

13:59 07/09/98  
 ID CODE C00000044 WT0.1000 CAL#1  
 CARBON 12.13% SULFUR .00053%  
 OXYGEN FLOW 3.319  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 11491. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0237 1.0296

CaCO<sub>3</sub>

14:00 07/09/98  
 ID CODE C00000045 WT0.0900 CAL#1  
 CARBON 11.75% SULFUR .00087%  
 OXYGEN FLOW 3.312  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 12101. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0225 1.0204

14:02 07/09/98  
 ID CODE C00000046 WT0.1000 CAL#1  
 CARBON 11.88% SULFUR .00061%  
 OXYGEN FLOW 3.310  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 11432. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0221 1.0280

14:03 07/09/98  
 ID CODE C00000047 WT1.0060 CAL#1  
 CARBON 0.8382% SULFUR .00003%  
 OXYGEN FLOW 3.306  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7622. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0214 1.0273

Std

0.822

14:04 07/09/98  
 ID CODE C00000048 WT1.0040 CAL#1  
 CARBON 0.8303% SULFUR .00007%  
 OXYGEN FLOW 3.304  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6940. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0211 1.0270

14:06 07/09/98  
 ID CODE C00000049 WT1.0040 CAL#1  
 CARBON 0.8282% SULFUR .00005%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9526. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0200 1.0259

14:07 07/09/98  
 ID CODE C00000050 WT1.0020 CAL#1  
 CARBON 0.8395% SULFUR .00006%  
 OXYGEN FLOW 3.301  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8972. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0205 1.0264

14:09 07/09/98  
 ID CODE C00000051 WT1.0010 CAL#1  
 CARBON 0.8364% SULFUR .00005%  
 OXYGEN FLOW 3.300  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8973. 0.  
 CALIB. 0.7033 0.8981  
 K FAC. 1.0203 1.0262

\*\*\* STACK CALIBRATION \*\*\*

14:09 07/09/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000051 1.0010 0.8364 .00005  
 C00000050 1.0000 0.8395 .00006  
 C00000049 1.0040 0.8282 .00005  
 C00000048 1.0040 0.8303 .00007  
 C00000047 1.0060 0.8382 .00003  
 C00000046 0.1000 11.88 .00061  
 C00000045 0.0900 11.75 .00087  
 C00000044 0.1000 12.13 .00053  
 C00000043 0.0540 3.865 .00033  
 C00000042 0.1010 12.26 .00048

CARBON STD.% 00.8220  
 OLD C-CAL -1- 0.7033  
 INCLUDE CARBON  
 C00000051 0.8364  
 C00000050 0.8395  
 C00000049 0.8282  
 C00000048 0.8303  
 C00000047 0.8382  
 NEW C-CAL -1- 0.6927

14:10 07/09/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000051 1.0010 0.8238 .00005  
 C00000050 1.0000 0.8269 .00006  
 C00000049 1.0040 0.8153 .00005  
 C00000048 1.0040 0.8178 .00007  
 C00000047 1.0060 0.8256 .00003  
 C00000046 0.1000 11.70 .00061  
 C00000045 0.0900 11.57 .00087  
 C00000044 0.1000 11.95 .00053  
 C00000043 0.0540 3.807 .00033  
 C00000042 0.1010 12.07 .00048  
 \*\*\* END CALIBRATION \*\*\*

14:14 07/09/98  
 ID CODE C00000052 Wt0.0000 CAL#1  
 CARBON 0.8197% SULFUR .00007%  
 OXYGEN FLOW 3.299  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9106. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0202 1.0261

SL  
0.822

14:17 07/09/98  
 ID CODE C00000053 Wt0.1020 CAL#1  
 CARBON 11.91% SULFUR .00031%  
 OXYGEN FLOW 3.301  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 11258. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0205 1.0264

CaCO<sub>3</sub>

14:18 07/09/98  
 ID CODE C00000054 Wt0.0570 CAL#1  
 CARBON 3.826% SULFUR .00025%  
 OXYGEN FLOW 3.301  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2306. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0205 1.0264

WST2  
n.e.

14:23 07/09/98  
 ID CODE C00000055 Wt0.0500 CAL#1  
 CARBON 2.416% SULFUR .00071%  
 OXYGEN FLOW 3.306  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 965. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0214 1.0273  
 \*\*\* OUT-SEQ BEGUN \*\*\*

WST2  
meth.

14:25 07/09/98  
 ID CODE C00000067 Wt0.0500 CAL#1  
 CARBON 3.733% SULFUR .00081%  
 OXYGEN FLOW 3.303  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1616. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0209 1.0268  
 \*\*\* OUT-SEQ BEGUN \*\*\*

WST2  
n.e.

14:27 07/09/98  
 ID CODE C00000068 Wt0.9990 CAL#1  
 CARBON 0.8152% SULFUR .00004%  
 OXYGEN FLOW 3.294  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7516. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0192 1.0251  
 \*\*\* OUT-SEQ BEGUN \*\*\*

Std  
0.822

14:29 07/09/98  
 ID CODE C00000069 Wt0.9990 CAL#1  
 CARBON 0.8286% SULFUR .00002%  
 OXYGEN FLOW 3.294  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8388. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0192 1.0251  
 \*\*\* OUT-SEQ BEGUN \*\*\*

4

14:31 07/09/98  
 ID CODE C00000071 Wt1.0040 CAL#1  
 CARBON 0.8204% SULFUR .00002%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9224. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0200 1.0259  
 \*\*\* CLEANING TIME \*\*\*  
 \*\*\* OUT-SEQ BEGUN \*\*\*

4

14:34 07/09/98  
 ID CODE C00000072 Wt0.1000 CAL#1  
 CARBON 12.13% SULFUR .00026%  
 OXYGEN FLOW 3.302  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14493. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0207 1.0266  
 \*\*\* OUT-SEQ BEGUN \*\*\*

CaCO<sub>3</sub>

14:36 07/09/98  
 ID CODE C00000073 Wt0.0500 CAL#1  
 CARBON .00049% SULFUR .00046%  
 OXYGEN FLOW 3.317  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 0. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0233 1.0292  
 \*\*\* OUT-SEQ BEGUN \*\*\*

14:39 07/09/98  
 ID CODE C00000074 Wt0.0500 CAL#1  
 CARBON 3.794% SULFUR .00104%  
 OXYGEN FLOW 3.308  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1763. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0217 1.0276  
 \*\*\* OUT-SEQ BEGUN \*\*\*

WST2  
n.e.

14:40 07/09/98  
 ID CODE C00000056 Wt0.1000 CAL#1  
 CARBON 0.3977% SULFUR .00021%  
 OXYGEN FLOW 3.297  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 53. 30.  
 PEAK 192. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0198 1.0257

3

14:42 07/09/98  
 ID CODE C00000057 WTA.1000 CAL#1  
 CARBON 0.3564% SULFUR .00013%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 8 BLANK +.00000 +.00000  
 TIME 51. 30.  
 PEAK 235. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0186 1.0245

14:43 07/09/98  
 ID CODE C00000058 WTA.1000 CAL#1  
 CARBON 0.2544% SULFUR .00032%  
 OXYGEN FLOW 3.291  
 -C- -S-  
 13 BLANK +.00000 +.00000  
 TIME 52. 30.  
 PEAK 172. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0187 1.0247

14:45 07/09/98  
 ID CODE C00000059 WTA.1000 CAL#1  
 CARBON 0.2774% SULFUR .00034%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 18 BLANK +.00000 +.00000  
 TIME 46. 30.  
 PEAK 192. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0173 1.0233

14:46 07/09/98  
 ID CODE C00000060 WTA.1000 CAL#1  
 CARBON 0.2377% SULFUR .00038%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 23 BLANK +.00000 +.00000  
 TIME 48. 30.  
 PEAK 156. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0186 1.0245

14:48 07/09/98  
 ID CODE C00000061 WTA.1000 CAL#1  
 CARBON 0.2217% SULFUR .00039%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 28 BLANK +.00000 +.00000  
 TIME 46. 30.  
 PEAK 142. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0173 1.0233

14:49 07/09/98  
 ID CODE C00000062 WTA.1000 CAL#1  
 CARBON 0.2116% SULFUR .00041%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 33 BLANK +.00000 +.00000  
 TIME 47. 30.  
 PEAK 156. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0172 1.0231

14:50 07/09/98  
 ID CODE C00000063 WTA.1000 CAL#1  
 CARBON 0.2452% SULFUR .00005%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 38 BLANK +.00000 +.00000  
 TIME 43. 30.  
 PEAK 217. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0172 1.0231

14:52 07/09/98  
 ID CODE C00000064 WTA.1000 CAL#1  
 CARBON 0.2850% SULFUR .00049%  
 OXYGEN FLOW 3.281  
 -C- -S-  
 43 BLANK +.00000 +.00000  
 TIME 44. 30.  
 PEAK 252. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0170 1.0229

14:53 07/09/98  
 ID CODE C00000065 WTA.1000 CAL#1  
 CARBON 0.5025% SULFUR .00054%  
 OXYGEN FLOW 3.275  
 -C- -S-  
 48 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 452. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0159 1.0210

14:54 07/09/98  
 ID CODE C00000066 WTA.9960 CAL#1  
 CARBON 0.8314% SULFUR .00004%  
 OXYGEN FLOW 3.265  
 -C- -S-  
 56 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9169. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0142 1.0201

14:56 07/09/98  
 ID CODE C00000070 WTA.1000 CAL#1  
 CARBON 0.7137% SULFUR .00006%  
 OXYGEN FLOW 3.257  
 -C- -S-  
 56 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10076. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0128 1.0186

14:57 07/09/98  
 ID CODE C00000075 WTA.9960 CAL#1  
 CARBON 0.8245% SULFUR .00005%  
 OXYGEN FLOW 3.205  
 -C- -S-  
 56 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7559. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0036 1.0074



15:03 07/09/98  
 ID CODE C00000076 Wt0.0990 CAL#1  
 CARBON 11.91% SULFUR .00047%  
 OXYGEN FLOW 3.185

CaCO<sub>3</sub>

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14220. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0004 1.0059

15:04 07/09/98  
 ID CODE C00000077 Wt0.0500 CAL#1  
 CARBON 2.411% SULFUR .00053%  
 OXYGEN FLOW 3.278

WS2

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 983. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0168 1.0223

15:06 07/09/98  
 ID CODE C00000078 Wt0.1000 CAL#1  
 CARBON 0.5834% SULFUR .00005%  
 OXYGEN FLOW 3.251

53

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 520. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0120 1.0176

15:07 07/09/98  
 ID CODE C00000079 Wt0.1000 CAL#1  
 CARBON 0.5102% SULFUR .00020%  
 OXYGEN FLOW 3.249

58

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 467. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0117 1.0172

\*\*\* CLENNING TIME \*\*\*

15:08 07/09/98  
 ID CODE C00000080 Wt0.1000 CAL#1  
 CARBON 0.5209% SULFUR .00024%  
 OXYGEN FLOW 3.267

63

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 464. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0148 1.0204

15:09 07/09/98  
 ID CODE C00000081 Wt0.1000 CAL#1  
 CARBON 0.5214% SULFUR .00004%  
 OXYGEN FLOW 3.187

68

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 41. 30.  
 PEAK 432. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0007 1.0062

15:11 07/09/98  
 ID CODE C00000082 Wt0.1000 CAL#1  
 CARBON 0.5355% SULFUR .00018%  
 OXYGEN FLOW 3.211

73

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 524. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0049 1.0104

15:12 07/09/98  
 ID CODE C00000083 Wt0.1000 CAL#1  
 CARBON 0.5329% SULFUR .00030%  
 OXYGEN FLOW 3.140

78

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 468. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9924 0.9979

15:13 07/09/98  
 ID CODE C00000084 Wt0.1000 CAL#1  
 CARBON 0.5175% SULFUR .00032%  
 OXYGEN FLOW 3.010

83

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 499. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9695 0.9749

15:15 07/09/98  
 ID CODE C00000085 Wt0.1000 CAL#1  
 CARBON 0.5843% SULFUR .00013%  
 OXYGEN FLOW 3.096

88

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 532. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9850 0.9901

15:16 07/09/98  
 ID CODE C00000086 Wt0.1000 CAL#1  
 CARBON 0.5007% SULFUR .00032%  
 OXYGEN FLOW 3.185

93

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 412. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0007 1.0059

15:18 07/09/98  
 ID CODE C00000087 Wt0.1000 CAL#1  
 CARBON 0.4515% SULFUR .00020%  
 OXYGEN FLOW 2.992

98

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 452. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9666 0.9716



15:19 07/09/98  
 ID CODE C00000088 WTA.0020 CAL#1  
 CARBON 0.8218% SULFUR .00084%  
 OXYGEN FLOW 3.019  
 -C- -S-

SH  
 0.822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9534. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9714 0.9764

15:25 07/09/98  
 ID CODE C00000089 WTA.0980 CAL#1  
 CARBON 11.65% SULFUR .00021%  
 OXYGEN FLOW 2.938  
 -C- -S-

(CO<sub>2</sub>)  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 11933. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9571 0.9621

15:26 07/09/98  
 ID CODE C00000090 WTA.0580 CAL#1  
 CARBON 2.477% SULFUR .00022%  
 OXYGEN FLOW 3.217  
 -C- -S-

(CO<sub>2</sub>)  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1860. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0067 1.0115

15:27 07/09/98  
 ID CODE C00000091 WTA.1000 CAL#1  
 CARBON 0.4515% SULFUR .00017%  
 OXYGEN FLOW 2.907  
 -C- -S-

105  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 484. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9520 0.9566

15:29 07/09/98  
 ID CODE C00000092 WTA.1000 CAL#1  
 CARBON 0.4528% SULFUR .00009%  
 OXYGEN FLOW 3.256  
 -C- -S-

108  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 458. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0132 1.0184

