09-15-1991 15:54:41
CALIBRATION FILE NAME =D:\CEMDATA\KJGH.CAL

Chan.	Name	Units	Zero		Span		Slope	Int.
			Conc.	Resp.	Conc.	Resp.		
1	O2	%V	1.99	0.7989	20.00	8.102	2.466	0.02
2	Hg	ug/m3	0.00	0.0009	1500.00	1.587	945.976	-0.89
3	SO2	ppmV	0.00	-.0050	86.00	0.176	474.383	2.35
4	CO	ppmV	0.00	0.0121	88.90	0.879	102.607	-1.24
5	CO2	%V	0.00	0.0019	18.00	0.090	204.147	-0.39
6	NOx	ppmV	0.00	0.0438	211.50	8.450	25.160	-1.10
7	HCl	ppmV	0.00	0.0494	107.00	0.550	213.810	-10.56
8			0.00	0.0000	0.00	0.000	1.000	0.00
9			0.00	0.0000	0.00	0.000	1.000	0.00
10			0.00	0.0000	0.00	0.000	1.000	0.00
11			0.00	0.0000	0.00	0.000	1.000	0.00
12			0.00	0.0000	0.00	0.000	1.000	0.00
13			0.00	0.0000	0.00	0.000	1.000	0.00
14			0.00	0.0000	0.00	0.000	1.000	0.00

Press Shift-PrtSc to Print Out Table
Press <C> to Continue

RADIAN CORPORATION

CALCULATION SHEET

CALC. NO. _____

SIGNATURE CAP DATE 12/18 CHECKED _____ DATE _____

PROJECT BURGESS MWI TEST JOB NO. _____

SUBJECT LINEARITY OF CEMS - INLET SHEET 1 OF 2 SHEETS

9/7	INLET	QC'S	CALCS	
O_2	4.99 / 4.5	10 / 9.4	2.02	20
THC	10 / 10.6	5 / 5.7	0	89.7
SO_2	86 / 86.4	24.3 / 24.1	0	184.9
CO	19.9 / 17.8	58.5 / 56.6	0	88.9
CO_2	5.02 / 5.0	9.99 / 9.9	0	18
NO_x	88.3 / 90.2	25.9 / 25.3	0	195.6
HCl	386 / 394.9	206 / 202.5	0	880

(R)

4 PT LINEARITY

O_2	.9992
THC	.9999
SO_2	.9999
CO	.9996
CO_2	.9999
NO_x	.9999
HCl	.9999

CORPORATION

CALC. NO. _____

SIGNATURE CRP DATE 12/18/91 CHECKED _____ DATE _____

PROJECT BURGESS UNIT TESTS JOB NO. _____

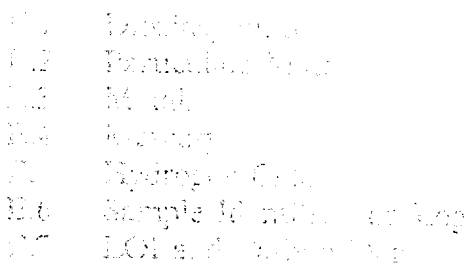
SUBJECT LINEARITY OF QC'S - OUTLET SHEET 2 OF 2 SHEETS

9/7 OUTLET QC'S (pre-test)

O_2	4.99/5.0	10/10.3
THC		
SO_2	86/89.6	24.3/27.3
CO	19.9/17.3	58.5/57.5
CO_2	5.02/5.2	9.99/9.9
NO_x	88.3/89.3	25.9/24.6
HCl	49.1/42.1,	9.58/9.4

INLET CAL

			(R) 4 PT LINEARITY
O_2	2.02	.20	.9998
THC	0	89.7	NA
SO_2	0	194.9	.9998
CO	0	88.9	.9996
CO_2	0	18	.9999
NO_x	0	195.6	.9999
HCl	0	107	.9974



TRIANGLE LABORATORIES, INC.
801-10 CAPITOLA DRIVE
RESEARCH TRIANGLE PARK, NC 27713

Phone: (919) 544-5729
Fax: (919) 544-5491

DATE :	* 30 OCTOBER 1991
CLIENT ID :	* RADIAN CORPORATION
P.O. NUMBER :	* 136957
TLI PROJECT No. :	* 19064A

CASE NARRATIVE
MODEL 8290X

ANALYSIS OF SAMPLES FOR THE PRESENCE OF

POLYCHLORINATED DIBENZO-p-DIOXINS

AND

DIBENZOFURANS

BY

HIGH-RESOLUTION GAS CHROMATOGRAPHY / HIGH-RESOLUTION MASS SPECTROMETRY

Ten MM5 samples were received from RADIAN CORPORATION in good condition September 13 and 18, 1991 and stored in a refrigerator at 4°C. The samples were extracted and analyzed according to procedures described in the Triangle Labs User Manual provided with this data package. Any particular difficulties encountered during the sample handling by Triangle Labs will be discussed in the QA/QC remark section below.

Quality Assurance/Quality Control Samples

A laboratory method blank -- identified as the TLI Blank -- is prepared along with the batch of samples.

QA/QC Remarks

The release of this particular set of RADIAN CORPORATION analytical data by Triangle Labs was authorized by the Quality Assurance Officer who has reviewed each sample data package individually following a series of inspections/reviews conducted at two other levels of the data production line. When applicable, general deviations from acceptable QA/QC requirements are identified below. Comments on the effect of these deviations upon the validity and reliability of the results can be obtained from the User Manual (Data Quality Objectives; Section 5). Specific QA/QC Problems Associated with this Particular Project are:

Sample Preparation Laboratory: None

Mass Spectrometry: None

Data Review:

Some samples in this project present QC ion instabilities as a result of quantitative interferences. The affected isomers are flagged "Q" on the report. Affected analytes may be overestimated or underestimated due to this interference. Quantitative interference is described in section 5.1.3.4.1 of the Data User's manual.

Analytes were found in the TLI Blank at levels less than one-third the calculated theoretical method quantitation limit (TMQL). 1,2,3,4,6,7,8-HpCDD and OCDF were found at levels greater than one-third TMQL but below the target detection limit. Blank contamination levels of one-third TMQL or less or below the target detection limit are acceptable under TLI guidelines; however, the OCDD isomer is not required to follow blank contamination criteria. Blank contamination is discussed in section 5.1.3.2 of the Data User's Manual.

A coeluting peak in the diphenyl ether channel interferes with the 2,3,7,8-TCDF isomer on the DB-225 column analysis for the following samples;
BI-01 (TLI # 49-129-6, 49-129-9, 49-175-3 and 49-132-1)
BI-02 (TLI # 49-129-11, 49-130-1, 49-132-4)
BI-03 (TLI # 49-130-6, 49-130-9, 49-132-7)

BI-04 (TLI # 49-130-12, 49-131-2, 49-132-8)
BI-05 (TLI # 49-131-5, 49-131-8, 49-175-6)
BI-06 (TLI # 49-176-1AC)
BI-07 (TLI # 49-176-4AC)
BI-08 (TLI # 49-177-3AC)
BI-09 (TLI # 49-178-2AC)
These interferances result in out of ratio peaks that appear as EMPCs flagged with an "E".

The presence of the 2378-TCDF isomer, where found on the DB-5 column at a concentration in excess of the Target Detection Limit, is confirmed on the isomer-specific DB-225 GC column.

Addendum to Section 2.3 of the Data User's Manual

All sample and calibration analyses are conducted using a 2 uL injection volume, unless otherwise specified.

Addendum to Section 4.6 of the Data User's Manual

Effective December 15, 1989, Triangle Laboratories has adopted a new procedure for calculating the analyte specific detection limits. Under this new policy two representative noise height determinations are summed and multiplied by an empirically determined factor before the detection limit equation given in Section 4.6 of the Data User's Manual is applied. The effect of this procedure is to increase DB-225 analyses detection limits by a factor of 3.5, and DB-5 analyses detection limits by a factor of 5. This procedure will result in a more accurate estimate of detection limits.

The revised formula for DB-225 analyses is:

$$DL_{ai}^{DB\text{-}225} = \frac{2.5 * (3.5 * H_{ai}) * Q_{Bj}}{A_{Bj} * \overline{RRF} * W}$$

$$3.5 * H_{ai} = A_{noise}$$

The revised formula for DB-5 analyses is:

$$DL_{ai}^{DB\text{-}5} = \frac{2.5 * (5 * H_{ai}) * Q_{Bj}}{A_{Bj} * \overline{RRF} * W}$$

$$5 * H_{ai} = A_{noise}$$

The symbols are defined in Section 4.6 of the Data User's Manual.

As an example, consider a DB-225 confirmation analysis of a 10 g sample. The internal standard spike is 2000 pg, the $^{13}C_{12}$-2,3,7,8-TCDF internal standard area is 12000 area units, the RRF is 1.215 and the noise height is 11 units. The 2,3,7,8-TCDF detection limit is:

$$DL_{TCDF}^{DB-225} = \frac{2.5 * (3.5 * 11) * 2000}{12000 * 1.215 * 10.0} = 1.3 \text{ ppt}$$

Should RADIAN CORPORATION have any questions or comments to formulate regarding this data package please feel free to contact us.

For Triangle Laboratories.

Laboratory Management	Quality Assurance Unit	Report Preparation/ Quality Control
Signed:		
Title:		
Project Coordinator Supervisor	QA Specialist	Dioxin Data Review Officer

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/29/91

FILE NAME....: S914559 CLIENT.....: RADIAN TLI SAMPLE ID.: n/a
CONCAL.....: S914554 SAMPLE ID.....: TLI MM5 BLANK
ANALYST.....: NB ANALYSIS DATE: 10/14/91 PROJECT NUMBER: 120644
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.:
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: n/a DATE COLLECTED:
SPIKE FILE...: SPX23704 CLIENT PROJECT: n/a
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				
12378-PeCDD	ND		0.01				
123478-HxCDD	ND		0.01				
123678-HxCDD	ND		0.008				
123789-HxCDD	ND		0.01				
1234678-HpCDD	0.09				1.10	49:05	
OCDD	0.71				0.83	54:32	
2378-TCDF	0.02				0.78	33:02	
12378-PeCDF	ND		0.01				
23478-PeCDF	ND		0.01				
123478-HxCDF	ND		0.01				
123678-HxCDF	ND		0.01				
234678-HxCDF	EMPC			0.02			
123789-HxCDF	ND		0.01				
1234678-HpCDF	0.01				0.91	47:31	
1234789-HpCDF	ND		0.01				
OCDF	0.09				0.76	54:46	
TOTAL TCDD	ND		0.01				
TOTAL PeCDD	EMPC			0.02			
TOTAL HxCDD	0.01	1			1.39		
TOTAL HpCDD	0.14	2			1.15		
[illegible]	0.22				0.78		
TOTAL PeCDF	EMPC			0.01			
TOTAL HxCDF	EMPC			0.02			
TOTAL HpCDF	0.05	2			0.93		

Reviewed By: [signature] 10/30/91

X237_RPT 4.00, LARS 4.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/29/91

FILE NAME....: S914559
CONCAL.....: S914554
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: TLI MM5 BLANK
ANALYSIS DATE: 10/14/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: n/a

TLI SAMPLE ID : n/a
PROJECT NUMBER: 19064A
DATE RECEIVED.: / /
DATE COLLECTED: / /
CLIENT PROJECT: n/a

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	94.4		33:49	
13C12-PeCDF 234	3.8	93.8	1.52	38:46	
13C12-HxCDF 478	4.6	114	0.53	42:54	
13C12-HxCDD 478	3.3	82.4	1.22	44:02	
13C12-HpCDF 789	4.4	110	0.43	49:45	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.6	88.9	0.51	45:00	
13C12-HxCDF 234	3.9	97.7	0.52	43:51	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.5	86.7	0.76	33:01	
13C12-2378-TCDD	3.4	93.9	0.83	33:48	
13C12-PeCDF 123	3.5	90.7	1.59	37:47	
13C12-PeCDD 123	3.6	140	1.38	39:11	
13C12-HxCDF 678	2.6	65.2	0.51	43:03	
13C12-HxCDD 678	4.5	113	1.24	44:10	Q
13C12-HpCDF 678	3.6	90.8	0.44	47:30	
13C12-HpCDD 678	4.3	107	1.05	49:04	
13C12-OCDD	7.2	90.4	0.84	54:30	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.84	33:36	
13C12-HxCDD 789	1.25	44:39	

Reviewed By: DDN 10/30/91

X237_RPT 4.00, LABS 4.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/29/91

FILE NAME....: S914574
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-FB
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-3AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				
12378-PeCDD	ND		0.02				
123478-HxCDD	0.01				1.32	44:03	
123678-HxCDD	0.03				1.34	44:12	
123789-HxCDD	0.04				1.28	44:40	
1234678-HpCDD	0.50				1.11	49:05	
OCDD	1.5				0.88	54:32	
2378-TCDF	0.05				0.68	33:04	
12378-PeCDF	EMPC			0.05			
23478-PeCDF	EMPC			0.07			
123478-HxCDF	0.33				1.14	42:54	
123678-HxCDF	0.16				1.11	43:05	
234678-HxCDF	0.39				1.08	43:53	
123789-HxCDF	0.03				1.18	45:02	
1234678-HpCDF	1.3				1.00	47:32	
1234789-HpCDF	0.44				0.99	49:46	
OCDF	3.5				0.91	54:47	
TOTAL TCDD	ND		0.01				
TOTAL PeCDD	EMPC			0.15			
TOTAL HxCDD	0.17	5		0.21	1.35		
TOTAL HpCDD	0.30	2			1.07		
TOTAL TCDF	0.10	4		0.14	0.78		
TOTAL PeCDF	0.26	4		0.52	1.51		
TOTAL HxCDF	1.2	7		1.3	1.13		
TOTAL HpCDF	3.3	4			0.98		

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/29/91

FILE NAME....: S914574
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-FB
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-3AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	94.5		33:50	
13C12-PeCDF 234	3.6	91.0	1.55	38:47	
13C12-HxCDF 478	3.8	95.4	0.51	42:54	
13C12-HxCDD 478	3.0	75.7	1.24	44:03	
13C12-HpCDF 789	3.8	95.8	0.44	49:45	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.9	96.8	0.49	45:02	
13C12-HxCDF 234	5.1	129	0.51	43:51	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.6	89.5	0.78	33:02	
13C12-2378-TCDD	3.4	84.0	0.76	33:49	
13C12-PeCDF 123	3.7	92.1	1.54	37:49	
13C12-PeCDD 123	5.3	133	1.49	39:16	Q
13C12-HxCDF 678	3.6	89.7	0.52	43:04	
13C12-HxCDD 678	5.9	148	1.17	44:11	Q
13C12-HpCDF 678	4.1	103	0.44	47:31	
13C12-HpCDD 678	4.2	104	1.03	49:04	
13C12-OCDD	7.6	95.3	0.91	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	33:37	
13C12-HxCDD 789	1.18	44:40	

Reviewed By: _____ 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/29/91

FILE NAME....: S914560
CONCAL.....: S914554
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-01
ANALYSIS DATE: 10/14/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.30				0.77	33:49	
12378-PeCDD	1.0				1.59	39:15	
123478-HxCDD	0.67				1.17	44:03	
123678-HxCDD	0.69				1.24	44:11	
123789-HxCDD	1.3				1.22	44:39	
1234678-HpCDD	4.8				1.02	49:04	
OCDD	10.5				0.87	54:30	
2378-TCDF	7.8				0.75	33:02	
12378-PeCDF	5.6				1.59	37:47	
23478-PeCDF	5.4				1.58	38:46	
123478-HxCDF	11.9				1.13	42:53	
123678-HxCDF	6.4				1.13	43:03	
234678-HxCDF	7.1				1.13	43:51	
123789-HxCDF	0.79				1.09	45:01	
1234678-HpCDF	16.4				0.92	47:30	
1234789-HpCDF	4.5				0.96	49:45	
OCDF	28.1				0.87	54:45	
TOTAL TCDD	3.2	10		3.4	0.83		
TOTAL PeCDD	4.9	8		5.9	1.61		
TOTAL HxCDD	7.3	7		7.4	1.19		
TOTAL HpCDD	3.2	2			1.04		
TOTAL TCDF	42.7	16		55.7	0.75		
TOTAL PeCDF	49.4	17		49.5	1.55		
TOTAL HxCDF	48.4	12		48.7	1.13		
TOTAL HpCDF	35.5	4			0.95		

* TLI SAMPLE ID: 49-129-6, 49-129-9, 49-175-3, 49-132-1

Reviewed By: [signature] 10/25/91

X237_RFT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/29/91

FILE NAME....: S914560
CONCAL.....: S914554
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-01
ANALYSIS DATE: 10/14/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.9	9[illegible]4		33:49	___
13C12-PeCDF 234	3.7	93.0	1.55	38:44	___
13C12-HxCDF 478	4.1	103	0.52	42:53	___
13C12-HxCDD 478	4.0	99.5	1.25	44:02	___
13C12-HpCDF 789	3.8	95.8	0.44	49:44	___

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.8	94.7	0.52	45:00	___
13C12-HxCDF 234	4.4	109	0.51	43:50	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.4	84.7	0.77	32:59	___
13C12-2378-TCDD	2.9	72.7	0.81	33:48	___
13C12-PeCDF 123	3.5	87.3	1.60	37:47	___
13C12-PeCDD 123	3.7	93.1	1.52	39:15	___
13C12-HxCDF 678	4.1	101	0.51	43:02	___
13C12-HxCDD 678	4.5	113	1.22	44:10	___
13C12-HpCDF 678	4.1	104	0.44	47:30	___
13C12-HpCDD 678	3.8	94.4	1.07	49:03	___
13C12-OCDD	5.9	74.1	0.88	54:29	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	33:35	___
13C12-HxCDD 789	1.20	44:38	___

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/28/91

FILE NAME....: S914564 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: S914554 SAMPLE ID....: BI-02
ANALYST.....: NB ANALYSIS DATE: 10/14/91 PROJECT NUMBER: 19064A
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/13/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	EMPC			0.06			
12378-PeCDD	0.19				1.78	39:16	
123478-HxCDD	0.14				1.27	44:03	Q
123678-HxCDD	EMPC			0.19			
123789-HxCDD	0.35				1.18	44:38	PR,Q
1234678-HpCDD	2.0				1.03	49:04	B
OCDD	6.4				0.87	54:30	B
2378-TCDF	2.6				0.74	33:02	B
12378-PeCDF	1.3				1.66	37:47	
23478-PeCDF	1.7				1.55	38:46	
123478-HxCDF	5.0				1.12	42:51	
123678-HxCDF	1.8				1.12	43:03	
234678-HxCDF	3.7				1.12	43:51	PR,B
123789-HxCDF	0.20				1.16	45:01	
1234678-HpCDF	10.2				0.93	47:30	B
1234789-HpCDF	2.3				0.96	49:45	
OCDF	19.7				0.90	54:45	B
TOTAL TCDD	0.51	6		0.92	0.75		
TOTAL PeCDD	1.1	7		1.6	1.53		Q
TOTAL HxCDD	1.7	5		2.1	1.21		Q
TOTAL HpCDD	3.3	2			1.02		
TOTAL TCDF	10.1	11		25.7	0.74		
TOTAL PeCDF	16.6	13			1.58		
TOTAL HxCDF	20.5	13		20.6	1.11		
TOTAL HpCDF	24.0	4			0.93		

* TLI SAMPLE ID:49-129-11,49-130-1,49-132-4

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

FILE NAME....: S914564 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: S914554 SAMPLE ID....: BI-02
ANALYST.....: NB ANALYSIS DATE: 10/14/91 PROJECT NUMBER: 19064A
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/13/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MMI
GC COLUMN....: DB-5

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.9	97.4		33:49	
13C12-PeCDF 234	3.6	89.5	1.49	38:44	
13C12-HxCDF 478	4.2	104	0.53	42:53	
13C12-HxCDD 478	3.4	84.8	1.23	44:02	
13C12-HpCDF 789	3.8	94.2	0.45	49:44	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.5	88.2	0.50	46:00	
13C12-HxCDF 234	4.1	103	0.52	43:50	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.3	82.9	0.75	32:59	
13C12-2378-TCDD	3.0	73.8	0.82	33:48	
13C12-PeCDF 123	3.3	83.2	1.59	37:46	
13C12-PeCDD 123	3.7	91.3	1.49	39:15	Q
13C12-HxCDF 678	3.9	96.7	0.50	43:02	
13C12-HxCDD 678	4.7	117	1.23	44:10	Q
13C12-HpCDF 678	3.7	92.4	0.45	47:29	
13C12-HpCDD 678	3.1	77.6	1.06	49:03	
13C12-OCDD	5.8	72.5	0.86	54:29	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:35	
13C12-HxCDD 789	1.25	44:38	

* TLI SAMPLE ID:49-129-11,49-130-1,49-132-4

Reviewed By: [signature] 10/29/91 X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/29/91

FILE NAME....: S914567
CONCAL.....: S914566
ANALYST.....: VC
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-03
ANALYSIS DATE: 10/14/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	EMPC			0.07			
12378-PeCDD	0.26				1.71	39:17	
123478-HxCDD	0.18				1.26	44:05	
123678-HxCDD	0.21				1.22	44:13	
123789-HxCDD	0.38				1.29	44:40	
1234678-HpCDD	2.0				1.01	49:06	
OCDD	6.2				0.86	54:32	
2378-TCDF	2.7				0.73	33:04	
12378-PeCDF	1.5				1.59	37:50	
23478-PeCDF	1.5				1.60	38:48	
123478-HxCDF	3.8				1.17	42:55	
123678-HxCDF	1.7				1.20	43:05	
234678-HxCDF	2.4				1.17	43:53	
123789-HxCDF	0.21				1.17	45:03	
1234678-HpCDF	6.9				0.95	47:32	
1234789-HpCDF	1.9				0.97	49:47	
OCDF	14.6				0.90	54:47	
TOTAL TCDD	0.81	8		1.1	0.81		
TOTAL PeCDD	1.2	7		1.9	1.60		
TOTAL HxCDD	2.1	6		2.2	1.23		
TOTAL HpCDD	3.3	2			1.01		
TOTAL TCDF	14.9	14		18.5	0.75		
TOTAL PeCDF	17.1	12		17.4	1.55		
TOTAL HxCDF	16.4	12		16.5	1.18		
TOTAL HpCDF	15.9	4			0.96		

* TLI SAMPLE ID: 49-130-6, 49-130-9, 49-132-7

Reviewed By: [signature] 12/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/29/91

FILE NAME....: S914567
CONCAL.....: S914566
ANALYST.....: VC
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-03
ANALYSIS DATE: 10/14/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	95.1		33:50	
13C12-PeCDF 234	4.0	101	1.58	38:47	
13C12-HxCDF 478	4.0	100.0	0.52	42:55	
13C12-HxCDD 478	3.6	88.9	1.15	44:03	
13C12-HpCDF 789	3.8	95.4	0.46	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.7	93.6	0.51	45:02	
13C12-HxCDF 234	4.2	104	0.51	43:52	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.9	73.5	0.78	33:02	
13C12-2378-TCDD	3.3	89.9	0.79	33:49	
13C12-PeCDF 123	2.8	72.7	1.30	37:49	
13C12-PeCDD 123	3.4	85.0	1.59	39:16	Q
13C12-HxCDF 678	4.0	100	0.52	43:04	
13C12-HxCDD 678	4.4	110	1.21	44:11	Q
13C12-HpCDF 678	3.8	94.9	0.45	47:31	
13C12-HpCDD 678	3.4	84.0	1.00	49:05	
13C12-OCDD	5.3	66.4	0.89	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.82	33:37	
13C12-HxCDD 789	1.27	44:40	

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/28/91

FILE NAME....: S914568
CONCAL.....: S914566
ANALYST.....: VC
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-04
ANALYSIS DATE: 10/14/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.04				0.72	33:50	
12378-PeCDD	0.13				1.55	39:17	
123478-HxCDD	0.08				1.18	44:04	Q
123678-HxCDD	0.11				1.33	44:12	
123789-HxCDD	0.17				1.35	44:39	PR Q
1234678-HpCDD	0.96				1.08	49:05	B
OCDD	3.7				0.87	54:32	B
2378-TCDF	1.2				0.76	33:03	B
12378-PeCDF	0.80				1.61	37:49	
23478-PeCDF	0.85				1.61	38:47	
123478-HxCDF	2.4				1.15	42:53	
123678-HxCDF	0.91				1.15	43:05	
234678-HxCDF	1.8				1.24	43:53	PR B
123789-HxCDF	0.12				1.18	45:02	
1234678-HpCDF	4.3				0.95	47:32	B
1234789-HpCDF	0.99				0.94	49:46	
OCDF	8.2				0.88	54:47	B
TOTAL TCDD	0.41	9		0.52	0.77		
TOTAL PeCDD	0.67	7		0.83	1.49		Q
TOTAL HxCDD	0.87	6		0.90	1.27		Q
TOTAL HpCDD	1.8	2			1.04		
TOTAL TCDF	4.5	9		9.6	0.74		
TOTAL PeCDF	6.7	12		6.8	1.59		Q
TOTAL HxCDF	7.9	12		7.9	1.21		
TOTAL HpCDF	9.6	4			0.94		

* TLI SAMPLE ID:49-130-12,49-131-2,49-132-8

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.03

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/28/91

FILE NAME....: S914568
CONCAL.....: S914566
ANALYST.....: VC
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-04
ANALYSIS DATE: 10/14/91
SAMPLE MATRIX: MMS
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.6	90.2		33:50	
13C12-PeCDF 234	4.0	101	1.53	38:46	
13C12-HxCDF 478	4.5	111	0.53	42:54	
13C12-HxCDD 478	3.3	81.3	1.22	44:03	
13C12-HpCDF 789	4.2	105	0.44	49:45	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.2	104	0.51	45:01	
13C12-HxCDF 234	4.9	122	0.52	43:51	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
[illegible]	[illegible]	78.2	0.77	33:01	
13C12-2378-TCDD	3.1	76.9	0.78	33:49	
13C12-PeCDF 123	3.7	93.3	1.55	37:47	
13C12-PeCDD 123	4.8	121	1.52	39:16	Q
13C12-HxCDF 678	3.5	87.3	0.50	43:04	
13C12-HxCDD 678	5.4	135	1.21	44:11	Q
13C12-HpCDF 678	4.2	105	0.45	47:31	
13C12-HpCDD 678	4.2	105	1.03	49:04	
13C12-OCDD	7.4	92.0	0.89	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.82	33:36	
13C12-HxCDD 789	1.19	44:39	

* TLI SAMPLE ID:49-130-12,49-131-2,49-132-8

Reviewed By: [signature] 10/29/91

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/28/91

FILE NAME....: S914569
CONCAL.....: S914566
ANALYST.....: VC
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-05
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.03				0.74	33:50	
12378-PeCDD	0.09				1.47	39:17	
123478-HxCDD	0.07				1.37	44:04	Q
123678-HxCDD	0.10				1.23	44:12	
123789-HxCDD	0.21				1.23	44:37	PR, Q
1234678-HpCDD	1.4				1.04	49:05	B
OCDD	7.9				0.87	54:32	B
2378-TCDF	1.2				0.74	33:03	B
12378-PeCDF	0.49				1.56	37:50	
23478-PeCDF	0.71				1.55	38:48	
123478-HxCDF	2.5				1.15	42:53	
123678-HxCDF	0.86				1.20	43:05	
234678-HxCDF	1.9				1.20	43:53	PR, B
123789-HxCDF	0.10				1.24	45:02	
1234678-HpCDF	6.0				0.95	47:32	B
1234789-HpCDF	1.3				0.96	49:47	
OCDF	15.2				0.91	54:47	B
TOTAL TCDD	0.33	8		0.52	0.75		
TOTAL PeCDD	0.57	7		0.96	1.55		Q
TOTAL HxCDD	illegible	illegible		illegible	illegible		Q
TOTAL HpCDD	2.8	2			1.03		
TOTAL TCDF	5.3	13		8.8	0.73		
TOTAL PeCDF	7.0	13			1.56		Q
TOTAL HxCDF	9.2	12		9.2	1.18		
TOTAL HpCDF	13.9	4			0.95		

* TLI SAMPLE ID:49-131-5,49-131-8,49-175-6

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/28/91

FILE NAME....:	S914569	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	S914566	SAMPLE ID....:	BI-05		
ANALYST.....:	VC	ANALYSIS DATE:	10/15/91	PROJECT NUMBER:	19064A
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/13/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	NWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	99.6		33:50	
13C12-PeCDF 234	3.9	98.7	1.54	38:47	
13C12-HxCDF 478	4.4	109	0.52	42:55	
13C12-HxCDD 478	3.5	86.8	1.20	44:03	
13C12-HpCDF 789	4.2	105	0.43	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.7	93.1	0.52	45:02	
13C12-HxCDF 234	4.3	107	0.50	43:51	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.3	81.8	0.77	33:01	
13C12-2378-TCDD	2.9	73.0	0.80	33:49	
13C12-PeCDF 123	3.3	83.0	1.51	37:49	
13C12-PeCDD 123	4.0	101	1.56	39:16	Q
13C12-HxCDF 678	3.6	91.0	0.52	43:04	
13C12-HxCDD 678	4.8	119	1.23	44:11	Q
13C12-HpCDF 678	3.8	94.8	0.44	47:31	
13C12-HpCDD 678	3.6	89.1	0.99	49:04	
13C12-OCDD	6.0	74.6	0.85	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.84	33:37	
13C12-HxCDD 789	1.18	44:40	

* TLI SAMPLE ID:49-131-5,49-131-8,49-175-6

Reviewed By: _____ 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/28/91

FILE NAME....: S914570
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-06
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-176-1AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.06				0.72	33:50	—
12378-PeCDD	0.24				1.69	39:17	—
123478-HxCDD	0.16				1.25	44:05	Q
123678-HxCDD	0.19				1.29	44:13	
123789-HxCDD	0.33				1.27	44:40	PR, Q
1234678-HpCDD	1.7				1.01	49:06	B
OCDD	4.9				0.86	54:33	B
2378-TCDF	2.1				0.76	33:03	B
12378-PeCDF	1.3				1.59	37:50	—
23478-PeCDF	1.6				1.61	38:48	—
123478-HxCDF	3.7				1.13	42:55	—
123678-HxCDF	1.7				1.15	43:05	—
234678-HxCDF	3.6				1.13	43:53	Q, PR, B
123789-HxCDF	0.20				1.11	45:03	—
1234678-HpCDF	7.3				0.93	47:32	B
1234789-HpCDF	1.5				0.93	49:47	
OCDF	10.3				0.92	54:47	B
TOTAL TCDD	5.6	8		6.2	0.77		
TOTAL PeCDD	1.9	10		2.3	1.60		Q
TOTAL HxCDD	2.1	7			1.28		Q
TOTAL HpCDD	2.2	2			1.00		—
TOTAL TCDF	12.6	14		14.7	0.74		
TOTAL PeCDF	15.7	15		16.0	1.57		Q
TOTAL HxCDF	16.9	13		17.0	1.13		Q
TOTAL HpCDF	15.4	4			0.94		—