15:30 07/09/98  
 ID CODE C00000093 WTA.1000 CAL#1  
 CARBON 0.4310% SULFUR .00022%  
 OXYGEN FLOW 3.058  
 -C- -S-

113  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 440. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9783 0.9833

15:31 07/09/98  
 ID CODE C00000094 WTA.1000 CAL#1  
 CARBON 0.4323% SULFUR .00019%  
 OXYGEN FLOW 2.881  
 -C- -S-

118  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 413. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9474 0.9529

15:33 07/09/98  
 ID CODE C00000095 WTA.1000 CAL#1  
 CARBON 0.4060% SULFUR .00023%  
 OXYGEN FLOW 3.047  
 -C- -S-

123  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 419. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9766 0.9814

15:34 07/09/98  
 ID CODE C00000096 WTA.1000 CAL#1  
 CARBON 0.4455% SULFUR .00036%  
 OXYGEN FLOW 3.173  
 -C- -S-

128  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 427. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9988 1.0037

15:35 07/09/98  
 ID CODE C00000097 WTA.1000 CAL#1  
 CARBON 0.4134% SULFUR .00040%  
 OXYGEN FLOW 3.214  
 -C- -S-

133  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 395. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0061 1.0110

15:37 07/09/98  
 ID CODE C00000098 WTA.1000 CAL#1  
 CARBON 0.4262% SULFUR .00026%  
 OXYGEN FLOW 3.123  
 -C- -S-

138  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 460. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9900 0.9949

15:38 07/09/98  
 ID CODE C00000099 WTA.1000 CAL#1  
 CARBON 0.4128% SULFUR .00033%  
 OXYGEN FLOW 3.216  
 -C- -S-

143  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 416. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0065 1.0114

\*\*\* CLEANING TIME \*\*\*

15:40 07/09/98  
 ID CODE C00000000 Wt0.1000 CAL#1  
 CARBON 0.4622% SULFUR .00024%  
 OXYGEN FLOW 2.929  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 536. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9542 0.9589

148

15:41 07/09/98  
 ID CODE C00000001 Wt1.0040 CAL#1  
 CARBON 0.8159% SULFUR .00002%  
 OXYGEN FLOW 2.633  
 -C- -S-

Std

0.822

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9781. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9836 0.9880

15:47 07/09/98  
 ID CODE C00000002 Wt0.1000 CAL#1  
 CARBON 12.84% SULFUR .00021%  
 OXYGEN FLOW 2.645  
 -C- -S-

CaO<sub>2</sub>

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 13812. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9857 0.9102

15:48 07/09/98  
 ID CODE C00000003 Wt0.0500 CAL#1  
 CARBON 2.564% SULFUR .00030%  
 OXYGEN FLOW 3.211  
 -C- -S-

WSF<sub>2</sub>

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1143. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0056 1.0104

15:49 07/09/98  
 ID CODE C00000004 Wt0.1000 CAL#1  
 CARBON 0.4115% SULFUR .00054%  
 OXYGEN FLOW 3.085  
 -C- -S-

155

BLANK +.00000 +.00000  
 TIME 41. 30.  
 PEAK 344. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9833 0.9882

15:51 07/09/98  
 ID CODE C00000005 Wt0.1000 CAL#1  
 CARBON 0.3344% SULFUR .00003%  
 OXYGEN FLOW 3.851  
 -C- -S-

158

BLANK +.00000 +.00000  
 TIME 45. 30.  
 PEAK 288. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9774 0.9821

15:52 07/09/98  
 ID CODE C00000006 Wt0.1000 CAL#1  
 CARBON 0.4176% SULFUR .00002%  
 OXYGEN FLOW 2.648  
 -C- -S-

163

BLANK +.00000 +.00000  
 TIME 51. 30.  
 PEAK 352. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9063 0.9107

15:54 07/09/98  
 ID CODE C00000007 Wt0.1000 CAL#1  
 CARBON 0.4278% SULFUR .00040%  
 OXYGEN FLOW 2.515  
 -C- -S-

168

BLANK +.00000 +.00000  
 TIME 41. 30.  
 PEAK 359. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.8831 0.8871

15:55 07/09/98  
 ID CODE C00000008 Wt0.1000 CAL#1  
 CARBON 0.5212% SULFUR .00003%  
 OXYGEN FLOW 3.250  
 -C- -S-

Alan

173

BLANK +.00000 +.00000  
 TIME 44. 30.  
 PEAK 380. 2.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0125 1.0174

15:57 07/09/98  
 ID CODE C00000009 Wt0.1000 CAL#1  
 CARBON 0.5193% SULFUR .00029%  
 OXYGEN FLOW 3.250  
 -C- -S-

Alan

178

BLANK +.00000 +.00000  
 TIME 50. 30.  
 PEAK 324. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0128 1.0174

15:57 07/09/98

ALARM IDENT. #

-----

CPU OVERLOAD 1

O2 FLOW RANGE 1

15:59 07/09/98  
 ID CODE C00000010 Wt0.1000 CAL#1  
 CARBON 0.4650% SULFUR .00020%  
 OXYGEN FLOW 2.689  
 -C- -S-

183

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 416. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9138 0.9180

16:00 07/09/98  
 ID CODE C00000011 WTA.1000 CAL#1  
 CARBON 0.4395% SULFUR .00046%  
 OXYGEN FLOW 3.250  
 -C- -S-  
 188 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 348. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0125 1.0174

16:00 07/09/98

ALARM IDENT.	#
CPU OVERLOAD	1
O2 FLOW RANGE	1

16:01 07/09/98  
 ID CODE C00000012 WTA.1000 CAL#1  
 CARBON 0.4357% SULFUR .00020%  
 OXYGEN FLOW 3.250  
 -C- -S-  
 195 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 372. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0128 1.0174

16:02 07/09/98

ALARM IDENT.	#
CPU OVERLOAD	1
O2 FLOW RANGE	1

16:03 07/09/98  
 ID CODE C00000013 WTA.1000 CAL#1  
 CARBON 0.2981% SULFUR .00035%  
 OXYGEN FLOW 2.659  
 -C- -S-  
 198 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 291. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9084 0.9127

16:04 07/09/98  
 ID CODE C00000014 WTA.9980 CAL#1  
 CARBON 0.8208% SULFUR .00001%  
 OXYGEN FLOW 3.242  
 -C- -S-  
 84  
 0.822 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7716. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0114 1.0160

16:05 07/09/98  
 ID CODE C00000015 WTA.1000 CAL#1  
 CARBON 12.07% SULFUR .00003%  
 OXYGEN FLOW 3.235  
 -C- -S-  
 (CO2) BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 13767. 1.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0101 1.0147

16:07 07/09/98  
 ID CODE C00000016 WTA.0500 CAL#1  
 CARBON 2.529% SULFUR .00050%  
 OXYGEN FLOW 3.190  
 -C- -S-  
 WST2 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1100. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0021 1.0067



09:39 07/10/98  
 ID CODE C00000017 WT0.0990 CAL#1  
 CARBON 12.04% SULFUR .00007%  
 OXYGEN FLOW 3.130

CaCO<sub>3</sub>

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 12591. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9897 0.9961

09:40 07/10/98  
 ID CODE C00000018 WT0.1000 CAL#1  
 CARBON 11.99% SULFUR .00047%  
 OXYGEN FLOW 3.039

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 16399. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9738 0.9800

09:41 07/10/98  
 ID CODE C00000019 WT0.1040 CAL#1  
 CARBON 11.93% SULFUR .00057%  
 OXYGEN FLOW 3.104

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 13388. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9852 0.9915

\*\*\* CLEANING TIME \*\*\*

09:44 07/10/98  
 ID CODE C00000020 WT1.0010 CAL#1  
 CARBON 0.7706% SULFUR .00005%  
 OXYGEN FLOW 2.779

Std  
0,822

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8352. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9279 0.9339

09:46 07/10/98  
 ID CODE C00000021 WT1.0060 CAL#1  
 CARBON 0.8336% SULFUR .00007%  
 OXYGEN FLOW 3.276

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9533. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0155 1.0220

09:47 07/10/98  
 ID CODE C00000022 WT1.0040 CAL#1  
 CARBON 0.8397% SULFUR .00004%  
 OXYGEN FLOW 3.242

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10201. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 1.0095 1.0160

09:48 07/10/98  
 ID CODE C00000023 WT0.9980 CAL#1  
 CARBON 0.8288% SULFUR .00003%  
 OXYGEN FLOW 2.985

Std

0,822

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9821. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9642 0.9704

09:50 07/10/98  
 ID CODE C00000024 WT0.9960 CAL#1  
 CARBON 0.8466% SULFUR .00005%  
 OXYGEN FLOW 3.034

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9098. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9728 0.9791

09:51 07/10/98  
 ID CODE C00000025 WT1.0070 CAL#1  
 CARBON 0.8388% SULFUR .00006%  
 OXYGEN FLOW 2.825

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10230. 0.  
 CALIB. 0.6927 0.8981  
 K FAC. 0.9361 0.9421

\*\*\* STACK CALIBRATION \*\*\*

09:52 07/10/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000025 1.0070 0.8388 .00006  
 C00000024 0.9960 0.8466 .00005  
 C00000023 0.9980 0.8288 .00003  
 C00000022 1.0040 0.8397 .00004  
 C00000021 1.0060 0.8336 .00007  
 C00000020 1.0010 0.7706 .00005  
 C00000019 0.1040 11.93 .00057  
 C00000018 0.1000 11.99 .00047  
 C00000017 0.0990 12.04 .00007  
 C00000016 0.0500 2.529 .00050

CARBON STD.% 00.8220  
 OLD C-CAL -1- 0.6927  
 INCLUDE CARBON  
 C00000025 0.8388  
 C00000024 0.8466  
 C00000023 0.8288  
 C00000022 0.8397  
 C00000021 0.8336  
 NEW C-CAL -1- 0.6799

09:52 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000025	1.0070	0.8233	.00006
C00000024	0.9960	0.8309	.00005
C00000023	0.9980	0.8135	.00003
C00000022	1.0040	0.8242	.00004
C00000021	1.0060	0.8181	.00007
C00000020	1.0010	0.7563	.00005
C00000019	0.1040	11.71	.0005
C00000018	0.1000	11.77	.00047
C00000017	0.0990	11.82	.00007
C00000016	0.0500	2.483	.00051

\*\*\* END CALIBRATION \*\*

09:55 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000026	WT1.0030	0.8254%	.00005%
CARBON			
			OXYGEN FLOW 2.693

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		9761.		0.

CALIB.	0.6799	0.8981
K FAC.	0.9128	0.9186

09:58 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000027	WT0.0980	12.13%	.00055%
CARBON			
			OXYGEN FLOW 2.826

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		15174.		0.

CALIB.	0.6799	0.8981
K FAC.	0.9363	0.9427

09:59 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000028	WT0.0560	3.872%	.00093%
CARBON			
			OXYGEN FLOW 2.848

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		2107.		0.

CALIB.	0.6799	0.8981
K FAC.	0.9401	0.9461

10:01 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000029	WT0.0490	3.815%	.00183%
CARBON			
			OXYGEN FLOW 3.229

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		1615.		0.

CALIB.	0.6799	0.8981
K FAC.	1.0072	1.0137

10:10 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000030	WT0.1000	3.079%	.0023%
CARBON			
			OXYGEN FLOW 2.970

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		2933.		0.

CALIB.	0.6799	0.8981
K FAC.	0.9516	0.9571

10:12 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000031	WT0.1000	6.267%	.00017%
CARBON			
			OXYGEN FLOW 2.789

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 6827. 0.

CALIB. 0.6799 0.8981

K FAC. 0.9303 0.9357

10:13 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000032	WT0.1010	6.621%	.00062%
CARBON			
			OXYGEN FLOW 2.662

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 8293. 0.

CALIB. 0.6799 0.8981

K FAC. 0.9880 0.9137

10:14 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000033	WT0.0990	6.643%	.00052%
CARBON			
			OXYGEN FLOW 2.506

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 6495. 0.

CALIB. 0.6799 0.8981

K FAC. 0.8904 0.8855

10:16 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000034	WT0.1000	6.367%	.00000%
CARBON			
			OXYGEN FLOW 3.118

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 6311. 0.

CALIB. 0.6799 0.8981

K FAC. 0.9883 0.9040

10:17 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000035	WT0.1000	6.330%	.00046%
CARBON			
			OXYGEN FLOW 2.637

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 7129. 0.

CALIB. 0.6799 0.8981

K FAC. 0.9035 0.9080

10:19 07/10/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000036	WT0.0990	9.237%	.00069%
CARBON			
			OXYGEN FLOW 3.250

-C- -S-

BLANK +.00000 +.00000

TIME 40. 30.

PEAK 6957. 0.