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/28/91

FILE NAME....:	S914570	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	49-176-1AC
CONCAL.....:	S914566	SAMPLE ID....:	BI-06		
ANALYST.....:	SB	ANALYSIS DATE:	10/15/91	PROJECT NUMBER:	19064A
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/13/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	94.2		33:50	
13C12-PeCDF 234	4.2	106	1.52	38:47	
13C12-HxCDF 478	4.0	98.8	0.51	42:55	
13C12-HxCDD 478	3.4	85.7	1.22	44:03	
13C12-HpCDF 789	3.8	94.4	0.45	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.6	90.2	0.51	45:02	
13C12-HxCDF 234	4.9	122	0.51	43:52	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.3	82.1	0.77	33:01	
13C12-2378-TCDD	3.2	81.0	0.78	33:49	
13C12-PeCDF 123	3.3	84.7	1.50	37:49	
13C12-PeCDD 123	5.0	126	1.51	39:16	Q
13C12-HxCDF 678	3.4	85.6	0.52	43:04	
13C12-HxCDD 678	5.1	128	1.21	44:11	Q
13C12-HpCDF 678	3.9	96.9	0.44	47:31	
13C12-HpCDD 678	3.8	95.4	1.05	49:05	
13C12-OCDD	6.9	86.5	0.87	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	33:37	
13C12-HxCDD 789	1.21	44:40	

Reviewed By: _____ 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/28/91

FILE NAME....: S914571
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-07
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-176-4AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.10				0.74	33:50	
12378-PeCDD	0.37				1.56	39:17	
123478-HxCDD	0.31				1.30	44:04	Q
123678-HxCDD	0.54				1.25	44:12	
123789-HxCDD	0.91				1.27	44:40	PR Q
1234678-HpCDD	5.4				1.05	49:05	B
OCDD	11.4				0.86	54:32	B
2378-TCDF	4.1				0.73	33:04	B
12378-PeCDF	2.1				1.61	37:50	
23478-PeCDF	3.2				1.59	38:48	
123478-HxCDF	10.6				1.11	42:53	
123678-HxCDF	4.1				1.13	43:05	
234678-HxCDF	10.0				1.11	43:53	Q PR, B
123789-HxCDF	0.59				1.18	45:02	
1234678-HpCDF	23.2				0.93	47:32	B
1234789-HpCDF	6.0				0.98	49:47	
OCDF	42.7				0.86	54:47	B
TOTAL TCDD	1.6	10		2.3	0.77		
TOTAL PeCDD	1.3	8		3.2	1.58		Q
TOTAL HxCDD	4.7	7		4.9	1.26		Q
TOTAL HpCDD	10.3	2			1.06		
TOTAL TCDF	15.9	13		19.0	0.74		
TOTAL PeCDF	24.5	14		24.6	1.60		Q
TOTAL HxCDF	40.3	13		40.4	1.13		Q
TOTAL HpCDF	54.4	4			0.95		

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY
10/28/91

FILE NAME....:	S914571	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	49-176-4AC
CONCAL.....:	S914566	SAMPLE ID....:	BI-07		
ANALYST.....:	SB	ANALYSIS DATE:	10/15/91	PROJECT NUMBER:	19064A
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/13/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.9	96.4		33:50	
13C12-PeCDF 234	3.9	96.3	1.52	38:47	
13C12-HxCDF 478	4.3	107	0.52	42:55	
13C12-HxCDD 478	3.0	75.8	1.21	44:03	
13C12-HpCDF 789	3.7	92.7	0.44	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.9	96.5	0.51	45:02	
13C12-HxCDF 234	4.9	123	0.52	43:52	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.4	85.2	0.78	33:02	
13C12-2378-TCDD	3.1	78.3	0.83	33:49	
13C12-PeCDF 123	3.3	85.2	1.52	37:49	
13C12-PeCDD 123	5.3	134	1.43	39:16	Q
13C12-HxCDF 678	3.6	90.7	0.51	43:04	
13C12-HxCDD 678	5.8	146	1.21	44:11	Q
13C12-HpCDF 678	4.4	110	0.44	47:31	
13C12-HpCDD 678	4.0	99.8	1.05	49:04	
13C12-OCDD	6.4	79.6	0.84	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:37	
13C12-HxCDD 789	1.22	44:40	

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/28/91

FILE NAME....: S914572
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-08
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-3AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.08				0.88	33:49	
12378-PeCDD	0.37				1.46	39:16	
123478-HxCDD	0.47				1.16	44:03	Q
123678-HxCDD	0.68				1.22	44:11	
123789-HxCDD	1.3				1.34	44:37	PR,Q
1234678-HpCDD	8.2				1.07	49:04	B
OCDD	20.5				0.86	54:31	B
2378-TCDF	4.8				0.76	33:03	B
12378-PeCDF	2.1				1.62	37:49	
23478-PeCDF	3.6				1.61	38:47	
123478-HxCDF	12.1				1.11	42:52	
123678-HxCDF	4.6				1.14	43:04	
234678-HxCDF	11.3				1.12	43:51	PR,Q,B
123789-HxCDF	0.65				1.17	45:02	
1234678-HpCDF	27.4				0.94	47:31	B
1234789-HpCDF	7.3				0.92	49:46	
OCDF	51.3				0.88	54:46	B
TOTAL TCDD	2.2	12		2.2	0.80		
TOTAL PeCDD	4.2	11		4.2	1.57		Q
TOTAL HxCDD	8.6	7		8.6	1.23		Q
TOTAL HpCDD	16.9	2			1.06		
TOTAL TCDF	22.5	13		24.8	0.76		
TOTAL PeCDF	34.7	16		34.7	1.55		Q
TOTAL HxCDF	54.5	13		54.7	1.14		Q
TOTAL HpCDF	62.7	4			0.94		

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/28/91

FILE NAME....: S914572
CONCAL.....: S914566
ANALYST.....: S8
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-08
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-3AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.5	87.7		33:49	
13C12-PeCDF 234	3.6	90.4	1.54	38:46	
13C12-HxCDF 478	4.0	101	0.53	42:53	
13C12-HxCDD 478	3.7	93.7	1.21	44:02	
13C12-HpCDF 789	3.9	97.0	0.44	49:45	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.9	98.3	0.53	45:00	
13C12-HxCDF 234	5.0	125	0.51	43:51	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
13C12-2378-TCDD	3.0	74.7	0.80	33:48	
13C12-PeCDF 123	3.4	85.7	1.51	37:47	
13C12-PeCDD 123	3.7	93.6	1.51	39:15	Q
13C12-HxCDF 678	3.8	95.6	0.52	43:03	
13C12-HxCDD 678	4.6	115	1.23	44:10	Q
13C12-HpCDF 678	4.4	110	0.45	47:30	
13C12-HpCDD 678	3.9	96.8	1.00	49:03	
13C12-OCDD	7.2	90.0	0.86	54:30	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	33:36	
13C12-HxCDD 789	1.21	44:39	

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/29/91

FILE NAME....: S914573
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-09
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-2AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.09				0.76	33:53	
12378-PeCDD	0.37				1.58	39:17	
123478-HxCDD	0.49				1.30	44:06	
123678-HxCDD	0.67				1.21	44:14	
123789-HxCDD	1.7				1.24	44:39	PR
1234678-HpCDD	10.6				1.04	49:05	B
OCDD	44.2				0.86	54:33	B
2378-TCDF	4.4				0.77	33:06	B
12378-PeCDF	1.7				1.59	37:52	
23478-PeCDF	2.6				1.58	38:48	
123478-HxCDF	14.3				1.13	42:55	
123678-HxCDF	4.9				1.14	43:07	
234678-HxCDF	13.0				1.14	43:55	PR,B
123789-HxCDF	0.72				1.06	45:05	
1234678-HpCDF	37.8				0.94	47:32	B
1234789-HpCDF	7.8				0.93	49:47	
OCDF	84.7				0.89	54:48	B
TOTAL TCDD	2.1	13		2.2	0.80		
TOTAL PeCDD	3.3	12		4.2	1.55		
TOTAL HxCDD	6.6	7		6.7	1.26		Q
TOTAL HpCDD	19.7	2			1.04		
TOTAL TCDF	16.5	13		17.4	0.74		Q
TOTAL PeCDF	29.4	15		30.0	1.58		Q
TOTAL HxCDF	51.9	13		52.3	1.13		
TOTAL HpCDF	75.8	4			0.94		Q

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/29/91

FILE NAME....: S914573
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BI-09
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MMS
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-2AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.7	91.7		33:53	
13C12-PeCDF 234	2.7	66.8	1.51	38:47	
13C12-HxCDF 478	4.2	104	0.53	42:56	
13C12-HxCDD 478	3.1	78.5	1.22	44:05	
13C12-HpCDF 789	3.3	81.9	0.43	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	2.9	71.9	0.53	45:03	Q-RS
13C12-HxCDF 234	3.3	82.8	0.53	43:54	Q-RS

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.6	116	0.81	33:03	Q
13C12-2378-TCDD	3.0	76.0	0.83	33:52	Q-RS
13C12-PeCDF 123	4.5	112	1.52	37:51	Q
13C12-PeCDD 123	4.8	120	1.53	39:16	Q
13C12-HxCDF 678	2.7	68.4	0.51	43:05	Q-RS
13C12-HxCDD 673	3.9	97.5	1.25	44:13	Q
13C12-HpCDF 678	3.5	87.9	0.44	47:31	Q-RS
13C12-HpCDD 678	2.9	72.7	1.07	49:05	Q-RS
13C12-OCDD	5.9	73.3	0.90	54:32	Q-RS

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:38	Q
13C12-HxCDD 789	1.27	44:41	Q

Reviewed By: [signature] 10/29/91

X237_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.

SAMPLE DATA

CONFIRMATION ANALYSES

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482601 CLIENT.....: RADIAN TLI SAMPLE ID.: n/a
CONCAL.....: W482502 SAMPLE ID....: TLI MM5 BLANK
ANALYST.....: SB ANALYSIS DATE: 10/16/91 PROJECT NUMBER: 19064A
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: / /
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: n/a DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: n/a

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
2378-TCDF	EMPC			0.02			
TOTAL TCDD	ND		0.008				
TOTAL TCDF	EMPC			0.02			

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.4	86.2		23:20	

INTERNAL STANDARDS RECO SUMMARY

NAME	AMT	% REC.	TIO	RT	FLAGS
13C12-2378 CDF	2	63.0	0.80	24:53	
13C12-2378 CDD	2	64.9	0.80	23:19	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	23:38	

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....:	W482611	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	49-178-3AC
CONCAL.....:	W482502	SAMPLE ID....:	BI-FB		
ANALYST.....:	VA	ANALYSIS DATE:	10/16/91	PROJECT NUMBER:	19064A
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/13/91
ICAL DATE....:	02/05/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPC2NF04			CLIENT PROJECT:	MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				
2378-TCDF	EMPC			0.03			
TOTAL TCDD	EMPC			0.02			
TOTAL TCDF	0.05	2		0.12	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.4	86.1		23:18	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	1.8	45.1	0.78	24:50	Q-RS
13C12-2378-TCDD	1.8	45.5	0.81	23:17	Q-RS

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:36	Q

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482602
CONCAL.....: W482502
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BI-01
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.46				0.76	23:19	
2378-TCDF	EMPC			11.6			E,B
TOTAL TCDD	3.9	17		3.9	0.77		
TOTAL TCDF	43.2	19		56.6	0.74		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.6	89.6		23:19	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.8	68.9	0.81	24:51	Q-RS
13C12-2378-TCDD	2.3	58.4	0.80	23:17	Q-RS

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:36	Q

* TLI SAMPLE ID: 49-129-6, 49-129-9, 49-175-3, 49-132-1

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....:	W482603	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	W482502	SAMPLE ID....:	BI-02		
ANALYST.....:	VA	ANALYSIS DATE:	10/16/91	PROJECT NUMBER:	19064A
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/13/91
ICAL DATE....:	02/05/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPC2NF04			CLIENT PROJECT:	MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.10				0.69	23:19	
2378-TCDF	EMPC			10.9			E,3
TOTAL TCDD	0.95	13		1.0	0.76		
TOTAL TCDF	10.0	17		25.1	0.77		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.5	86.4		23:19	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.2	80.2	0.81	24:51	
13C12-2378-TCDD	2.5	61.3	0.80	23:17	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:36	

* TLI SAMPLE ID:49-129-11,49-130-1,49-132-4

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482604
CONCAL.....: W482502
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BI-03
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.13				0.72	23:19	
2378-TCDF	EMPC			4.1			E
TOTAL TCDD	1.2	15		1.3	0.79		
TOTAL TCDF	16.2	20		21.0	0.77		

SURROGATE STD. RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	3.6	89.2		23:18	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.5	81.3	0.82	24:52	Q-RS
13C12-2378-TCDD	2.3	57.7	0.80	23:18	Q-RS

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:37	Q-RS

* TLI SAMPLE ID:49-130-6,49-130-9,49-132-7

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482605 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: W482502 SAMPLE ID....: BI-04
ANALYST.....: VA ANALYSIS DATE: 10/16/91 PROJECT NUMBER: 19064A
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/13/91
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.06				0.79	23:19	
2378-TCDF	EMPC			3.1			E,B
TOTAL TCDD	0.41	9		0.62	0.77		
TOTAL TCDF	6.4	17		10.0	0.76		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.6	90.8		23:18	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.3	57.6	0.80	24:51	
13C12-2378-TCDD	2.1	53.3	0.77	23:18	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:36	

* TLI SAMPLE ID:49-130-12,49-131-2,49-132-8

Reviewed By: [signature] 10/29/91 C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482606
CONCAL.....: W482502
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BI-05
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
2378-TCDF	EMPC			3.6			
TOTAL TCDD	0.14	3		0.54	0.85		
TOTAL TCDF	6.2	19		10.5	0.78		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.7	93.7		23:18	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.2	54.6	0.77	24:52	
13C12-2378-TCDD	2.0	50.2	0.79	23:18	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:36	

* TLI SAMPLE ID:49-131-5,49-131-8,49-175-6

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482607
CONCAL.....: W482502
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BI-06
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-176-1AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				
2378-TCDF	EMPC			2.2			E,B
TOTAL TCDD	6.9	17			0.76		—
TOTAL TCDF	15.2	19		17.9	0.77		—

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	3.6	90.8		23:18	—

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.9	71.6	0.77	24:51	—
13C12-2378-TCDD	2.6	65.9	0.80	23:17	—

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.82	23:36	—

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482608
CONCAL.....: W482502
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BI-07
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-176-4AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.22				0.72	23:19	
2378-TCDF	EMPC			3.2			E,J
TOTAL TCDD	2.5	13		2.8	0.78		
TOTAL TCDF	18.8	21		22.8	0.76		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.6	89.9		23:19	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.1	51.3	0.77	24:51	J,Q
13C12-2378-TCDD	1.9	48.7	0.80	23:17	J,Q

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:36	Q

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482609
CONCAL.....: W482502
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BI-08
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-3AC
PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.21				0.83	23:18	
2378-TCDF	EMPC			2.9			E,B
TOTAL TCDD	2.1	13		2.5	0.79		
TOTAL TCDF	26.3	20		30.7	0.76		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.4	84.8		23:18	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.0	75.6	0.75	24:50	
13C12-2378-TCDD	2.7	66.6	0.80	23:17	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:35	

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W482610
CONCAL.....: W482502
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BI-09
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-2AC

PROJECT NUMBER: 19064A
DATE RECEIVED.: 09/13/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
2378-TCDF	EMPC			1.1			E,B
TOTAL TCDD	2.2	12		2.4	0.75		
TOTAL TCDF	29.8	22		31.2	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.4	85.3		23:19	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.1	76.8	0.	24:51	
13C12-2378-TCDD	3.1	76.4	0.73	23:17	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:36	

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
801-10 CAPITOLA DRIVE
RESEARCH TRIANGLE PARK, NC 27713

Phone: (919) 544-5729
Fax: (919) 544-5491

DATE :	* 05 NOVEMBER 1991
CLIENT ID :	* RADIAN CORPORATION
P.O. NUMBER :	* 136957
TLI PROJECT No. :	* 19064B

CASE NARRATIVE
MODEL 8290X

ANALYSIS OF SAMPLES FOR THE PRESENCE OF

POLYCHLORINATED DIBENZO-p-DIOXINS

AND

DIBENZOFURANS

BY

HIGH-RESOLUTION GAS CHROMATOGRAPHY / HIGH-RESOLUTION MASS SPECTROMETRY

Twenty-two MM5 samples were received from RADIAN CORPORATION in good condition September 18, 1991 and stored in a refrigerator at 4°C. The samples were extracted and analyzed according to procedures described in the Triangle Labs User Manual provided with this data package. Any particular difficulties encountered during the sample handling by Triangle Labs will be discussed in the QA/QC remark section below.

Quality Assurance/Quality Control Samples

A laboratory method blank -- identified as the TLI Blank -- is prepared along with the samples.

QA/QC Remarks

The release of this particular set of RADIAN CORPORATION analytical data from Triangle Labs was authorized by the Quality Assurance Officer who has reviewed each sample data package individually following a series of inspections/reviews conducted at two other levels of the data production line. When applicable, general deviations from acceptable QA/QC requirements are identified below. Comments on the effect of these deviations upon the validity and reliability of the results can be obtained from the User Manual (Data Quality Objectives; Section 5). Specific QA/QC Problems Associated with this Particular Project are:

Sample Preparation Laboratory: None

Mass Spectrometry: None

Data Review:

Sample BHI- was reanalyzed on the DB-5 column due to poor GC column resolution. The problem did not occur in this analysis, therefore indicating an instrument related problem.

There are more total TCDD isomers on the DB-225 column analyses than on the DB-5 column analyses due to more peaks within the ion abundance ratio on the DB-225 column analyses than on the DB-5 column analyses.

Analytes were found in the TLI MM5 Blank (BHI) at levels less than one-third the calculated theoretical quantitation limit (TMQL) or at levels below the target detection limit. Blank contamination of this amount are acceptable under TLI guidelines; however, the OCDD isomer is not subject to the blank contamination requirements. Blank contamination is discussed in section 5.1.3.2 of the Data User's Manual.

This sample presents QC ion instabilities as a result of quantitative interferences. Affected isomers may be overestimated or underestimated due to this interference and are flagged with "Q" on the report. Quantitative interference is described in section 5.1.3.2 in the Data User's Manual.

Some of the Internal Standards in this sample show a low percent recovery, and are also above 10:1 signal to noise. These standards are flagged with a "V" on the report and are considered acceptable under TLI guidelines.

The DB-225 column analysis of sample BHI-02 (TLI# 49-129-13, 49-132-3) presents a diphenyl ether peak which coelutes with 2,3,7,8-TCDF. This analyte is flagged "E" on the final report.

The presence of the 2378-TCDF isomer, where found on the DB-5 column at a concentration in excess of the Target Detection Limit, is confirmed on the isomer-specific DB-225 GC column.

Addendum to Section 2.3 of the Data User's Manual

All sample and calibration analyses are conducted using a 2 uL injection volume, unless otherwise specified.

Addendum to Section 4.6 of the Data User's Manual

Effective December 15, 1989, Triangle Laboratories has adopted a new procedure for calculating the analyte specific detection limits. Under this new policy two representative noise height determinations are summed and multiplied by an empirically determined factor before the detection limit equation given in Section 4.6 of the Data User's Manual is applied. The effect of this procedure is to increase DB-225 analyses detection limits by a factor of 3.5, and DB-5 analyses detection limits by a factor of 5. This procedure will result in a more accurate estimate of detection limits.

The revised formula for DB-225 analyses is:

$$DL_{ai}^{DB-225} = \frac{2.5 * (3.5 * H_{ai}) * Q_{Sj}}{A_{Sj} * \overline{RRF} * W}$$

$3.5 * H_{ai} = A_{noise}$

The revised formula for DB-5 analyses is:

$$DL_{ai}^{DB-5} = \frac{2.5 * (5 * H_{ai}) * Q_{Sj}}{A_{Sj} * \overline{RRF} * W}$$

$5 * H_{ai} = A_{noise}$

The symbols are defined in Section 4.6 of the Data User's Manual.

As an example, consider a DB-225 confirmation analysis of a 10 g sample. The internal standard spike is 2000 pg, the 13C12-2,3,7,8-TCDF internal standard area is 12000 area units, the RRF is 1.215 and the noise height is 11 units. The 2,3,7,8-TCDF detection limit is:

$$DL_{TCDF}^{DB-225} = \frac{2.5 * (3.5 * 11) * 2000}{12000 * 1.215 * 10.0} = 1.3 \text{ ppt}$$

Should RADIAN CORPORATION have any questions or comments to formulate regarding this data package please feel free to contact us.

For Triangle Laboratories,

Laboratory Management	Quality Assurance Unit	Report Preparation/ Quality Control
Signed:		
Title:		
Mary Collins	Diane Williford	Todd Vilen
Project Coordinator Supervisor	QA Specialist	Dioxin Data Review Officer

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

11/04/91

FILE NAME....: S914895
CONCAL.....: S914894
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-02
ANALYSIS DATE: 10/31/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *
PROJECT NUMBER: 190648
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.04				0.80	34:29	
12378-PeCDD	0.25				1.55	39:55	
123478-HxCDD	0.29				1.19	44:43	
123678-HxCDD	0.40				1.24	44:51	
123789-HxCDD	1.3				1.19	45:18	
1234678-HpCDD	6.1				1.01	49:49	
OCDD	23.4				0.85	55:29	
2378-TCDF	1.7				0.70	33:41	B
12378-PeCDF	1.2				1.54	38:28	
23478-PeCDF	1.6				1.57	39:26	
123478-HxCDF	12.9				1.14	43:33	
123678-HxCDF	3.2				1.16	43:45	
234678-HxCDF	17.7				1.16	44:32	B
123789-HxCDF	1.3				1.13	45:42	
1234678-HpCDF	23.5				0.92	48:13	B
1234789-HpCDF	9.6				0.95	50:31	
OCDF	25.2				0.88	55:44	B
TOTAL TCDD	0.16	6		0.25	0.75		
TOTAL PeCDD	1.6	10		1.6	1.59		
TOTAL HxCDD	4.6	7			1.21		
TOTAL HpCDD	8.1	1		15.7	1.01		
TOTAL TCDF	4.1	12		4.6	0.73		
TOTAL PeCDF	14.0	12			1.58		
TOTAL HxCDF	51.1	12			1.17		
TOTAL HpCDF	62.6	4			0.93		

* TLI SAMPLE ID:49-129-13,49-132-3

Reviewed By: [signature] 11/4/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

FILE NAME....: S914895
CONCAL.....: S914894
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-02
ANALYSIS DATE: 10/31/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	94.8		34:29	
13C12-PeCDF 234	3.2	78.9	1.55	39:25	
13C12-HxCDF 478	5.4	134	0.50	43:35	
13C12-HxCDD 478	3.3	82.0	1.21	44:42	
13C12-HpCDF 789	7.4	185	0.42	50:30	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	2.6	63.8	0.50	45:41	
13C12-HxCDF 234	1.6	40.2	0.50	44:31	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.8	69.5	0.74	33:39	
13C12-2378-TCDD	3.0	75.0	0.80	34:27	
13C12-PeCDF 123	1.3	37.9	1.51	38:27	V
13C12-PeCDD 123	1.8	44.1	1.45	39:54	
13C12-HxCDF 678	0.58	14.5	0.49	43:44	V
13C12-HxCDD 678	1.7	41.8	1.24	44:51	Q
13C12-HpCDF 678	0.70	17.5	0.41	48:12	V
13C12-HpCDD 678	1.7	43.1	1.06	49:49	
13C12-OCDD	4.7	59.1	0.87	55:28	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	34:15	
13C12-HxCDD 789	1.19	45:20	

* TLI SAMPLE ID:49-129-13,49-132-3

Reviewed By: [illegible] 11/4/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: U246507
CONCAL.....: U246403
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHI-02
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.07				0.78	23:00	
2378-TCDF	EMPC			0.86			E, B
TOTAL TCDD	0.32	11		0.41	0.76		
TOTAL TCDF	5.3	20		6.1	0.75		E

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	100		23:00	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.8	95.7	0.78	24:29	
13C12-2378-TCDD	3.5	87.2	0.79	22:59	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:17	

* TLI SAMPLE ID:49-129-13,49-132-3

Reviewed By: [illegible] 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
801-10 CAPITOLA DRIVE
RESEARCH TRIANGLE PARK, NC 27713

Phone: (919) 544-5729
Fax: (919) 544-5491

DATE :	* 31 OCTOBER 1991
CLIENT ID :	* RADIAN CORPORATION
P.O. NUMBER :	* 136957
TLI PROJECT No. :	* 19064B

CASE NARRATIVE
MODEL 8290X

ANALYSIS OF SAMPLES FOR THE PRESENCE OF

POLYCHLORINATED DIBENZO-p-DIOXINS

AND

DIBENZOFURANS

BY

HIGH-RESOLUTION GAS CHROMATOGRAPHY / HIGH-RESOLUTION MASS SPECTROMETRY

Twenty-two MM5 samples were received from RADIAN CORPORATION in good condition September 18, 1991 and stored in a refrigerator at 4°C. The samples were extracted and analyzed according to procedures described in the Triangle Labs User Manual provided with this data package. Any particular difficulties encountered during the sample handling by Triangle Labs will be discussed in the QA/QC remark section below.

Quality Assurance/Quality Control Samples

A laboratory method blank -- identified as the TLI Blank -- is prepared along with the batch of samples.

QA/QC Remarks

The release of this particular set of RADIAN CORPORATION analytical data by Triangle Labs was authorized by the Quality Assurance Officer who has reviewed each sample data package individually following a series of inspections/reviews conducted at two other levels of the data production line. When applicable, general deviations from acceptable QA/QC requirements are identified below. Comments on the effect of these deviations upon the validity and reliability of the results can be obtained from the User Manual (Data Quality Objectives; Section 5). Specific QA/QC Problems Associated with this Particular Project are:

Sample Preparation Laboratory: None

Mass Spectrometry: None

Data Review:

Some samples in this project present QC ion instabilities as a result of quantitative interferences. The affected isomers are flagged "Q" on the report. Affected analytes may be overestimated or underestimated due to this interference. Quantitative interference is described in section 5.1.2.4.1 of the Data User's Manual.

Analytes were found in the TLI MM5 Blank (BHI) and the TLI MM5 Blank (BHO) at levels less than one-third the calculated theoretical method quantitation limit (TMQL) or at levels below the target detection limit of 50 pg. Blank contamination levels of one-third TMQL or less or below the target detection limit are acceptable under TLI guidelines; however, the OCDD isomer is not required to follow blank contamination criteria. Blank contamination is discussed in section 5.1.3.2 of the Data User's Manual.

Sample BHI-01 (TLI # 49-129-4,8, 49-131-12) shows slight saturation of 1,2,3,4,6,7,8-HpCDF and OCDF. Sample BHI-06 (TLI #49-175-8AC) shows slight saturation of 1,2,3,4,6,7,8-HpCDF. The degree of saturation in these samples is minimal and reliable concentrations of these affected isomers are reported. Consequently, these samples are not being diluted and reanalyzed.

A coeluting peak in the diphenyl ether channel interferes with the 2,3,7,8-TCDF isomer on the DB-225 column analysis for the following samples:

BHI-02 (TLI # 49-129-13, 49-132-3)
BHI-03 (TLI # 49-130-5,8, 49-132-6)
BHI-04 (TLI # 49-130-11, 49-131-1, 49-175-2)
BHI-05 (TLI # 49-131-4,9, 49-175-5)
BHI-07 (TLI # 49-176-3AC)
BHI-08 (TLI # 49-177-2AC)
BHI-09 (TLI # 49-178-1AC)

These interferances result in out of ratio peaks that appear as EMPC's flagged with an "E" descriptor. For sample BHI-09, the 2378-TCDF concentration is more accurately represented by the DB-5 analysis, even though this represents a non-specific column determination.

The initial DB-5 column analysis of sample BHI-02 showed poor column resolution. Although the resolution pattern did not indicate whether this effect was instrument or matrix related, we are attempting an additional DB-5 analysis (re-injection) of this sample. Both column analyses of this sample will be forwarded to you as they become available.

The presence of the 2378-TCDF isomer, where found on the DB-5 column at a concentration in excess of the Target Detection Limit, is confirmed on the isomer-specific DB-225 GC column.

Addendum to Section 2.3 of the Data User's Manual

All sample and calibration analyses are conducted using a 2 uL injection volume, unless otherwise specified.

Addendum to Section 4.6 of the Data User's Manual

Effective December 15, 1989, Triangle Laboratories has adopted a new procedure for calculating the analyte specific detection limits. Under this new policy two representative noise height determinations are summed and multiplied by an empirically determined factor before the detection limit equation given in Section 4.6 of the Data User's Manual is applied. The effect of this procedure is to increase DB-225 analyses detection limits by a factor of 3.5, and DB-5 analyses detection limits by a factor of 5. This procedure will result in a more accurate estimate of detection limits.

The revised formula for DB-225 analyses is:

$$DL_{ai}^{DB-225} = \frac{2.5 * (3.5 * H_{ai}) * Q_{Bj}}{A_{Bj} * \overline{RRF} * W}$$

$$3.5 * H_{ai} = A_{noise}$$

The revised formula for DB-5 analyses is:

$$DL_{ai}^{DB-5} = \frac{2.5 * (5 * H_{ai}) * Q_{Sj}}{A_{Sj} * \overline{RRF} * W}$$

$$5 * H_{ai} = A_{noise}$$

The symbols are defined in Section 4.6 of the Data User's Manual.