CALIB. 0.6799 0.8981

K FAC. 1.0115 1.0174

Alan

233

10:20 07/10/98  
 ID CODE C00000037 Wt0.1000 CAL#1  
 CARBON 7.039% SULFUR .00067%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 238 TIME 40. 30.  
 PEAK 6450. 0  
 CALIB. 0.6799 0.8981  
 K FAC. 1.0180 1.0239

anschließend Reinigung  
 des Druckreglers

10:22 07/10/98  
 ID CODE C00000038 Wt0.1000 CAL#1  
 CARBON 7.045% SULFUR .00003%  
 OXYGEN FLOW 3.271  
 -C- -S-  
 BLANK +.00000 +.00000  
 243 TIME 40. 30.  
 PEAK 8390. 0  
 CALIB. 0.6799 0.8981  
 K FAC. 1.0153 1.0211

10:23 07/10/98  
 ID CODE C00000039 Wt0.1000 CAL#1  
 CARBON 7.371% SULFUR .00004%  
 OXYGEN FLOW 3.242  
 -C- -S-  
 BLANK +.00000 +.00000  
 248 TIME 40. 30.  
 PEAK 6636. 0  
 CALIB. 0.6799 0.8981  
 K FAC. 1.0101 1.0160

\*\*\* CLEANING TIME \*\*\*  
 \*\*\* OUT-SEA BEGUN \*\*\*

10:26 07/10/98  
 ID CODE C00000041 Wt0.1000 CAL#1  
 CARBON 6.707% SULFUR .00071%  
 OXYGEN FLOW 3.240  
 -C- -S-  
 BLANK +.00000 +.00000  
 233 TIME 40. 30.  
 PEAK 6036. 0  
 CALIB. 0.6799 0.8981  
 K FAC. 1.0112 1.0171

10:27 07/10/98  
 ID CODE C00000040 Wt1.0040 CAL#1  
 CARBON 0.8122% SULFUR .00002%  
 OXYGEN FLOW 3.193  
 -C- -S-  
 BLANK +.00000 +.00000  
 081 TIME 40. 30  
 PEAK 9041. 0  
 0,822 CALIB. 0.6799 0.8981  
 K FAC. 1.0015 1.0071

00:00 00/00/00

10:40 07/16/98



## AMBIENT MONITOR

09:14 07/20/98

O2 FLOW	L/MIN	3.276
C. CELL TMP.	C	43.2
S. CELL TMP.	C	48.3
OVEN	TEMP.	35.3
CAT. HTR. TMP.	C	343.7
5 REFF.		5.01
5 VOLT	+	5.00
24 VOLT	+	23.98
30 VOLT	+	29.93
15 VOLT	+/-	14.98
C. EMITR.		5.50
S. EMITR.		5.50
C. IR CELL		8.520
S. IR CELL		8.510

09:20 07/20/98

ID CODE	C00000014	WT0.1030	CAL#1
CARBON	11.37%	SULFUR	.00070%
OXYGEN FLOW	3.105		
	-C-	-S-	
BLANK	+.00000	+.00000	
TIME	40.	30.	
PEAK	16359.	0.	
CALIB.	0.6351	0.8981	
K FAC.	0.9698	0.9922	

CaCO<sub>3</sub>

09:22 07/20/98

ID CODE	C00000015	WT0.1020	CAL#1
CARBON	11.59%	SULFUR	.00023%
OXYGEN FLOW	3.290		
	-C-	-S-	
BLANK	+.00000	+.00000	
TIME	40.	30.	
PEAK	15107.	1.	
CALIB.	0.6351	0.8981	
K FAC.	1.0016	1.0245	

09:23 07/20/98

ID CODE	C00000016	WT0.1000	CAL#1
CARBON	11.74%	SULFUR	.00038%
OXYGEN FLOW	3.287		
	-C-	-S-	
BLANK	+.00000	+.00000	
TIME	40.	30.	
PEAK	14402.	1.	
CALIB.	0.6351	0.8981	
K FAC.	1.0008	1.0239	

09:27 07/20/98

ID CODE	C00000017	WT1.0010	CAL#1
CARBON	0.7801%	SULFUR	.00005%
OXYGEN FLOW	3.285		
	-C-	-S-	

Std	BLANK	+.00000	+.00000
0.822	TIME	40.	30.
	PEAK	9872.	1.
	CALIB.	0.6351	0.8981
	K FAC.	1.0010	1.0236

09:29 07/20/98

ID CODE	C00000018	WT1.0060	CAL#1
CARBON	0.8004%	SULFUR	.00006%
OXYGEN FLOW	3.290		
	-C-	-S-	

BLANK	+.00000	+.00000
TIME	40.	30.
PEAK	10380.	0.
CALIB.	0.6351	0.8981
K FAC.	1.0019	1.0245

\*\*\* CLEANING TIME \*\*\*

09:30 07/20/98

ID CODE	C00000019	WT1.0010	CAL#1
CARBON	0.7929%	SULFUR	.00004%
OXYGEN FLOW	3.282		
	-C-	-S-	

BLANK	+.00000	+.00000
TIME	40.	30.
PEAK	10827.	0.
CALIB.	0.6351	0.8981
K FAC.	1.0005	1.0236

09:31 07/20/98

ID CODE	C00000020	WT1.0030	CAL#1
CARBON	0.7775%	SULFUR	.00004%
OXYGEN FLOW	3.283		
	-C-	-S-	

BLANK	+.00000	+.00000
TIME	40.	30.
PEAK	8714.	1.
CALIB.	0.6351	0.8981
K FAC.	1.0004	1.0233

09:33 07/20/98

ID CODE	C00000021	WT1.0000	CAL#1
CARBON	0.7847%	SULFUR	.00007%
OXYGEN FLOW	3.282		
	-C-	-S-	

BLANK	+.00000	+.00000
TIME	40.	30.
PEAK	8698.	0.
CALIB.	0.6351	0.8981
K FAC.	1.0005	1.0231

09:34 07/20/98

ID CODE	C00000022	WT1.0010	CAL#1
CARBON	0.7886%	SULFUR	.00008%
OXYGEN FLOW	3.280		
	-C-	-S-	

BLANK	+.00000	+.00000
TIME	40.	30.
PEAK	9630.	0.
CALIB.	0.6351	0.8981
K FAC.	1.0008	1.0226

09:37 07/20/98  
 ID CODE C00000023 WT0.0010 CAL#1  
 CARBON 0.7846% SULFUR .00006%  
 OXYGEN FLOW 3.272  
 -C- -S-  
 STD BLANK +.00000 +.00000  
 0,822 TIME 40. 30.  
 PEAK 8296. 1.  
 CALIB. 0.6351 0.8981  
 K FAC. 0.9995 1.0213

\*\*\* STACK CALIBRATION \*\*\*

09:37 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000023 1.0010 0.7846 .00006  
 C00000022 1.0010 0.7886 .00008  
 C00000021 1.0000 0.7847 .00007  
 C00000020 1.0030 0.7775 .00004  
 C00000019 1.0010 0.7929 .00004  
 C00000018 1.0060 0.8004 .00006  
 C00000017 1.0010 0.7881 .00005  
 C00000016 0.1000 11.74 .00038  
 C00000015 0.1020 11.59 .00023  
 C00000014 0.1030 11.37 .00070

CARBON STD.% 00.8220  
 OLD C-CAL -1- 0.6351  
 INCLUDE CARBON  
 C00000023 0.7846  
 C00000022 0.7886  
 C00000021 0.7847  
 C00000020 0.7775  
 C00000019 0.7929  
 NEW C-CAL -1- 0.6645

09:38 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000023 1.0010 0.8209 .00006  
 C00000022 1.0010 0.8251 .00008  
 C00000021 1.0000 0.8210 .00007  
 C00000020 1.0030 0.8135 .00004  
 C00000019 1.0010 0.8295 .00004  
 C00000018 1.0060 0.8374 .00006  
 C00000017 1.0010 0.8246 .00005  
 C00000016 0.1000 12.29 .00038  
 C00000015 0.1020 12.13 .00023  
 C00000014 0.1030 11.90 .00070

\*\*\* END CALIBRATION \*\*\*

09:39 07/20/98  
 ID CODE C00000024 WT0.9980 CAL#1  
 CARBON 0.8229% SULFUR .00002%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 STD BLANK +.00000 +.00000  
 0,822 TIME 40. 30.  
 PEAK 9083. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0012 1.0231

\*\*\* OUT-SEQ BEGUN \*\*\*  
 09:48 07/20/98  
 ID CODE C00000036 WT0.1010 CAL#1  
 CARBON 11.96% SULFUR .00037%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 CaCO<sub>3</sub> BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15072. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0032 1.0250  
 \*\*\* OUT-SEQ BEGUN \*\*\*

09:50 07/20/98  
 ID CODE C00000037 WT0.0490 CAL#1  
 CARBON 3.892% SULFUR .00101%  
 OXYGEN FLOW 3.289  
 -C- -S-  
 WST2 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2102. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0033 1.0248

09:52 07/20/98  
 ID CODE C00000025 WT0.1000 CAL#1  
 CARBON 3.196% SULFUR .00024%  
 OXYGEN FLOW 3.285  
 -C- -S-  
 203c BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4388. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0023 1.0236

09:53 07/20/98  
 ID CODE C00000026 WT0.1010 CAL#1  
 CARBON 6.359% SULFUR .00037%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 208 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7976. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0018 1.0231

09:54 07/20/98  
 ID CODE C00000027 WT0.1010 CAL#1  
 CARBON 6.385% SULFUR .00045%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 213 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6508. 1.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0018 1.0231

09:56 07/20/98  
 ID CODE C00000028 WT0.1000 CAL#1  
 CARBON 6.640% SULFUR .00073%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 218 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6487. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0021 1.0231

09:57 07/20/98  
 ID CODE C00000029 WT0.1010 CAL#1  
 CARBON 6.329% SULFUR .00031%  
 OXYGEN FLOW 3.281  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6715. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0022 1.0229

223

09:58 07/20/98  
 ID CODE C00000030 WT0.0990 CAL#1  
 CARBON 6.454% SULFUR .00058%  
 OXYGEN FLOW 3.279  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6600. 1.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0018 1.0230

228

10:00 07/20/98  
 ID CODE C00000031 WT0.1000 CAL#1  
 CARBON 6.819% SULFUR .00028%  
 OXYGEN FLOW 3.276  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7151. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0010 1.0220

233

10:01 07/20/98  
 ID CODE C00000032 WT0.1010 CAL#1  
 CARBON 7.424% SULFUR .00044%  
 OXYGEN FLOW 3.279  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8216. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0015 1.0225

238

10:02 07/20/98  
 ID CODE C00000033 WT0.0990 CAL#1  
 CARBON 7.324% SULFUR .00023%  
 OXYGEN FLOW 3.279  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9203. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0018 1.0225

243

10:04 07/20/98  
 ID CODE C00000034 WT0.1000 CAL#1  
 CARBON 7.676% SULFUR .00069%  
 OXYGEN FLOW 3.277  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9229. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0015 1.0222

248

10:05 07/20/98  
 ID CODE C00000035 WT0.9980 CAL#1  
 CARBON 0.8307% SULFUR .00007%  
 OXYGEN FLOW 3.274  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9997. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0010 1.0216

StA

0.822

10:07 07/20/98  
 ID CODE C00000038 WT1.0010 CAL#1  
 CARBON 0.8366% SULFUR .00003%  
 OXYGEN FLOW 3.271  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9865. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0005 1.0211  
 \*\*\* CLEANING TIME \*\*\*

4

10:10 07/20/98  
 ID CODE C00000039 WT1.0050 CAL#1  
 CARBON 0.8300% SULFUR .00005%  
 OXYGEN FLOW 3.271  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9159. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0005 1.0211

4

10:11 07/20/98  
 ID CODE C00000040 WT1.0010 CAL#1  
 CARBON 0.8371% SULFUR .00006%  
 OXYGEN FLOW 3.272  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9722. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0013 1.0213

4

10:13 07/20/98  
 ID CODE C00000041 WT1.0020 CAL#1  
 CARBON 0.8325% SULFUR .00005%  
 OXYGEN FLOW 3.270  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9811. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0009 1.0209

4

\*\*\* STACK CALIBRATION \*\*\*

10:13 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000041 1.0020 0.8325 .00005  
 C00000040 1.0010 0.8371 .00006  
 C00000039 1.0050 0.8300 .00005  
 C00000038 1.0010 0.8366 .00003  
 C00000035 0.9980 0.8307 .00007  
 C00000034 0.1000 7.676 .00069  
 C00000033 0.0990 7.324 .00023  
 C00000032 0.1010 7.424 .00044  
 C00000031 0.1000 6.819 .00028  
 C00000030 0.0970 6.454 .00058



CARBON STD. % 00.8220  
 OLD C-CAL -1- 0.6645  
 INCLUDE CARBON  
 C00000041 0.8325  
 C00000040 0.8371  
 C00000039 0.8300  
 C00000038 0.8366  
 C00000035 0.8307  
 NEW C-CAL -1- 0.6555

10:14 07/20/98

ID CODE WEIGHT CARBON% SULFUR%  
 C00000041 1.0020 0.8211 .00005  
 C00000040 1.0010 0.8257 .00006  
 C00000039 1.0050 0.8187 .00005  
 C00000038 1.0010 0.8252 .00003  
 C00000035 0.9980 0.8194 .00007  
 C00000034 0.1000 7.572 .00069  
 C00000033 0.0990 7.225 .00023  
 C00000032 0.1010 7.323 .00044  
 C00000031 0.1000 6.726 .00028  
 C00000030 0.0990 6.366 .00058  
 \*\*\* END CALIBRATION \*\*\*

10:15 07/20/98

ID CODE C00000042 WT0.9980 CAL#1  
 CARBON 0.8200% SULFUR .00004%  
 OXYGEN FLOW 3.273  
 -C- -S-

Std  
0.822

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10571. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0011 1.0214

10:25 07/20/98

ID CODE C00000043 WT0.1000 CAL#1  
 CARBON 11.67% SULFUR .00033%  
 OXYGEN FLOW 3.281  
 -C- -S-

CaCO3

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14061. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0040 1.0229

10:27 07/20/98

ID CODE C00000044 WT0.0500 CAL#1  
 CARBON 3.735% SULFUR .00003%  
 OXYGEN FLOW 3.277  
 -C- -S-

WST2

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1067. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0036 1.0222

\*\*\* OUT-SEQ BEGIN \*\*\*

10:29 07/20/98

ID CODE C00000056 WT1.0030 CAL#1  
 CARBON 0.8192% SULFUR .00004%  
 OXYGEN FLOW 3.273  
 -C- -S-

Std  
0.822

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9075. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0029 1.0220

\*\*\* OUT-SEQ BEGIN \*\*\*  
10:31 07/20/98

ID CODE C00000057 WT0.0980 CAL#1  
 CARBON 11.76% SULFUR .00068%  
 OXYGEN FLOW 3.278  
 -C- -S-

CaCO3

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15687. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0038 1.0223