As an example, consider a DB-225 confirmation analysis of a 10 g sample. The internal standard spike is 2000 pg, the 13C12-2,3,7,8-TCDF internal standard area is 12000 area units, the RRF is 1.215 and the noise height is 11 units. The 2,3,7,8-TCDF detection limit is:

$$DL_{TCDF}^{DB-225} = \frac{2.5 * (3.5 * 11) * 2000}{12000 * 1.215 * 10.0} = 1.3 \text{ ppt}$$

Should RADIAN CORPORATION have any questions or comments to formulate regarding this data package please feel free to contact us.

For Triangle Laboratories,

Laboratory Management	Quality Assurance Unit	Report Preparation/ Quality Control
Signed:		
Title:		
Project Coordinator Supervisor	QA Manager	Dioxin Data Review Officer

TRIANGLE LABORATORIES, INC.

SAMPLE DATA

FULLSCREEN ANALYSE

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914575
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: TLI MM5 BLANK (BHI)
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: n/a

TLI SAMPLE ID.: n/a
PROJECT NUMBER: 19064B
DATE RECEIVED.: / /
DATE COLLECTED: / /
CLIENT PROJECT: n/a

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				—
12378-PeCDD	ND		0.01				—
123478-HxCDD	ND		0.01				—
123678-HxCDD	EMPC			0.009			—
123789-HxCDD	ND		0.01				—
1234678-HpCDD	0.07				0.90	49:06	—
OCDD	0.39				0.86	54:33	—
2378-TCDF	EMPC			0.01			
12378-PeCDF	ND		0.01				—
23478-PeCDF	ND		0.01				—
123478-HxCDF	ND		0.01				—
123678-HxCDF	ND		0.008				—
234678-HxCDF	0.02				1.40	43:53	Q
123789-HxCDF	ND		0.01				—
1234678-HpCDF	EMPC			0.02			—
1234789-HpCDF	ND		0.01				—
OCDF	EMPC			0.04			—
TOTAL TCDD	ND		0.01				
TOTAL PeCDD	EMPC			0.49			Q
TOTAL HxCDD	EMPC			0.01			Q
TOTAL HpCDD	0.07	1		0.11	0.90		—
TOTAL TCDF	EMPC			0.06			
TOTAL PeCDF	EMPC			0.04			—
TOTAL HxCDF	0.02	1			1.40		—
TOTAL HpCDF	0.01	1		0.04	0.96		—

Reviewed By: [signature] 10/30/91

X237_RPT 4.00, LARS 4.00.00

FILE NAME....: S914575
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: TLI MM5 BLANK (BHI)
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: n/a

TLI SAMPLE ID.: n/a
PROJECT NUMBER: 190648
DATE RECEIVED.: / /
DATE COLLECTED: / /
CLIENT PROJECT: n/a

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-TCDD	4.0	101		33:52	
13C12-PeCDF 234	4.0	99.3	1.53	38:47	
13C12-HxCDF 478	4.3	107	0.50	42:55	
13C12-HxCDD 478	3.4	86.0	1.20	44:04	
13C12-HpCDF 789	4.8	119	0.44	49:47	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.5	88.1	0.50	45:02	
13C12-HxCDF 234	4.3	108	0.51	43:53	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.9	71.7	0.76	33:02	
13C12-2378-TCDD	2.7	68.4	0.80	33:50	
13C12-PeCDF 123	3.1	78.0	1.57	37:49	
13C12-PeCDD 123	3.0	126	1.55	39:17	
13C12-HxCDF 678	3.0	74.5	0.50	43:05	
13C12-HxCDD 678	4.3	107	1.20	44:12	
13C12-HpCDF 678	3.4	86.2	0.44	47:32	
13C12-HpCDD 678	3.9	97.5	1.03	49:05	
13C12-OCDD	6.3	78.2	0.90	54:32	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	33:37	
13C12-HxCDD 789	1.19	44:40	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914614 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-178-6
CONCAL.....: S914608 SAMPLE ID....: REAGENT BLANK
ANALYST.....: SB ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				—
12378-PeCDD	ND		0.01				—
123478-HxCDD	ND		0.01				—
123678-HxCDD	ND		0.008				—
123789-HxCDD	ND		0.01				—
1234678-HpCDD	0.04				0.98	49:05	B
OCDD	EMPC			0.22			B
2378-TCDF	EMPC			0.008			—
12378-PeCDF	ND		0.01				—
23478-PeCDF	ND		0.01				—
123478-HxCDF	ND		0.01				—
123678-HxCDF	ND		0.008				—
234678-HxCDF	EMPC			0.01			Q
123789-HxCDF	ND		0.01				—
1234678-HpCDF	ND		0.008				—
1234789-HpCDF	ND		0.01				—
OCDF	ND		0.02				—
TOTAL TCDD	ND		0.008				—
TOTAL PeCDD	ND		0.01				—
TOTAL HxCDD	ND		0.008				—
TOTAL HpCDD	0.08	2			0.93		—
TOTAL TCDF	EMPC			0.008			—
TOTAL PeCDF	ND		0.01				—
TOTAL HxCDF	EMPC			0.01			Q
TOTAL HpCDF	ND		0.01				—

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (&) QA/QC SUMMARY

10/30/91

FILE NAME....: S914614
CONCAL.....: S914608
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: REAGENT BLANK
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-6
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.3	82.7	0.51	45:01	—
13C12-HxCDF 234	5.1	127	0.50	43:51	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.2	80.6	0.77	33:01	—
13C12-2378-TCDD	3.2	79.2	0.79	33:48	—
13C12-PeCDF 123	3.2	80.9	1.53	37:47	—
13C12-PeCDD 123	4.5	112	1.52	39:15	Q
13C12-HxCDF 678	2.6	66.0	0.50	43:03	—
13C12-HxCDD 678	4.5	113	1.24	44:11	Q
13C12-HpCDF 678	3.1	78.7	0.43	47:30	—
13C12-HpCDD 678	3.4	85.7	0.88	49:04	—
13C12-OCDD	6.0	75.4	0.90	54:31	—

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	33:36	—
13C12-HxCDD 789	1.22	44:39	—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914615
CONCAL.....: S914608
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: TRIP BLANK
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-7
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				—
12378-PeCDD	ND		0.02				—
123478-HxCDD	ND		0.02				—
123678-HxCDD	ND		0.01				—
123789-HxCDD	ND		0.02				—
1234678-HpCDD	EMPC			0.04			B
OCDD	0.20				0.83	54:30	B
2378-TCDF	0.01				0.70	33:02	—
12378-PeCDF	ND		0.02				—
23478-PeCDF	ND		0.02				—
123478-HxCDF	ND		0.02				—
123678-HxCDF	ND		0.02				—
234678-HxCDF	EMPC			0.02			Q
123789-HxCDF	ND		0.02				—
1234678-HpCDF	ND		0.02				—
1234789-HpCDF	ND		0.03				—
OCDF	ND		0.04				—
TOTAL TCDD	ND		0.01				—
TOTAL PeCDD	ND		0.02				—
TOTAL HxCDD	ND		0.02				—
TOTAL HpCDD	EMPC			0.06			—
TOTAL TCDF	0.01	1			0.70		—
TOTAL PeCDF	ND		0.02				—
TOTAL HxCDF	EMPC			0.02			Q
TOTAL HpCDF	ND		0.02				—

Reviewed By: [signature] 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

FILE NAME....: S914615
CONCAL.....: S914608
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: TRIP BLANK
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-7

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	101		33:49	—
13C12-PeCDF 234	4.1	103	1.52	38:46	—
13C12-HxCDF 478	4.6	114	0.51	42:54	—
13C12-HxCDD 478	4.0	101	1.18	44:02	—
13C12-HpCDF 789	4.7	118	0.41	49:45	—

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.1	102	0.52	45:01	—
13C12-HxCDF 234	5.7	144	0.52	43:51	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.8	95.2	0.77	33:01	—
13C12-2378-TCDD	3.7	91.9	0.73	33:48	—
13C12-PeCDF 123	3.7	91.5	1.53	37:47	—
13C12-PeCDD 123	3.8	93	1.42	39:15	—
13C12-HxCDF 678	2.6	66.1	0.52	43:03	—
13C12-HxCDD 678	4.6	115	1.18	44:10	—
13C12-HpCDF 678	3.1	76.8	0.45	47:30	—
13C12-HpCDD 678	3.6	89.4	1.05	49:04	—
13C12-OCDD	6.3	78.5	0.88	54:30	—

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	33:36	—
13C12-HxCDD 789	1.21	44:39	—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914576
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-01
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.24				0.80	33:50	
12378-PeCDD	0.91				1.66	39:17	
123478-HxCDD	0.90				1.25	44:04	Q
123678-HxCDD	1.3				1.22	44:12	B
123789-HxCDD	1.7				1.28	44:40	PR→Q
1234678-HpCDD	20.5				1.01	49:06	B
OCDD	75.2				0.86	54:34	B
2378-TCDF	7.2				0.75	33:03	B
12378-PeCDF	4.2				1.60	37:49	
23478-PeCDF	6.3				1.58	38:47	
123478-HxCDF	22.6				1.15	42:54	PR
123678-HxCDF	8.5				1.14	43:05	
234678-HxCDF	31.4				1.16	43:53	PR→Q, B
123789-HxCDF	1.6				1.12	45:03	
1234678-HpCDF	44.6				0.91	47:33	S, B
1234789-HpCDF	16.0				0.93	49:47	
OCDF	176				0.92	54:49	S, B
TOTAL TCDD	2.8	11		3.0	0.81		
TOTAL PeCDD	4.7	10		4.8	1.67		Q
TOTAL HxCDD	10.1	7			1.25		Q
TOTAL HpCDD	38.6	2			1.01		
TOTAL TCDF	23.7	13		23.2	0.74		
TOTAL PeCDF	52.6	14		52.7	1.54		
TOTAL HxCDF	99.2	13		99.8	1.15		Q
TOTAL HpCDF	122	4			0.93		S

* TLI SAMPLE ID:49-129-4, 49-129-8, 49-131-12

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

FILE NAME....: S914576
CONCAL.....: S914566
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-01
ANALYSIS DATE: 10/15/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	102		33:50	
13C12-PeCDF 234	4.2	104	1.57	38:47	
13C12-HxCDF 478	4.8	119	0.52	42:55	
13C12-HxCDD 478	3.5	87.6	1.12	44:03	
13C12-HpCDF 789	3.6	89.6	0.42	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.0	101	0.50	45:02	
13C12-HxCDF 234	5.4	135	0.50	43:52	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.0	100	0.78	33:01	
13C12-2378-TCDD	3.9	98.1	0.80	33:49	
13C12-PeCDF 123	3.9	98.7	1.55	37:49	
13C12-PeCDD 123	5.9	149	1.54	39:16	Q
13C12-HxCDF 678	3.0	76.0	0.51	43:04	
13C12-HxCDD 678	5.4	135	1.20	44:11	Q
13C12-HpCDF 678	4.8	119	0.44	47:32	
13C12-HpCDD 678	4.3	107	1.02	49:05	
13C12-OCDD	8.5	106	0.86	54:33	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:36	
13C12-HxCDD 789	1.17	44:40	

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914580 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: S914578 SAMPLE ID....: BHI-03
ANALYST.....: JA ANALYSIS DATE: 10/15/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.10				0.87	33:50	
12378-PeCDD	0.52				1.36	39:17	
123478-HxCDD	0.66				1.13	44:03	B
123678-HxCDD	0.87				1.27	44:11	B
123789-HxCDD	1.5				1.25	44:37	B, PR
1234678-HpCDD	12.5				1.02	49:04	B
OCDD	42.9				0.85	54:31	B
2378-TCDF	4.8				0.74	33:03	B
12378-PeCDF	2.5				1.76	37:50	
23478-PeCDF	3.8				1.54	38:48	
123478-HxCDF	16.6				1.12	42:53	PR
123678-HxCDF	5.8				1.14	43:04	
234678-HxCDF	12.6				1.11	43:51	PR, B
123789-HxCDF	0.62				1.13	45:02	
1234678-HpCDF	38.5				0.95	47:31	B
1234789-HpCDF	10.7				0.90	49:46	
OCDF	89.4				0.89	54:46	B
TOTAL TCDD	1.5	9		1.8	0.80		
TOTAL PeCDD	2.5	9		6.2	1.51		
TOTAL HxCDD	9.5	7			1.24		
TOTAL HpCDD	23.0	2			1.01		
TOTAL TCDF	22.4	15		24.4	0.74		
TOTAL PeCDF	38.4	12		40.4	1.58		
TOTAL HxCDF	68.7	12		69.1	1.13		
TOTAL HpCDF	91.2	4			0.93		

* TLI SAMPLE ID:49--130-5,8,49-132-6

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

FILE NAME....:	S914580	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	S914578	SAMPLE ID....:	BHI-03		
ANALYST.....:	JA	ANALYSIS DATE:	10/15/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	102		33:50	
13C12-PeCDF 234	4.0	101	1.51	38:47	
13C12-HxCDF 478	4.6	115	0.52	42:54	
13C12-HxCDD 478	3.3	81.5	1.23	44:02	
13C12-HpCDF 789	3.9	96.9	0.42	49:45	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.8	94.7	0.52	45:01	
13C12-HxCDF 234	4.3	108	0.51	43:51	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.7	92.2	0.77	33:01	
13C12-2378-TCDD	3.3	81.5	0.80	33:49	
13C12-PeCDF 123	2.6	65.9	1.48	37:49	
13C12-PeCDD 123	4.1	103	1.60	39:16	
13C12-HxCDF 678	3.7	92.1	0.51	43:03	
13C12-HxCDD 678	5.0	126	1.19	44:10	Q
13C12-HpCDF 678	3.6	90.0	0.46	47:30	
13C12-HpCDD 678	3.3	82.6	1.02	49:03	
13C12-OCDD	4.4	55.4	0.80	54:30	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.82	33:37	
13C12-HxCDD 789	1.11	44:39	

Reviewed By: _____ 10/30/91 X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914611
CONCAL.....: S914608
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-04
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.09				0.83	33:50	
12378-PeCDD	0.50				1.59	39:17	
123478-HxCDD	0.53				1.24	44:05	
123678-HxCDD	0.92				1.29	44:13	
123789-HxCDD	1.3				1.20	44:38	
1234678-HpCDD	14.6				1.09	49:06	
OCDD	47.1				0.86	54:32	
2378-TCDF	4.0				0.75	33:04	
12378-PeCDF	1.7				1.66	37:50	
23478-PeCDF	3.4				1.52	38:48	
123478-HxCDF	17.8				1.13	42:53	
123678-HxCDF	5.5				1.13	43:05	
234678-HxCDF	18.6				1.14	43:53	
123789-HxCDF	0.82				1.15	45:03	
1234678-HpCDF	38.8				0.94	47:32	
1234789-HpCDF	11.2				0.95	49:47	
OCDF	99.9				0.88	54:47	
TOTAL TCDD	1.2	9		1.5	0.80		
TOTAL PeCDD	3.0	9		3.3	1.56		
TOTAL HxCDD	7.2	7			1.20		
TOTAL HpCDD	23.3	2			1.08		
TOTAL TCDF	6.7	13		19.3	0.74		
TOTAL PeCDF	33.7	13		34.2	1.57		
TOTAL HxCDF	74.1	12		74.8	1.14		
TOTAL HpCDF	98.0	4			0.94		

* TLI SAMPLE ID:49-130-11,49-131-1,49-175-2

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....: S914611
CONCAL.....: S914608
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-04
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.2	105		33:50	
13C12-PeCDF 234	3.8	94.1	1.50	38:47	
13C12-HxCDF 478	4.7	118	0.53	42:55	
13C12-HxCDD 478	2.8	70.5	1.21	44:03	
13C12-HpCDF 789	3.9	98.4	0.41	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.5	87.7	0.48	45:02	
13C12-HxCDF 234	4.6	114	0.52	43:52	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.8	94.2	0.75	33:02	
13C12-2378-TCDD	3.0	75.9	0.87	33:50	
13C12-PeCDF 123	3.1	77.7	1.34	37:49	
13C12-PeCDD 123	4.1	102	1.51	39:16	
13C12-HxCDF 678	3.4	86.6	0.62	43:04	
13C12-HxCDD 678	5.7	142	1.22	44:12	Q
13C12-HpCDF 678	3.6	89.8	0.43	47:31	
13C12-HpCDD 678	3.3	83.6	1.00	49:05	
13C12-OCDD	5.5	69.1	0.92	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	33:37	
13C12-HxCDD 789	1.23	44:40	

Reviewed By: [signature] 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914591
CONCAL.....: S914584
ANALYST.....: VC
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-05
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.11				0.72	33:49	
12378-PeCDD	0.53				1.58	39:16	
123478-HxCDD	0.68				1.27	44:03	Q
123678-HxCDD	0.83				1.23	44:11	B
123789-HxCDD	1.5				1.26	44:37	Q, PR
1234678-HpCDD	14.7				1.03	49:05	B
OCDD	66.6				0.86	54:32	B
2378-TCDF	4.3				0.73	33:03	B
12378-PeCDF	1.8				1.54	37:49	
23478-PeCDF	3.5				1.59	38:47	
123478-HxCDF	16.9				1.14	42:53	PR
123678-HxCDF	5.3				1.13	43:04	
234678-HxCDF	15.9				1.13	43:52	PR, B
123789-HxCDF	0.71				1.24	45:02	
1234678-HpCDF	42.7				0.93	47:31	B
1234789-HpCDF	12.9				0.92	49:46	
OCDF	115				0.90	54:47	B
TOTAL TCDD	1.5	10		1.7	0.77		
TOTAL PeCDD	2.2	8		3.2	1.57		Q
TOTAL HxCDD	7.9	8			1.26		Q
TOTAL HpCDD	27.8	2			1.03		
TOTAL TCDF	17.8	13		19.8	0.73		
TOTAL PeCDF	35.3	16		35.4	1.54		
TOTAL HxCDF	69.7	15		69.7	1.15		
TOTAL HpCDF	105	4			0.93		

* TLI SAMPLE ID:49-131-4,9, 49-175-5

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/9

FILE NAME....: S914591
CONCAL.....: S914584
ANALYST.....: VC
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-05
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	102		33:49	
13C12-PeCDF 234	3.9	96.6	1.56	38:46	
13C12-HxCDF 478	4.6	114	0.52	42:54	
13C12-HxCDD 478	3.3	81.9	1.25	44:02	Q
13C12-HpCDF 789	4.5	112	0.44	49:45	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	2.8	70.7	0.51	45:01	
13C12-HxCDF 234	3.4	86.2	0.52	43:51	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.8	70.0	0.76	33:01	
13C12-2378-TCDD	2.5	61.3	0.77	33:48	
13C12-PeCDF 123	2.7	68.5	1.49	37:47	
13C12-PeCDD 123	4.3	107	1.59	39:16	Q
13C12-HxCDF 678	2.3	82.0	0.51	43:03	
13C12-HxCDD 678	3.7	93.3	1.19	44:11	Q
13C12-HpCDF 678	3.0	74.5	0.45	47:30	
13C12-HpCDD 678	3.2	80.0	1.01	49:04	
13C12-OCDD	6.0	75.1	0.86	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:36	
13C12-HxCDD 789	1.24	44:39	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914593
CONCAL.....: S914584
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-07
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-176-3AC
PROJECT NUMBER: 190648
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.24				0.77	33:49	—
12378-PeCDD	1.1				1.57	39:16	—
123478-HxCDD	1.3				1.28	44:02	Q
123678-HxCDD	1.7				1.26	44:11	B
123789-HxCDD	2.9				1.28	44:36	PR, Q
1234678-HpCDD	22.2				1.03	49:03	B
OCDD	68.6				0.88	54:31	B
2378-TCDF	8.4				0.75	33:02	B
12378-PeCDF	3.8				1.66	37:47	—
23478-PeCDF	7.5				1.58	38:46	—
123478-HxCDF	27.3				1.14	42:52	PR
123678-HxCDF	9.8				1.15	43:04	—
234678-HxCDF	25.9				1.14	43:51	Q PR, B
123789-HxCDF	1.0				1.12	45:01	—
1234678-HpCDF	60.9				0.92	47:31	B
1234789-HpCDF	12.6				0.94	49:45	—
OCDF	130				0.90	54:46	B
TOTAL TCDD	3.5	12			0.78		—
TOTAL PeCDD	6.8	11		7.2	1.61		D
TOTAL HxCDD	16.0	7			1.26		Q
TOTAL HpCDD	44.2	2			1.02		—
TOTAL TCDF	32.9	14		34.5	0.75		—
TOTAL PeCDF	37.3	13		37.2	1.31		—
TOTAL HxCDF	100	15		100	1.16		D
TOTAL HpCDF	130	4			0.93		—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

FILE NAME....: S914593 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-176-3AC
CONCAL.....: S914584 SAMPLE ID....: BHI-07
ANALYST.....: SB ANALYSIS DATE: 10/16/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	101		33:49	
13C12-PeCDF 234	4.1	102	1.51	38:44	
13C12-HxCDF 478	4.3	107	0.51	42:53	
13C12-HxCDD 478	3.5	87.9	1.23	44:02	
13C12-HpCDF 789	3.4	85.8	0.45	49:44	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.8	94.5	0.50	45:00	
13C12-HxCDF 234	5.3	133	0.50	43:50	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.6	88.9	0.76	32:59	
13C12-2378-TCDD	3.1	77.9	0.82	33:48	
13C12-PeCDF 123	3.6	91.2	1.55	37:47	
13C12-PeCDD 123	4.3	113	1.69	39:15	Q
13C12-HxCDF 678	3.9	98.3	0.50	43:02	
13C12-HxCDD 678	4.7	117	1.21	44:10	Q
13C12-HpCDF 678	4.4	110	0.44	47:30	
13C12-HpCDD 678	3.6	88.8	1.01	49:02	
13C12-OCDD	6.3	79.1	0.86	54:30	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.82	33:35	
13C12-HxCDD 789	1.27	44:38	

Reviewed By: _____ __/__/__ X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914592
CONCAL.....: S914584
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-06
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-175-8AC
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.28				0.81	33:49	
12378-PeCDD	1.4				1.57	39:16	
123478-HxCDD	1.9				1.25	44:03	Q
123678-HxCDD	1.9				1.27	44:11	B
123789-HxCDD	3.3				1.25	44:37	Q, PR
1234678-HpCDD	24.5				1.02	49:04	B
OCDD	65.3				0.86	54:32	B
2378-TCDF	9.8				0.74	33:03	B
12378-PeCDF	5.7				1.60	37:49	
23478-PeCDF	9.8				1.67	38:47	
123478-HxCDF	35.0				1.15	42:53	PR
123678-HxCDF	13.3				1.14	43:04	
234678-HxCDF	37.5				1.14	43:52	Q, PR, B
123789-HxCDF	1.2				1.16	45:02	
1234678-HpCDF	54.5				0.91	47:32	S, B
1234789-HpCDF	11.0				0.95	49:46	Q
OCDF	126				0.89	54:47	B
TOTAL TCDD	4.4	12		4.4	0.78		
TOTAL PeCDD	9.4	11			1.61		Q
TOTAL HxCDD	18.2	7			1.26		Q
TOTAL HpCDD	47.5	2			1.02		
TOTAL TCDF	48.4	16		49.4	0.75		
TOTAL PeCDF	99.1	16		99.2	1.61		
TOTAL HxCDF	154	13		154	1.14		Q
TOTAL HpCDF	118	4			0.93		S

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....: S914592
CONCAL.....: S914584
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-06
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-175-8AC
PROJECT NUMBER: 190648
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.2	106		33:49	
13C12-PeCDF 234	4.5	111	1.51	38:46	
13C12-HxCDF 478	4.5	113	0.51	42:53	
13C12-HxCDD 478	4.5	113	1.20	44:02	
13C12-HpCDF 789	3.0	76.1	0.43	49:45	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.1	103	0.50	45:00	
13C12-HxCDF 234	6.7	167	0.51	43:51	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.2	106	0.78	33:01	
13C12-2378-TCDD	3.7	92.0	0.78	33:49	
13C12-PeCDF 123	3.9	98.1	1.43	37:47	
13C12-PeCDD 123	5.0	124	1.55	39:15	Q
13C12-HxCDF 678	3.9	98.4	0.51	43:03	
13C12-HxCDD 678	5.4	135	1.19	44:10	Q
13C12-HpCDF 678	5.4	134	0.44	47:31	Q
13C12-HpCDD 678	4.0	101	1.05	49:03	
13C12-OCDD	7.8	97.6	0.89	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	33:36	
13C12-HxCDD 789	1.21	44:39	

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914594
CONCAL.....: S914584
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-08
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-2AC
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.17				0.68	33:49	—
12378-PeCDD	0.87				1.58	39:16	—
123478-HxCDD	1.2				1.25	44:03	—
123678-HxCDD	1.3				1.28	44:11	B
123789-HxCDD	2.6				1.25	44:37	PR
1234678-HpCDD	18.5				1.05	49:04	B
OCDD	62.0				0.86	54:31	B
2378-TCDF	6.0				0.73	33:02	B
12378-PeCDF	3.2				1.53	37:47	—
23478-PeCDF	5.2				1.55	38:46	—
123478-HxCDF	24.6				1.14	42:52	PR
123678-HxCDF	8.8				1.14	43:04	—
234678-HxCDF	27.6				1.15	43:51	Q,PR,B
123789-HxCDF	0.92				1.16	45:01	—
1234678-HpCDF	57.7				0.91	47:31	B
1234789-HpCDF	12.2				0.92	49:45	—
OCDF	109				0.89	54:46	B
TOTAL TCDD	1.9	9		2.6	0.77		—
TOTAL PeCDD	4.8	8		5.6	1.57		Q
TOTAL HxCDD	10.3	7		14.0	1.24		—
TOTAL HpCDD	36.8	2			1.04		—
TOTAL TCDF	29.0	16		30.0	0.74		—
TOTAL PeCDF	57.5	15		57.5	1.58		—
TOTAL HxCDF	107	13		107	1.13		Q
TOTAL HpCDF	121	4			0.93		—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

FILE NAME....: S914594
CONCAL.....: S914584
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-08
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-2AC

PROJECT NUMBER: 19064B
DATE RECEIVED.. 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	1.7	42.0		33:49	
13C12-PeCDF 234	1.5	38.5	1.55	38:46	
13C12-HxCDF 478	1.9	48.1	0.52	42:53	
13C12-HxCDD 478	1.9	46.4	1.19	44:02	
13C12-HpCDF 789	1.6	40.8	0.47	49:44	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.8	94.3	0.50	45:00	
13C12-HxCDF 234	5.7	143	0.50	43:50	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.6	89.5	0.79	32:59	
13C12-2378-TCDD	3.0	75.6	0.82	33:48	
13C12-PeCDF 123	3.3	83.5	1.46	37:47	
[illegible]	3.9	[illegible]	1.45	39:15	Q
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
13C12-HxCDD 678	3.9	98.7	1.20	44:10	
13C12-HpCDF 678	3.7	91.5	0.45	47:30	
13C12-HpCDD 678	3.1	77.7	1.06	49:03	
13C12-OCDD	5.5	68.6	0.86	54:30	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	33:36	
13C12-HxCDD 789	1.27	44:39	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914597 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-178-1AC
CONCAL.....: S914596 SAMPLE ID....: BHI-09
ANALYST.....: SB ANALYSIS DATE: 10/16/91 PROJECT NUMBER: 190648
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.17				0.70	33:50	
12378-PeCDD	0.62				1.51	39:15	
123478-HxCDD	1.0				1.26	44:02	
123678-HxCDD	1.1				1.29	44:10	B
123789-HxCDD	2.4				1.19	44:36	
1234678-HpCDD	17.9				1.06	49:02	B
OCDD	62.5				0.85	54:29	B
2378-TCDF	5.9				0.75	33:03	B
12378-PeCDF	3.0				1.55	37:47	
23478-PeCDF	4.9				1.58	38:46	
123478-HxCDF	22.0				1.14	42:51	
123678-HxCDF	7.8				1.15	43:02	
234678-HxCDF	19.6				1.15	43:50	B
123789-HxCDF	1.1				1.06	45:00	
1234678-HpCDF	52.3				0.94	47:29	B
1234789-HpCDF	11.1				0.92	49:43	
OCDF	104				0.91	54:43	B
TOTAL TCDD	2.4	12		2.6	0.81		Q
TOTAL PeCDD	5.4	9		7.2	1.55		Q
TOTAL HxCDD	12.0	7			1.25		
TOTAL HpCDD	34.5	2			1.03		
TOTAL TCDF	27.7	13		30.7	0.74		Q
TOTAL PeCDF	61.1	14			1.58		Q
TOTAL HxCDF	92.1	14		92.3	1.14		
TOTAL HpCDF	110	4			0.95		

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

FILE NAME....: S914597
CONCAL.....: S914596
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-09
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-1AC

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.2	106		33:50	
13C12-PeCDF 234	3.8	94.3	1.51	38:44	
13C12-HxCDF 478	4.5	113	0.52	42:51	
13C12-HxCDD 478	4.3	106	1.20	44:00	
13C12-HpCDF 789	3.4	85.5	0.45	49:42	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.5	114	0.53	44:59	
13C12-HxCDF 234	4.7	117	0.52	43:49	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.1	102	0.78	33:01	
13C12-2378-TCDD	3.2	80.6	0.76	33:49	
13C12-PeCDF 123	3.6	90.4	1.57	37:46	
13C12-PeCDD 123	3.5	87.0	1.46	39:13	
13C12-HxCDF 678	3.3	83.4	0.32	43:31	
13C12-HxCDD 678	4.0	99.9	1.20	44:08	
13C12-HpCDF 678	3.8	96.0	0.45	47:28	
13C12-HpCDD 678	3.0	74.0	1.05	49:01	
13C12-OCDD	5.4	67.1	0.82	54:28	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	33:36	
13C12-HxCDD 789	1.15	44:37	

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

FILE NAME....:	S914598	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	S914596	SAMPLE ID....:	BHI-FB		
ANALYST.....:	NB	ANALYSIS DATE:	10/16/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.02				
12378-PeCDD	ND		0.03				
123478-HxCDD	ND		0.03				
123678-HxCDD	ND		0.02				
123789-HxCDD	ND		0.03				
1234678-HpCDD	0.08				1.12	49:02	B
OCDD	0.39				0.88	54:28	B
2378-TCDF	EMPC			0.02			B
12378-PeCDF	ND		0.02				
23478-PeCDF	ND		0.02				
123478-HxCDF	ND		0.02				
123678-HxCDF	ND		0.02				
234678-HxCDF	0.03				1.38	43:48	B
123789-HxCDF	ND		0.02				
1234678-HpCDF	0.10				1.11	47:29	B
1234789-HpCDF	ND		0.03				
OCDF	0.20				0.93	54:45	B
TOTAL TCDD	ND		0.02				
TOTAL PeCDD	ND		0.03				
TOTAL HxCDD	ND		0.03				
TOTAL HpCDD	0.08	1		0.13	1.12		
TOTAL TCDF	EMPC			0.02			
TOTAL PeCDF	ND		0.02				
TOTAL HxCDF	0.03	1			1.38		
TOTAL HpCDF	0.13	1		0.17	1.11		

* TLI SAMPLE ID:49-130-3,49-132-10,49-178-4

Reviewed By: [signature] 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....: S914598
CONCAL.....: S914596
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHI-FB
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MNI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.2	104		33:48	___
13C12-PeCDF 234	4.1	103	1.57	38:43	___
13C12-HxCDF 478	3.9	97.2	0.52	42:51	___
13C12-HxCDD 478	4.6	115	1.21	44:00	___
13C12-HpCDF 789	4.0	101	0.43	49:42	___

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.0	99.4	0.51	44:59	___
13C12-HxCDF 234	5.3	131	0.51	43:49	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.3	81.7	0.77	32:58	___
13C12-2378-TCDD	3.2	79.3	0.77	33:47	___
13C12-PeCDF 123	3.1	76.3	1.46	37:45	___
13C12-PeCDD 123	3.6	90.1	1.54	39:12	___
13C12-HxCDF 678	3.7	91.6	0.50	43:01	___
13C12-HxCDD 678	4.0	99.1	1.19	44:08	___
13C12-HpCDF 678	3.4	85.4	0.47	47:28	___
13C12-HpCDD 678	3.4	85.2	0.97	49:01	___
13C12-OCDD	6.3	79.0	0.85	54:27	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	33:33	___
13C12-HxCDD 789	1.22	44:37	___

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.