\*\*\* OUT-SEQ BEGIN \*\*\*  
10:33 07/20/98

ID CODE C00000058 WT0.0510 CAL#1  
 CARBON 4.008% SULFUR .00026%  
 OXYGEN FLOW 3.275  
 -C- -S-

WST2

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2092. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0038 1.0218

10:34 07/20/98

ID CODE C00000045 WT0.0990 CAL#1  
 CARBON 6.935% SULFUR .00060%  
 OXYGEN FLOW 3.276  
 -C- -S-

253

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7333. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0040 1.0220

10:36 07/20/98

ID CODE C00000046 WT0.1010 CAL#1  
 CARBON 7.152% SULFUR .00022%  
 OXYGEN FLOW 3.273  
 -C- -S-

258

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7157. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0035 1.0214

10:37 07/20/98

ID CODE C00000047 WT0.1010 CAL#1  
 CARBON 6.526% SULFUR .00049%  
 OXYGEN FLOW 3.275  
 -C- -S-

263

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7006. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0030 1.0218

10:38 07/20/98

ID CODE C00000048 WT0.1010 CAL#1  
 CARBON 6.270% SULFUR .00054%  
 OXYGEN FLOW 3.270  
 -C- -S-

268

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6014. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0030 1.0209

10:40 07/20/98  
 ID CODE C00000049 Wt0.1000 CAL#1  
 CARBON 6.919% SULFUR .00061%  
 OXYGEN FLOW 3.272  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7476. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0034 1.0213

273

10:41 07/20/98  
 ID CODE C00000050 Wt0.1010 CAL#1  
 CARBON 7.123% SULFUR .00056%  
 OXYGEN FLOW 3.273  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7923. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0035 1.0214

278

10:42 07/20/98  
 ID CODE C00000051 Wt0.1020 CAL#1  
 CARBON 6.960% SULFUR .00010%  
 OXYGEN FLOW 3.274  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8036. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0043 1.0216

283

10:44 07/20/98  
 ID CODE C00000052 Wt0.1010 CAL#1  
 CARBON 6.900% SULFUR .00068%  
 OXYGEN FLOW 3.268  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6718. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0032 1.0206

288

10:45 07/20/98  
 ID CODE C00000053 Wt0.1000 CAL#1  
 CARBON 6.787% SULFUR .00007%  
 OXYGEN FLOW 3.264  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6939. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0026 1.0199

293

10:46 07/20/98  
 ID CODE C00000054 Wt0.0980 CAL#1  
 CARBON 6.763% SULFUR .00004%  
 OXYGEN FLOW 3.268  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6600. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0032 1.0206

298

10:47 07/20/98  
 ID CODE C00000055 Wt1.0030 CAL#1  
 CARBON 0.8096% SULFUR .00002%  
 OXYGEN FLOW 3.265  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8853. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0027 1.0201  
 \*\*\* CLEANING TIME \*\*\*

S4

0.822

10:50 07/20/98  
 ID CODE C00000059 Wt0.9980 CAL#1  
 CARBON 0.8107% SULFUR .00000%  
 OXYGEN FLOW 3.265  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10425. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0034 1.0201

4

10:52 07/20/98  
 ID CODE C00000060 Wt0.9980 CAL#1  
 CARBON 0.8092% SULFUR .00007%  
 OXYGEN FLOW 3.269  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9311. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0043 1.0213

4

10:54 07/20/98  
 ID CODE C00000061 Wt1.0010 CAL#1  
 CARBON 0.7803% SULFUR .00000%  
 OXYGEN FLOW 3.271  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10932. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0044 1.0211

4

10:55 07/20/98  
 ID CODE C00000062 Wt0.9980 CAL#1  
 CARBON 0.8034% SULFUR .00001%  
 OXYGEN FLOW 3.272  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10013. 0.  
 CALIB. 0.6555 0.8981  
 K FAC. 1.0046 1.0219

\*\*\* STOCK CALIBRATION \*\*\*

10:56 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000062 0.9980 0.8004 .00001  
 C00000061 1.0010 0.7803 .00000  
 C00000060 0.9980 0.8092 .00007  
 C00000059 0.9980 0.8107 .00008  
 C00000055 1.0030 0.8096 .00002  
 C00000054 0.0930 6.763 .00004  
 C00000053 0.1000 6.787 .00007  
 C00000052 0.1010 6.900 .00068  
 C00000051 0.1020 6.960 .00010  
 C00000050 0.1010 7.123 .00056

CARBON STD. % 00.8220  
 OLD C-CAL -1- 0.6555  
 INCLUDE CARBON  
 000000062 0.8084  
 000000060 0.8092  
 000000059 0.8107  
 000000055 0.8096  
 NEW C-CAL -1- 0.6656

10:56 07/20/98

ID CODE WEIGHT CARBON% SULFUR%  
 000000062 0.9980 0.8209 .00001  
 000000061 1.0010 0.7924 -.00000  
 000000060 0.9980 0.8218 .00007  
 000000059 0.9980 0.8233 .00008  
 000000055 1.0030 0.8221 .00002  
 000000054 0.0980 6.868 .00084  
 000000053 0.1000 6.892 .00087  
 000000052 0.1010 7.006 .00068  
 000000051 0.1020 7.068 .00010  
 000000050 0.1010 7.233 .00056

\*\*\* END CALIBRATION \*\*\*

10:58 07/20/98

ID CODE 000000063 WT0.0040 CAL#1  
 CARBON 0.8246% SULFUR .00007%  
 OXYGEN FLOW 3.274  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10725. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0055 1.0216

Std  
0.822

11:07 07/20/98

ID CODE 000000064 WT0.1000 CAL#1  
 CARBON 12.00% SULFUR .00006%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15557. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0071 1.0233

CaCO3

11:08 07/20/98

ID CODE 000000065 WT0.0500 CAL#1  
 CARBON 3.903% SULFUR .00053%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1851. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0083 1.0245

WSTZ

11:10 07/20/98

ID CODE 000000066 WT0.1000 CAL#1  
 CARBON 6.636% SULFUR .00079%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7462. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0078 1.0239

303

11:11 07/20/98

ID CODE 000000067 WT0.1000 CAL#1  
 CARBON 5.968% SULFUR .00061%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6124. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0074 1.0239

308

11:12 07/20/98

ID CODE 000000068 WT0.1000 CAL#1  
 CARBON 6.325% SULFUR .00073%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7542. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0078 1.0239

313

11:14 07/20/98

ID CODE 000000069 WT0.1000 CAL#1  
 CARBON 6.326% SULFUR .00073%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7532. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0084 1.0239

318

11:15 07/20/98

ID CODE 000000070 WT0.1000 CAL#1  
 CARBON 5.856% SULFUR .00067%  
 OXYGEN FLOW 3.285  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5998. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0081 1.0236

323

11:16 07/20/98

ID CODE 000000071 WT0.1010 CAL#1  
 CARBON 4.929% SULFUR .00069%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6761. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0075 1.0231

328

11:17 07/20/98

ID CODE 000000072 WT0.1010 CAL#1  
 CARBON 4.036% SULFUR .00049%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4867. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0075 1.0231

333



11:19 07/20/98  
 ID CODE C00000073 WT0.8990 CAL#1  
 CARBON 4.316% SULFUR .00050%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 338 TIME 40. 30.  
 PEAK 5005. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0075 1.0231

11:20 07/20/98  
 ID CODE C00000074 WT0.1020 CAL#1  
 CARBON 5.020% SULFUR .00071%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 343 TIME 40. 30.  
 PEAK 5626. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0075 1.0231

11:22 07/20/98  
 ID CODE C00000075 WT0.1030 CAL#1  
 CARBON 3.175% SULFUR .00000%  
 OXYGEN FLOW 3.279  
 -C- -S-  
 BLANK +.00000 +.00000  
 348 TIME 40. 30.  
 PEAK 3298. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0070 1.0225

11:23 07/20/98  
 ID CODE C00000076 WT1.0030 CAL#1  
 CARBON 0.8424% SULFUR .00000%  
 OXYGEN FLOW 3.278  
 -C- -S-  
 BLANK +.00000 +.00000  
 SH TIME 40. 30.  
 0.822 PEAK 9872. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0068 1.0223

11:26 07/20/98  
 ID CODE C00000077 WT0.9940 CAL#1  
 CARBON 0.8371% SULFUR .00009%  
 OXYGEN FLOW 3.277  
 -C- -S-  
 BLANK +.00000 +.00000  
 h TIME 40. 30.  
 PEAK 9179. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0067 1.0222

11:27 07/20/98  
 ID CODE C00000078 WT1.0050 CAL#1  
 CARBON 0.8396% SULFUR .00000%  
 OXYGEN FLOW 3.277  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9720. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0067 1.0222

\*\*\* CLEANING TIME \*\*\*

11:30 07/20/98  
 ID CODE C00000079 WT1.0070 CAL#1  
 CARBON 0.8402% SULFUR .00000%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 SH TIME 40. 30.  
 0.822 PEAK 10464. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0081 1.0231

11:31 07/20/98  
 ID CODE C00000080 WT1.0080 CAL#1  
 CARBON 0.8317% SULFUR .00007%  
 OXYGEN FLOW 3.279  
 -C- -S-  
 BLANK +.00000 +.00000  
 L TIME 40. 30.  
 PEAK 9750. 0.  
 CALIB. 0.6656 0.8981  
 K FAC. 1.0081 1.0230

\*\*\* STACK CALIBRATION \*\*\*

11:31 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000080 1.0080 0.8317 .00007  
 C00000079 1.0070 0.8402 .00000  
 C00000078 1.0050 0.8396 .00000  
 C00000077 0.9940 0.8371 .00009  
 C00000076 1.0030 0.8424 .00000  
 C00000075 0.1030 3.175 .00000  
 C00000074 0.1020 5.020 .00071  
 C00000073 0.0990 4.316 .00050  
 C00000072 0.1010 4.036 .00049  
 C00000071 0.1010 4.929 .00069

CARBON STD. % 00.8220  
 OLD C-CAL -1- 0.6656  
 INCLUDE CARBON  
 C00000080 0.8317  
 C00000079 0.8402  
 C00000078 0.8396  
 C00000077 0.8371  
 C00000076 0.8424  
 NEW C-CAL -1- 0.6527

11:32 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000080 1.0080 0.8156 .00007  
 C00000079 1.0070 0.8239 .00000  
 C00000078 1.0050 0.8233 .00000  
 C00000077 0.9940 0.8209 .00009  
 C00000076 1.0030 0.8261 .00000  
 C00000075 0.1030 3.113 .00000  
 C00000074 0.1020 4.923 .00071  
 C00000073 0.0990 4.232 .00050  
 C00000072 0.1010 3.958 .00049  
 C00000071 0.1010 4.834 .00069  
 \*\*\* END CALIBRATION \*\*\*

11:33 07/20/98  
 ID CODE C000000081 MT1.0040 CAL#1  
 CARBON 0.8038% SULFUR .00007%  
 OXYGEN FLOW 3.279  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9399. 0.  
 CALIB. 0.6527 0.8981  
 K FAC. 1.0081 1.0225

Std  
 0.822

11:36 07/20/98  
 ID CODE C000000082 MT1.0070 CAL#1  
 CARBON 0.8144% SULFUR .00003%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9953. 0.  
 CALIB. 0.6527 0.8981  
 K FAC. 1.0082 1.0233

11:38 07/20/98  
 ID CODE C000000083 MT1.0080 CAL#1  
 CARBON 0.8117% SULFUR .00008%  
 OXYGEN FLOW 3.284  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9869. 0.  
 CALIB. 0.6527 0.8981  
 K FAC. 1.0090 1.0234

11:40 07/20/98  
 ID CODE C000000084 MT1.0050 CAL#1  
 CARBON 0.8190% SULFUR .00009%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9137. 0.  
 CALIB. 0.6527 0.8981  
 K FAC. 1.0089 1.0238

11:42 07/20/98  
 ID CODE C000000085 MT1.0000 CAL#1  
 CARBON 0.8265% SULFUR .00000%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9441. 0.  
 CALIB. 0.6527 0.8981  
 K FAC. 1.0087 1.0236

11:43 07/20/98  
 ID CODE C000000086 MT0.9980 CAL#1  
 CARBON 0.8163% SULFUR .00007%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9483. 0.  
 CALIB. 0.6527 0.8981  
 K FAC. 1.0089 1.0233

11:46 07/20/98  
 ID CODE C000000087 MT1.0040 CAL#1  
 CARBON 0.8183% SULFUR .00008%  
 OXYGEN FLOW 3.281  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10094. 0.  
 CALIB. 0.6527 0.8981  
 K FAC. 1.0085 1.0229

\*\*\* STACK CALIBRATION \*\*\*

11:46 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C000000087 1.0040 0.8183 .00008  
 C000000086 0.9980 0.8163 .00009  
 C000000085 1.0000 0.8265 .00000  
 C000000084 1.0050 0.8190 .00009  
 C000000083 1.0080 0.8117 .00008  
 C000000082 1.0070 0.8144 .00008  
 C000000081 1.0040 0.8058 .00007  
 C000000080 1.0080 0.8156 .00007  
 C000000079 1.0070 0.8239 .00008  
 C000000078 1.0050 0.8233 .00008

CARBON STD.% 00.8220  
 OLD C-CAL -1- 0.6527  
 INCLUDE CARBON  
 C000000087 0.8183  
 C000000086 0.8163  
 C000000085 0.8265  
 C000000084 0.8190  
 C000000083 0.8117  
 C000000082 0.8144  
 NEW C-CAL -1- 0.6561