SAMPLE DATA

CONFIRMATION ANALYSES

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: W483101 CLIENT.....: RADIAN TLI SAMPL ID.: n/a
CONCAL.....: W482702 SAMPLE ID....: TLI MM5 BLANK (BHI)
ANALYST.....: JA ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: / /
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: n/a DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: n/a

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
2378-TCDF	EMPC			0.01			
TOTAL TCDD	ND		0.008				
TOTAL TCDF	EMPC			0.02			

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.7	92.7		23:19	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.3	106	0.78	24:52	Q-RS
13C12-2378-TCDD	4.7	116	0.79	23:18	Q-RS

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:36	Q

Reviewed By: [signature] 10/30/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483409 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-178-6
CONCAL.....: W483302 SAMPLE ID....: REAGENT BLANK
ANALYST.....: SB ANALYSIS DATE: 10/18/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: C2/05/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.005				
2378-TCDF	EMPC			0.008			
TOTAL TCDD	ND		0.005				
TOTAL TCDF	EMPC			0.008			

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.7	66.9	0.79	24:48	
13C12-2378-TCDD	2.8	71.2	0.79	23:15	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:33	

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483410 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-178-7
CONCAL.....: W483302 SAMPLE ID....: TRIP BLANK
ANALYST.....: SB ANALYSIS DATE: 10/18/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.005				
2378-TCDF	EMPC			0.01			
TOTAL TCDD	ND		0.005				
TOTAL TCDF	EMPC			0.01			

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.7	92.5		23:16	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.7	67.0	0.77	24:48	
13C12-2378-TCDD	2.6	65.6	0.80	23:15	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:33	Q

Reviewed By: _____ 10/29/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483102 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: W482702 SAMPLE ID....: BHI-01
ANALYST.....: JA ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.36				0.74	23:18	
2378-TCDF	2.0				0.81	24:51	B
TOTAL TCDD	3.5	18			0.76		
TOTAL TCDF	39.9	23		40.2	0.76		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.6	90.4		23:17	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.6	65.5	0.79	24:50	Q
13C12-2378-TCDD	2.7	68.7	0.79	23:17	Q

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:35	Q

* TLI SAMPLE ID: 49-129-4, 49-129-8, 49-131-12

Reviewed By: [signature] 10/29/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: U246508
CONCAL.....: U246403
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHI-03
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.19				0.78	23:01	
2378-TCDF	EMPC			3.3			E,B
TOTAL TCDD	1.9	18			0.76		
TOTAL TCDF	24.8	24		28.2	0.76		E

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	103		23:01	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.5	88.3	0.78	24:30	Q-RS
13C12-2378-TCDD	3.3	82.3	0.77	23:00	Q-RS

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:17	Q

* TLI SAMPLE ID:49-13C-5,8,49-132-6

Reviewed By: TV 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: U246509 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: U246403 SAMPLE ID....: BHI-04
ANALYST.....: VA ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.17				0.75	23:00	
2378-TCDF	EMPC			3.0			E, B
TOTAL TCDD	1.6	16		1.7	0.76		
TOTAL TCDF	20.2	19		23.5	0.74		E

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	4.0	99.5		23:00	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.7	92.8	0.79	24:29	
13C12-2378-TCDD	3.7	92.8	0.78	22:59	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	23:17	

* TLI SAMPLE ID:49-130-11,49-131-1,49-175-2

Reviewed By: [signature] 10/29/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: U246510
CONCAL.....: U246403
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHI-05
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.20				0.76	23:01	
2378-TCDF	EMPC			2.6			E, B
TOTAL TCDD	1.8	15		1.9	0.76		
TOTAL TCDF	20.1	24		22.7	0.76		E

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	100		23:00	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.6	66.0	0.78	24:29	
13C12-2378-TCDD	2.5	62.0	0.77	22:59	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:16	

* TLI SAMPLE ID:49-131-4,9,49-175-5

Reviewed By: TV 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: U246511 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-175-8AC
CONCAL.....: U246403 SAMPLE ID....: BHI-06
ANALYST.....: VA ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.61				0.75	23:00	
2378-TCDF	2.6				0.89	24:29	B
TOTAL TCDD	6.0	18			0.77		
TOTAL TCDF	62.0	28			0.76		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	101		22:59	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.3	107	0.78	24:28	
13C12-2378-TCDD	3.5	87.5	0.78	22:58	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:16	

Reviewed By: TV 10/29/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: U246512
CONCAL.....: U246403
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHI-07
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-176-3AC
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.47				0.80	22:59	
2378-TCDF	EMPC			2.7			E, I3
TOTAL TCDD	4.4	17			0.78		
TOTAL TCDF	38.9	21		41.7	0.76		E

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	99.2		22:59	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.7	91.7	0.79	24:27	
13C12-2378-TCDD	3.1	78.3	0.80	22:57	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:16	

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: U246513
CONCAL.....: U246403
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHI-08
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-2AC
PROJECT NUMBER: 190648
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.35						
2378-TCDF	EMPC			2.0	0.76	22:59	—
TOTAL TCDD	3.2	17		3.2	0.79		E,B
TOTAL TCDF	30.7	24		32.7	0.75		—
							E

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	1.7	41.6		22:59	—

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.7	92.8	0.77	24:27	—
13C12-2378-TCDD	3.1	78.4	0.78	22:58	—

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:16	—

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483206
CONCAL.....: W483202
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHI-09
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-178-1AC
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.29				0.75	23:18	
2378-TCDF	EMPC			42.2			E B, C
TOTAL TCDD	2.1	15		2.2	0.77		Q
TOTAL TCDF	27.3	19		84.8	0.75		E,Q

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	4.0	101		23:18	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.3	82.1	0.77	24:50	
13C12-2378-TCDD	3.4	85.7	0.80	23:16	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:35	

Reviewed By: TV 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483207
CONCAL.....: W483202
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHI-FB
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.005				
2378-TCDF	EMPC			0.02			B
TOTAL TCDD	ND		0.005				
TOTAL TCDF	EMPC			0.02			

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	94.6		23:15	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.6	65.4	0.79	24:48	
13C12-2378-TCDD	2.7	66.5	0.80	23:15	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:33	

* TLI SAMPLE ID:49-130-3,49-132-10,49-178-4

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

FILE NAME....: S914601
CONCAL.....: S914596
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-01
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 190648
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.11				0.73	33:48	
12378-PeCDD	0.35				1.59	39:13	
123478-HxCDD	0.51				1.34	44:02	
123678-HxCDD	0.54				1.27	44:10	
123789-HxCDD	0.78				1.27	44:36	PR
1234678-HpCDD	6.9				1.03	49:03	B
OCDD	10.8				0.84	54:28	B
2378-TCDF	4.6				0.76	33:01	
12378-PeCDF	1.9				1.43	37:46	
23478-PeCDF	3.0				1.58	38:44	
123478-HxCDF	9.3				1.14	42:51	PR
123678-HxCDF	3.5				1.14	43:02	
234678-HxCDF	16.7				1.10	43:51	Q PR
123789-HxCDF	0.40				1.17	45:00	
1234678-HpCDF	22.3				0.95	47:30	
1234789-HpCDF	5.2				0.94	49:44	
OCDF	30.5				0.89	54:43	
TOTAL TCDD	1.2	7		1.5	0.81		
TOTAL PeCDD	2.4	7		3.0	1.57		
TOTAL HxCDD	5.0	7			1.28		
TOTAL HpCDD	14.2	2			1.02		
TOTAL TCDF	20.4	13		20.5	0.76		
TOTAL PeCDF	26.8	13		27.6	1.58		
TOTAL HxCDF	44.6	12		44.9	1.15		Q
TOTAL HpCDF	54.5	4			0.94		

* TLI SAMPLE ID:49-129-5,7,49-131-13

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378λ ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....:	S914601	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	S914596	SAMPLE ID....:	BHO-01		
ANALYST.....:	NB	ANALYSIS DATE:	10/16/9	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.9	96.7		33:48	
13C12-PeCDF 234	4.1	102	1.50	38:44	
13C12-HxCDF 478	4.3	108	0.53	42:52	
13C12-HxCDD 478	4.8	119	1.21	44:01	
13C12-HpCDF 789	4.2	104	0.43	49:43	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.9	98.3	0.51	44:59	
13C12-HxCDF 234	6.1	154	0.51	43:50	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.5	113	0.80	32:58	
13C12-2378-TCDD	3.8	95.3	0.82	33:47	
13C12-23478-PeCDF	3.7	91.6	1.47	37:45	
13C12-PeCDD 123	4.0	99.7	1.54	39:13	
13C12-HxCDF 678	3.1	77.5	0.52	43:01	
13C12-HxCDD 678	4.8	119	1.20	44:09	
13C12-HpCDF 678	3.4	85.2	0.44	47:29	
13C12-HpCDD 678	3.4	85.1	0.99	49:02	
13C12-OCDD	6.1	75.8	0.87	54:27	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:35	
13C12-HxCDD 789	1.19	44:37	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914602
CONCAL.....: S914596
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-02
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MMS
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.05				0.73	33:49	
12378-PeCDD	0.21				1.64	39:15	
123478-HxCDD	0.26				1.26	44:02	P
123678-HxCDD	0.32				1.31	44:10	
123789-HxCDD	0.57				1.24	44:36	PR,C
1234678-HpCDD	3.9				1.04	49:03	B
OCDD	10.5				0.86	54:29	B
2378-TCDF	2.1				0.75	33:02	
12378-PeCDF	0.91				1.47	37:47	
23478-PeCDF	1.7				1.59	38:46	
123478-HxCDF	6.3				1.14	42:51	PR
123678-HxCDF	2.1				1.16	43:02	
234678-HxCDF	6.1				1.15	43:50	P,PR
123789-HxCDF	0.28				1.39	45:00	
1234678-HpCDF	12.9				0.95	47:29	
1234789-HpCDF	3.5				0.93	49:44	
OCDF	25.4				0.88	54:44	
TOTAL TCDD	0.54	7		0.63	0.77		
TOTAL PeCDD	1.4	7		1.8	1.53		P
TOTAL HxCDD	3.4	7			1.23		P
TOTAL HpCDD	1.3	2			1.04		
TOTAL TCDF	7.9	13		8.3	0.77		
TOTAL PeCDF	14.9	13			1.60		
TOTAL HxCDF	22.9	12		23.0	1.17		P
TOTAL HpCDF	31.5	4			0.94		

* TLI SAMPLE ID:49-129-10, 49-132-5, 49-129-12

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....:	S914602	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	S914596	SAMPLE ID....:	BHO-02		
ANALYST.....:	NB	ANALYSIS DATE:	10/16/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.9	97.7		33:49	
13C12-PeCDF 234	4.4	109	1.45	38:44	
13C12-HxCDF 478	4.3	107	0.50	42:52	
13C12-HxCDD 478	3.8	95.8	1.19	44:01	
13C12-HpCDF 789	4.3	108	0.42	49:43	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.0	99.7	0.49	44:59	
13C12-HxCDF 234	5.1	126	0.50	43:50	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.1	102	0.74	32:59	
13C12-2378-TCDD	3.9	96.1	0.82	33:48	
13C12-PeCDF 123	3.7	90.3	1.57	37:46	
13C12-PeCDD 123	4.6	115	1.54	39:13	Q
13C12-HxCDF 678	3.4	84.9	0.52	43:02	
13C12-HxCDD 678	4.4	111	1.17	44:09	Q
13C12-HpCDF 678	3.4	85.6	0.44	47:29	
13C12-HpCDD 678	3.4	86.1	0.99	49:02	
13C12-OCDD	6.5	81.8	0.88	54:28	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.85	33:35	
13C12-HxCDD 789	1.20	44:37	

Reviewed By: _____ 10/30/91

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914603 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: S914596 SAMPLE ID....: BHO-03
ANALYST.....: NB ANALYSIS DATE: 10/16/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	EMPC			0.03			
12378-PeCDD	0.15				1.72	39:15	
123478-HxCDD	0.34				1.07	44:02	
123678-HxCDD	0.41				1.15	44:10	
123789-HxCDD	0.65				1.25	44:36	PR
1234678-HpCDD	7.1				1.00	49:03	B
OCDD	15.0				0.86	54:29	B
2378-TCDF	2.0				0.74	33:02	
12378-PeCDF	0.71				1.68	37:47	
23478-PeCDF	1.5				1.65	38:46	
123478-HxCDF	6.1				1.17	42:51	PR
123678-HxCDF	2.2				1.12	43:03	
234678-HxCDF	9.7				1.15	43:51	C, PR
123789-HxCDF	EMPC			0.23			
1234678-HpCDF	18.6				0.97	47:30	
1234789-HpCDF	4.4				0.92	49:44	
OCDF	32.8				0.85	54:44	
TOTAL TCDD	0.39	4		0.46	0.77		
TOTAL PeCDD	1.00	3		1.7	1.53		
TOTAL HxCDD	3.9	6		4.0	1.24		
TOTAL HpCDD	13.8	2			1.02		
TOTAL TCDF	7.2	13			0.75		
TOTAL PeCDF	13.1	11		13.5	1.60		
TOTAL HxCDF	26.2	11		26.3	1.15		C
TOTAL HpCDF	42.6	4			0.95		

* TLI SAMPLE ID:49-130-4,7,49-132-5

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

FILE NAME....:	S914603	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	S914596	SAMPLE ID....:	BHO-03		
ANALYST.....:	NB	ANALYSIS DATE:	10/16/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.9	97.3		33:48	
13C12-PeCDF 234	4.0	99.1	1.59	38:44	
13C12-HxCDF 478	4.1	102	0.52	42:52	
13C12-HxCDD 478	4.6	115	1.24	44:01	
13C12-HpCDF 789	4.0	99.8	0.41	49:44	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.2	79.1	0.52	44:59	
13C12-HxCDF 234	5.4	135	0.52	43:50	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.6	89.9	0.77	32:59	
13C12-2378-TCDD	3.4	83.6	0.81	33:47	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
13C12-HxCDF 678	2.8	71.1	0.53	43:02	
13C12-HxCDD 678	3.7	92.9	1.19	44:09	
13C12-HpCDF 678	2.5	63.5	0.45	47:29	
13C12-HpCDD 678	2.5	63.5	1.13	49:02	
13C12-OCDD	4.5	56.5	0.87	54:28	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.86	33:35	
13C12-HxCDD 789	1.25	44:37	

Reviewed By: _____ 10/30/91 X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

FILE NAME....: S914604
CONCAL.....: S914596
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-04
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MW5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	EMPC			0.03			—
12378-PeCDD	EMPC			0.08			—
123478-HxCDD	0.19				1.13	44:02	—
123678-HxCDD	EMPC			0.19			—
123789-HxCDD	0.32				1.10	44:34	PR
1234678-HpCDD	1.1				0.91	49:02	B
OCDD	1.2				0.83	54:29	B
2378-TCDF	1.6				0.80	33:02	—
12378-PeCDF	0.46				1.37	37:46	—
23478-PeCDF	1.0				1.48	38:44	—
123478-HxCDF	4.7				1.14	42:50	PR
123678-HxCDF	1.3				1.11	43:02	—
234678-HxCDF	4.2				1.18	43:50	PR,G
123789-HxCDF	0.08				1.25	45:00	—
1234678-HpCDF	5.8				0.93	47:29	—
1234789-HpCDF	EMPC			0.82			—
OCDF	2.9				0.97	54:43	—
TOTAL TCDD	0.26	4		0.49	0.80		—
TOTAL PeCDD	0.46	4		1.2	1.38		—
TOTAL HxCDD	2.0	6		2.4	1.13		—
TOTAL HpCDD	2.3	2			0.99		—
TOTAL TCDF	5.8	12		6.1	0.75		—
TOTAL PeCDF	9.9	10		10.7	1.56		—
TOTAL HxCDF	16.5	12		16.6	1.14		G
TOTAL HpCDF	12.0	3		12.6	0.92		—

* TLI SAMPLE ID:49-130-10,13,49-175-1

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....: S914604
CONCAL.....: S914596
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-04
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	102		33:48	___
13C12-PeCDF 234	3.9	97.8	1.44	38:44	___
13C12-HxCDF 478	4.4	111	0.51	42:52	___
13C12-HxCDD 478	4.5	112	1.17	44:00	___
13C12-HpCDF 789	4.1	102	0.44	49:43	___

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.8	95.7	0.51	44:59	___
13C12-HxCDF 234	5.3	133	0.51	43:49	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.5	87.4	0.77	32:59	___
13C12-2378-TCDD	3.1	76.6	0.75	33:47	___
13C12-PeCDF 123	2.9	72.3	1.52	37:46	___
13C12-PeCDD 123	3.0	76.1	1.43	39:13	___
13C12-HxCDF 678	3.7	93.7	0.50	43:01	___
13C12-HxCDD 678	4.6	116	1.21	44:09	___
13C12-HpCDF 678	3.5	88.4	0.49	47:28	___
13C12-HpCDD 678	3.2	80.0	1.02	49:02	___
13C12-OCDD	4.1	51.8	0.89	54:27	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.76	33:35	___
13C12-HxCDD 789	1.22	44:37	___

Reviewed By: [_____ 10/30/91]

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

FILE NAME....: S914605
CONCAL.....: S914596
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-05
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: NMS
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.03				—
12378-PeCDD	ND		0.08				—
123478-HxCDD	ND		0.1				—
123678-HxCDD	EMPC			0.12			—
123789-HxCDD	0.20				1.38	44:38	PR
1234678-HpCDD	1.2				1.09	49:02	B
OCDD	2.5				0.85	54:27	B
2378-TCDF	0.27				0.78	33:01	—
12378-PeCDF	EMPC			0.10			—
23478-PeCDF	EMPC			0.19			—
123478-HxCDF	0.77				1.17	42:50	PR
123678-HxCDF	0.28				1.16	43:02	—
234678-HxCDF	0.86				1.26	43:50	PR
123789-HxCDF	ND		0.07				—
1234678-HpCDF	1.8				0.88	47:29	—
1234789-HpCDF	0.22				1.02	49:44	—
OCDF	1.2				0.93	54:42	—
TOTAL TCDD	0.33	1			0.79		—
TOTAL PeCDD	0.11	1		0.26	1.41		—
TOTAL HxCDD	0.93	3		1.5	1.02		—
TOTAL HpCDD	2.6	2			1.14		—
TOTAL TCDF	0.92	7		1.1	0.76		—
TOTAL PeCDF	1.2	5		2.1	1.47		—
TOTAL HxCDF	3.0	7		3.2	1.20		—
TOTAL HpCDF	3.4	4			0.99		—

* TLI SAMPLE ID:49-131-3,6,49-175-4

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDL 'PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....: S914605
CONCAL.....: S914596
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-05
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C`-TCDD	4.0	99.8		33:48	
13C12-PeCDF 234	3.9	97.8	1.50	38:44	
13C12-HxCDF 478	4.3	107	0.52	42:51	
13C12-HxCDD 478	5.2	130	1.20	44:00	
13C12-HpCDF 789	4.3	108	0.44	49:43	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	4.2	104	0.50	44:59	
13C12-HxCDF 234	5.3	132	0.51	43:49	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
13C12-PeCDD 123	2.7	67.8	1.54	39:12	
13C12-HxCDF 678	3.8	94.1	0.50	43:01	
13C12-HxCDD 678	3.7	93.4	1.21	44:08	
13C12-HpCDF 678	3.4	84.7	0.47	47:28	
13C12-HpCDD 678	3.3	81.7	1.02	49:01	
13C12-OCDD	5.7	70.7	0.84	54:27	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.83	33:33	
13C12-HxCDD 789	1.14	44:38	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914606
CONCAL.....: S914596
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-06
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-175-7AC
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.02				—
12378-PeCDD	ND		0.06				—
123478-HxCDD	ND		0.07				—
123678-HxCDD	ND		0.04				—
123789-HxCDD	ND		0.05				—
1234678-HpCDD	0.59				0.98	49:03	B
OCDD	2.0				0.78	54:29	B
2378-TCDF	0.10				0.87	33:02	—
12378-PeCDF	ND		0.03				—
23478-PeCDF	0.09				1.73	38:46	—
123478-HxCDF	0.42				1.11	42:53	PR
123678-HxCDF	0.12				1.10	43:02	—
234678-HxCDF	EMPC			0.46			Q, PR
123789-HxCDF	ND		0.05				—
1234678-HpCDF	1.1				0.90	47:29	—
1234789-HpCDF	EMPC			0.24			—
OCDF	2.1				0.94	54:43	—
TOTAL TCDD	0.03	1			0.78		—
TOTAL PeCDD	0.07	1			1.51		—
TOTAL HxCDD	0.20	1		0.30	1.20		—
TOTAL HpCDD	1.1	2			0.94		—
TOTAL TCDF	0.15	3		0.33	0.85		—
TOTAL PeCDF	0.38	4		0.49	1.65		—
TOTAL HxCDF	0.69	4		1.3	1.14		Q
TOTAL HpCDF	2.3	3		2.5	0.94		—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....: S914606
CONCAL.....: S914596
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-06
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-175-7AC

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	103		33:48	
13C12-PeCDF 234	4.0	101	1.58	38:44	
13C12-HxCDF 478	4.8	120	0.50	42:52	
13C12-HxCDD 478	4.4	110	1.18	44:01	
13C12-HpCDF 789	4.1	101	0.44	49:43	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.9	97.2	0.50	44:59	
13C12-HxCDF 234	4.8	121	0.51	43:49	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.6	90.3	0.79	32:59	
13C12-2378-TCDD	3.2	81.0	0.85	33:47	
13C12-PeCDF 123	3.4	79.4	1.52	37:46	
13C12-PeCDD 123	2.9	72.4	1.46	39:13	
13C12-HxCDF 678	2.9	72.9	0.49	43:01	
13C12-HxCDD 678	3.9	96.4	1.18	44:09	
13C12-HpCDF 678	3.1	77.2	0.45	47:28	
13C12-HpCDD 678	3.0	73.8	1.00	49:01	
13C12-OCDD	4.8	60.5	0.94	54:27	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.76	33:35	
13C12-HxCDD 789	1.23	44:37	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS a)

FILE NAME....: S914609
CONCAL.....: S914608
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BH3-07
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-176-2AC
PROJECT NUMBER: 190646
DATE RECEIVED.: 09/18/91
DATE COLLECTED:
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.04				
12378-PeCDD	ND		0.09				
123478-HxCDD	ND		0.09				
123678-HxCDD	ND		0.05				
123789-HxCDD	ND		0.08				
1234678-HpCDD	0.37				0.97	49:06	
OCDD	EMPC			1.2			
2378-TCDF	0.12				0.79	33:04	
12378-PeCDF	ND		0.06				
23478-PeCDF	0.07				1.72	38:48	
123478-HxCDF	0.23				1.34	42:55	
123678-HxCDF	0.09				1.08	43:05	
234678-HxCDF	0.29				1.33	43:53	
123789-HxCDF	ND		0.08				
1234678-HpCDF	0.74				0.97	47:32	
1234789-HpCDF	EMPC			0.15			
OCDF	1.6				0.76	54:47	
TOTAL TCDD	ND		0.04				
TOTAL PeCDD	ND		0.09				
TOTAL HxCDD	EMPC			0.12			
TOTAL HpCDD	0.65	2			0.97		
TOTAL TCDF	0.21	3		0.42	0.79		
TOTAL PeCDF	0.22	3		0.33	1.50		
TOTAL HxCDF	0.67	4		0.75	1.23		
TOTAL HpCDF	1.2	2		1.6	0.93		

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

FILE NAME....:	S914609	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	49-176-BAC
CONCAL.....:	S914608	SAMPLE ID....:	BHO-07		
ANALYST.....:	LH	ANALYSIS DATE:	10/16/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MMS	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	99.3		33:50	
13C12-PeCDF 234	3.9	97.5	1.52	38:47	
13C12-HxCDF 478	4.2	105	0.51	42:55	
13C12-HxCDD 478	3.8	96.1	1.22	44:03	
13C12-HpCDF 789	3.4	84.1	0.41	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.6	89.7	0.48	45:02	
13C12-HxCDF 234	6.3	158	0.51	43:52	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.8	94.1	0.78	33:02	
13C12-2378-TCDD	3.4	86.0	0.77	33:50	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
13C12-HxCDF 678	4.1	102	0.51	43:04	
13C12-HxCDD 678	6.0	149	1.28	44:11	Q
13C12-HpCDF 678	3.5	88.2	0.38	47:31	
13C12-HpCDD 678	3.2	80.1	1.02	49:05	
13C12-OCDD	3.7	46.0	0.92	54:32	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	33:37	
13C12-HxCDD 789	1.27	44:40	

Reviewed By: [signature] 10/30/91 X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914610 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-177-1AC
CONCA.....: S914608 SAMPLE ID....: BHO-08
ANALYST.....: LH ANALYSIS DATE: 10/16/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: NMS DATE RECEIVED.: 09/18/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.02				—
12378-PeCDD	ND		0.03				—
123478-HxCDD	ND		0.03				—
123678-HxCDD	EMPC			0.03			—
123789-HxCDD	ND		0.03				—
1234678-HpCDD	0.35				1.03	49:05	B
OCDD	1.2				0.87	54:31	B
2378-TCDF	0.10				0.69	33:04	—
12378-PeCDF	0.05				1.41	37:49	—
23478-PeCDF	EMPC			0.07			—
123478-HxCDF	0.18				1.13	42:53	BR
123678-HxCDF	0.07				1.07	43:05	—
234678-HxCDF	0.16				1.09	43:53	Q P
123789-HxCDF	ND		0.02				—
1234678-HpCDF	0.50				0.95	47:31	—
1234789-HpCDF	0.13				1.01	49:47	—
OCDF	1.1				0.89	54:47	—
TOTAL TCDD	EMPC			0.03			—
TOTAL PeCDD	EMPC			0.05			—
TOTAL HxCDD	0.11	1		0.01	1.41		—
TOTAL HpCDD	0.32	2			1.05		—
TOTAL TCDF	0.47	9		0.53	0.77		—
TOTAL PeCDF	0.19	2		0.46	1.45		—
TOTAL HxCDF	0.51	5			1.11		C
TOTAL HpCDF	0.90	3		1.1	1.01		—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....: S914610
CONCAL.....: S914608
ANALYST.....: LH
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-08
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-1AC

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	98.8		33:50	
13C12-PeCDF 234	4.4	109	1.48	38:47	
13C12-HxCDF 478	4.4	109	0.52	42:54	
13C12-HxCDD 478	4.5	114	1.20	44:03	
13C12-HpCDF 789	4.4	109	0.44	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.9	97.2	0.52	45:01	
13C12-HxCDF 234	5.6	141	0.51	43:51	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.8	89.9	0.76	33:02	
13C12-2378-TCDD	3.5	86.4	0.81	33:49	
13C12-PeCDF 123	3.5	87.5	1.50	37:49	
13C12-PeCDD 123	4.0	99.6	1.44	39:16	
13C12-HxCDF 678	3.2	80.2	0.52	43:04	
13C12-HxCDD 678	4.2	105	1.25	44:11	
13C12-HpCDF 678	3.2	79.3	0.46	47:30	
13C12-HpCDD 678	3.1	78.7	0.95	49:04	
13C12-OCDD	5.7	70.8	0.95	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:37	
13C12-HxCDD 789	1.17	44:39	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914612 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-177-4AC
CONCAL.....: S914608 SAMPLE ID....: BHO-09
ANALYST.....: LF ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 08/07/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPX23704 CLIENT PROJECT: MWI
GC COLUMN....: DB-5

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				—
12378-PeCDD	ND		0.03				—
123478-HxCDD	ND		0.04				—
123678-HxCDD	ND		0.02				—
123789-HxCDD	ND		0.03				—
1234678-HpCDD	0.31				0.96	49:05	B
OCDD	EMPC			1.5			B
2378-TCDF	0.06				0.78	33:04	—
12378-PeCDF	ND		0.02				—
23478-PeCDF	0.05				1.44	38:48	—
123478-HxCDF	0.16				1.08	42:54	PR
123678-HxCDF	0.04				1.18	43:05	—
234678-HxCDF	0.24				1.18	43:53	P PR
123789-HxCDF	ND		0.03				—
1234678-HpCDF	0.53				1.05	47:32	—
1234789-HpCDF	0.14				0.97	49:47	—
OCDF	1.3				0.85	54:47	—
TOTAL TCDD	ND		0.01				—
TOTAL PeCDD	ND		0.03				—
TOTAL HxCDD	0.11	2			1.24		—
TOTAL HpCDD	0.55	2			0.97		—
TOTAL TCDF	0.16	6		0.21	0.77		—
TOTAL PeCDF	0.05	1		0.15	1.44		—
TOTAL HxCDF	0.44	3		0.50	1.15		P
TOTAL HpCDF	1.2	4			1.02		—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

10/30/91

FILE NAME....:	S914612	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	49-177-4AC
CONCAL.....:	S914608	SAMPLE ID....:	BHO-09		
ANALYST.....:	LH	ANALYSIS DATE:	10/17/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.0	99.6		33:50	
13C12-PeCDF 234	4.4	109	1.57	38:47	
13C12-HxCDF 478	4.5	111	0.52	42:55	
13C12-HxCDD 478	4.3	108	1.19	44:03	
13C12-HpCDF 789	4.5	113	0.44	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.5	88.1	0.51	45:02	
13C12-HxCDF 234	5.6	141	0.51	43:52	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.5	87.0	0.79	33:02	
13C12-2378-TCDD	3.3	83.6	0.79	33:49	
13C12-PeCDF 123	3.9	97.6	1.53	37:49	
13C12-PeCDD 123	3.2	79.1	1.58	39:16	
13C12-HxCDF 678	2.9	71.9	0.53	43:04	
13C12-HxCDD 678	4.3	106	1.24	44:11	
13C12-HpCDF 678	2.8	71.0	0.44	47:31	
13C12-HpCDD 678	2.9	72.5	1.03	49:05	
13C12-OCDD	4.5	56.8	0.86	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	33:37	
13C12-HxCDD 789	1.18	44:40	

Reviewed By: _____ __/__/__

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (2)

10/30/91

FILE NAME.....:	S914613	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	*
CONCAL.....:	S914608	SAMPLE ID....:	BHO-FB		
ANALYST.....:	SB	ANALYSIS DATE:	10/17/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MW5	DATE RECEIVED.:	09/18/91
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	MWI
GC COLUMN....:	DB-5				

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.02				—
12378-PeCDD	ND		0.03				—
123478-HxCDD	ND		0.03				—
123678-HxCDD	EMPC			0.02			—
123789-HxCDD	ND		0.03				—
1234678-HpCDD	0.27				0.89	49:05	B
OCDD	0.90				0.82	54:32	B
2378-TCDF	0.07				0.70	33:04	—
12378-PeCDF	EMPC			0.03			—
23478-PeCDF	EMPC			0.04			—
123478-HxCDF	0.21				1.30	42:54	PE
123678-HxCDF	0.07				1.20	43:05	—
234678-HxCDF	0.21				1.14	43:53	—
123789-HxCDF	ND		0.03				—
1234678-HpCDF	0.64				0.95	47:32	—
1234789-HpCDF	EMPC			0.17			—
OCDF	1.5				0.94	54:47	—
TOTAL TCDD	ND		0.02				—
TOTAL PeCDD	EMPC			1.00			P
TOTAL HxCDD	EMPC			0.09			P
TOTAL HpCDD	0.54	2			0.90		—
TOTAL TCDF	0.17	6		0.24	0.72		—
TOTAL PeCDF	0.26	3		0.48	1.44		—
TOTAL HxCDF	0.54	4		0.75	1.25		—
TOTAL HpCDF	1.1	2		1.5	0.96		—

* TLI SAMPLE ID:49-130-2,49-132-9,49-178-5

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a) QA/QC SUMMARY

FILE NAME....: S914613
CONCAL.....: S914608
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: BHO-FB
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: HM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

SURROGATE RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	4.1	102		33:52	
13C12-PeCDF 234	3.7	92.8	1.58	38:47	
13C12-HxCDF 478	4.0	99.1	0.52	42:55	
13C12-HxCDD 478	2.9	71.3	1.29	44:03	
13C12-HpCDF 789	3.5	86.3	0.43	49:46	

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.7	93.5	0.52	45:02	
13C12-HxCDF 234	4.6	116	0.51	43:52	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.5	86.5	0.77	33:02	
13C12-2378-TCDD	3.2	79.6	0.78	33:50	
13C12-PeCDF [illegible]	3.2	79.3	1.53	37:49	
13C12-PeCDD [illegible]	[illegible]	102	1.33	39:17	
13C12-HxCDF 678	3.7	91.4	0.52	43:05	
13C12-HxCDD 678	5.6	141	1.19	44:12	
13C12-HpCDF 678	3.3	82.3	0.44	47:31	
13C12-HpCDD 678	3.3	83.0	1.05	49:05	
13C12-OCDD	4.9	60.8	0.86	54:31	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	33:37	
13C12-HxCDD 789	1.23	44:40	

Reviewed By: _____ 10/30/91

X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
PCDD/PCDF 2378X ANALYSIS (a)

10/30/91

FILE NAME....: S914600
CONCAL.....: S914596
ANALYST.....: NB
SAMPLE SIZE..: 1.00
ICAL DATE....: 08/07/91
SPIKE FILE...: SPX23704
GC COLUMN....: DB-5

CLIENT.....: RADIAN
SAMPLE ID....: TLI-MM5 BLANK (BHO)
ANALYSIS DATE: 10/16/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: n/a

TLI SAMPLE ID.: n/a
PROJECT NUMBER: 19064B
DATE RECEIVED.: / /
DATE COLLECTED: / /
CLIENT PROJECT: n/a

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				—
12378-PeCDD	ND		0.03				—
123478-HxCDD	ND		0.03				—
123678-HxCDD	ND		0.02				—
123789-HxCDD	ND		0.03				—
1234678-HpCDD	EMPC			0.09			—
OCDD	EMPC			0.37			—
							—
2378-TCDF	ND		0.008				
12378-PeCDF	ND		0.02				—
23478-PeCDF	ND		0.02				—
123478-HxCDF	ND		0.03				—
123678-HxCDF	ND		0.02				—
234678-HxCDF	ND		0.02				—
123789-HxCDF	ND		0.03				—
1234678-HpCDF	ND		0.02				—
1234789-HpCDF	ND		0.03				—
OCDF	ND		0.06				—
							—
TOTAL TCDD	ND		0.01				
TOTAL PeCDD	ND		0.03				—
TOTAL HxCDD	ND		0.02				—
TOTAL HpCDD	EMPC			0.09			—
							—
TOTAL TCDF	ND		0.008				
TOTAL PeCDF	ND		0.02				—
TOTAL HxCDF	ND		0.02				—
TOTAL HpCDF	ND		0.02				—

Reviewed By: TV 10/30/91

X237_RPT 4.00, LARS 4.00.00

FILE NAME....:	S914600	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	n/a
CONCAL.....:	S914596	SAMPLE ID....:	TLI-MM5 BLANK (BHO)		
ANALYST.....:	NB	ANALYSIS DATE:	10/16/91	PROJECT NUMBER:	19064B
SAMPLE SIZE..:	1.00	SAMPLE MATRIX:	MM5	DATE RECEIVED.:	/ /
ICAL DATE....:	08/07/91	SAMPLE ORIGIN:	n/a	DATE COLLECTED:	/ /
SPIKE FILE...:	SPX23704			CLIENT PROJECT:	n/a
GC COLUMN....:	DB-5				

ALTERNATE STANDARDS RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-HxCDF 789	3.5	88.6	0.53	44:59	___
13C12-HxCDF 234	5.6	139	0.50	43:50	Q

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.5	86.6	0.81	32:59	___
13C12-2378-TCDD	3.3	83.2	0.84	33:47	___
13C12-PeCDF 123	2.9	71.3	1.52	37:46	___
13C12-PeCDD 123	3.1	76.6	1.54	39:13	___
13C12-HxCDF 678	2.5	61.3	0.51	43:02	___
13C12-HxCDD 678	3.7	91.8	1.22	44:09	___
13C12-HpCDF 678	3.0	74.0	0.46	47:29	___
13C12-HpCDD 678	3.0	73.8	1.04	49:02	___
13C12-OCDD	5.0	62.9	0.87	54:28	___

[illegible] RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.83	33:35	___
13C12-HxCDD 789	1.21	44:38	___

Reviewed By: TV 10/30/91 X237_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483208 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: W483202 SAMPLE ID....: BHO-01
ANALYST.....: VA ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 190648
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.19				0.78	23:16	___
2378-TCDF	1.0				0.74	24:49	___
TOTAL TCDD	1.8	14		2.0	0.77		___
TOTAL TCDF	27.1	23		27.2	0.76		___

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.7	92.1		23:16	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.9	73.6	0.79	24:48	___
13C12-2378-TCDD	2.9	71.8	0.78	23:15	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:33	___

* TLI SAMPLE ID:49-129-5,7,49-131-13

Reviewed By: [signature] 10/29/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: W483209
CONCAL.....: W483202
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHO-02
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MW5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.09				0.69	23:17	
2378-TCDF	0.42				0.75	24:49	
TOTAL TCDD	0.71	11		0.87	0.76		
TOTAL TCDF	10.2	22		10.2	0.77		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	93.8		23:17	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.2	81.1	0.77	24:49	
13C12-2378-TCDD	3.1	77.1	0.79	23:15	

[illegible] RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:34	

* TLI SAMPLE ID:49-129-10,49-132-5,49-129-12

Reviewed By: [signature] 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (D8-225)

10/29/91

FILE NAME....: W483210
CONCAL.....: W483202
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHO-03
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 190643
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.05				0.73	23:14	___
2378-TCDF	0.31				0.81	24:48	___
TOTAL TCDD	0.50	7		0.72	0.75		___
TOTAL TCDF	8.9	20		8.9	0.76		___

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	95.2		23:15	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.4	84.1	0.77	24:48	___
13C12-2378-TCDD	3.2	78.8	0.79	23:14	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:33	___

* TLI SAMPLE ID:49-130-4,7,49-132-5

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483211 CLIENT.....: RADIAN TLI SAMPLE ID.: *
CONCAL.....: W483202 SAMPLE ID....: BHO-04
ANALYST.....: VA ANALYSIS DATE: 10/17/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	0.06				0.83	23:17	___
2378-TCDF	0.22				0.78	24:48	___
TOTAL TCDD	0.41	8		0.54	0.79		___
TOTAL TCDF	7.5	22		7.6	0.76		___

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.7	93.7		23:15	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.1	76.4	0.79	24:47	___
13C12-2378-TCDD	2.8	69.6	0.80	23:14	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:33	___

* TLI SAMPLE ID:49-130-10,13,49-175-1

Reviewed By: [signature] 10/29/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483212
CONCAL.....: W483202
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHO-05
ANALYSIS DATE: 10/17/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
2378-TCDF	0.08				0.68	24:48	
TOTAL TCDD	0.04	1		0.06	0.78		
TOTAL TCDF	1.3	17		1.3	0.77		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	3.8	95.0		23:15	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.1	78.7	0.75	24:47	
13C12-2378-TCDD	3.1	77.3	0.79	23:14	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:32	

* TLI SAMPLE ID:49-131-3,6,49-175-4

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483213
CONCAL.....: W483202
ANALYST.....: VA
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHO-06
ANALYSIS DATE: 10/18/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-175-7AC
PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.005				
2378-TCDF	0.04				0.86	24:48	
TOTAL TCDD	EMPC			0.03			
TOTAL TCDF	0.40	12		0.46	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	96.2		23:16	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.4	59.2	0.78	24:47	
13C12-2378-TCDD	2.3	58.1	0.79	23:14	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	23:33	

Reviewed By: TV 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483214 CLIENT.....: RADIAN TLI SAMPLE ID.: 49-176-2AC
CONCAL.....: W483202 SAMPLE ID....: BHO-07
ANALYST.....: VA ANALYSIS DATE: 10/18/91 PROJECT NUMBER: 19064B
SAMPLE SIZE..: 1.00 SAMPLE MATRIX: MM5 DATE RECEIVED.: 09/18/91
ICAL DATE....: 02/05/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF04 CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.01				
2378-TCDF	0.04				0.74	24:49	
TOTAL TCDD	0.04	2			0.73		
TOTAL TCDF	0.50	15		0.54	0.77		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	3.8	95.2		23:16	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	2.9	71.3	0.79	24:47	
13C12-2378-TCDD	2.8	68.9	0.81	23:14	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:33	

Reviewed By: [signature] 10/29/91 C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483406
CONCAL.....: W483302
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHO-08
ANALYSIS DATE: 10/18/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-1AC

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
2378-TCDF	0.04				0.81	24:50	
TOTAL TCDD	EMPC			0.02			
TOTAL TCDF	0.60	18		0.61	0.74		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	3.8	95.3		23:17	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.1	78.4	0.77	24:49	
13C12-2378-TCDD	3.1	78.0	0.78	23:15	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:34	

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483407
CONCAL.....: W483302
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHO-09
ANALYSIS DATE: 10/18/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 49-177-4AC
PROJECT NUMBER: 190648
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.008				
2378-TCDF	0.02				0.76	24:49	
TOTAL TCDD	0.02	1			0.80		
TOTAL TCDF	0.24	13		0.27	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	3.8	95.8		23:16	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	3.3	81.6	0.79	24:48	
13C12-2378-TCDD	3.3	82.5	0.79	23:15	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:33	

Reviewed By: TV 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

10/29/91

FILE NAME....: W483408
CONCAL.....: W483302
ANALYST.....: SB
SAMPLE SIZE..: 1.00
ICAL DATE....: 02/05/91
SPIKE FILE...: SPC2NF04

CLIENT.....: RADIAN
SAMPLE ID....: BHO-FB
ANALYSIS DATE: 10/18/91
SAMPLE MATRIX: MM5
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: *

PROJECT NUMBER: 19064B
DATE RECEIVED.: 09/18/91
DATE COLLECTED: / /
CLIENT PROJECT: MWI

NAME	AMT(ng)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	ND		0.005				
2378-TCDF	0.02				0.75	24:50	
TOTAL TCDD	0.02	1			0.87		
TOTAL TCDF	0.24	12		0.31	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE A)

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	3.8	95.6		23:16	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	AMT (ng)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	4.1	101	0.78	24:48	Q-R25
13C12-2378-TCDD	4.4	110	0.79	23:15	Q-R25

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.80	23:33	Q

* TLI SAMPLE ID:49-130-2,49-132-9,49-178-5

Reviewed By: _____ 10/29/91

C2NF_RPT 4.00, LARS 4.00.00

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256004	CLIENT.....: RADIAN	TLI SAMPLE ID.: 50-087-	
CONCAL.....: U256001	SAMPLE ID....: BH-126		
ANALYST.....: GS	ANALYSIS DATE: 10/30/91	PROJECT NUMBER: 19105	
SAMPLE SIZE..: 10.153 g	SAMPLE MATRIX: ASH	DATE RECEIVED.: 10/03/9	
ICAL DATE....: 10/14/91	SAMPLE ORIGIN: BORGESS	DATE COLLECTED: / /	
SPIKE FILE...: SPC2NF2K		CLIENT PROJECT: EPA-MW	

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	1.7				0.65	22:51	
2378-TCDF	6.9				0.79	24:18	
TOTAL TCDD	11.9	7		22.2	0.76		
TOTAL TCDF	206	23		216	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	138	70.2		22:50	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	147	74.8	0.74	24:17	
13C12-2378-TCDD	135	68.5	0.76	22:48	

PEDC/EPA STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:06	

Reviewed By: [signature] 11/7/91

C2NF_RPT 4.00, LARS 4.00.0

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256005 CLIENT.....: RADIAN TLI SAMPLE ID.: 50-087
CONCAL.....: U256001 SAMPLE ID....: BH-201
ANALYST.....: GS ANALYSIS DATE: 10/30/91 PROJECT NUMBER: 19195
SAMPLE SIZE..: 10.116 g SAMPLE MATRIX: ASH DATE RECEIVED.: 10/03/
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF2K CLIENT PROJECT: EPA-MW

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	3.2				0.69	22:50	___
2378-TCDF	12.3				0.72	24:18	___
TOTAL TCDD	21.8	11		25.0	0.76		___
TOTAL TCDF	291	23		292	0.73		___

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	120	60.5		22:50	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	120	60.5	0.76	24:17	___
13C12-2378-TCDD	114	57.8	0.77	22:49	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:06	___

Reviewed By: _____ 11/7/91 C2NF_RPT 4.00, LARS 4.00.

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

11/06/91

FILE NAME....: U256006
CONCAL.....: U256001
ANALYST.....: GS
SAMPLE SIZE..: 10.101 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-281
ANALYSIS DATE: 10/30/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-087-1
PROJECT NUMBER: 19195
DATE RECEIVED.: 10/03/91
DATE COLLECTED: / /
CLIENT PROJECT: EPA-MWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	4.6				0.74	22:51	___
2378-TCDF	19.5				0.77	24:18	___
TOTAL TCDD	27.4	10		36.7	0.80		___
TOTAL TCDF	641	23		646	0.76		___

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	117	59.3		22:50	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	117	58.9	0.76	24:16	___
13C12-2378-TCDD	120	60.5	0.76	22:49	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:06	___

Reviewed By: _____ 11/7/91

C2NF_RPT 4.00, LARS 4.00.06

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256007
CONCAL.....: U256001
ANALYST.....: GS
SAMPLE SIZE..: 10.018 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-289
ANALYSIS DATE: 10/30/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-087-
PROJECT NUMBER: 19195
DATE RECEIVED.: 10/03/
DATE COLLECTED: / /
CLIENT PROJECT: EPA-MW

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	9.6				0.74	22:51	
2378-TCDF	37.5				0.75	24:18	
TOTAL TCDD	86.2	17			0.79		
TOTAL TCDF	1020	29		1020	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	153	76.8		22:50	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	180	89.9	0.74	24:17	
13C12-2378-TCDD	166	83.2	0.79	22:49	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.79	23:07	

Reviewed By: _____ 11/7/91

C2NF_RPT 4.00, LARS 4.30.

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

11/06/91

FILE NAME....: U256008
CONCAL.....: U256001
ANALYST.....: GS
SAMPLE SIZE..: 10.118 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-333
ANALYSIS DATE: 10/30/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-087-1
PROJECT NUMBER: 19195
DATE RECEIVED.: 10/03/91
DATE COLLECTED: / /
CLIENT PROJECT: EPA-MWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	25.6				0.79	22:52	
2378-TCDF	96.7				0.77	24:19	
TOTAL TCDD	241	17			0.79		
TOTAL TCDF	3130	26		3140	0.74		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	154	77.8		22:51	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	153	77.3	0.77	24:18	
13C12-2378-TCDD	158	80.0	0.76	22:49	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:07	

Reviewed By: [signature] 11/7/91

C2NF_RPT 4.00, LARS 4.00.0

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256014
CONCAL.....: U256001
ANALYST.....: VC
SAMPLE SIZE..: 10.026 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-416 10X DILUTION
ANALYSIS DATE: 10/31/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-088-
PROJECT NUMBER: 1995
DATE RECEIVED.: 10/03/
DATE COLLECTED: / /
CLIENT PROJECT: EPA-MW

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	43.7				0.72	22:53	
2378-TCDF	155				0.72	24:19	
TOTAL TCDD	474	16		502	0.77		
TOTAL TCDF	5350	26		5420	0.73		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	170	85.2		22:52	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	185	92.6	0.76	24:19	
13C12-2378-TCDD	177	88.7	0.77	22:50	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.75	23:08	

Reviewed By: [signature] 11/7/91

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

11/06/91

FILE NAME....: U256206 CLIENT.....: RADIAN TLI SAMPLE ID.: 50-088-2
CONCAL.....: U256102 SAMPLE ID....: BH-422 10X DILUTION
ANALYST.....: SB ANALYSIS DATE: 10/31/91 PROJECT NUMBER: 19195
SAMPLE SIZE..: 10.209 g SAMPLE MATRIX: ASH DATE RECEIVED.: 10/03/91
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF2K CLIENT PROJECT: EPA-HWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	39.5				0.76	22:54	
2378-TCDF	123				0.71	24:22	
TOTAL TCDD	342	10		356	0.74		
TOTAL TCDF	4680	22		4770	0.74		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	92.2	47.0		22:53	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	92.6	47.3	0.68	24:20	
13C12-2378-TCDD	103	52.4	0.78	22:52	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.87	23:09	

Reviewed By: [signature] 11/7/91

C2NF_RPT 4.00, LARS 4.00.08

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256207 CLIENT.....: RADIAN TLI SAMPLE ID.: 50-038-
CONCAL.....: U256102 SAMPLE ID....: BH-472 10X DILUTION
ANALYST.....: SB ANALYSIS DATE: 10/31/91 PROJECT NUMBER: 19195
SAMPLE SIZE..: 10.049 g SAMPLE MATRIX: ASH DATE RECEIVED.: 10/03/9
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF2K CLIENT PROJECT: EPA-MWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	36.1				0.76	22:55	
2378-TCDF	99.0				0.74	24:21	
TOTAL TCDD	466	12		486	0.78		
TOTAL TCDF	4300	24		4330	0.72		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	121	60.8		22:53	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	127	63.8	0.74	24:20	
13C12-2378-TCDD	128	64.3	0.72	22:51	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	23:09	

Reviewed By: [signature] 11/3/91 C2NF_RPT 4.00, LARS 4.00.0

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256013 CLIENT.....: RADIAN TLI SAMPLE ID.: 50-087-
CONCAL.....: U256001 SAMPLE ID....: BH-475 10X DILUTION
ANALYST.....: VC ANALYSIS DATE: 10/30/91 PROJECT NUMBER: 19195
SAMPLE SIZE..: 10.153 g SAMPLE MATRIX: ASH DATE RECEIVED.: 10/03/9
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF2K CLIENT PROJECT: EPA-MWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	76.7				0.77	22:53	
2378-TCDF	236				0.75	24:19	
TOTAL TCDD	1250	16		1260	0.76		
TOTAL TCDF	8470	25		8470	0.74		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	178	90.2		22:52	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	202	103	0.73	24:19	
13C12-2378-TCDD	187	94.8	0.74	22:50	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	23:08	

Reviewed By: [signature] 11/7/91 C2NF_RPT 4.00, LARS 4.00.3

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....:	U256012	CLIENT.....:	RADIAN	TLI SAMPLE ID.:	50-08
CONCAL.....:	U256001	SAMPLE ID....:	BH-466 10X DILUTION		
ANALYST.....:	VC	ANALYSIS DATE:	10/30/91	PROJECT NUMBER:	19195
SAMPLE SIZE..:	10.042 g	SAMPLE MATRIX:	ASH	DATE RECEIVED.:	10/03/
ICAL DATE....:	10/14/91	SAMPLE ORIGIN:	BORGESS	DATE COLLECTED:	/ /
SPIKE FILE...:	SPC2NF2K			CLIENT PROJECT:	EPA-H

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	53.0				0.79	22:55	___
2378-TCDF	159				0.75	24:20	___
TOTAL TCDD	724	13		800	0.76		___
TOTAL TCDF	5160	23		5160	0.73		___

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	132	66.3		22:52	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	150	75.2	0.77	24:19	___
13C12-2378-TCDD	130	65.3	0.80	22:50	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.76	23:08	___

Reviewed By: [signature] 11/7/91

C2NF_RPT 4.00, LARS 4.00.

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256003
CONCAL.....: U256001
ANALYST.....: GS
SAMPLE SIZE..: 10.018 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-419
ANALYSIS DATE: 10/30/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-087-
PROJECT NUMBER: 19195
DATE RECEIVED.: 10/03/
DATE COLLECTED: / /
CLIENT PROJECT: EPA-MW

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	68.6				0.78	22:54	
2378-TCDF	181				0.75	24:18	
TOTAL TCDD	1020	17			0.79		
TOTAL TCDF	6420	28		6430	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	144	72.3		22:51	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	153	76.8	0.76	24:18	
13C12-2378-TCDD	148	74.0	0.76	22:49	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.78	23:07	

Reviewed By: _____ 11/7/91

C2NF_RPT 4.00, LARS 4.00.0

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256002
CONCAL.....: U256001
ANALYST.....: JA
SAMPLE SIZE..: 10.104 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-411
ANALYSIS DATE: 10/30/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-08T-
PROJECT NUMBER: 19195
DATE RECEIVED.: 10/03/
DATE COLLECTED: / /
CLIENT PROJECT: EPA-MWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	13.6				0.77	22:53	
2378-TCDF	37.9				0.74	24:18	
TOTAL TCDD	176	17			0.77		
TOTAL TCDF	1340	27		1340	0.74		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	147	74.1		22:50	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	151	76.5	0.75	24:17	
13C12-2378-TCDD	150	75.6	0.76	22:49	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	23:06	

Reviewed By: [signature] 11/7/91

C2NF_RPT 4.00, LARS 4.00.

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U254913 CLIENT.....: RADIAN TLI SAMPLE ID.: 50-087-
CONCAL.....: U254802 SAMPLE ID....: BH-328
ANALYST.....: JA ANALYSIS DATE: 10/28/91 PROJECT NUMBER: 13195
SAMPLE SIZE..: 10.02 g SAMPLE MATRIX: ASH DATE RECEIVED.: 10/03/9
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF2K CLIENT PROJECT: EPA-MWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	16.9				0.82	22:57	___
2378-TCDF	51.0				0.72	24:23	___
TOTAL TCDD	286	17		291	0.78		___
TOTAL TCDF	1800	28		1800	0.74		___

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	159	79.7		22:54	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	186	93.3	0.73	24:22	___
13C12-2378-TCDD	175	87.5	0.77	22:53	___

[illegible] STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.77	23:10	___

Reviewed By: _____ 11/7/91

C2NF_RPT 4.00, LARS 4.00.0

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U254912
CONCAL.....: U254802
ANALYST.....: JA
SAMPLE SIZE..: 10.012 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-285
ANALYSIS DATE: 10/28/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-087
PROJECT NUMBER: 19195
DATE RECEIVED.: 10/03/
DATE COLLECTED: / /
CLIENT PROJECT: EPA-NY

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	45.6				0.77	22:58	
2378-TCDF	167				0.73	24:25	
TOTAL TCDD	707	18			0.77		
TOTAL TCDF	5810	26		5810	0.73		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	188	94.0		22:56	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	189	94.7	0.75	24:23	
13C12-2378-TCDD	204	102	0.76	22:55	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.76	23:13	

Reviewed By: [signature] 11/7/91

C2NF_RPT 4.00, LARS 4.00.

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U256011 CLIENT.....: RADIAN TLI SAMPLE ID.: 60-087-
CONCAL.....: U256001 SAMPLE ID....: BH-278-B 10X DILUTION
ANALYST.....: VC ANALYSIS DATE: 10/30/91 PROJECT NUMBER: 19195
SAMPLE SIZE..: 10.039 g SAMPLE MATRIX: ASH DATE RECEIVED.: 10/03/9
ICAL DATE....: 10/14/91 SAMPLE ORIGIN: BORGESS DATE COLLECTED: / /
SPIKE FILE...: SPC2NF2K CLIENT PROJECT: EPA-MI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	141				0.81	22:54	___
2378-TCDF	408				0.71	24:20	___
TOTAL TCDD	1830	17			0.77		___
TOTAL TCDF	15630	25		15640	0.75		___

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37C1-TCDD	151	75.6		22:52	___

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	173	86.8	0.71	24:19	___
13C12-2378-TCDD	153	76.8	0.79	22:51	___

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.81	23:08	___

Reviewed By: _____ 11/7/91 C2NF_RPT 4.00, LAPS 4.00.0

TRIANGLE LABORATORIES, INC.
CONFIRMATION ANALYSIS (DB-225)

FILE NAME....: U254911
CONCAL.....: U254802
ANALYST.....: JA
SAMPLE SIZE..: 10.038 g
ICAL DATE....: 10/14/91
SPIKE FILE...: SPC2NF2K

CLIENT.....: RADIAN
SAMPLE ID....: BH-198-B
ANALYSIS DATE: 10/28/91
SAMPLE MATRIX: ASH
SAMPLE ORIGIN: BORGESS

TLI SAMPLE ID.: 50-007-
PROJECT NUMBER: 19198
DATE RECEIVED.: 10/03/
DATE COLLECTED: / /
CLIENT PROJECT: EPA-NWI

NAME	CONC(ppt)	NUMBER	DL	EMPC	RATIO	RT	FLAGS
2378-TCDD	56.1				0.77	22:57	
2378-TCDF	144				0.74	24:23	
TOTAL TCDD	1730	19			0.79		
TOTAL TCDF	4930	28		4930	0.75		

SURROGATE STD. RECOVERY SUMMARY (TYPE B)

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
37Cl-TCDD	127	63.5		22:54	

INTERNAL STANDARDS RECOVERY SUMMARY

NAME	CONC (ppt)	% REC.	RATIO	RT	FLAGS
13C12-2378-TCDF	148	74.3	0.75	24:22	
13C12-2378-TCDD	138	69.4	0.73	22:53	

RECOVERY STANDARDS RECOVERY SUMMARY

NAME	RATIO	RT	FLAGS
13C12-1234-TCDD	0.76	23:10	

Reviewed By: [signature] 11/7/91

C2NF_RPT 4.00, LARS 4.00.

Borgess MWI - Particulate Matter - ~~Inlet~~
Total amount in each train - grams

Sample ID #	Run #	Acetone	Filter	Total
BH-94,95	2	0.0085	0.0017	0.0102
BH-170,171	3	0.0026	0.0011	0.0037
BH-212,214	4	0.0035	0.0009	0.0044
BH-249,250	5	0.0041	0.0017	0.0058
BH-298,302	6	0.0044	0.0005	0.0049
BH-342,344	7	0.0039	0.0007	0.0046
BH-380,382	8	0.0086	0.0006	0.0092
BH-431,433	9	0.0023	0.0018	0.0041

Borgess MWI - Method 5 - Inlet
Total amount in each train - grams

Sample ID #	Run #	Water *	Filter	Total
BH-120,119,121	2	0.5540	0.4533	1.0073
BH-196,195	3	0.1984	0.2665	0.4649
BH-237,238	4	0.1094	0.1745	0.2839
BH-275,276	5	0.1531	0.2046	0.3577
BH-325,326	6	0.0888	0.1581	0.2469
BH-369,370	7	0.1020	0.0547	0.1567
BH-407,408	8	0.1216	0.1848	0.3064
BH-458,459	9	0.1215	0.1695	0.2910

* Run 3 - Probe rinse was with acetone, not water.