11:47 07/20/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C000000087 1.0040 0.8225 .00008  
 C000000086 0.9980 0.8206 .00009  
 C000000085 1.0000 0.8309 .00000  
 C000000084 1.0050 0.8233 .00009  
 C000000083 1.0080 0.8159 .00008  
 C000000082 1.0070 0.8187 .00008  
 C000000081 1.0040 0.8100 .00007  
 C000000080 1.0080 0.8198 .00007  
 C000000079 1.0070 0.8283 .00008  
 C000000078 1.0050 0.8276 .00008

\*\*\* END CALIBRATION \*\*\*

11:49 07/20/98  
 ID CODE C000000088 MT0.9980 CAL#1  
 CARBON 0.8180% SULFUR .00001%  
 OXYGEN FLOW 3.283  
 -C- -S-

Std  
 0.822

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9570. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0089 1.0233

11:50 07/20/98  
 ID CODE C00000089 WTA.0990 CAL#1  
 CARBON 11.88% SULFUR .00091%  
 OXYGEN FLOW 3.289

CaCO<sub>3</sub>

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 16835. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0099 1.0243

11:53 07/20/98  
 ID CODE C00000090 WTA.0530 CAL#1  
 CARBON 3.887% SULFUR .00065%  
 OXYGEN FLOW 3.291

WST2

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2170. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0103 1.0247

12:03 07/20/98  
 ID CODE C00000091 WTA.1030 CAL#1  
 CARBON 3.222% SULFUR .00065%  
 OXYGEN FLOW 3.294

353

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4153. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0107 1.0257

12:04 07/20/98  
 ID CODE C00000092 WTA.1030 CAL#1  
 CARBON 2.815% SULFUR .00054%  
 OXYGEN FLOW 3.291

358

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 3813. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0103 1.0247

12:06 07/20/98  
 ID CODE C00000093 WTA.0990 CAL#1  
 CARBON 3.231% SULFUR .00050%  
 OXYGEN FLOW 3.287

363

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4096. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0095 1.0239

12:07 07/20/98  
 ID CODE C00000094 WTA.1030 CAL#1  
 CARBON 2.983% SULFUR .00047%  
 OXYGEN FLOW 3.287

368

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4060. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0095 1.0239

12:08 07/20/98  
 ID CODE C00000095 WTA.1010 CAL#1  
 CARBON 4.180% SULFUR .00063%  
 OXYGEN FLOW 3.286

373

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5129. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0093 1.0237

12:09 07/20/98  
 ID CODE C00000096 WTA.1000 CAL#1  
 CARBON 4.674% SULFUR .00000%  
 OXYGEN FLOW 3.287

378

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5253. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0095 1.0239

12:11 07/20/98  
 ID CODE C00000097 WTA.1000 CAL#1  
 CARBON 5.503% SULFUR .00073%  
 OXYGEN FLOW 3.288

383

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5707. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0097 1.0247

12:12 07/20/98  
 ID CODE C00000098 WTA.1000 CAL#1  
 CARBON 5.648% SULFUR .00074%  
 OXYGEN FLOW 3.289

388

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6337. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0099 1.0248

\*\*\* CLEANING TIME \*\*\*

12:14 07/20/98  
 ID CODE C00000099 WTA.0990 CAL#1  
 CARBON 5.625% SULFUR .00077%  
 OXYGEN FLOW 3.289

393

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5292. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0099 1.0243

12:15 07/20/98  
 ID CODE C00000000 WTA.1000 CAL#1  
 CARBON 6.152% SULFUR .00079%  
 OXYGEN FLOW 3.284

398

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6216. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0090 1.0234

12:16 07/20/98  
 ID CODE C00000001 WTA.0030 CAL#1  
 CARBON 0.8260% SULFUR .00005%  
 OXYGEN FLOW 3.281

394

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9514. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0085 1.0229



## AMBIENT MONITOR

07:49 07/31/98

O2 FLOW	L/MIN	3.316
C. CELL TMP.	C	51.2
S. CELL TMP.	C	48.3
OVEN	TMP.	48.5
CAT. HTR. TMP.	C	341.5
5 REFF.		5.00
5 VOLT	+	4.99
24 VOLT	+	23.99
30 VOLT	+	29.97
15 VOLT	+/-	14.99
C. EMITR.		5.50
S. EMITR.		5.50
C. IR CELL		8.558
S. IR CELL		8.509

07:55 07/31/98

ID CODE C00000002 WT0.0990 CAL#1  
 CARBON 11.98% SULFUR .00049%  
 OXYGEN FLOW 3.300

CaCO<sub>3</sub>

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		12340.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0276		1.0268

07:56 07/31/98

ID CODE C00000003 WT0.1030 CAL#1  
 CARBON 11.28% SULFUR .00042%  
 OXYGEN FLOW 3.301

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		13096.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0278		1.0264

07:58 07/31/98

ID CODE C00000004 WT0.1000 CAL#1  
 CARBON 11.74% SULFUR .00073%  
 OXYGEN FLOW 3.302

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		12190.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0280		1.0272

07:59 07/31/98

ID CODE C00000005 WT0.1000 CAL#1  
 CARBON 11.49% SULFUR .00040%  
 OXYGEN FLOW 3.301

-C- -S-

CaCO<sub>3</sub>

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		13260.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0275		1.0270

08:01 07/31/98

ID CODE C00000006 WT1.0020 CAL#1  
 CARBON 0.7901% SULFUR .00004%  
 OXYGEN FLOW 3.293

-C- -S-

Std

0.822

BLANK	+	.00000	+	.00000
TIME		41.		30.
PEAK		6101.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0260		1.0250

08:02 07/31/98

ID CODE C00000007 WT1.0020 CAL#1  
 CARBON 0.8085% SULFUR .00008%  
 OXYGEN FLOW 3.293

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		9317.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0260		1.0250

08:03 07/31/98

ID CODE C00000008 WT1.0050 CAL#1  
 CARBON 0.8011% SULFUR .00001%  
 OXYGEN FLOW 3.296

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		8097.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0270		1.0264

08:05 07/31/98

ID CODE C00000009 WT1.0010 CAL#1  
 CARBON 0.7987% SULFUR .00007%  
 OXYGEN FLOW 3.204

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		7979.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0262		1.0251

08:06 07/31/98

ID CODE C00000010 WT0.9990 CAL#1  
 CARBON 0.8088% SULFUR .00003%  
 OXYGEN FLOW 3.206

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		7315.		0.
CALIB.		0.6561		0.8981
K FAC.		1.0266		1.0261

08:07 07/31/98  
 ID CODE C00000011 WT0.9980 CAL#1  
 CARBON 0.8059% SULFUR .00009%  
 OXYGEN FLOW 3.296  
 -C- -S-  
 BLANK +.00000 +.00000  
 Std  
 0.822  
 TIME 40. 30.  
 PEAK 9551. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0266 1.0261

08:11 07/31/98  
 ID CODE C00000012 WT1.0020 CAL#1  
 CARBON 0.8055% SULFUR .00006%  
 OXYGEN FLOW 3.296  
 -C- -S-  
 BLANK +.00000 +.00000  
 h  
 TIME 40. 30.  
 PEAK 9767. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0266 1.0261

08:12 07/31/98  
 ID CODE C00000013 WT1.0010 CAL#1  
 CARBON 0.8068% SULFUR .00002%  
 OXYGEN FLOW 3.293  
 -C- -S-  
 BLANK +.00000 +.00000  
 h  
 TIME 40. 30.  
 PEAK 9859. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0260 1.0250

08:13 07/31/98  
 ID CODE C00000014 WT0.9980 CAL#1  
 CARBON 0.8069% SULFUR .00004%  
 OXYGEN FLOW 3.293  
 -C- -S-  
 BLANK +.00000 +.00000  
 h  
 TIME 40. 30.  
 PEAK 8886. 0.  
 CALIB. 0.6561 0.8981  
 K FAC. 1.0260 1.0255

\*\*\* STACK CALIBRATION \*\*\*

08:14 07/31/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000014 0.9980 0.8069 .00004  
 C00000013 1.0010 0.8068 .00002  
 C00000012 1.0000 0.8055 .00006  
 C00000011 0.9980 0.8059 .00007  
 C00000010 0.9990 0.8088 .00003  
 C00000009 1.0010 0.7887 .00007  
 C00000008 1.0050 0.8011 .00001  
 C00000007 1.0020 0.8085 .00008  
 C00000006 1.0020 0.7901 .00004  
 C00000005 0.1000 11.49 .00040

CARBON STD.% 80.8220  
 OLD C-CAL -1- 0.6561  
 INCLUDE CARBON  
 C00000014 0.8069  
 C00000013 0.8068  
 C00000012 0.8055  
 C00000011 0.8059  
 C00000010 0.8088  
 NEW C-CAL -1- 0.6685

08:14 07/31/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000014 0.9980 0.8222 .00004  
 C00000013 1.0010 0.8220 .00002  
 C00000012 1.0000 0.8208 .00006  
 C00000011 0.9980 0.8211 .00009  
 C00000010 0.9990 0.8241 .00003  
 C00000009 1.0010 0.8036 .00007  
 C00000008 1.0050 0.8162 .00001  
 C00000007 1.0020 0.8238 .00008  
 C00000006 1.0020 0.8050 .00004  
 C00000005 0.1000 11.71 .00040

\*\*\* END CALIBRATION \*\*\*

08:16 07/31/98  
 ID CODE C00000015 WT1.0020 CAL#1  
 CARBON 0.8217% SULFUR .00004%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.00000 +.00000  
 Std  
 0.822  
 TIME 40. 30.  
 PEAK 9265. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0270 1.0259

08:22 07/31/98  
 ID CODE C00000016 WT0.1010 CAL#1  
 CARBON 11.59% SULFUR .00012%  
 OXYGEN FLOW 3.302  
 -C- -S-  
 BLANK +.00000 +.00000  
 CaCO<sub>3</sub>  
 TIME 40. 30.  
 PEAK 12409. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0276 1.0266  
 \*\*\* OUT-SEQ BEGIN \*\*\*

08:24 07/31/98  
 ID CODE C00000020 WT0.0580 CAL#1  
 CARBON 3.868% SULFUR .00018%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.00000 +.00000  
 WST2  
 TIME 40. 30.  
 PEAK 2192. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0270 1.0259

08:25 07/31/98  
 ID CODE C00000017 WT0.0500 CAL#1  
 CARBON 2.531% SULFUR .00083%  
 OXYGEN FLOW 3.297  
 -C- -S-  
 BLANK +.00000 +.00000  
 WST2  
 TIME 40. 30.  
 PEAK 904. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0267 1.0262  
 \*\*\* CLEANING TIME \*\*\*

08:27 07/31/98  
 ID CODE C00000018 WT0.1000 CAL#1  
 CARBON 0.1233% SULFUR .00033%  
 OXYGEN FLOW 3.297  
 -C- -S-  
 BLANK +.00000 +.00000  
 203<  
 TIME 40. 30.  
 PEAK 96. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0267 1.0262

Copy

08:28 07/31/98  
 ID CODE C00000019 Wt0.1000 CAL#1  
 CARBON 0.4508% SULFUR .00013%  
 OXYGEN FLOW 3.295  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 408. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0264 1.0253

208

08:29 07/31/98  
 ID CODE C00000020 Wt0.1000 CAL#1  
 CARBON 0.4472% SULFUR .00066%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 372. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0270 1.0259

213

08:31 07/31/98  
 ID CODE C00000021 Wt0.1000 CAL#1  
 CARBON 0.4940% SULFUR .00040%  
 OXYGEN FLOW 3.297  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 412. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0267 1.0257

218

08:32 07/31/98  
 ID CODE C00000022 Wt0.1000 CAL#1  
 CARBON 0.4961% SULFUR .00016%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 42. 30.  
 PEAK 440. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0270 1.0264

223

08:34 07/31/98  
 ID CODE C00000023 Wt0.1000 CAL#1  
 CARBON 0.5309% SULFUR .00057%  
 OXYGEN FLOW 3.297  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 444. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0267 1.0257

228

08:35 07/31/98  
 ID CODE C00000024 Wt0.1000 CAL#1  
 CARBON 0.4454% SULFUR .00015%  
 OXYGEN FLOW 3.292  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 436. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0259 1.0254

233

08:36 07/31/98  
 ID CODE C00000025 Wt0.1000 CAL#1  
 CARBON 0.3968% SULFUR .00022%  
 OXYGEN FLOW 3.292  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 376. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0259 1.0248

238

08:38 07/31/98  
 ID CODE C00000026 Wt0.1000 CAL#1  
 CARBON 0.4263% SULFUR .00019%  
 OXYGEN FLOW 3.293  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 44. 30.  
 PEAK 316. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0260 1.0259

243

08:39 07/31/98  
 ID CODE C00000027 Wt0.1000 CAL#1  
 CARBON 0.4070% SULFUR .00024%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 344. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0255 1.0250

248

08:40 07/31/98  
 ID CODE C00000028 Wt0.9960 CAL#1  
 CARBON 0.8236% SULFUR .00004%  
 OXYGEN FLOW 3.294  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 966.5. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0262 1.0251

Std  
0.822

08:46 07/31/98  
 ID CODE C00000030 Wt0.1010 CAL#1  
 CARBON 12.10% SULFUR .00020%  
 OXYGEN FLOW 3.299  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15021. 1.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0272 1.0261

CaCO<sub>3</sub>

08:48 07/31/98  
 ID CODE C00000031 Wt0.0500 CAL#1  
 CARBON 2.556% SULFUR .00095%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1164. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0270 1.0259

WST2



08:49 07/31/98  
 ID CODE C00000032 WTA.1000 CAL#1  
 CARBON 0.3775% SULFUR .00023%  
 OXYGEN FLOW 3.297  
 -C- -S-  
 253 BLANK +.00000 +.00000  
 TIME 44. 30.  
 PEAK 304. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0267 1.0257