Borgess MWI - Particulate Matter - Inlet
Total amount in each train - grams

Sample ID #	Run #	Acetone	Filter	Total
BH-99,100	2	0.0247	0.2776	0.3023
BH-175,176	3	0.0249	0.3178	0.3427
BH-217,219	4	0.0338	0.2514	0.2852
BH-254,255	5	0.0295	0.2853	0.3148
BH-303,305	6	0.0215	0.2670	0.2885
BH-347,349	7	0.0140	0.3028	0.3168
BH-385,387	8	0.0198	0.3124	0.3322
BH-436,438	9	0.0294	0.2777	0.3071

Client _____

Plant Borgess

Sample type Acetone

Run # _____

Date 9/27/91

Technician TWOOD

Sheet 1 of 3

Run #	Sample ID#	Sample Vol. (ml)	Blank Corr. (ml)	Tare Weight (g)	Final Weight (g)	Sample Weight (g)	Comments
FB	BH 138	250 mL		104.9516	104.9543		
BHO	Beaker II M2			104.9520	104.9542		
				104.9518	104.9542	0.0024	
BHI	BH 143	175 mL		115.0049	115.0075		
FB	Beaker M3			115.0052	115.0076		
				115.0051	115.0076	0.0025	
BHO	BH 249	270mL		112.5555	112.5598		
05	Beaker P098			112.5556	112.5596		
				112.5556	112.5597	0.0041	
BHI	BH 254	310mL		113.4755	113.5053		
05	Beaker P0 90			113.4756	113.5048		
				113.4756	113.5051	0.0295	
BHO	BH 298	310mL		102.1311	102.1355		
06	Beaker P093	400mL		102.1311	102.1355		
				[illegible]			
				[illegible]			
				[illegible]			
				109.0545	109.0760	0.0215	
BHO	BH 342	290 mL		104.4251	104.4288		
07	Beaker R2 2			104.4250	104.4290		
				[illegible]			
				104.4250	104.4289	0.0039	
BHI	BH 347	250 mL		116.8416	116.8555		
07	Beaker P092			[illegible]	[illegible]		
				116.8414	116.8554	0.0140	

Method 5 Analysis Data Sheet

Run # _____

Client _____ Date 9/27/91

Plant Bergess Technician T WOOD

Sample type Acetone Sheet 2 of 3

Run #	Sample ID#	Sample Vol. (ml)	Blank Corr. (ml)	Tare Weight (g)	Final Weight (g)	Sample Weight (g)	Comments
BHO 08	BH 380	450 mL		103.3168	103.3255		
				103.3169	103.3252		
	Beaker RZ8						
				103.3168	103.3254	0.0086	
BHI 08	BH 385	340 mL		104.2144	104.2340		
				104.2140	104.2340		
	Beaker RZ10						
				104.2142	104.2340	0.0198	
BHO 09	BH 431	350 mL		107.8970	107.8992		
				107.8968	107.8992		
	Beaker PO94				~~107~~		
				107.8969	107.8992	0.0023	
BHI 09	BH436	490 mL		110.8668	110.8980		
				110.8685	110.8980		
	Beaker PO96						
				110.8686	110.8980	0.0294	
Reagent Blank	BH 462	285 mL		105.4805	105.4793		
				105.4803	105.4793		
	Beaker [illegible]						
				[illegible]	[illegible]	[illegible]	
[illegible] BHO Tm	[illegible]	270 mL		[illegible]	[illegible]		
				[illegible]	[illegible]		
	Beaker RZ[illegible]						
				101.2415	101.2500	0.0085	
BHI Run 02 Tm	BH 100	260 mL		104.3800	104.4050		
				104.3803	104.4048		
	Beaker RZ5						
				104.3802	104.4049	0.0247	
BHI Run 03 Tm	BH 176	290 mL		102.4830	102.5077		
				102.4826	102.5077		
	Beaker RZ4						
				102.4828	102.5077	0.0249	

Method 5 Analysis Data Sheet

Run # _____

Client _____ Date 6/27/91

Plant Burgess Technician T WOOD

Sample type Acetone Sheet 3 of 3

Run #	Sample ID#	Sample Vol. (ml)	Blank Corr. (ml)	Tare Weight (g)	Final Weight (g)	Sample Weight (g)	Comments
BH0 LUN 03 Tm	BH 171	270mL		104.1930	104.1957		
	Beaker RZ21			104.1932	104.1957		
				104.1931	104.1957	0.0026	
BH0 LUN 04 Tm	BH 212	250mL		108.5524	108.5560		
	Beaker RZ9			108.5524	108.5559		
				108.5524	108.5559	0.0035	
BH I LUN 03 Pm	BH 196	250mL		104.4654	104.6642		
	Beaker RZ7			104.4660	104.6642		
				104.4657	104.6641	0.1984	
BH I LUN 04 Tm	BH 217	360mL		106.0784	106.1125		
	Beaker RZ11			106.0786	106.1124		
				106.0785	106.1123	0.0338	
	Beaker						
	Beaker						
	Beaker						

Method 5 Analysis Data Sheet

Client _____ Run # _____

Plant Borgess Data 9/27/91

Sample type filters Technician TWOOD

Sheet 1 of 8 11

Run #	Sample ID#	Sample Vol. (ml)	Blank Corr. (ml)	Tare Weight (g)	Final Weight (g)	Sample Weight (g)	Comments
BH0 02	BH 94			0.6376	0.6795		
	Filter #			0.6379	0.6395		
	891-09						
				0.6378	0.6395	0.0017	
BH I 02	BH 99			0.6604	0.9393		
	Filter #			0.6609	0.9386		
	891-11						
				0.6609	0.9385	0.2776	
BH0 FB	BH 137			0.6497	0.6510		
	Filter #			0.6494	0.6505		
	891-57						
				0.6496	0.6508	0.0012	
BH I FB	BH 142			0.6470	0.6487		
	Filter #			0.6469	0.6488		
	891-47						
				0.6470	0.6488	0.0018	
BH0 03	BH 170			0.6390	0.6400		
	Filter #			0.6385	0.6398		
	0[illegible]						
				[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]			[illegible]	[illegible]		
				[illegible]	[illegible]		
03	Filter #						
	891-39			0.6430	0.9608	0.3178	
BH0 04	BH 219			0.6504	0.6513		
	Filter #			0.6507	0.6515		
	891-36						
				0.6505	0.6514	0.0009	
BH= 04	BH 219			0.6400	0.8914		
	Filter # 37			0.6402	0.8916		
	89[illegible]						
				[illegible]	0.8915	0.2514	

11818728

Method 5 Analysis Data Sheet

Client _____ Run # _____

Plant Borgess Date 9/27/91

Sample type Filters Technician TCW BOD

Sheet 2 of 4

Run #	Sample ID#	Sample Vol. (ml)	Blank Corr. (ml)	Tare Weight (g)	Final Weight (g)	Sample Weight (g)	Comments
BH0 05	BH 250 Filter # 891-26			0.6448	0.6465		
				0.6449	0.6465		
				0.6448	0.6465	0.0017	
BHI 05	BH ~~255~~ 255 Filter # 891-01			0.6424	0.9277		
				0.6424	0.9277		
				0.6424	0.9277	0.2853	
BH0 06	BH 302 Filter # TM 15			0.6477	0.6479		
				0.6474	0.6482		
				0.6475	0.6480	0.0005	
BHI 06	BH 305 filter # TM 17			0.6482	0.9148		
				0.6477	0.9152		
				0.6480	0.9150	0.2670	
BH0 07	BH 344			0.6495	0.6442		
				0.6438	0.6446		
				[illegible]	0.6444	[illegible]	
[illegible]	[illegible]			[illegible]	0.9430		
				0.6407	0.9435		
				0.6425	0.9433	0.3008	
BI 02 1of2	BH ~~119~~ 117 filter # 31			0.6506	[illegible]		
				0.6506	0.8720		
					0.8720		
				0.6506	0.8720	0.2214	
BI 02 2of2	BH 121 filter # 891-16			0.6329	0.8645		
				0.6329	0.8650		
				0.6329	0.8648	0.2319	

Method 5 Analysis Data Sheet

Run # _____

Client _____ Date 9/27/91

Plant Borgess Technician I WOOD

Sample type Filters Sheet 3 of 34

Run #	Sample ID#	Sample Vol. (ml)	Blank Corr. (ml)	Tare Weight (g)	Final Weight (g)	Sample Weight (g)	Comments
B1 03	BH 195			0.7662	1.0329		
				0.7667	1.0331		
	Filter D-908						
				0.7665	1.0320	0.2655	
B1 04	BH 238			0.6485	0.8232		
				0.6487	0.8230		
	891-15			0.6486	0.8231	0.1745	
B1 05	BH 276			0.7030	0.9078		
				0.7033	0.9080		
	891-27			0.7032	0.9078	0.2046	
B1 06	BH 326			0.6403	0.7983		
				0.6404	0.7986		
	Tm20			0.6404	0.7985	0.1581	
B1 07	BH 370			0.6408	0.6953		
				0.6405	0.6953		
	Trip Cl			[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]			[illegible]	[illegible]		
	768			0.5862	0.7712		
08							
	Tm038			0.5862	0.7710	0.1848	
~~BH~~ B10	BH 382			0.6232	0.6238		
				0.6234	0.6240		
08	891-03			0.6233	0.6239	0.0006	
BH1 08	BH 287			0.6644	0.9745		
				0.6645	0.9750		
	891-06			0.6644	0.9768	0.3124	

Method 5 Analysis Data Sheet

Run #

Client

Date 9/27/91

Plant Borgess

Technician TWood

Sample type filter

Sheet 4 of 4

Run #	Sample ID#	Sample Vol. (ml)	Blank Corr. (ml)	Tare Weight (g)	Final Weight (g)	Sample Weight (g)	Comments
BI 09	BH459			0.6529	0.8222		
				0.6527	0.8224		
	TM025			0.6528	0.8223	0.1695	
BHI 09	BH438 ~~495~~			0.5758	0.8532		
				0.5756	0.8535		
	Tm 037			0.5757	0.8534	0.2777	
BHO 09	BH433			0.5511	0.5530		
				0.5510	0.5526		
	Tm035			0.5510	0.5528	0.0018	

11815728

Method 5 Analysis Data Sheet

Borgess Front 1/2 Metals

Amount in the back half metals train in total ug

SAM Number	Sample Description	Ag ICAP	Al ICAP	Ba ICAP	Be ICAP	Cd ICAP	Cr ICAP	Cu ICAP	Ni ICAP	Sb ICAP	Tl ICAP	As AAS-GF	Pb AAS-GF	Final Sample
P1-10-003- 01a	BH - 137,138,139	4.72	152	3.79	0.100	0.490	4.90	16.2	84.3	10.2	10.0	0.400	2.62	0.100
P1-10-003- 02a	BH - 94,95,96	4.83	171	3.85	0.100	0.930	4.10	141	12.3	11.8	10.0	0.400	2.18	0.100
P1-10-003- 03a	BH - 170,171,172	1.43	172	4.83	0.100	1.07	5.14	19.6	7.11	11.7	10.0	0.400	1.78	0.100
P1-10-003- 04a	BH - 212,213,214	4.14	179	4.64	0.100	1.73	4.00	8.37	22.2	11.7	10.0	0.400	5.91	0.100
P1-10-003- 05a	BH - 249,249,250	0.80	186	3.77	0.100	1.54	2.89	8.00	5.97	10.2	10.0	0.400	5.04	0.100
P1-10-003- 06a	BH - 298,299,302	0.71	176	4.89	0.100	1.89	4.81	6.44	7.80	10.5	10.0	0.400	2.83	0.100
P1-10-003- 07a	BH - 343,342,344	8.79	159	4.16	0.100	1.00	3.12	4.93	27.4	10.2	10.0	0.400	2.04	0.100
P1-10-003- 08a	BH - 381,380,382	1.73	220	5.50	0.100	28.8	3.39	19.8	17.2	10.5	10.0	0.400	10.7	0.100
P1-10-003- 09a	BH - 432,431,433	5.08	147	3.83	0.100	1.01	7.93	5.48	18.5	9.39	10.0	0.400	8.56	0.100
P1-10-003- 10a-	Method Blank	0.600	5.81	0.130	0.100	0.200	0.800	0.400	0.300	1.50	100.0	0.400	0.471	0.100
P1-10-003- 11a-	Method Spike	116%	110%	99.2%	99.4%	104%	105%	103%	104%	105%	102%	108%	96%	
P1-10-003- 12a-	Method Spike-dup	106%	111%	101%	100%	105%	107%	105%	105%	107%	108%	104%	96%	
P1-10-003- 13a	BH - 144,143,142	1.50	488	15.8	0.250	8.93	47.5	46.5	58.5	30.0	25.0	1.00	27.3	0.250
P1-10-003- 14a	BH - 101,100,99	4.85	1298	153	0.250	715	18.1	1349	23.3	187	25.0	9.13	1722	0.250
P1-10-003- 15a	BH - 177,178,196,175	6.35	2013	263	0.250	880	53.8	2192	92.8	869	25.0	12.8	4090	0.250
P1-10-003- 16a	BH - 218,219,217	5.93	1327	108	0.250	710	23.7	1353	38.8	548	25.0	9.65	2150	0.250
P1-10-003- 17a	BH - 253,254,255	23.4	1337	208	0.250	801	43.3	2156	111	1045	25.0	11.0	4520	0.250
P1-10-003- 18a	BH - 304,303,305	15.8	687	258	0.250	8420	61.0	1404	184	640	25.0	11.2	2950	0.250
P1-10-003- 19a	BH - 348,347,370	15.1	940	72.5	0.250	417	44.5	328	49.5	93.0	25.0	2.18	795	0.250
P1-10-003- 20a	BH - 388,385,349	34.0	1334	349	0.250	2014	27.5	1831	81.3	528	25.0	8.50	3908	0.250
P1-10-003- 21a	BH - 437,436,438	18.7	939	183	0.250	1375	23.6	2069	48.3	251	25.0	10.8	3529	0.250
P1-10-003- 22a-	Method Blank	14.7	71.3	0.300	0.250	0.500	1.50	1.00	0.875	3.75	25.0	1.00	1.89	0.250
P1-10-003- 23a-	Method Spike	86.2%	106%	95.0%	95.8%	101%	102%	99.6%	100%	101%	97.7%	107%	98.2%	
P1-10-003- 24a-	Method Spike-dup	104%	106%	94.2%	95.6%	101%	103%	99.3%	101%	102%	106%	105%	90.2%	
P1-10-003- 25a-L	LCS	106%	101%	97.0%	101%	106%	105%	101%	103%	109%	104%	98.4%	108%	

* less than 5 times the detection limit

CALCULATIONS

Sample Result (ug/L) X Final Volume (L) = Total ug

Table 2

Burgess Back 1/2 Metals

Amount in the back half metals train in total ug.

SAM Number		Sample Description	Ag ICAP	Al ICAP	Ba ICAP	Be ICAP	Cd ICAP	Cr ICAP	Cu ICAP	Ni ICAP	Sb ICAP	Tl ICAP	As AAS GF	Pb AAS GF	Final Sample Volume (L)	Initial Volume (L)	Digested Volume (L)
P1-10-003-	25a	BH - 136	0.800	23.1	0.503	0.114	0.253	6.60	79.8	8.48	1.71	11.4	0.457	1.04	0.100	0.4000	0.3540
P1-10-003-	26a	BH - 93	3.27	17.5	0.373	0.113	0.226	4.64	22.7	4.40	3.58	11.3	0.452	0.708	0.100	0.4340	0.3840
P1-10-003-	27a	BH - 169	0.663	30.9	0.511	0.109	0.820	24.7	34.9	25.5	2.45	10.9	0.464	1.16	0.100	0.6170	0.5460
P1-10-003-	28a	BH - 215	0.649	22.2	0.379	0.108	0.422	15.6	26.9	16.1	1.62	10.8	1.06	0.816	0.100	0.6564	0.5808
P1-10-003-	29a	BH - 252	0.665	18.5	0.294	0.109	0.633	7.21	10.0	5.88	1.64	10.9	0.436	1.17	0.100	0.5660	0.5010
P1-10-003-	30a	BH - 301	4.87	208	2.62	0.107	0.522	58.3	22.6	56.3	98.9	10.7	0.638	0.464	0.100	0.8075	0.7150
P1-10-003-	31a	BH - 345	0.648	18.0	0.351	0.110	0.219	6.13	8.36	1.93	1.64	11.0	0.438	0.329	0.100	0.5700	0.5045
P1-10-003-	32a	BH - 383	0.644	20.5	0.378	0.107	0.215	8.47	12.7	3.00	1.61	10.7	0.430	0.741	0.100	0.7150	0.6330
P1-10-003-	33a	BH - 434	0.783	27.2	2.39	0.533	1.11	3.62	4.13	2.51	1.63	10.9	0.436	0.334	0.100	0.4520	0.4000
P1-10-003-	34a-B	Method Blank	4.75	8.64	0.109	0.109	0.218	0.654	0.436	0.327	1.64	10.9	0.436	0.327	0.100	0.6039	0.5345
P1-10-003-	35a-S	Matrix Spike - 25a	92.7%	107%	93.7%	97.2%	102%	103%	96.8%	102%	103%	102%	103%	97.0%			
P1-10-003-	36a-S	Matrix Spike-Dup - 25a	96.7%	109%	94.4%	98.0%	103%	103%	97.0%	102%	103%	99%	93.8%	101%			
P1-10-003-	37a	BH - 141	0.742	22.0	1.03	0.124	0.247	4.21	9.65	3.49	1.85	12.4	0.655	0.536	0.100	0.2920	0.2120
P1-10-003-	38a	BH - 98	3.77	98.8	8.78	0.108	0.965	31.4	33.8	30.8	58.8	10.8	0.511	2.56	0.100	0.6600	0.6030
P1-10-003-	39a	BH - 174	30.9	79.0	4.79	1.15	2.44	32.9	97.7	4.51	55.0	10.7	0.891	0.801	0.100	0.9000	0.7500
P1-10-003-	40a	BH - 220	0.638	83.4	0.819	0.106	0.213	15.6	31.3	51.8	24.8	10.6	1.56	0.734	0.100	0.5400	0.4700
P1-10-003-	41a	BH - 257	0.641	1.75	9.90	0.107	2.34	17.1	35.5	23.6	63.9	10.7	0.601	0.801	0.100	0.7500	0.6430
P1-10-003-	42a	BH - 306	8.22	31.8	0.486	0.108	0.435	15.3	12.3	10.3	1.62	10.8	1.44	0.884	0.100	0.6720	0.5670
P1-10-003-	43a	BH - 350	1.43	92.9	1.21	0.107	0.364	46.8	3.38	11.0	48.7	10.7	0.701	0.878	0.100	0.7300	0.6307
P1-10-003-	44a	SH - 368	0.640	1.06	1.17	0.107	5.91	64.2	20.8	18.5	52.3	10.7	0.454	8.06	0.100	0.9600	0.8320
P1-10-003-	45a	BH - 436	0.640	1.23	7.27	0.107	0.213	18.7	4.44	8.39	1.46	10.7	0.649	0.464	0.100	0.6000	0.5130
P1-10-003-	46a-B	Method Blank	0.646	9.18	0.118	0.108	0.215	0.646	0.431	0.323	1.61	10.8	0.431	0.323	0.100	0.7049	0.6049
P1-10-003-	47a-S	Matrix Spike - 37a	94.7%	112%	98.5%	100%	105%	106%	98.8%	104%	106%	103%	93.8%	103%			
P1-10-003-	48a-S	Matrix Spike-Dup - 37a	96.3%	112%	96.5%	99.4%	104%	104%	97.6%	103%	104%	107%	104%	98.2%			
P1-10-003-	49a-L	LCS	106%	101%	98.9%	101%	106%	103%	101%	103%	109%	104%	94.8%	103%			

* less than 5 times the detection limit

CALCULATIONS

Sam Sample Results (ug/L) X Final Volume (L) X Initial Volume (L) Digested Volume = Sample Results in Total ug.

BORGESS MWI - Ash

Samples are in total ug/g.

SAM Number	Sample Description	As AAS GF	Al ICAP	Ba ICAP	Be ICAP	Cd ICAP	Cr ICAP	Cu ICAP	Ni ICAP	Pb ICAP	Sb ICAP	Tl ICAP	Hg AAS CV
P1-10-009- 01a	BH - 198	60.0	56520	2352	0.400	6.00	58.8	3998	37.4	105	3.00	20.0	1.96
P1-10-009- 02a	BH - 278	51.8	55680	2512	0.400	5.68	44.0	3204	191	246	3.00	20.0	11.2
P1-10-009- 03a	BH - 286	60.0	59080	1463	0.400	5.58	34.2	462	18.8	87.6	3.00	20.0	1.96
P1-10-009- 04a	BH - 330	20.6	23920	3578	0.200	1.32	19.5	537	9.32	116	3.00	20.0	1.96
P1-10-009- 05a	BH - 409	19.5	23200	1638	0.200	43.0	18.6	232000	13.6	72.8	26.2	20.0	1.96
P1-10-009- 06a	BH - 417	56.4	57520	5148	0.340	12.7	46.8	2856	32.0	224	3.00	20.0	1.96
P1-10-009- 07a	BH - 468	46.0	48760	3864	0.300	5.20	52.0	2034	37.6	152	4.16	20.0	1.96
P1-10-009- 08a	BH - 474	65.6	63360	2494	0.300	16.9	44.0	1529	37.0	290	3.00	20.0	1.96
P1-10-009- 09a	BH - 125	1.30	682	12.0	0.200	22.2	13.6	178	4.16	85.2	22.6	20.0	7.80
P1-10-009- 10a	BH - 202	1.16	692	12.6	0.200	27.4	13.2	196	3.26	151	41.2	20.0	6.32
P1-10-009- 11a	BH - 282	0.976	583	8.4	0.200	40.0	13.1	135	3.06	80.0	25.8	20.0	4.64
P1-10-009- 12a	BH - 290	1.16	654	12.5	0.200	23.4	13.1	169	4.14	146	46.4	20.0	476
P1-10-009- 13a	BH - 334	0.976	591	16.0	0.200	829	13.0	132	3.88	98.4	31.0	20.0	354
P1-10-009- 14a	BH - 414	1.44	835	18.7	0.200	144	13.1	154	4.26	117	18.8	20.0	385
P1-10-009- 15a	BH - 424	1.71	760	16.5	0.260	84.0	13.4	143	5.18	142	51.8	20.0	336
P1-10-009- 16a	BH - 471	1.62	742	12.3	0.200	65.4	17.7	147	7.04	112	23.4	20.0	594
P1-10-009- 17a-S	Matrix Spike - 09a	97.9%	85.4%	87.4%	83.1%	83.0%	85.3%	81.6%	82.2%	85.6%	87.9%	85.9%	100%
P1-10-009- 18a-S	Matrix Spike Dup - 09a	97.9%	109%	90.2%	85.7%	85.2%	87.4%	86.2%	84.4%	88.6%	91.2%	86.1%	105%
P1-10-009- 19a-B	Method Blank	5.00	7.40	0.420	0.200	0.400	1.20	0.800	0.660	5.20	3.58	20.0	1.96
P1-10-009- 20a-L	LCS	105%	98.2%	94.5%	98.3%	100%	98.5%	102%	100%	101%	100%	95.0%	98.3%

* less than five times the detection limit.

Table 2

Bo[illegible]gess - Blanks

Amount in the back half metals train in total ug

Sample Description	Ag ICAP	Al ICAP	Ba ICAP	Be ICAP	Cd ICAP	Cr ICAP	Cu ICAP	Ni ICAP	Sb ICAP	Tl ICAP	As AAS-GF	Pb AAS-GF	Hg AAS CV	Final Sample
BH - 10 LPB Filter	0.600	143	2.91	0.100	0.360	1.43	3.31	0.300	10.4	10.0	0.400	2.60	0.196	0.100
BH - 11 LPB Acetone	2.57	17.8	0.270	0.100	0.270	1.19	0.760	8.14	1.50	10.0	0.400	2.60	0.196	0.100
BH - 17 LPB Acetone	0.600	21.3	0.100	0.100	0.200	1.02	0.400	2.62	1.50	10.0	0.400	2.60	0.196	0.100
BH - 18 LPB Filter	0.600	143	2.84	0.100	0.370	1.21	1.01	0.300	10.0	10.0	0.400	2.89	0.196	0.100
BH - 08 LPB Back 1/2	1.72	17.2	1.07	0.100	0.200	0.800	7.14	1.04	1.50	10.0	0.400	0.536	0.196	0.100
BH - 12 LPB HNO3 PR	0.600	6.90	0.180	0.100	0.200	0.600	0.400	0.340	1.82	10.0	0.400	0.300	0.196	0.100
BH - 14 LPB Back 1/2	0.600	13.8	0.660	0.100	0.200	0.600	0.55	0.710	1.50	10.0	0.400	0.510	0.196	0.100
BH - 16 LPB HNO3 PR	0.600	10.3	0.100	0.100	0.200	0.500	0.400	1.56	1.50	10.0	0.400	0.811	0.196	0.100
BH - 25 RB HNO3	0.600	12.5	0.190	0.100	0.200	0.790	3.98	0.600	1.50	10.0	0.400	0.300	0.196	0.100
BH - 161 RB Back 1/2	0.600	11.0	0.230	0.100	0.200	0.670	3.77	0.620	1.50	10.0	0.400	0.300	0.196	0.100
BH - 239 RB HNO3	0.600	5.79	0.100	0.100	0.200	0.600	0.400	0.300	1.50	10.0	0.400	0.661	0.196	0.100
BH - 241 RB Back 1/2	0.600	12.1	2.31	0.100	0.200	0.660	0.400	0.790	1.50	10.0	0.400	0.300	0.196	0.100
BH - 372 RB HNO3	0.830	5.38	0.100	0.100	0.200	0.600	0.400	0.300	1.50	10.0	0.400	0.300	0.196	0.100
BH - 373 RB Back 1/2	0.600	7.11	0.100	0.100	0.200	0.600	0.400	0.300	1.50	10.0	0.400	0.300	0.196	0.100
BH - 464 RB Back 1/2	0.600	9.57	0.100	0.100	0.200	0.600	0.400	0.300	1.50	10.0	0.400	0.300	0.196	0.100
LCS	97.0%	95.2%	94.0%	95.0%	98.5%	98.5%	94.5%	96.0%	98.0%	90.0%	106%	102%	110%	

* less than 5 times the detection limit

Calculations: Sample results (ug/L) X Final Volume = Total ug

...RESS MWI

...mples are in total ug/g

SAM Number	Sample Description	As AAS GF	Ag ICAP	Al ICAP	Ba ICAP	Be ICAP	Cd ICAP	Cr ICAP	Cu ICAP	Ni ICAP	Pb ICAP	Sb ICAP	Tl ICAP	Final Volume(L)	Initial Weight(g)
	Carbon	9.32	9.04	[illegible]	131	1.78	1.88	29.6	358	54.8	19.6	3.00	20.0	0.100	0.50
	LCS	102%	100%	[illegible]	92.7%	106%	106%	103%	99.4%	104%	103%	102%	95.6%		

...ess than five times the detection limit

...CULATIONS

Sample result(ug/L) X Final Volume(L) / Initial Weight (g)] = Sample result ...g/g)

Table 2.
Borgess Front 1/2 Hg
Amount in the ~~back~~ front half Hg train in total ug.

SAM Number		Sample Description	Hg AAS CV	Final Sample Volume (L)
P1-10-003-	01a	BH - 137,138,139	0.980	0.100
P1-10-003-	02a	BH - 94,95,96	0.980	0.100
P1-10-003-	03a	BH - 170,171,172	0.980	0.100
P1-10-003-	04a	BH - 212,213,214	0.980	0.100
P1-10-003-	05a	BH - 248,249,250	0.980	0.100
P1-10-003-	06a	BH - 298,299,302	0.980	0.100
P1-10-003-	07a	BH - 343,342,344	0.980	0.100
P1-10-003-	08a	BH - 381,380,382	0.980	0.100
P1-10-003-	09a	BH - 432,431,433	0.980	0.100
P1-10-003-	10a-B	Method Blank	0.980	0.100
P1-10-003-	11a-S	Matrix Spike	97.8%	
P1-10-003-	12a-S	Matrix Spike-Dup	103%	
P1-10-003-	13a	BH - 144,143,142	2.45	0.250
P1-10-003-	14a	BH - 101,100,99	7.38	0.250
P1-10-003-	15a	BH - 177,176,196,175	2.45	0.250
P1-10-003-	16a	BH - 218,219,217	2.45	0.250
P1-10-003-	17a	BH - 253,254,255	3.25	0.250
P1-10-003-	18a	BH - 304,303,305	12.0	0.250
P1-10-003-	19a	BH - 348,347,370	4.38	0.250
P1-10-003-	20a	BH - 386,385,349	7.38	0.250
P1-10-003-	21a	BH - 437,436,438	22.0	0.250
P1-10-003-	22a-B	Method Blank	2.45	0.250
P1-10-003-	23a-S	Matrix Spike	94.0%	
P1-10-003-	24a-S	Matrix Spike-Dup	94.3%	
P1-10-003-	25a-L	LCS	99.5%	
P1-10-003-	26a-L	LCS	99.9%	

* less than 5 times the detection limit.

CALCULATIONS

Mercury:

Sample Result (ug/L) X Total Impinger Volume (L) = Total ug Hg

Table 2.

Borgess Back 1/2 Hg

Amount in the back half Hg train in total ug.

SAM Number		Sample Description	Hg AAS CV	Initial Volume (L)
P1-10-003-	25a	BH - 136	18.5	0.4000
P1-10-003-	26a	BH - 93	9971	0.4320
P1-10-003-	27a	BH - 169	8343	0.6171
P1-10-003-	28a	BH - 215	3462	0.6594
P1-10-003-	29a	BH - 252	786	0.5990
P1-10-003-	30a	BH - 301	15436	0.8073
P1-10-003-	31a	BH - 345	788	0.5720
P1-10-003-	32a	BH - 383	107	0.7253
P1-10-003-	33a	BH - 434	358	0.6230
P1-10-003-	34a-B	Method Blank	5.92	0.6039
P1-10-003-	35a-S	Matrix Spike	97.6%	
P1-10-003-	36a-S	Matrix Spike-Dup	96.8%	
P1-10-003-	37a	BH - 141	20	0.2620
P1-10-003-	38a	BH - 98	17186	0.6500
P1-10-003-	39a	BH - 174	13696	0.8000
P1-10-003-	40a	BH - 220	5964	0.8400
P1-10-003-	41a	BH - 257	10997	0.7900
P1-10-003-	42a	BH - 306	1010	0.6700
P1-10-003-	43a	BH - 350	14688	0.7300
P1-10-003-	44a	BH - 388	11404	0.8020
P1-10-003-	45a	BH - 439	26400	0.8000
P1-10-003-	46a-B	Method Blank	6.91	0.7049
P1-10-003-	47a-S	Matrix Spike	88.8%	
P1-10-003-	48a-S	Matrix Spike-Dup	90.2%	
P1-10-003-	49a-L	LCS	97.6%	
P1-10-003-	50a-L	LCS	100%	

* less than 5 times the detection limit.