08:51 07/31/98  
 ID CODE C00000033 WTA.1000 CAL#1  
 CARBON 0.3979% SULFUR .00010%  
 OXYGEN FLOW 3.294  
 -C- -S-

258 BLANK +.00000 +.00000  
 TIME 43. 30.  
 PEAK 305. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0262 1.0257

08:52 07/31/98  
 ID CODE C00000034 WTA.1000 CAL#1  
 CARBON 0.4023% SULFUR .00013%  
 OXYGEN FLOW 3.295  
 -C- -S-

263 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 324. 1.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0264 1.0259

08:54 07/31/98  
 ID CODE C00000035 WTA.1000 CAL#1  
 CARBON 0.3891% SULFUR .00038%  
 OXYGEN FLOW 3.295  
 -C- -S-

268 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 356. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0264 1.0259

08:55 07/31/98  
 ID CODE C00000036 WTA.1000 CAL#1  
 CARBON 0.3995% SULFUR .00055%  
 OXYGEN FLOW 3.297  
 -C- -S-

273 BLANK +.00000 +.00000  
 TIME 47. 30.  
 PEAK 348. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0267 1.0257

08:57 07/31/98  
 ID CODE C00000037 WTA.1000 CAL#1  
 CARBON 0.4232% SULFUR .00015%  
 OXYGEN FLOW 3.293  
 -C- -S-

278 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 387. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0260 1.0250

08:58 07/31/98  
 ID CODE C00000038 WTA.1000 CAL#1  
 CARBON 0.4398% SULFUR .00010%  
 OXYGEN FLOW 3.294  
 -C- -S-

283 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 396. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0262 1.0251  
 \*\*\* CLEANING TIME \*\*\*

08:59 07/31/98  
 ID CODE C00000039 WTA.1000 CAL#1  
 CARBON 0.4346% SULFUR .00046%  
 OXYGEN FLOW 3.293  
 -C- -S-

288 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 449. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0260 1.0250

09:01 07/31/98  
 ID CODE C00000040 WTA.1000 CAL#1  
 CARBON 0.4357% SULFUR .00005%  
 OXYGEN FLOW 3.293  
 -C- -S-

293 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 444. 1.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0260 1.0250

09:02 07/31/98  
 ID CODE C00000041 WTA.1000 CAL#1  
 CARBON 0.3832% SULFUR .00057%  
 OXYGEN FLOW 3.290  
 -C- -S-

298 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 356. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0255 1.0245

09:04 07/31/98  
 ID CODE C00000042 WTA.1000 CAL#1  
 CARBON 0.3169% SULFUR .00003%  
 OXYGEN FLOW 3.290  
 -C- -S-

Std  
 0.822 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9557. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0255 1.0245

09:06 07/31/98  
 ID CODE C00000043 WTA.9980 CAL#1  
 CARBON 0.8236% SULFUR .00002%  
 OXYGEN FLOW 3.295  
 -C- -S-

Std  
 0.822 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9086. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0264 1.0250

09:13 07/31/98  
 ID CODE C00000044 WTD. 1010 CAL#1  
 CARBON 12.03% SULFUR .00071%  
 OXYGEN FLOW 3.299  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15628. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0272 1.0261

CaCO<sub>3</sub>

09:15 07/31/98  
 ID CODE C00000045 WTD. 0500 CAL#1  
 CARBON 2.525% SULFUR .00038%  
 OXYGEN FLOW 3.296  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 932. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0266 1.0261

WST2

09:16 07/31/98  
 ID CODE C00000046 WTD. 1000 CAL#1  
 CARBON 0.4245% SULFUR .00034%  
 OXYGEN FLOW 3.294  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 440. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0262 1.0251

303

09:18 07/31/98  
 ID CODE C00000047 WTD. 1000 CAL#1  
 CARBON 0.3395% SULFUR .00018%  
 OXYGEN FLOW 3.293  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 304. 1.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0260 1.0250

308

09:19 07/31/98  
 ID CODE C00000048 WTD. 1000 CAL#1  
 CARBON 0.3660% SULFUR .00020%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 43. 30.  
 PEAK 316. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0255 1.0250

313

09:21 07/31/98  
 ID CODE C00000049 WTD. 1000 CAL#1  
 CARBON 0.3579% SULFUR .00028%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 324. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0255 1.0245

318

09:22 07/31/98  
 ID CODE C00000050 WTD. 1000 CAL#1  
 CARBON 0.3317% SULFUR .00064%  
 OXYGEN FLOW 3.289  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 298. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0253 1.0248

323

09:23 07/31/98  
 ID CODE C00000051 WTD. 1000 CAL#1  
 CARBON 0.2679% SULFUR .00046%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 219. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0250 1.0239

328

09:25 07/31/98  
 ID CODE C00000052 WTD. 1000 CAL#1  
 CARBON 0.1458% SULFUR .00002%  
 OXYGEN FLOW 3.291  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 128. 1.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0257 1.0247

333

09:26 07/31/98  
 ID CODE C00000053 WTD. 1000 CAL#1  
 CARBON 0.1342% SULFUR .00023%  
 OXYGEN FLOW 3.292  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 132. 2.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0259 1.0248

338

09:27 07/31/98  
 ID CODE C00000054 WTD. 1000 CAL#1  
 CARBON 0.1308% SULFUR .00031%  
 OXYGEN FLOW 3.292  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 84. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0239 1.0254

343

09:29 07/31/98  
 ID CODE C00000055 WTD. 1000 CAL#1  
 CARBON 0.1050% SULFUR .00023%  
 OXYGEN FLOW 3.292  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 112. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0262 1.0248

348

09:30 07/31/98

ID CODE C00000056 WTA.0030 CAL#1  
 CARBON 0.8207% SULFUR .00003%  
 OXYGEN FLOW 3.287

Std  
 0,822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9872. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0253 1.0239

09:36 07/31/98

ID CODE C00000057 WTA.0980 CAL#1  
 CARBON 11.98% SULFUR .00069%  
 OXYGEN FLOW 3.297

CaCO<sub>3</sub>  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 12926. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0271 1.0257

09:38 07/31/98

ID CODE C00000058 WTA.0500 CAL#1  
 CARBON .00057% SULFUR .00063%  
 OXYGEN FLOW 3.226

WST2  
 (overlith)  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 0. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0269 1.0261  
 \*\*\* CLEANING TIME \*\*\*

09:40 07/31/98

ID CODE C00000059 WTA.1000 CAL#1  
 CARBON 0.1393% SULFUR .00073%  
 OXYGEN FLOW 3.292

353  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 116. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0262 1.0254

09:41 07/31/98

ID CODE C00000060 WTA.1000 CAL#1  
 CARBON .07876% SULFUR .00026%  
 OXYGEN FLOW 3.292

358  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 64. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0262 1.0248

09:43 07/31/98

ID CODE C00000061 WTA.1000 CAL#1  
 CARBON .09809% SULFUR .00038%  
 OXYGEN FLOW 3.290

363  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 72. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0258 1.0245

09:44 07/31/98

ID CODE C00000062 WTA.1000 CAL#1  
 CARBON .06638% SULFUR .00036%  
 OXYGEN FLOW 3.293

368  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 56. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0263 1.0250

09:46 07/31/98

ID CODE C00000063 WTA.1000 CAL#1  
 CARBON 0.1969% SULFUR .00038%  
 OXYGEN FLOW 3.290

373  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 172. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0258 1.0250

09:47 07/31/98

ID CODE C00000064 WTA.1000 CAL#1  
 CARBON 0.2032% SULFUR .00044%  
 OXYGEN FLOW 3.291

378  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 184. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0263 1.0252

09:49 07/31/98

ID CODE C00000065 WTA.1000 CAL#1  
 CARBON 0.2655% SULFUR .00053%  
 OXYGEN FLOW 3.291

383  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 288. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0260 1.0252

09:50 07/31/98

ID CODE C00000066 WTA.1000 CAL#1  
 CARBON 0.3623% SULFUR .00022%  
 OXYGEN FLOW 3.289

388  
 BLANK +.00000 +.00000  
 TIME 41. 30.  
 PEAK 308. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0256 1.0243

09:51 07/31/98

ID CODE C00000067 WTA.1000 CAL#1  
 CARBON 0.3495% SULFUR .00034%  
 OXYGEN FLOW 3.290

393  
 BLANK +.00000 +.00000  
 TIME 42. 30.  
 PEAK 286. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0258 1.0250



09:53 07/31/98

ID CODE 00000068 WTD.1000 CAL#1  
 CARBON 0.3348% SULFUR .00041%  
 OXYGEN FLOW 3.287

-C- -S-

398

BLANK +.00000 +.00000  
 TIME 47. 30.  
 PEAK 264. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0253 1.0239

09:54 07/31/98

ID CODE 00000069 WTD.9980 CAL#1  
 CARBON 0.8229% SULFUR .00003%  
 OXYGEN FLOW 3.286

-C- -S-

514  
0,822

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9841. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0251 1.0243

09:56 07/31/98

ID CODE 00000070 WTD.1000 CAL#1  
 CARBON 12.14% SULFUR .00037%  
 OXYGEN FLOW 3.288

-C- -S-

CaCO<sub>3</sub>

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 16512. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0255 1.0241

09:57 07/31/98

ID CODE 00000071 WTD.0500 CAL#1  
 CARBON 2.561% SULFUR .00077%  
 OXYGEN FLOW 3.290

-C- -S-

WST2

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1088. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0258 1.0250

AMBIENT MONITOR

08:24 08/17/98

O2 FLOW	L/MIN	3.310
C. CELL THP.	C	50.9
S. CELL THP.	C	48.3
OVEN THP.	C	48.4
CAT. HTR. THP.	C	341.3
5 REFF.		5.00
5 VOLT	+	5.00
24 VOLT	+	23.98
30 VOLT	+	29.99
15 VOLT	+/-	14.99
C. EMITR.		5.50
S. EMITR.		5.50
C. IR CELL		8.558
S. IR CELL		8.509

08:34 08/17/98  
ID CODE 080000072 WT0.0980 CAL#1  
CARBON 11.95% SULFUR .00016%  
OXYGEN FLOW 3.289

-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 11656. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0244 1.0248

CaCO<sub>3</sub>

08:37 08/17/98  
ID CODE 080000073 WT0.1030 CAL#1  
CARBON 12.07% SULFUR .00019%  
OXYGEN FLOW 3.296

-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 14634. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0260 1.0264

08:39 08/17/98  
ID CODE 080000074 WT0.0990 CAL#1  
CARBON 12.41% SULFUR .00023%  
OXYGEN FLOW 3.297

-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 16320. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0255 1.0262

08:40 08/17/98

ID CODE 080000075 WT1.0840 CAL#1  
CARBON 9.8299% SULFUR .00003%  
OXYGEN FLOW 3.288

-C- -S-

Std  
0.822  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 9839. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0242 1.0247

08:41 08/17/98

ID CODE 080000076 WT1.0840 CAL#1  
CARBON 9.8153% SULFUR .00002%  
OXYGEN FLOW 3.291

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 6483. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0245 1.0252

08:43 08/17/98

ID CODE 080000077 WT1.0840 CAL#1  
CARBON 9.8330% SULFUR .00001%  
OXYGEN FLOW 3.289

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 9594. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0241 1.0248

08:44 08/17/98

ID CODE 080000078 WT1.0020 CAL#1  
CARBON 9.8295% SULFUR .00004%  
OXYGEN FLOW 3.290

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 10175. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0243 1.0250

\*\*\* CLEANING TIME \*\*\*

08:45 08/17/98

ID CODE 080000079 WT1.0830 CAL#1  
CARBON 9.8285% SULFUR .00002%  
OXYGEN FLOW 3.289

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 9271. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0241 1.0248

08:47 08/17/98

ID CODE 080000080 WT1.0800 CAL#1  
CARBON 9.8269% SULFUR .00003%  
OXYGEN FLOW 3.287

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 9881. 0.  
CALIB. 0.6685 0.8981  
K FAC. 1.0237 1.0245

08:54 08/17/98  
 ID CODE C00000081 WT0.9950 CAL#1  
 CARBON 0.8027% SULFUR .00001%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7560. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0231 1.0238

08:52 08/17/98  
 ID CODE C00000082 WT0.9960 CAL#1  
 CARBON 0.8259% SULFUR .00002%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7976. 0.  
 CALIB. 0.6685 0.8981  
 K FAC. 1.0237 1.0245

\*\*\* STACK CALIBRATION \*\*\*

08:52 08/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000082 0.9960 0.8259 .00002  
 C00000081 1.0050 0.8027 .00001  
 C00000080 1.0000 0.8269 .00003  
 C00000079 1.0030 0.8285 .00002  
 C00000078 1.0020 0.8295 .00004  
 C00000077 1.0040 0.8330 .00001  
 C00000076 1.0040 0.8153 .00002  
 C00000075 1.0040 0.8299 .00003  
 C00000074 0.0990 12.41 .00023  
 C00000073 0.1030 12.07 .00019

CARBON STD.% 00.8220  
 OLD C-CAL -1- 0.6685  
 INCLUDE CARBON  
 C00000082 0.8259  
 C00000080 0.8269  
 C00000079 0.8285  
 C00000078 0.8295  
 C00000077 0.8330  
 C00000076 0.8153  
 C00000075 0.8299  
 NEW C-CAL -1- 0.6645

08:53 08/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000082 0.9960 0.8209 .00002  
 C00000081 1.0050 0.7979 .00001  
 C00000080 1.0000 0.8219 .00003  
 C00000079 1.0030 0.8235 .00002  
 C00000078 1.0020 0.8245 .00004  
 C00000077 1.0040 0.8280 .00001  
 C00000076 1.0040 0.8184 .00002  
 C00000075 1.0040 0.8249 .00003  
 C00000074 0.0990 12.34 .00023  
 C00000073 0.1030 12.00 .00019

\*\*\* END CALIBRATION \*\*\*

\*\*\* OUT-SEQ BEGUN \*\*\*  
 08:55 08/17/98  
 ID CODE C00000085 WT0.9960 CAL#1  
 CARBON 0.8179% SULFUR .00006%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10383. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0243 1.0250

Std  
0.822

08:57 08/17/98  
 ID CODE C00000086 WT0.9980 CAL#1  
 CARBON 0.8153% SULFUR .00003%  
 OXYGEN FLOW 3.289  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8390. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0241 1.0243  
 \*\*\* OUT-SEQ BEGUN \*\*\*

08:58 08/17/98  
 ID CODE C00000087 WT0.9980 CAL#1  
 CARBON 0.8175% SULFUR .00002%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7385. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0237 1.0245  
 \*\*\* OUT-SEQ BEGUN \*\*\*

09:00 08/17/98  
 ID CODE C00000088 WT1.0020 CAL#1  
 CARBON 0.8035% SULFUR .00003%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6986. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0237 1.0245  
 \*\*\* OUT-SEQ BEGUN \*\*\*

09:02 08/17/98  
 ID CODE C00000089 WT1.0030 CAL#1  
 CARBON 0.8129% SULFUR .00004%  
 OXYGEN FLOW 3.285  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9630. 0.  
 CALIB. 0.6645 0.8981  
 K FAC. 1.0232 1.0242



## \*\*\* STACK CALIBRATION \*\*\*

09:03 08/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C000000089 1.0030 0.8129 .00004  
 C000000090 1.0020 0.8035 .00003  
 C000000087 0.9980 0.8175 .00002  
 C000000086 0.9980 0.8153 .00003  
 C000000085 0.9960 0.8179 .00006  
 C000000082 0.9960 0.8209 .00002  
 C000000081 1.0050 0.7979 .00001  
 C000000080 1.0000 0.8219 .00003  
 C000000079 1.0030 0.8235 .00002  
 C000000078 1.0020 0.8245 .00004

CARBON STD.% 00.8220  
 OLD C-CAL -1- 0.6645  
 INCLUDE CARBON  
 C000000089 0.8129  
 C000000087 0.8175  
 C000000086 0.8153  
 C000000085 0.8179  
 NEW C-CAL -1- 0.6695

09:03 08/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C000000089 1.0030 0.8190 .00004  
 C000000088 1.0020 0.8095 .00003  
 C000000087 0.9980 0.8237 .00002  
 C000000086 0.9980 0.8214 .00003  
 C000000085 0.9960 0.8240 .00006  
 C000000082 0.9960 0.8271 .00002  
 C000000081 1.0050 0.8039 .00001  
 C000000080 1.0000 0.8281 .00003  
 C000000079 1.0030 0.8297 .00002  
 C000000078 1.0020 0.8307 .00004

\*\*\* END CALIBRATION \*\*\*  
 \*\*\* OUT-SEQ BEGUN \*\*\*

09:05 08/17/98  
 ID CODE C000000090 WTA.9980 CAL#1  
 CARBON 0.8230% SULFUR .00003%  
 OXYGEN FLOW 3.288

Std  
 0.822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8267. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0237 1.0247

09:06 08/17/98  
 ID CODE C000000088 WTA.1010 CAL#1  
 CARBON 11.93% SULFUR .00021%  
 OXYGEN FLOW 3.292

CaCO<sub>3</sub>  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14925. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0244 1.0254

09:16 08/17/98  
 ID CODE C000000084 WTA.0580 CAL#1  
 CARBON 3.862% SULFUR .00059%  
 OXYGEN FLOW 3.293

WSTZ  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1895. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0248 1.0255

10:14 08/17/98  
 ID CODE C000000091 WTA.0040 CAL#1  
 CARBON 0.8145% SULFUR .00007%  
 OXYGEN FLOW 3.299

Std  
 0.822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9088. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0265 1.0267

\*\*\* OUT-SEQ BEGUN \*\*\*

10:16 08/17/98  
 ID CODE C000000094 WTA.0020 CAL#1  
 CARBON 0.8287% SULFUR .00004%  
 OXYGEN FLOW 3.297

W  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10386. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0258 1.0262

10:19 08/17/98  
 ID CODE C000000092 WTA.1000 CAL#1  
 CARBON 12.18% SULFUR .00046%  
 OXYGEN FLOW 3.298

CaCO<sub>3</sub>  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15413. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0260 1.0264

10:20 08/17/98  
 ID CODE C000000093 WTA.0510 CAL#1  
 CARBON 3.523% SULFUR .00076%  
 OXYGEN FLOW 3.296

WSTZ  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1977. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0256 1.0261

10:22 08/17/98  
 ID CODE C000000095 WTA.0580 CAL#1  
 CARBON 4.077% SULFUR .00057%  
 OXYGEN FLOW 3.301

n  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2821. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0266 1.0270

10:24 08/17/98  
 ID CODE C00000096 Wt0.0500 CAL#1  
 CARBON 3.591% SULFUR .00106%  
 OXYGEN FLOW 3.291  
 -C- -S-  
 WST2 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1832. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0248 1.0252

10:27 08/17/98  
 ID CODE C00000097 Wt0.0500 CAL#1  
 CARBON 3.469% SULFUR .00135%  
 OXYGEN FLOW 3.296  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1686. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0256 1.0261

10:29 08/17/98  
 ID CODE C00000095 Wt0.9940 CAL#1  
 CARBON 0.8307% SULFUR .00004%  
 OXYGEN FLOW 3.289  
 -C- -S-  
 Std BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8478. 0.  
 0,822 CALIB. 0.6695 0.8981  
 K FAC. 1.0244 1.0248  
 \*\*\* CLEANING TIME \*\*\*

10:30 08/17/98  
 ID CODE C00000099 Wt1.0010 CAL#1  
 CARBON 0.8279% SULFUR .00004%  
 OXYGEN FLOW 3.288  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9579. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0242 1.0247

10:33 08/17/98  
 ID CODE C00000080 Wt0.9980 CAL#1  
 CARBON 0.8312% SULFUR .00005%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10206. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0240 1.0245

10:34 08/17/98  
 ID CODE C00000001 Wt1.0020 CAL#1  
 CARBON 0.8322% SULFUR .00005%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8989. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0240 1.0239

10:35 08/17/98  
 ID CODE C00000002 Wt1.0020 CAL#1  
 CARBON 0.8312% SULFUR .00004%  
 OXYGEN FLOW 3.288  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9234. 0.  
 CALIB. 0.6695 0.8981  
 K FAC. 1.0242 1.0247

\*\*\* STACK CALIBRATION \*\*\*

10:36 08/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000002 1.0020 0.8312 .00004  
 C00000001 1.0020 0.8322 .00005  
 C00000000 0.9980 0.8312 .00005  
 C00000099 1.0010 0.8279 .00004  
 C00000098 0.9940 0.8307 .00004  
 C00000097 0.0500 3.468 .00135  
 C00000096 0.0500 3.591 .00106  
 C00000095 0.0500 4.077 .00057  
 C00000093 0.0510 3.523 .00076  
 C00000092 0.1000 12.18 .00046

CARBON STD.% 00.8220  
 OLD C-CAL -1- 0.6695  
 INCLUDE CARBON  
 C00000002 0.8312  
 C00000001 0.8322  
 C00000000 0.8312  
 C00000099 0.8279  
 C00000098 0.8307  
 NEW C-CAL -1- 0.6625

10:36 08/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C00000002 1.0020 0.8226 .00004  
 C00000001 1.0020 0.8236 .00005  
 C00000000 0.9980 0.8226 .00005  
 C00000099 1.0010 0.8193 .00004  
 C00000098 0.9940 0.8221 .00004  
 C00000097 0.0500 3.424 .00135  
 C00000096 0.0500 3.554 .00106  
 C00000095 0.0500 4.035 .00057  
 C00000093 0.0510 3.487 .00076  
 C00000092 0.1000 12.05 .00046

\*\*\* END CALIBRATION \*\*\*

10:38 08/17/98  
 ID CODE C00000003 Wt1.0050 CAL#1  
 CARBON 0.8217% SULFUR .00005%  
 OXYGEN FLOW 3.288  
 -C- -S-  
 Std 0,822 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8782. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0242 1.0247

10:41 08/17/98  
 ID CODE C00000004 WTO.1000 CAL#1  
 CARBON 12.25% SULFUR .00006%  
 OXYGEN FLOW 3.297

CaCO<sub>3</sub>

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 16100. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0258 1.0262

10:42 08/17/98  
 ID CODE C00000005 WTO.0490 CAL#1  
 CARBON 3.808% SULFUR .00031%  
 OXYGEN FLOW 3.291

W572

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1936. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0248 1.0252

10:52 08/17/98  
 ID CODE C00000006 WTO.1000 CAL#1  
 CARBON 5.572% SULFUR .00057%  
 OXYGEN FLOW 3.287

405

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5173. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0240 1.0239

10:59 08/17/98  
 ID CODE C00000007 WTO.1000 CAL#1  
 CARBON 5.519% SULFUR .00074%  
 OXYGEN FLOW 3.296

408

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6594. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0259 1.0261

11:01 08/17/98  
 ID CODE C00000008 WTO.1000 CAL#1  
 CARBON 6.153% SULFUR .00031%  
 OXYGEN FLOW 3.292

413

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6160. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0253 1.0254

11:02 08/17/98  
 ID CODE C00000009 WTO.1000 CAL#1  
 CARBON 6.547% SULFUR .00000%  
 OXYGEN FLOW 3.289

418

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7055. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0247 1.0243

11:04 08/17/98  
 ID CODE C00000010 WTO.1000 CAL#1  
 CARBON 6.424% SULFUR .00061%  
 OXYGEN FLOW 3.293

423

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6335. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0251 1.0255

11:05 08/17/98  
 ID CODE C00000011 WTO.1000 CAL#1  
 CARBON 6.451% SULFUR .00052%  
 OXYGEN FLOW 3.296

428

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7136. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0256 1.0255

11:06 08/17/98  
 ID CODE C00000012 WTO.1000 CAL#1  
 CARBON 6.226% SULFUR .00030%  
 OXYGEN FLOW 3.291

433

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6993. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0251 1.0252

11:08 08/17/98  
 ID CODE C00000013 WTO.0990 CAL#1  
 CARBON 6.100% SULFUR .00047%  
 OXYGEN FLOW 3.290

438

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6201. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0249 1.0250

11:10 08/17/98  
 ID CODE C00000014 WTO.1010 CAL#1  
 CARBON 5.619% SULFUR .00051%  
 OXYGEN FLOW 3.288

443

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5012. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0245 1.0247

11:13 08/17/98  
 ID CODE C00000015 WTO.1000 CAL#1  
 CARBON 4.993% SULFUR .00038%  
 OXYGEN FLOW 3.291

448

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6107. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0248 1.0252



Case

SL4211-2

12 08.98

11:14 08/17/98  
 ID CODE C00000016 WTI.0020 CAL#1  
 CARBON 0.8281% SULFUR .00003%  
 OXYGEN FLOW 3.288  
 -C- -S-

Std  
 0.822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10267. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0245 1.0247

11:24 08/17/98  
 ID CODE C00000017 WTI.0990 CAL#1  
 CARBON 11.95% SULFUR .00063%  
 OXYGEN FLOW 3.292  
 -C- -S-

CaCO3  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 13270. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0253 1.0254

11:27 08/17/98  
 ID CODE C00000018 WTI.0510 CAL#1  
 CARBON 3.640% SULFUR .00074%  
 OXYGEN FLOW 3.289  
 -C- -S-

WST2  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1672. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0247 1.0248  
 \*\*\* CLEANING TIME \*\*\*

11:29 08/17/98  
 ID CODE C00000019 WTI.0500 CAL#1  
 CARBON 3.768% SULFUR .00124%  
 OXYGEN FLOW 3.293  
 -C- -S-

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2245. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0254 1.0250

11:32 08/17/98  
 ID CODE C00000020 WTI.0510 CAL#1  
 CARBON 3.689% SULFUR .00102%  
 OXYGEN FLOW 3.288  
 -C- -S-

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1833. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0248 1.0247

11:34 08/17/98  
 ID CODE C00000021 WTI.9990 CAL#1  
 CARBON 0.8159% SULFUR .00000%  
 OXYGEN FLOW 3.287  
 -C- -S-

Std  
 0.822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9963. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0244 1.0245

11:36 08/17/98  
 ID CODE C00000022 WTI.0040 CAL#1  
 CARBON 0.8231% SULFUR .00007%  
 OXYGEN FLOW 3.287  
 -C- -S-

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9892. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0247 1.0245

11:38 08/17/98  
 ID CODE C00000023 WTI.9960 CAL#1  
 CARBON 0.8186% SULFUR .00005%  
 OXYGEN FLOW 3.285  
 -C- -S-

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9750. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0244 1.0242

11:40 08/17/98  
 ID CODE C00000024 WTI.9990 CAL#1  
 CARBON 0.8171% SULFUR .00006%  
 OXYGEN FLOW 3.285  
 -C- -S-

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10221. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0244 1.0236

11:42 08/17/98  
 ID CODE C00000025 WTI.9970 CAL#1  
 CARBON 0.8256% SULFUR .00008%  
 OXYGEN FLOW 3.288  
 -C- -S-

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10154. 0.  
 CALIB. 0.6625 0.8981  
 K FAC. 1.0248 1.0247

\*\*\* STACK CALIBRATION \*\*\*

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000025	0.9970	0.8256	.00008
C00000024	0.9990	0.8171	.00006
C00000023	0.9960	0.8186	.00005
C00000022	1.0040	0.8231	.00007
C00000021	0.9990	0.8159	.00000
C00000020	0.0510	3.689	.00102
C00000019	0.0500	3.768	.00124
C00000018	0.0510	3.640	.00074
C00000017	0.0990	11.95	.00063
C00000016	1.0020	0.8281	.00003