CALCULATIONS:

Mercury:

Sample Result ug/L X Total Impinger Volume (L) = Total ug Hg

Table 2.

Borgess - KMNO4 - Hg

Amount in the back half Hg train in total ug.

SAM Number	Sample Description	Hg AAS CV	Initial Volume (L)
P1-10-004- 01a	BH - 135	0.529	0.2700
P1-10-004- 02a	BH - 92	51.3	0.2900
P1-10-004- 03a	BH - 168	45.8	0.5292
P1-10-004- 04a	BH - 216	9.43	0.4670
P1-10-004- 05a	BH - 251	13.1	0.4523
P1-10-004- 06a	BH - 300	4.68	0.4180
P1-10-004- 07a	BH - 346	6.82	0.3968
P1-10-004- 08a	BH - 384	0.686	0.3500
P1-10-004- 09a	BH - 435	0.796	0.4063
P1-10-004- 10a	BH - 132	30.6	0.3300
P1-10-004- 11a	BH - 97	78.9	0.3400
P1-10-004- 12a	BH - 173	16.6	0.4085
P1-10-004- 13a	BH - 221	46.2	0.5044
P1-10-004- 14a	BH - 256	19.6	0.3802
P1-10-004- 15a	BH - 307	43.8	0.5508
P1-10-004- 16a	BH - 351	10.7	0.3731
P1-10-004- 17a	BH - 389	29.3	0.4037
P1-10-004- 18a	BH - 440	44.8	0.4267
P1-10-003- 19a-S	Matrix Spike	99.6%	
P1-10-003- 20a-S	Matrix Spike-Duo	97.6%	
P1-10-003- 21a-B	Method Blank	0.753	0.384
P1-10-003- 22a-L	LCS	96.4%	
P1-10-003- 23a-L	LCS	98.9%	

* less than 5 times the detection limit.

CALCULATIONS:

Mercury:

Sample Result (ug/L) X Total Impinger Volume (L) = Total ug Hg

BORGESS MWI - 101A Hg

Samples are in total ug.

SAM Number	Sample Description	Hg [illegible]	Hg 2nd Analysis	Final Volume	Sample Volume (L)
P1-10-005- 01a	BH - 88,86,87	7310	9202	0.810	0.001
P1-10-005- 02a	BH - 164,162,163	6410	7280	0.910	0.001
P1-10-005- 03a	BH - 223,224,222	2510	3031	1.038	0.001
P1-10-005- 04a	BH - 244,242,243	464		1.010	0.001
P1-10-005- 05a	BH - 294,292,293	863		0.970	0.001
P1-10-005- 06a	BH - 337,336,338	364		0.990	0.001
P1-10-005- 07a	BH - 375,374,376	780		0.970	0.005
P1-10-005- 08a	BH - 426,425,427	257		1.120	0.003
P1-10-005- 09a	BH - 131,129,130	12.5		0.525	0.020
P1-10-005- 10a	BH - 91,89,90	13960	17691	1.084	0.0005
P1-10-005- 11a	BH - 167,165,166	5610	12499	1.12	0.001
P1-10-005- 12a	BH - 226,227,225	5760	5424	1.13	0.001
P1-10-005- 13a	BH - 247,245,246	9560	9387	1.05	0.001
P1-10-005- 14a	BH - 297,295,296	14400		1.24	0.001
P1-10-005- 15a	BH - 340,339,341	15200		1.27	0.001
P1-10-005- 16a	BH - 378,377,379	12200		1.206	0.001
P1-10-005- 17a	BH - 429,428,430	25960		1.246	0.002
P1-10-005- 18a	BH - 134,140,133	3.08		0.425	0.020
P1-10-005- 19a-	Method Spike - 06a	101%			
P1-10-005- 20a-	Method Spike dup - 06a	92.2%			
P1-10-005- 23a-	Method Blank	0.299		1.01	0.003
P1-10-005- 24a-	Method Blank	2.17		1.01	0.003
P1-10-005- 25a-L	LCS	97.8%			
P1-10-005- 26a-L	LCS	92.7%			

*Less than five times the detection limits.

CALCULATION: Sample results(ng) x Final Volume(L) x 0.001 / Sample Volume used(L) = Total ug.

BORGESS MWI - 101A Hg - Filter

Samples are in total ug.

SAM Number	Sample Description	Hg AAS-CV	Final Volume	Sample Volume (L)
P1-10-005- 08a	BH - 426,425,427	104	0.250	0.001
P1-10-005- 17a	BH - 429,428,430	68.3	0.250	0.001
P1-10-005- 19a-S	Method Spike - 17a	100%		
P1-10-005- 20a-S	Method Spike dup - 17a	101%		
P1-10-005- 23a-B	Method Blank	3.250	0.250	0.001
P1-10-005- 25a-L	LCS	102%		
P1-10-005- 26a-L	LCS	109%		

*Less than five times the detection limits.

CALCULATION: Sample results(ng) x Final Volume(L) x 0.001 / Sample Volume used(L) = Total ug.

BORGESS MWI - HCl Trains

Samples are in total mg in the trains.

SAM Number	Sample Description	F IC	Cl IC	Br IC	Sample Volume (L)
P1-10-006- 01a	BH - 111	0.0208	13.7	0.383	0.0520
P1-10-006- 02a	BH - 112	0.0232	6.84	0.0417	0.0580
P1-10-006- 03a	BH - 113	0.0232	0.957	0.0197	0.0580
P1-10-006- 04a	BH - 114	0.299	201	0.00610	0.0480
P1-10-006- 05a	BH - 115	0.370	93.2	0.335	0.0420
P1-10-006- 06a	BH - 116	1.02	142	0.290	0.0480
P1-10-006- 07a	BH - 187	0.0200	13.0	0.0591	0.0501
P1-10-006- 08a	BH - 188	0.0228	0.975	0.00724	0.0570
P1-10-006- 09a	BH - 189	0.0224	4.49	0.0250	0.0559
P1-10-006- 10a	BH - 191	0.481	104	0.00550	0.0433
P1-10-006- 11a	BH - 192	2.24	205	0.368	0.0484
P1-10-006- 12a	BH - 193	1.41	194	0.345	0.0457
P1-10-006- 13a	BH - 154	0.0120	0.00342	0.00381	0.0300
P1-10-006- 14a	BH - 156	0.0142	0.00405	0.00451	0.0355
P1-10-006- 15a	BH - 204	0.0218	0.276	0.00662	0.0521
P1-10-006- 16a	BH - 205	0.0232	0.429	0.00737	0.0580
P1-10-006- 17a	BH - 206	0.0210	0.893	0.00667	0.0525
P1-10-006- 18a	BH - 208	0.2769	35.8	0.402	0.0457
P1-10-006- 19a	BH - 209	0.5645	101	0.269	0.0640
P1-10-006- 20a	BH - 210	0.4348	173	0.300	0.0482
P1-10-006-	Matrix Spike on -15a	91.2%	118%	119%	
P1-10-006-	Matrix Spike Dup on -15a	91.7%	118%	119%	
P1-10-006-	Method Blank	0.180	0.595	0.444	0.0496
P1-10-006-	Method Blank	0.000	0.000	0.000	0.0495
P1-10-006-	LCS	102%	94.6%	91.5%	
P1-10-006-	LCS	100%	97.0%	95.1%	
P1-10-006-	LCS	104%	95.6%	93.3%	
P1-10-006-	LCS	104%	97.0%	91.4%	

* less than five times the detection limit.

CALCULATION: Sample Value (mg/L) X Sample Volume (L) = Sample Result in total mg.

BORGESS MWI - HCl Trains

Samples are in total mg in the trains.

SAM Number	Sample Description	F IC	Cl IC	Br IC	Sample Volume (L)
P1-10-006- 21a	BH - 267	0.0183	0.840	0.0247	0.0469
P1-10-006- 22a	BH - 268	0.0945	8.29	0.0335	0.0580
P1-10-006- 23a	BH - 269	0.0883	2.84	0.0259	0.0472
P1-10-006- 24a	BH - 271	0.891	109	0.547	0.0441
P1-10-006- 25a	BH - 272	1.11	236	0.631	0.0410
P1-10-006- 26a	BH - 273	0.432	281	0.206	0.0488
P1-10-006- 27a	BH - 317	0.0206	0.097	0.00629	0.0495
P1-10-006- 28a	BH - 318	0.0287	0.524	0.00911	0.0717
P1-10-006- 29a	BH - 319	0.0199	0.737	0.00632	0.0498
P1-10-006- 30a	BH - 320	0.0106	0.201	0.00335	0.0264
P1-10-006- 31a	BH - 321	0.818	127	0.729	0.0442
P1-10-006- 32a	BH - 322	1.07	167	0.525	0.0473
P1-10-006- 33a	BH - 323	0.930	154	0.265	0.0477
P1-10-006- 34a	BH - 324	0.0100	14.5	0.00319	0.0251
P1-10-006- 35a	BH - 361	0.0229	0.00824	0.00726	0.0572
P1-10-006- 36a	BH - 362	0.816	193	0.00596	0.0469
P1-10-006- 37a	BH - 363	0.454	25.2	0.947	0.0544
P1-10-006- 38a	BH - 364	0.0130	0.463	0.00414	0.0326
P1-10-006- 39a	BH - 365	0.508	27.2	0.361	0.0484
P1-10-006- 40a	BH - 366	0.0167	0.00600	0.00530	0.0417
P1-10-006-	Matrix Spike on -22a	81.4%	101%	101%	
P1-10-006-	Matrix Spike Dup on -22a	81.1%	101%	103%	
P1-10-006-	Matrix Spike on -29a	94.4%	160%	114%	
P1-10-006-	Matrix Spike Dup on -30a	112%	119%	109%	
P1-10-006-	Matrix Spike on -38a	91.7%	94.5%	101%	
P1-10-006-	Matrix Spike Dup on -38a	93.6%	97.3%	105%	
P1-10-006-	Method Blank	0.110	0.488	0.253	0.0464
P1-10-006-	Method Blank	0.160	0.859	0.333	0.0464
P1-10-006-	LCS	100%	98.0%	99.2%	
P1-10-006-	LCS	100%	105%	102%	
P1-10-006-	LCS	104%	102%	96.9%	
P1-10-006-	LCS	99.0%	102%	98.0%	

* less than five times the detection limit.

CALCULATION: Sample Value (mg/L) X Sample Volume (L) = Sample Result in total mg.

BORGESS MWI - HCl Trains

Samples are in total mg in the trains.

SAM Number	Sample Description	F IC	Cl IC	Br IC	Sample Volume (L)
P1-10-006- 41a	BH - 367	0.0179	1.67	0.00569	0.0448
P1-10-006- 42a	BH - 368	0.00936	17.2	0.00297	0.0234
P1-10-006- 43a	BH - 399	0.0176	0.387	0.00559	0.0440
P1-10-006- 44a	BH - 400	0.0140	0.931	0.00445	0.0350
P1-10-006- 45a	BH - 401	0.0137	2.50	0.00436	0.0343
P1-10-006- 46a	BH - 402	0.0204	0.592	0.00648	0.0510
P1-10-006- 47a	BH - 403	0.262	98.6	0.542	0.0448
P1-10-006- 48a	BH - 404	0.842	185	0.712	0.0448
P1-10-006- 49a	BH - 405	0.497	237	0.727	0.0478
P1-10-006- 50a	BH - 406	0.0123	2.43	0.00390	0.0307
P1-10-006- 51a	BH - 450	0.0174	4.77	0.00551	0.0434
P1-10-006- 52a	BH - 451	0.0173	10.0	0.00549	0.0432
P1-10-006- 53a	BH - 452	0.017	2.53	0.00552	0.0435
P1-10-006- 54a	BH - 454	1.95	277	0.00655	0.0516
P1-10-006- 55a	BH - 455	1.24	136	0.00573	0.0451
P1-10-006- 56a	BH - 456	0.920	165	0.00660	0.0520
P1-10-006-	Matrix Spike on -41a	96.0%	107%	127%	
P1-10-006-	Matrix Spike Dup on -41a	94.1%	105%	118%	
P1-10-006-	Method Blank 1	0.0170	0.00484	0.00539	0.0425
P1-10-006-	LCS	99.4%	92.6%	95.3%	
P1-10-006-	LCS	95.8%	107%	96.9%	

* less than five times the detection limit.

CALCULATION: Sample Value (mg/L) X Sample Volume (L) = Sample Result in total mg.

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HEAD #	Sample ID	SAMPLE WT	COMMENTS
BH-01	-Hg-BHO-12-PB	521.57	Back ½ KMnO4
BH-02	-Hg-BHO-F-PB	891-22	Filter
BH-03	-Hg-BHO-PR-PB	66.2	Front ½ KMnO4
BH-04	-Hg-BHI-IR-PB	606.78	Back ½ KMnO4
BH-05	-Hg-BHI-F-PB	891-21	Filter
BH-06	-Hg-BHI-PR-PB	57.8	Front ½ KMnO4
BH-07	-Tm-BHO-Km-PB	369.33	Back ½ KMnO4
BH-08	-Tm-BHO-HN-PB	400.91	Back ½ HNO3
~~H-09~~	~~-TM-BHO-CL-PB~~		
H-10	-TM-BHO-F-PB	891-20	Filter
H-11	-TM-BHO-PR-PB	126.3	Front ½ Acetone
H-12	-TM-BHO-APR-PB	112.24	Front ½ HNO3
H-13	-TM-BHI-KM-PB	379.72	Back ½ KMnO4
-14	-TM-BHI-HN-PB	362.63	Back ½ HNO3
~~-15~~	~~-TM-BHI-CL-PB~~		
-16	-TM-BHI-APR-PB	97.17	Acid Probe Rinse (HNO3 [illegible])
-17	-TM-BHI-PR-PB	131.75	Acetone P.R. ~~Front~~ (Back [illegible])
-18	-TM-BHI-F-PB	891-19	Filter
-19	-MM5-BHO-PR-PB	312.4	Acetone/Toluene
-20	-MM5-BHO-F-PB		Filter
-21*	-MM5-BI-PR-PB	468.4	Acetone/Toluene
-22	-MM5-BI-F-PB		Filter
-23	-MM5-BHI-PR-PB	300.4	Acetone/Toluene
-24	-MM5-BHI-F-PB		Filter
[illegible]	- Reagent Blank HNO3 GIN	363.1	Reagent Blank GIN
[illegible]	- Reagent Blank KMnO4	371.[illegible]	Reagent Blank KMnO4
-27	-HCL-BHO-A-PB	26.2	H2SO4
-28	-HCL-BHO-B-PB	30.0	NAOH
-29	-HCL-BHI-A-PB	36.0	H2SO4
-30	-HCL-BHI-B-PB	32.2	NAOH

HERE IS NO B1-M3-PB

To Page No.

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TITLE Borgers Hospital 09/05/91 Run 01 Project No. Book No. [illegible]

From Page No.

Field #	Sample ID	Sample WT	Comments
BH31	-HG-BHO-IR-01	~~1122.4~~ 730.6	KMnO4
BH32	-Hg-BHO-PR-01	~~560.6~~ 297.4	KMnO4
BH33	-Hg-BHO-F-01	#891-17	
BH34	-Hg-BHI-IR-01	# ~~1286.4~~ 893.4	KMnO4
BH35	-Hg-BHI-F-01	#891-07	
BH36	-Hg-BHI-PR-01	~~593.8~~ 330.8	KMnO4
BH37	-Tm-BHO-Km-01	~~845.9~~ 453.7	KMnO4
BH38	-Tm-BHO-Hn-01	~~933.5~~ 652.8	.1N HNO3 Back 1/2
~~BH39~~	~~-Tm-BHO-CL-01~~		~~[illegible]~~
BH40	-Tm-BHO-F-01	#891-18	Filter
BH41	-Tm-BHO-PR-01	~~510.6~~ 246.4	Acetone
BH42	-Tm-BHO-ARR-01	~~424.7~~ 161.0	.1N HNO3
BH43	-Tm-BHI-Km-01	~~829.7~~ 437.3	KMnO4
BH44	-Tm-BHI-Hn-01	~~1134.5~~ 744.4	1N HNO3
~~BH45~~	~~-Tm-BHI-CL-01~~		
BH46	-Tm-BHI-F-01	#891-08	Filter
BH47	-Tm-BHI-ARR-01	~~491.8~~ 228.8	.1N HNO3
BH48	-Tm-BHI-Pr-01	~~668.8~~ 306.2	Acetone
BH49	-MM5-BHI-Pr-01	~~626.6~~ 411.9	Acetone & toluene
BH50	-MM5-BHI-F-01		Filter
BH51	-MM5-BHO-Pr-01	~~642.1~~ 380.1	Acetone & Toluene
BH52	-MM5-BHO-F-01		Filter
BH53	-MM5-BI-Pr-01	~~410.7~~ 139.1	Acetone & Tol Toluene 2[illegible]
BH54	-MM5-BI-F-01		Filter
BH55	-HCL-BHO-A-1-01 *	64.0	H_2SO_4
BH56	-HCL-BHO-A-2-01	48.9	H_2SO_4
BH57	-HCL-BHO-A-3-01	57.6	H_2SO_4
BH58	-HCL-BHO-A-B3-01	57.2	NAOH
BH59	-HCL-BHO-A-1-01	45.4	H_2SO_4
BH60	-HCL-BHI-A-2-01	42.1	H_2SO_4
BH61	-HCL-BHI-A-3-01	41.6	H_2SO_4
BH-62	-HCL-BHI-B-3-01 *	31.0	NAOH
BH-63	-MM5-BHO-Sm-01		XAD
BH-64	-MM5-BHI-Sm-01		XAD
BH-65	MM-5-BI Sm-01		XAD
BH-66	-PM-BI-PR-01	~~675.4~~ 412.2	Acetone

To Page No.

Witnessed & Understood by me, HCL'S OK 09/05/91 [signature]

Date Run 01 CAN THRU Port CHAN

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Date

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Field #	Sample ID	Sample WT	Comments
BH-67	PM-BI-F-01	#28	
		09/06/91	
BH-68	HCL-BHI-A-01A-1 *	68.7	H_2SO_4 - AciD
BH-69	HCL-BHI-A-01A-2	65.4	H_2SO_4 - AciD
BH-70	HCL-BHI-A-01A-3	47.9	H_2SO_4 - AciD
BH-71	HCL-BHI-B-01A-3	49.4	NAOH
BH-72	HCL-BHO-A-01A-1	47.9	H_2SO_4 AciD
BH-73	HCL-BHO-A-01A-2	61.1	H_2SO_4 AciD
BH-74	HCL-BHO-A-01A-3	55.1	H_2SO_4 AciD
* BH-75	HCL-BHO-B-01A-3 *	35.6	NAOH
BH-76	BASH-A-01	975.0 (gross)	Bottom Ash
BH-77	BASH-B-01	916.6 (gross)	Bottom Ash
BH-78	BASH-C-01	954.6 (gross)	Bottom Ash
BH-79	BAGA-A-01	581.3 (gross)	Baghouse Ash
BH-80	LIME-A-01	774.8 (gross)	Lime Hydrate
BH-81	LIME-A-02	807.9 (Gross)	Lime Hydrate
BH-82	BAGA-A-02	638.2	Baghouse Ash
BH-83	BAGA-B-02	645.1	Baghouse Ash
BH-84	BAGA-C-02	646.2	Baghouse Ash
BH-85	[illegible]	~~[illegible]~~ 423.4	[illegible]

* RUN 01A Flow to high

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Witnessed & Understood by me,	Date	Invented by	Date
* RUN 01-B		Recorded by	

TITLE 09/07/91 Borgess Hospital — Project No. _____ Book No. 2566

From Page No. _____

Field #	Sample ID	Sample Wt	Comments
BH-86	-Hg-BHO-IE-02	638.4	IMPR-KMnO4
BH-87	-Hg-BHO-PR-02	219.1	Probe Rinse KMnO4
BH 88	-Hg-BHO-F-02	#891-10	Filter
89	-Hg-BHI-IR-02	451.2	IMP. Rinse KMnO4
90	-Hg-BHI-PR-02	351.5	Probe Rinse KMnO4
91	-Hg-BHI-F-02	#891-12	Filter
92	-TM-BHO-KM-02	318.3	Back ½ KMnO4
93	-TM-BHO-HN-02	442.2	Back ½ H_2O_3
94	-TM-BHO-F-02	891-09	Filter
95	-TM-BHO-PR-02	269.3	Probe Rinse Acetone
96	-TM-BHO-APR-02	240.0	Acid Probe Rinse HNO_3
97	-TM-BHI-KM-02	317.8	Back ½ KMnO4
98	-TM-BHI-HN-02	660.5	Back ½ HNO_3
99	TM-BHI-F-02	891-11	Filter
100	TM-BHI-PR-02	525.7	Probe Rinse Acetone
101	TM-BHI-APR-02	266.0	Acid Probe Rinse
102	MM-5-BHO-PR-02	536.7	Acetone/Toluene Rinse
103	MM5-BHO-PRF-02		Filter
104	MM5-BHI-PR-02	469.2	Acetone/Toluene Rinse
105	MM5-BHI-PRF-02		Filter
106	MM5-BI-PR-02	~~238~~ 453.0	Acetone/Toluene Rinse
107	MM5-BI-F-02		Filter
108	MM5-SHO-SM-02		XAD
109	[illegible]		XAD
110	[illegible]		XAD
111	[illegible]	52.9	[illegible]
112	HCL-BHO-A2-302 ✓	57.9	ACID
113	HCL-BHO-A3-302 ✓	56.9	ACID
114	HCL-BHO-B-03 02	40.01	Base NAOH
115	HCL-BHI-A1-302 ✓	47.6	Acid H_2SO_4
116	HCL-BHI-A2-303 02 ✓	41.9	Acid
117	HCL-BHI-A3-303 02 ✓	48.9	Acid
118	HCL-BHI-B-03 02	35.4	Base BHAOH
119	MS-BI-F-02A	31	Filter 1/02
120	MS-BI-PR-02	~~209~~ 238.4	~~Aceton~~ H_2O

To Page No. _____

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Recorded by

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BH121	PM-B1-F-02B	FILTER#891-16	2 of 2
BH122	BASH-A-03	876.7	Bottom Ash
BH123	BASH-B-03	859.4	Bottom Ash
BH124	BASH-C-03	867.0	Bottom Ash
BH125	BAGA-A-03	627.3	Baghouse Ash
BH126	BAGA-B-03	628.6	Baghouse Ash
BH127	BAGA-C-03	614.9	Baghouse Ash
BH128	LIME-A-03	793.3	LIME Hydrate

To Page N

Witnessed & Understood by me,	Date	Invented by	Date
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TITLE Borgess Hospital 09/08/91 Field Blanks

Project No.

Book No. 25466

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Field #	Sample ID	Sample Wt.	Comments
BH-129	Hg-BHO-IR-FB	395.7	BK½ KmNO4
BH-130	Hg-BHO-PR-FB	196.7	KmNO4 Probe rinse
BH-131	Hg-BHO-F-FB	891-50	Filter
BH-132	Hg-BHI-IR-FB	364.3	BK½ KmNO4 Lost Dust
BH-133	Hg-BHI-Pr-FB	129.1	KmNO4 Probe rinse
BH-134	Hg-BHI-F-FB	891-49	Filter
BH-135	TM-BHO-Km-FB	306.4	BK½ KmNO4
BH-136	TM-BHO-Hn-FB	359.6	BK½ HnO3
BH-137	TM-BHO-F-FB	891-51	Filter
BH-138	TM-BHO-Pr-FB	139.2	Probe rinse
BH-139	TM-BHO-APr-FB	177.6	Acid Probe Rinse
BH-140	TM-BHI-Km-FB	312.4	BK½ KmNO4
BH-141	TM-BHI-Hn-FB	271.9	BK½ HNO3
BH-142	TM-BHI-F-FB	891-47	Filter
BH-143	TM-BHI-Pr-FB	~~114.5~~ 113.8	Probe rinse Acetone
BH-144	TM-BHI-APr-FB	147.9	Acid Probe Rinse
BH-145	MM5-BHO-Pr-FB	~~142.9~~ ~~315.5~~ 316.2	Probe Rinse Acetone/Tolu
BH-146	MM5-BHO-F-FB		Filter
BH-147	MM5-BHO-Sm-FB		Sample Mod. XAD
BH-148	MM5-BHI-Pr-FB	~~338.4~~ 340.2	Probe rinse Acetone/Tolue
BH-149	MM5-BHI-Sm-FB		Sample Mod. XAD
BH-150	MM5-BHI-F-FB		Filter
BH-151	MM5-BI-Pr-FB	447.0	Probe rinse Acetone/Toluene
BH-152	MM5-BI-Sm-FB		Sample Module XAD
[illegible]	MM5-BI-F-FB		Filter
[illegible]	[illegible]		[illegible] H2SO4
BH-155	HCL BHO-B-FB		BASE NaOH
BH-156	HCL BHI-A-FB		Acid H2SO4
BH-157	HCL-BHI-B-FB		BASE NaOH
~~BH-158~~	~~M5-BI-PR-FB~~		~~Probe Rinse Acetone~~
~~BH-159~~	~~M5-BI-F-FB~~		~~Filter~~
BH-160	-KMnO4-Reagent Blank	200.6	Reagent Blank
BH-161	[illegible] / [illegible] RB	471.4	Reagent Blank
~~BH-162~~			
~~BH-163~~			
~~BH-164~~			

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Witnessed & Understood by me,	Date	Invented by	Date
(+) Field Blank taken on 9/15/91		Recorded by	

TITLE Borgess Hospital 09-09-91 Run 03 Project No. _____ Book No. 25466 RADIAN CORPORATION

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Field #	Sample ID	Sample WT.	Comments
BH-162	-Hg-BHO-IR-03	764.5	BK ½ KMNO4
163	-Hg-BHO-Pr-03	327.3	Probe rinse KMNO4
164	-Hg-BHO-F-03	#891-44	Filter
165	-Hg-BHI-IR-03	807.7	Imp run KMNO4
166	-Hg-BHI-Pr-03	~~371.5~~ 369.8	Probe rinse KMNO4
167	-Hg-BHI-F-03	#891-43	Filter
168	-Tm-BHO-Km-03	~~531.6~~ 529.2	BK ½ KMNO4
169	-TM-BHO-Hn-03	~~620.0~~ 617.1	BK ½ HNO3
170	-TM-BHO-F-03	891-46 ~~529.2~~	Filter
171	-TM-BHO-Pr-03	~~233.7~~ 232.2	Probe Rinse Acetone
172	-TM-BHO-APr-03	~~415.0~~ 418.0	Probe Rinse AciD
173	-Tm-BHI-Km-03	408.5	BK ½ KMNO4
174	-Tm-BHI-Hn-03		BK ½ HNO3
175	-Tm-BHI-F-03	891-39	Filter
176	-Tm-BHI-Pr-03	395.2	Probe Rinse Acetone
177	-Tm-BHI-APr-03	195.6	Probe Rinse AciD HNO3
178	-MM5-BHO-Pr-03	~~602.1~~ 599.3	Probe rinse Acetone/Toluene
179	-MM5-BHO-SM-03		XAD
180	-MM5-BHO-F-03		Filter
181	-MM5-BHI-Pr-03	504.3	Probe Rinse Acetone/Toluen
182	-MM5-BHI-F-03		Filter
183	-MM5-BHI-Sm-03		XAD
184	-MM5-BI-Pr-03	~~645.2~~ 642.2	Probe Rinse Acetone/Toluen
185	-MM5-BI-F-03		Filter
186	-MM5-BI-[illegible]		XAD
187	-HCL-BHO-A-03-1 ✓	50.4	AciD H2SO4
188	-HCL-BHO-A-03-2 ✓	37.1	AciD
189	-HCL-BHO-A-03-3 ✓	56.3	AciD ↓
190	-HCL-BHO-B-03-3	33.5	Naoh
191	-HCL-BHI-A-03-1 ✓	43.3	AciD H2SO4
192	-HCL-BHI-A-03-2 ✓	48.5	AciD
193	-HCL-BHI-A-03-3 ✓	46.2	AciD ↓
194	-HCL-BHI-B-03-3	29.5	Base Naoh
195	-M5-BI-F-03	D908	Filter
196	-M5-BI-PR-03	223.0	Probe Rinse Acetone
~~197~~			

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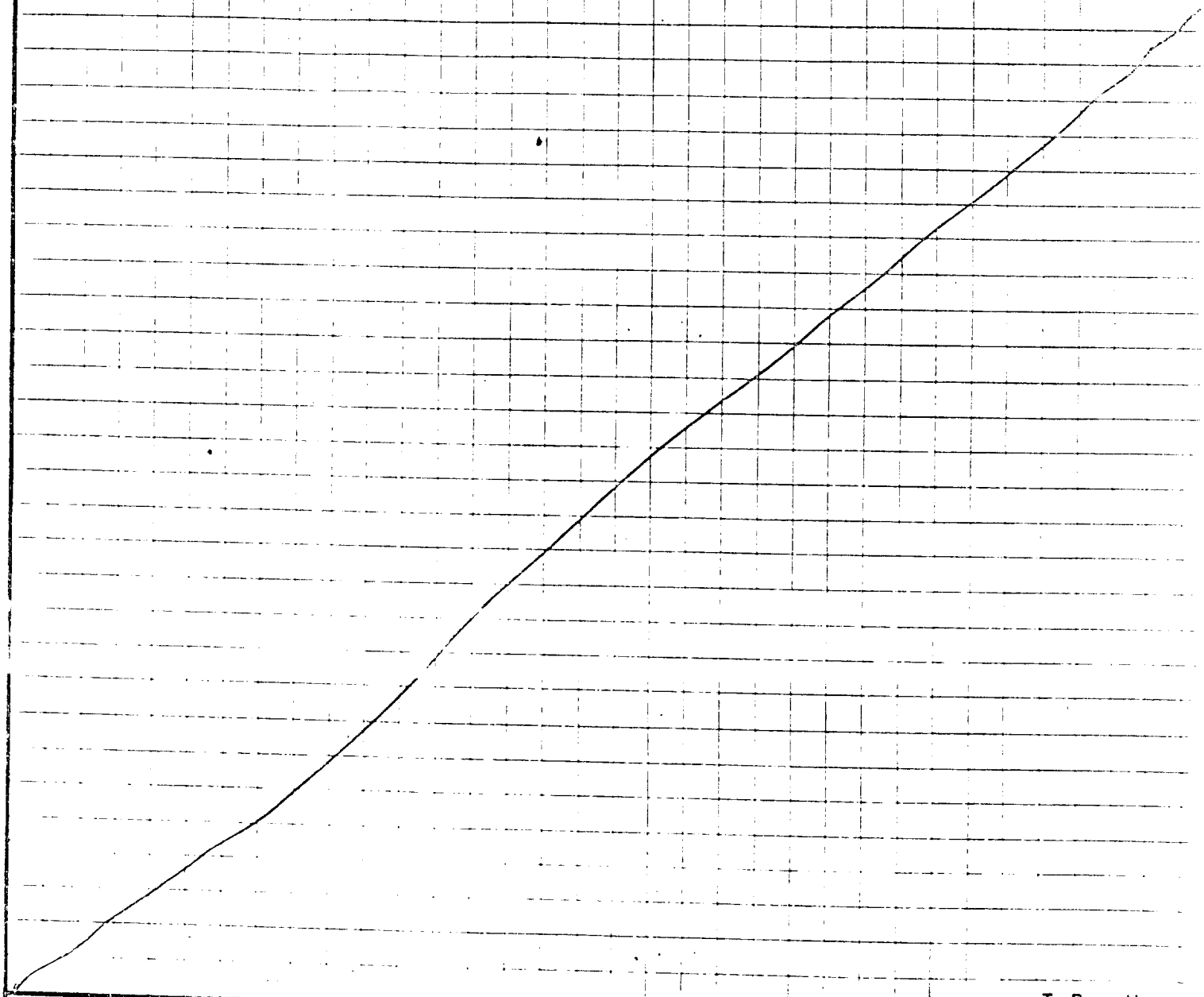
Recorded by

10 RADIAN CORPORATION Project No. Book No. 25466 TITLE 9/9/91

From Page No.

Field #	Sample ID	Sample Wgt	Comments
BH-197	BASH-A-04	1003.1 (gross)	Bottom Ash
BH-198	BASH-B-04	953.8	" "
BH-199	BASH-C-04	951.9	" "
BH-200	LIME-A-04	802.1	Lime Hydrate
BH-201	BAGA-A-04	605.0	Baghouse Ash
BH-202	BAGA-B-04	618.2	" "
BH-203	BAGA-C-04	618.0	" "



To Page No.

Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

TITLE Borgess hospital 09-10-96 Run 07 Project No. Book No. 25466

From Page No. 10

FIELD #	SAMPLE ID		SAMPLE LOG	COMMENTS
BH204	HCL-BHO-A-01-04	✓	52.1	H_2SO_4
BH205	↓ ↓ ↓ -02-04	✓	57.8	↓
BH206	↓ ↓ ↓ -03-04	✓	52.5	↓
BH207	↓ ↓ B-03-04		34.8	NaOH
BH208	HCL-BHI-A-1-04	✓	45.7	H_2SO_4
BH209	↓ ↓ ↓ -2-04	✓	64.3	↓
BH210	↓ ↓ ↓ -3-04	✓	48.2	↓
BH211	↓ ↓ B-3-04		31.7	NaOH
BH212	TM-BHO-PR-04		183.1	Acetone F½
BH213	↓ ↓ -APR-04		276.7	Nitric F½
BH214	↓ ↓ -F-04		#891-36	
BH215	↓ ↓ -HN-04			Nitric B½
BH216	↓ ↓ -KM-04		467.0	$KMnO_4$ B½
BH217	TM-BHI-PR-04		339.8	Acetone F½
BH218	↓ ↓ -APR-04		108.3	Nitric F½
BH219	↓ ↓ -F-04		#891-37	
BH220	↓ ↓ -HN-04			Nitric B½
BH221	↓ ↓ -KM-04		504.4	$KMnO_4$ B½
BH222	HG-BHO-PR-04		266.0	$KMnO_4$ F½
BH223	↓ ↓ -F-04			FILTER
BH224	↓ ↓ -IR-04		840.8	$KMnO_4$ B½
BH225	HG-BHI-PR-04		279.7	$KMnO_4$ F½
BH226	↓ ↓ -F-04		50.6	FILTER
BH227	↓ ↓ -IR-04		880.2	$KMnO_4$ B½
BH228	MM5-BHO-PR-04		125.2	Acc. & Tol. Rinse
[illegible]	↓ ↓ -F-04			FILTER
[illegible]	↓ ↓ -[illegible]			XAD II
BH231	MM5-BHI-PR-04		775.0	Acc. & Tol. Rinse
BH232	↓ ↓ -F-04			FILTER
BH233	↓ ↓ -SM-04			XAD II
BH234	MM5-B1-PR-04			Acetone & Tol. Rin
BH235	↓ ↓ -F-04			FILTER
BH236	↓ ↓ -SM-04			XAD II
BH237	M5-B1-PR-04		417.4	Acetone F½
BH238	↓ ↓ -F-04		#891-15	Filter
~~BH239~~				

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Project No.

Book No. 25466 TITLE Burgess 9/10/91

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BH 239	BH-0909-RB+HN	383.1	.1N HNO_3 R[illegible]
BH 240	BH-0909-RB-KM	539.0	[illegible] $KMnO_4$
BH 241	BH-0910-RB-ABS	446.4	5% Nitric 10% H_2O_2 [illegible]

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TLE 09-11-91 Bordess Hospital Project No. Book No. 25466

From Page No.

Field #	Sample ID	Sample WT	Comments
BH 242	Hg-1/2-BHO-04-05	777.0	KMnO4 BK 1/2
243	Hg-Pr-|-04-05	312.0	Probe Rinse KMnO4
244	Hg-F-↓-04-05	44.0	Filter
245	Hg-1/2-BHI-04-05	800.0	KMnO4 BK 1/2
246	Hg-Pr-↓-04-05	313.3	Probe Rinse KMnO4
247	Hg-F-↓-04-05	41.2	Filter
248	~~Hg~~-Tm-APr-BHO-05	263.2	Acid Probe Rinse HNO3
249	~~Hg-Pr~~-Tm-Pr-↓-05	194.5	Probe Rinse Acetone
250	~~Hg-F~~-Tm-F-↓-05	891-26	Filter
251	Tm-KM-↓-05	452.3	BK 1/2 KMnO4
252	Tm-HN-↓-05	599.0	BK 1/2 HNO3
253	Tm-APr-BHI-05	247.3	ACID Probe Rinse
254	Tm-Pr-↓	215.0	Acetone Probe R.
255	Tm-F-↓	891-01	Filter
256	Tm-KM-↓	426.3	BK 1/2 KM
257	Tm-HN-↓	782.5	BK 1/2 HN
258	MMS-Pr-BHO-05	476.1	Probe Rinse Acetone/Water
259	mms-SM-↓		XAD
260	mms-F-↓		Filter
261	mms-Pr-BHI-05	456.8	Probe Rinse Acetone/Water
262	mm-S-Sm-↓		XAD
263	MMS-F-↓		Filter
264	mms-Pr-BI-05	520.7	Probe Rinse Acetone/Water
265	mms-Sm-↓		XAD
266	mms-F		Filter
267	HCL-BHO-B-1-05 ✓	41.9	Acid
268	↓-↓-↓-2-05	50	Base
269	↓-↓-↓-3-05 ✓	47.2	Acid
270	HCL-BHO-B-3-05	46.6	Base
271	HCL-BHI-A-01-05 ✓	44.1	Acid
272	↓-↓-↓-02-05 ✓	41.0	Acid
273	↓-↓-↓-03-05 ✓	48.8	Acid
274	HCL-BHI-B-3-5	29.4	Base
275	PM-BI-Pr-05	254.7	Probe Rinse H_2O
276	PM-BI-F-05	891-27	Filter

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TITLE Bordeess Hospital 09-12-91 Boi... Project No. ...36 ...

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Field #	SAMPLE ID	SAMPLE WTS.	Comments
BH-292	-Hg-IR-BHI-06	740.3	IMP. Run KMnO4
293 ~~300~~	Pr	304.2	Probe rinse KMnO4
294	F	60.7	Filter
295	-Hg IR BHI-06	991.0	Imp. run KMnO4
296	Pr	334.2	Probe rinse KMnO4
297	F	50.6	Filter
298	TM BHOI- Pr -06	229.0	Probe Rinse Acetone
299	AP -06	315.3	Acid Probe rinse
300	KM -06	412.8	IR KMnO4
301	HW -06	867.3	I.R. H_2O_2
302	F -06	TM-15	Filter
303	TM-BHI Pr-06	332.3	Probe rinse Acetone
304	AP-06	399.0	Acid Probe rinse
305	F -06	TM-017	Filter
306	HW-06	674.2	Imp. Run H_2O_2
307	KM-06	550.8	Imp Run KMnO4
308	MMS -BHO-Pr-06	439.5	Probe Rinse
309	-F-06		Filter
310	-Sm-06		XAD
311	BHI-Pr-06	616.0	Probe Rinse
312	F-06		Filter
313	Sm-06		XAD
314	BI -Pr-06	576.3	Probe Rinse
315	F-06		Filter
316	[illegible]		XAD
317	[illegible]	49.5	Acid H_2SO_4
318	A-2-06 ✓	711	↓
319	A-3-06 ✓	498	↓
320	B-3-06 ✓	26.4	Base NaOH
321	BHI A+1-06 ✓	492	Acid H_2SO_4
322	A-2-06 ✓	473	↓
323	A-3-06 ✓	471	↓
324	B-3-06 ✓	25.1	Base Et_3 NaOH
325	PM BI-Pr-06	136.7	H_2O DI
326	F-	TM-20	Filter

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Witnessed & Understood by me,	Date	Invented by	Date
		Recorded by	

From Page No.

Field #	Sample ID	Sample Wts.	Comments
BH-328	BASH-A-07	852.9 Gross	Bottom Ash
329	-B-07	882.1	↓
330	-C-07	847.2	Carbon PC 100
331	Carb A-07	415.8	Lime Hydrate
332	Lime A-07	809.9	Baghouse Ash
333	BAGA-A-07	623.6	↓ ↓
334	-B-07	628.7	
335	-C-07	621.6	

To Page No.

Witnessed & Understood by me. Date Invented by Date

Recorded by

McCoy & McCoy Laboratories, Inc.
A Subsidiary of McCoy & McCoy Inc
P.O. Box 907
88 East Main Avenue
Madisonville, Kentucky 42431
Telephone 502 821-7375

Lexington, Ky. 606 299-7775
Louisville, Ky. 502 429-5777
Madisonville, Ky. 502 821-7375
Paducah, Ky. 502 444-6847
Pikeville, Ky. 606 432-3104
Evansville, In. 812 425-5268

ANALYSIS REPORT

RADIAN CORPORATION
ATTN: MEHDI MAIBODI
P.O. BOX 13000
RESEARCH TRIANGLE PARK
RESEARCH TRIANGLE PARK, NC 27709

DATE: 10/16/91

REPORT NO: SEE BELOW

LOSS ON IGNITION

REPORT NO.	IDENTIFICATION	MOISTURE	HYDRATED WATER	L.O.I.	TOTAL LOSS	AS RECEIVED CARBON	DRY CARBON	RUN	BOILER
911009064M	BH-329 (9-12-91)	42.38%	2.66%	10.55%	49.83%	1.32%	2.29%	5	B&T
911009065M	BH-476 (9-17-91)	19.08%	0.91%	9.61%	27.53%	4.79%	5.92%	7	B&T
911009066M	BH-423 (9-14-91)	0.90%	1.06%	22.32%	23.83%	4.29%	4.33%	8	B&W
911009067M	BH-291 (9-11-91)	0.43%	0.86%	20.51%	21.54%	1.35%	1.36%	5	B&W
911009068M	BH-335 (9-12-91)	0.58%	0.95%	20.53%	21.74%	1.81%	1.82%	6	B&W
911009069M	BH-127 (9-07-91)	0.60%	0.91%	17.63%	13.07%	0.52%	0.52%	2	B&W
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	[illegible]
911009072M	BH-283 (9-10-91)	0.57%	0.90%	21.27%	22.42%	1.07%	1.08%	4	B&W
911009073M	BH-284 (9-11-91)	0.47%	0.48%	6.20%	7.15%	3.66%	3.68%	4	B&T
911009074M	BH-418 (9-14-91)	14.50%	1.00%	9.00%	24.13%	4.00%	5.38%	7	B&T
911009075M	BH-473 (9-16-91)	0.97%	1.09%	22.30%	23.89%	2.36%	2.36%	3	B&W
911009076M	BH-466A (9-15-91)	15.39%	2.14%	8.44%	24.19%	1.55%	1.83%	8	B&T
911009077M	BH-198A (9-9-91)	22.03%	1.51%	8.57%	29.84%	3.34%	4.29%	2	B&T
911009078M	BH-411A (9-13-91)	35.92%	1.64%	10.22%	43.41%	3.37%	5.26%	6	B&T
911009079M	BH-~~423~~ 335A (9-10-91)	18.35%	1.24%	5.12%	23.49%	1.15%	1.41%	3	B&T

Submitted by Kirk Wallace

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Date	Run #	Baghouse Ash	Bottom Ash	Lime	Carbon
7-7	2	125, 126, 127	197, 198, (199)	128	—
7-8	No Test				
7-9	3	201, 202, 203	277, 278, (279)	200	—
7-10	4	281, 282, 283	(284), 285, 286	280	
7-11	5	289, 290, 291	328, 329, 330	288	287
7-12	6	333, 334, 335	409, (410), 411	332	331
7-13	7	414, 415, 416	417, 418, 419	413	412
7-14	8	422, 423, 424	466, (467), 468	421	420
7-15	No Test				
7-16	9	471, 472, 473	474, 475, 476	470	469
7-17	No Test				

Test

Samples	Metals	Dioxin	LOI	Carbon
Baghouse Ash	✓	—	✓	✓
Bottom Ash	✓	—	✓	✓
Lime	✓	—	—	—
Carbon	[illegible]	—	—	—

[illegible] Triangle [illegible]

House

Dioxin 40 g.

35 days

From Run #8, 1 sample for full PAH analysis. (Triangle Labs)

Meter Box Calibration

Post - MWI Borgess

Date	9/24/91	Cal Meter #	6830284	Pbar	29.92
Box #	R-3	Cal Meter Yd	0.9967	Vacuum	5 "Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
1.50	-0.07	Final	18.370	33.898	67	67	72	84	11.5	0.9920	2.00
		Init.	10.980	26.340	67	67	71	87			
		Total	7.390	7.558	Avg.	67.0	Avg.	78.5			
1.50	-0.07	Final	24.789	40.463	67	67	72	86	10	0.9942	2.00
		Init.	18.376	33.898	68	68	74	91			
		Total	6.413	6.565	Avg.	67.5	Avg.	80.8			
1.50	-0.07	Final	33.763	49.764	69	69	74	87	14	0.9829	2.01
		Init.	24.789	40.463	68	68	76	92			
		Total	8.974	9.301	Avg.	68.5	Avg.	82.3			
										ERR	ERR
		Total	0.000	0.000	Avg.	0.0	Avg.	0.0			
									Average	0.9897	2.00

Meter Box Calibration

Post - MWI Borgess

Date	9/24/91	Cal Meter #	6830284	Pbar	29.92
Box #	R-4	Cal Meter Yd	0.9967	Vaccum	5 "Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
1.50	-0.07	Final	50.180	93.477	67	67	74	97	10.5		
		Init.	42.960	85.930	68	68	79	110		0.9904	1.71
		Total	7.220	7.547	Avg.	67.5	Avg.	90.0			
1.50	-0.07	Final	57.707	101.430	68	68	79	108	11		
		Init.	50.180	93.477	66	66	82	114		0.9909	1.71
		Total	7.527	7.953	Avg.	67.0	Avg.	95.8			
1.50	-0.07	Final	64.560	8.690	65	66	83	112	10		
		Init.	57.707	1.430	66	66	85	119		0.9973	1.68
		Total	6.853	7.260	Avg.	66.0	Avg.	97.3			
										ERR	ERR
		Total	0.000	0.000	Avg.	0.0	Avg.	0.0			
									Average	0.9929	1.70

Meter Box Calibration

Post Test - MWI Borgess

Date	10/3/91	Cal Meter #	6830284	Pbar	29.9
Box #	N-30	Cal Meter Yd	0.9967	Vaccum	10 "Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
1.1	-0.07	Final	43.149	52.743	68	67	70	68	6		
		Init.	39.743	49.400	68	67	71	69		1.0164	1.92
		Total	3.406	3.343	Avg.	67.5	Avg.	69.5			
1.1	-0.07	Final	49.823	59.250	66	67	71	68	11		
		Init.	43.515	53.100	66	67	70	69		1.0252	1.87
		Total	6.308	6.150	Avg.	66.5	Avg.	69.5			
1.1	-0.07	Final	57.947	67.182	67	67	70	69	14.25		
		Init.	49.823	59.250	68	68	73	70		1.0237	1.90
		Total	8.124	7.932	Avg.	67.5	Avg.	70.5			
		Final									
		Init.								ERR	ERR
		Total	0.000	0.000	Avg.	0.0	Avg.	0.0			
									Average	1.0218	1.90

Meter Box Calibration

Post Test - BORGESS

Date	10/15/91	Cal Meter #	6830284	Pbar	29.81
Box #	N-31	Cal Meter Yd	0.9967	Vaccum	13 "Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
1	-0.07	Final	57.064	79.757	69	69	74	70	10	0.9916	1.76
		Init.	51.412	74.067	68	68	70	69			
		Total	5.652	5.690	Avg.	68.5	Avg.	70.8			
1	-0.07	Final	62.761	85.489	69	69	76	72	10	0.9955	1.73
		Init.	57.064	79.757	69	69	73	71			
		Total	5.697	5.732	Avg.	69.0	Avg.	73.0			
1	-0.07	Final	69.578	92.378	69	69	78	73	12	0.9939	1.74
		Init.	62.761	85.489	70	70	77	72			
		Total	6.817	6.889	Avg.	69.5	Avg.	75.0			
									Average	0.9937	1.74

Meter Box Calibration

Post Test - MWI Borgess

Date	10/15/91	Cal Meter #	6830284	Pbar	29.88
Box #	N-33	Cal Meter Yd	0.9967	Vacuum	11 "Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
1.1	-0.07	Final	67.375	76.428	70	70	73	70	11	0.9810	1.89
		Init.	61.057	70.000	72	72	78	72			
		Total	6.318	6.428	Avg.	71.0	Avg.	73.3			
1.1	-0.07	Final	73.116	82.298	73	73	80	75	10	0.9788	1.89
		Init.	67.375	76.428	72	72	77	74			
		Total	5.741	5.870	Avg.	72.5	Avg.	76.3			
1.1	-0.007	Final	79.410	88.777	73	73	82	78	11	0.9765	1.90
		Init.	73.116	82.298	72	72	79	77			
		Total	6.294	6.479	Avg.	72.5	Avg.	78.5			
									Average	0.9788	1.89

Meter Box Calibration

Post Test - MWI Borgess

Date	10/4/91	Cal Meter #	6830284	Pbar	29.88
Box #	N-34	Cal Meter Yd	0.9967	Vacuum	12 "Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
0.95	-0.06	Final	74.756	16.150	67	67	73	71	13.75	1.0114	1.94
		Init.	67.568	9.000	68	68	78	73			
		Total	7.188	7.150	Avg.	67.5	Avg.	73.8			
0.95	-0.06	Final	81.155	22.515	68	68	78	73	12.25	1.0142	1.95
		Init.	74.756	16.150	70	70	81	75			
		Total	6.399	6.365	Avg.	69.0	Avg.	76.8			
0.95	-0.06	Final	86.636	27.953	70	70	81	75	10.5	1.0186	1.95
		Init.	81.155	22.515	70	70	83	76			
		Total	5.481	5.438	Avg.	70.0	Avg.	78.8			
									Average	1.0147	1.95

Meter Box Calibration

Post Test - MWI Borgess

Date	9/24/91	Cal Meter #	6830284	Pbar	29.92
Box #	A-35	Cal Meter Yd	0.9967	Vaccum	5 " Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
1.5	-0.07	Final	88.127	15.683	74	74	84	92	9		
		Init.	82.438	9.857	75	75	88	96		0.9976	2.08
		Total	5.689	5.826	Avg.	74.5	Avg.	90.0			
1.5	-0.07	Final	98.218	26.120	74	74	88	96	16		
		Init.	88.127	15.683	74	74	94	101		0.9973	2.07
		Total	10.091	10.437	Avg.	74.0	Avg.	94.8			
1.5	-0.07	Final	82.438	9.857	74	74	78	82	12.75		
		Init.	74.377	1.676	75	75	84	91		0.9966	2.10
		Total	8.061	8.181	Avg.	74.5	Avg.	84.5			
									Average	0.9972	2.08

Meter Box Calibration

Post Test - MWI Borgess

Date	9/24/91	Cal Meter #	6830284	Pb ir	29.92
Box #	A-36	Cal Meter Yd	0.9967	Vaccum	8 "Hg

Orifice Setting	Cal. Meter Pressure	Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd	Delta H@
1.5	-0.07	Final	78.403	67.900	71	71			11		
		Init.	71.003	60.418	71	71	[illegible]			1.0097	1.83
		Total	7.406	7.482	Avg.	71.0	Avg.	86.0			
1.5	-0.07	Final	88.306	78.080	71	71	82	96	14.75		
		Init.	78.403	67.900	71	71	89	101		1.0054	1.81
		Total	9.903	10.180	Avg.	71.0	Avg.	92.8			
1.5	-0.07	Final	97.877	88.051	71	71	89	101	14.5		
		Init.	88.306	78.080	71	71	95	107		1.0028	1.85
		Total	9.571	9.971	Avg.	71.0	Avg.	98.8			
									Average	1.0060	1.83

Meter Box Calibration

Post Test - MWI Borgess

Date	9/24/91	Cal Meter #	Mini-Buck	Pbar	29.92
Box #	V-1	Cal Meter Yd	1	Vacuum	5 "Hg

Gas Volume Cal. Meter		Gas Volume Meter Box	Cal. Temp In	Cal. Temp Out	Meter Temp In	Meter Temp Out	Time	Yd
Final	9.900	9.770	67	67	67	67	10	
Init.	0.000	0.000	67	67	67	67		1.0133
Total	9.900	9.770	Avg.	67.0	Avg.	67.0		
Final	13.030	12.850	67	67	67	67	12.25	
Init.	0.000	0.000	67	67	67	67		1.0140
Total	13.030	12.850	Avg.	67.0	Avg.	67.0		
Final	9.960	9.780	67	67	67	67	10	
Init.	0.000	0.000	67	67	67	67		1.0184
Total	9.960	9.780	Avg.	67.0	Avg.	67.0		
							Average	1.0152

DEFINITION OF TERMS

SYMBOL	DEFINITIONS	UNITS
As	AREA OF STACK	in.^2
Cp	PITOT COEFFICIENT	--
Ca	CONCENTRATION OF PARTICULATE	grains/ft^3
Dn	DIAMETER OF SAMPLING NOZZLE	in.
ER	EMISSION RATE OF PARTICULATE	lb/hr
Kp	PITOT TUBE COEFFICIENT	--
MFd	MOLE FRACTION OF DRY STACK GAS	--
MWd	MOLECULAR WEIGHT OF DRY STACK GAS	lb/lb-mole
MWw	MOLECULAR WEIGHT OF WET STACK GAS	lb/lb-mole
	MOISTURE COLLECTED IN IMPINGERS	grams
P(std)	STANDARD PRESSURE (29.92 in. Hg)	in. Hg
Pb	BAROMETRIC PRESSURE	in. Hg
Pmg(avg)	AVERAGE GAUGE METER PRESSURE	in. Hg
Ps	ABSOLUTE STACK PRESSURE	in. Hg
	PARTICULATE CATCH	grams
Qsd	AVERAGE STACK DRY VOLUMETRIC FLOW RATE	dry ft^3/min.
%CO2	PERCENT CO2 IN STACK GAS	--
%N2	PERCENT N2 IN STACK GAS	--
%O2	PERCENT O2 IN STACK GAS	--
%V	PERCENT MOISTURE IN STACK	--
%XS	PERCENT EXCESS AIR	--
	TOTAL SAMPLING TIME	min.
T(std)	STANDARD TEMPERATURE (68 F)	F
Tm(avg)	AVERAGE TEMPERATURE OF THE METER	F
Ts(avg)	AVERAGE TEMPERATURE OF THE STACK	F
Vm	TOTAL METERED VOLUME	ft^3
Vm(std)	STANDARD METERED VOLUME	dry standard ft^3
Vw(std)	VOLUME OF WATER IN STACK GAS	standard ft^3
Vs	VELOCITY OF STACK GAS	ft/min
Y	TEST METER CALIBRATION COEFFICIENT	--

SAMPLE CALCULATIONS

COMPANY : BORGESS MEDICAL CENTER
PLANT SITE : KALAMAZOO, MI
SAMPLING LOCATION : BAGHOUSE OUTLET
DATE : 09/07/91

EXAMPLE #1: PM/Metals , RUN 02

STANDARD CONDITIONS: 68 F, 29.92 in Hg

INPUT PARAMETERS:

As	= 551.55 sq.in.	Ps	= 29.48 in. Hg	PM COLLECT.	= 0.0100 gr		
Cp	= 0.84	%CO2	= 4.69	AVG SQRT DEL.P	= 0.2546 in		
Dn	= 0.313 in.	%N2	= 80.26	MOISTURE	= 211.60 gr		
Kp	= 84.55	%O2	= 15.05	COLLECTED			
P(std)	= 29.92 in. Hg	T(std)	= 68.00 F	SAMPL TIME	= 240 min		
Pb	= 29.52 in. Hg	Tm(avg)	= 110.09 F	Ts(avg)	= 294.42 F		
Pmg(avg)	= 0.45 in. H2O	Vm	= 91.40 ft^3	Y	= 1.0100		

1) Volume of dry gas sampled at standard conditions:

$$Pm = Pmg/13.6 + Pb \qquad Pm = 29.5530$$

$$Vm(std) = \frac{Y * Vm * (T(std) + 460) * Pm}{P(std) * (Tm(avg) + 460)}$$

$$Vm(std) = (1.011 * 91.40 * (68 + 460) * 29.55) / (29.92 * (110.09 + 460))$$

$$Vm(std) = 84.52 \text{ dscf}$$

2) Volume of water vapor at standard conditions:

$$Vw(gas) = 0.04707 \text{ ft3/g} * (\text{moisture collected})$$

$$Vw(gas) = (0.04707 * 211.60)$$

$$Vw(gas) = 9.95 \text{ scf}$$

3) Percent moisture in stack:

$$\%V = \frac{100 * Vw(gas)}{Vm(std) + Vw(gas)}$$

$$\%V = (100 * 9.95) / (84.52 + 9.95)$$

$$\%V = 10.53$$

4) Mole fraction of dry stack gas:

$$MFd = \frac{100 - \%V}{100}$$

$$MFd = (100 - 10.53) / 100$$

$$MFd = 0.895$$

5) Average molecular weight of dry stack gas:

MWd = (0.44 * %CO2) + (0.32 * %O2) + (0.28 * %N2)

MWd = (0.44 * 4.89) + (0.32 * 15.05) + (0.28 * 80.26)

MWd = 29.35 lb/lb-mole

6) Average molecular weight of wet stack gas:

MWw = MWd * MFd + 18.0 * (1.0 - MFd)

MWw = 29.35 * 0.895 + 18.0 * (1.0 - 0.895)

MWw = 28.16 lb/lb-mole

7) Stack velocity (feet/min) at stack conditions:

Vs = Kp*Cp*[SQRT(dP)]avg*(SQRT[(Ts)avg])*[SQRT(1/Ps*MWw)]*60

Vs = 84.59 * 0.84 * 0.25 * SQRT[(294.42 +460) / (29.48 * 28.16)]

Vs = 17.24665 fps
1034.799 fpm

8) Average stack dry volumetric flow rate:

$$Qsd = \frac{Vs * As * MFd * (T(std)+460) * Ps}{144 \text{ sq.in./sq.ft.} * (Ts(avg) + 460) * P(std)}$$

Qsd = [illegible]

Qsd = 2444.95 dscfm
69.24236 dscmm

9) Isokinetic sampling rate (%):

$$\%I = \frac{1039.5746 * Vm(std) * (Ts(avg) + 460)}{Vs * \text{samp. time} * Ps * MFd * (Dn)^2}$$

%I = (1039.5746 * 84.52 * (294.42 + 460)) / (1034.80 * 240 * 29.48 * 0.895 * (0.313)^2)

%I = 103.24

10) Excess air (%):

$$\%XS = \frac{100 * \%O2}{(0.264 * \%N2) - \%O2}$$

%XS = (100 * 15.05) / ((0.264 * 80.26) - 15.05)

%XS = 244.53

11) Concentration of particulate:

Ca = (particulate catch) / Vm(std) / 453.59 * 7000

Ca = 0.0102 / 84.52 / 453.59 * 7000

Ca = 0.00186 grains/dscf

12) Particulate Emissions Rate:

ER = (concentration) * (Qsd) * 60 / 7000

ER = 0.0019 * 2444.95 * 60 / 7000

ER = 0.039 lb/hr

PROJECT PARTICIPANTS

U.S. ENVIRONMENTAL PROTECTION AGENCY

Michael Toney, Work Assignment Manager
Ted Bryna
Jim Eddinger
Steve Fruh

BORGESS MEDICAL CENTER

Eric Buzzell
Phil Stearns

MIDWEST RESEARCH INSTITUTE

Mark Turner

RADIAN CORPORATION

Mike Palazzolo, Program Manager
Larry Romesberg, Project Director

Mike Brooks
Robert Brink
Jamie Clark
Carl Galloway
[illegible]
[illegible]
[illegible]
Lee Garcia
Mike Hartman
Mark Huff
Julie Lopez
Terry Marshall
Lon Morris
Brad Nelson
Tom Olsen
Charlie Parrish
Katherine Potter
Jon Proulx
John Smith
[illegible]
Eric Soderberg
Jim Southerland
Terri Wood
Jerry Workman
Robert Woytek