CARBON STD. % 00.8220  
 OLD C-CAL -1- 0.6625  
 INCLUDE CARBON  
 C00000025 0.8256  
 C00000024 0.8171  
 C00000023 0.8186  
 C00000022 0.8231  
 C00000021 0.8159  
 NEW C-CAL -1- 0.6641

11:43 08/17/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000025	0.9970	0.8276	.00000
C00000024	0.9990	0.8190	.00006
C00000023	0.9960	0.8205	.00005
C00000022	1.0040	0.8251	.00007
C00000021	0.9990	0.8178	.00000
C00000020	0.0510	3.698	.00102
C00000019	0.0500	3.777	.00124
C00000018	0.0510	3.648	.00074
C00000017	0.0990	11.97	.00063
C00000016	1.0020	0.8301	.00003

\*\*\* END CALIBRATION \*\*\*

11:45 08/17/98

ID CODE	WTO	CAL#1
C00000026	0.9990	0.8198%
CARBON		SULFUR .00005%
		OX YGEN FLOW 3.285

-C- -S-

Std  
0.822

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	9682.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0244	1.0242

11:48 08/17/98

ID CODE	WTO	CAL#1
C00000027	0.9990	12.04%
CARBON		SULFUR .00017%
		OX YGEN FLOW 3.292

-C- -S-

CaCO<sub>3</sub>

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	15692.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0256	1.0248

11:50 08/17/98

ID CODE	WTO	CAL#1
C00000028	0.0500	3.802%
CARBON		SULFUR .00009%
		OX YGEN FLOW 3.286

-C- -S-

Wst2

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	1955.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0245	1.0243

12:04 08/17/98

ID CODE	WTO	CAL#1
C00000029	1.010	4.399%
CARBON		SULFUR .00038%
		OX YGEN FLOW 3.292

-C- -S-

453

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	4351.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0259	1.0248

12:06 08/17/98

ID CODE	WTO	CAL#1
C00000030	1.000	4.315%
CARBON		SULFUR .00007%
		OX YGEN FLOW 3.294

-C- -S-

458

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	4489.	1.
CALIB.	0.6641	0.8981
K FAC.	1.0262	1.0257

12:07 08/17/98

ID CODE	WTO	CAL#1
C00000031	1.000	4.410%
CARBON		SULFUR .00021%
		OX YGEN FLOW 3.290

-C- -S-

463

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	4252.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0255	1.0250

12:08 08/17/98

ID CODE	WTO	CAL#1
C00000032	1.000	5.043%
CARBON		SULFUR .00057%
		OX YGEN FLOW 3.288

-C- -S-

468

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	5592.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0251	1.0241

12:10 08/17/98

ID CODE	WTO	CAL#1
C00000033	1.000	6.542%
CARBON		SULFUR .00065%
		OX YGEN FLOW 3.289

-C- -S-

473

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	6564.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0253	1.0243

12:11 08/17/98

ID CODE	WTO	CAL#1
C00000034	1.000	6.302%
CARBON		SULFUR .00031%
		OX YGEN FLOW 3.291

-C- -S-

478

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	5883.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0257	1.0247

12:12 08/17/98

ID CODE	WTO	CAL#1
C00000035	1.000	7.214%
CARBON		SULFUR .00044%
		OX YGEN FLOW 3.288

-C- -S-

483

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	7032.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0251	1.0241

12:14 08/17/98

ID CODE	WTO	CAL#1
C00000036	0.990	7.318%
CARBON		SULFUR .00050%
		OX YGEN FLOW 3.285

-C- -S-

488

BLANK	+ .00000	+ .00000
TIME	40.	30.
PEAK	7060.	0.
CALIB.	0.6641	0.8981
K FAC.	1.0247	1.0242

12:15 08/17/98  
 ID CODE C00000037 WTA.1010 CAL#1  
 CARBON 7.257% SULFUR .00013%  
 OXYGEN FLOW 3.288  
 -C- -S-  
 493 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7998. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0251 1.0247

12:16 08/17/98  
 ID CODE C00000038 WTA.1000 CAL#1  
 CARBON 6.819% SULFUR .00022%  
 OXYGEN FLOW 3.286  
 -C- -S-  
 498 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5960. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0248 1.0237

\*\*\* CLEANING TIME \*\*\*  
 12:18 08/17/98  
 ID CODE C00000039 WT1.0020 CAL#1  
 CARBON 0.8295% SULFUR .00005%  
 OXYGEN FLOW 3.287  
 -C- -S-

Std  
 0.822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9787. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0250 1.0245  
 \*\*\* OUT-SEQ BEGUN \*\*\*

12:19 08/17/98  
 ID CODE C00000042 MT1.0000 CAL#1  
 CARBON 0.8230% SULFUR .00003%  
 OXYGEN FLOW 3.283  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10940. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0243 1.0233

12:22 08/17/98  
 ID CODE C00000040 WTA.1040 CAL#1  
 CARBON 11.77% SULFUR .00029%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 6003 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14322. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0255 1.0250

12:23 08/17/98  
 ID CODE C00000041 WTA.0530 CAL#1  
 CARBON 3.653% SULFUR .00093%  
 OXYGEN FLOW 3.285  
 -C- -S-  
 WSTZ BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1763. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0247 1.0242

12:27 08/17/98  
 ID CODE C00000043 WTA.0750 CAL#1  
 CARBON 3.761% SULFUR .00041%  
 OXYGEN FLOW 3.285  
 -C- -S-  
 WSTZ BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2658. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0247 1.0242

12:36 08/17/98  
 ID CODE C00000044 WTA.0950 CAL#1  
 CARBON 6.481% SULFUR .00037%  
 OXYGEN FLOW 3.292  
 -C- -S-  
 503 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6658. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0259 1.0248

12:38 08/17/98  
 ID CODE C00000045 WTA.1000 CAL#1  
 CARBON 6.427% SULFUR .00020%  
 OXYGEN FLOW 3.287  
 -C- -S-

508  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7077. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0250 1.0245

12:39 08/17/98  
 ID CODE C00000046 WTA.1010 CAL#1  
 CARBON 6.608% SULFUR .00019%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 513 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7703. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0255 1.0245

12:41 08/17/98  
 ID CODE C00000047 WTA.1000 CAL#1  
 CARBON 6.550% SULFUR .00042%  
 OXYGEN FLOW 3.288  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6307. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0251 1.0247

12:42 08/17/98  
 ID CODE C00000048 WTA.1000 CAL#1  
 CARBON 6.017% SULFUR .00019%  
 OXYGEN FLOW 3.291  
 -C- -S-  
 518 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5781. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0257 1.0247

523  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5781. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0257 1.0247



12:44 08/17/98  
 ID CODE C00000049 WT0.1000 CAL#1  
 CARBON 4.731% SULFUR .00066%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 S28 TIME 40. 30.  
 PEAK 5563. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0250 1.0245

12:45 08/17/98  
 ID CODE C00000050 WT0.1010 CAL#1  
 CARBON 4.867% SULFUR .00086%  
 OXYGEN FLOW 3.280  
 -C- -S-

S33 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4999. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0251 1.0241

12:46 08/17/98  
 ID CODE C00000051 WT0.1000 CAL#1  
 CARBON 4.848% SULFUR .00086%  
 OXYGEN FLOW 3.287  
 -C- -S-

S38 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4402. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0250 1.0245

12:48 08/17/98  
 ID CODE C00000052 WT0.0990 CAL#1  
 CARBON 5.569% SULFUR .00053%  
 OXYGEN FLOW 3.289  
 -C- -S-

S43 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5642. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0253 1.0243

12:49 08/17/98  
 ID CODE C00000053 WT0.1000 CAL#1  
 CARBON 5.431% SULFUR .00055%  
 OXYGEN FLOW 3.283  
 -C- -S-

S48 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6408. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0243 1.0238

12:54 08/17/98  
 ID CODE C00000054 WT1.0020 CAL#1  
 CARBON 0.8254% SULFUR .00084%  
 OXYGEN FLOW 3.282  
 -C- -S-

Std  
 0.822 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9983. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0241 1.0231

12:55 08/17/98  
 ID CODE C00000055 WT0.0980 CAL#1  
 CARBON 11.96% SULFUR .00103%  
 OXYGEN FLOW 3.290  
 -C- -S-

CaCO3 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15311. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0255 1.0250

12:57 08/17/98  
 ID CODE C00000056 WT0.0530 CAL#1  
 CARBON 3.594% SULFUR .00044%  
 OXYGEN FLOW 3.284  
 -C- -S-

WST2 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1997. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0248 1.0240

12:59 08/17/98  
 ID CODE C00000057 WT0.0500 CAL#1  
 CARBON 3.675% SULFUR .00034%  
 OXYGEN FLOW 3.285  
 -C- -S-

WST2 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1892. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0250 1.0242

13:11 08/17/98  
 ID CODE C00000058 WT0.1000 CAL#1  
 CARBON 5.268% SULFUR .00046%  
 OXYGEN FLOW 3.292  
 -C- -S-

S53 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 4967. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0265 1.0248

\*\*\* CLEANING TIME \*\*\*  
 13:13 08/17/98  
 ID CODE C00000059 WT0.1010 CAL#1  
 CARBON 4.921% SULFUR .00026%  
 OXYGEN FLOW 3.280  
 -C- -S-

S58 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5082. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0258 1.0241

13:14 08/17/98  
 ID CODE C00000060 WT0.1000 CAL#1  
 CARBON 5.031% SULFUR .00067%  
 OXYGEN FLOW 3.291  
 -C- -S-

S65 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5167. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0263 1.0252

13:15 08/17/98  
 ID CODE C00000061 MT0.1000 CAL#1  
 CARBON 5.366% SULFUR .00014%  
 OXYGEN FLOW 3.289

568 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 5899. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0259 1.0248

13:16 08/17/98  
 ID CODE C00000062 MT0.1000 CAL#1  
 CARBON 6.332% SULFUR .00042%  
 OXYGEN FLOW 3.287

573 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6174. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0256 1.0245

13:18 08/17/98  
 ID CODE C00000063 MT0.1010 CAL#1  
 CARBON 6.718% SULFUR .00055%  
 OXYGEN FLOW 3.287

578 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6578. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0256 1.0245

13:19 08/17/98  
 ID CODE C00000064 MT0.1030 CAL#1  
 CARBON 6.663% SULFUR .00050%  
 OXYGEN FLOW 3.282

583 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6343. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0247 1.0231

13:21 08/17/98  
 ID CODE C00000065 MT0.0990 CAL#1  
 CARBON 6.654% SULFUR .00009%  
 OXYGEN FLOW 3.284

588 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7051. 1.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0251 1.0234

13:22 08/17/98  
 ID CODE C00000066 MT0.1010 CAL#1  
 CARBON 6.456% SULFUR .00039%  
 OXYGEN FLOW 3.287

593 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6114. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0253 1.0239

13:24 08/17/98  
 ID CODE C00000067 MT0.1010 CAL#1  
 CARBON 6.476% SULFUR .00037%  
 OXYGEN FLOW 3.286

598 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6721. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0251 1.0243

13:25 08/17/98  
 ID CODE C00000068 MT1.0040 CAL#1  
 CARBON 0.8265% SULFUR .00001%  
 OXYGEN FLOW 3.279

599 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8379. 1.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0242 1.0225

13:26 08/17/98  
 ID CODE C00000069 MT0.0980 CAL#1  
 CARBON 12.08% SULFUR .00028%  
 OXYGEN FLOW 3.287

CaCO<sub>3</sub> BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 13338. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0256 1.0239

13:28 08/17/98  
 ID CODE C00000070 MT0.0520 CAL#1  
 CARBON 3.930% SULFUR .00141%  
 OXYGEN FLOW 3.284

WST? BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2085. 0.  
 CALIB. 0.6641 0.8981  
 K FAC. 1.0251 1.0234

## AMBIENT MONITOR

07:31 08/18/98

O2 FLOW	L/MIN	3.311
C. CELL THP.	C	51.2
S. CELL THP.	C	48.3
OVEN THP.	C	48.4
CAT. HTR. THP.	C	341.2
5 REFF.		5.00
5 VOLT	+	5.00
24 VOLT	+	23.98
30 VOLT	+	29.97
15 VOLT	+/-	14.99
C. EMITR.		5.50
S. EMITR.		5.50
C. IR CELL		8.509
S. IR CELL		8.509

07:46 08/18/98

ID CODE	C00000071	UTO.1000	CAL#1
CARBON	5.540%	SULFUR	.00047%
OXYGEN FLOW	3.294		

Sediment

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		4897.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0262		1.0257

07:48 08/18/98

ID CODE	C00000072	UTO.1010	CAL#1
CARBON	12.09%	SULFUR	.00030%
OXYGEN FLOW	3.299		

C-CO2

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		12600.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0272		1.0267

07:49 08/18/98

ID CODE	C00000073	UTO.1010	CAL#1
CARBON	12.32%	SULFUR	.00000%
OXYGEN FLOW	3.300		

C-CO2

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		14535.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0273		1.0268

07:50 08/18/98

ID CODE	C00000074	UTO.9990	CAL#1
CARBON	0.8317%	SULFUR	.00001%
OXYGEN FLOW	3.294		

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		9771.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0259		1.0257

07:52 08/18/98

ID CODE	C00000075	UTO.8000	CAL#1
CARBON	0.8193%	SULFUR	.00004%
OXYGEN FLOW	3.290		

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		8591.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0252		1.0250

07:53 08/18/98

ID CODE	C00000076	UTO.9930	CAL#1
CARBON	0.8320%	SULFUR	.00004%
OXYGEN FLOW	3.293		

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		9332.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0257		1.0255

07:54 08/18/98

ID CODE	C00000077	UTO.9990	CAL#1
CARBON	0.8285%	SULFUR	.00005%
OXYGEN FLOW	3.290		

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		9567.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0252		1.0250

07:56 08/18/98

ID CODE	C00000078	UTO.9970	CAL#1
CARBON	0.8295%	SULFUR	.00004%
OXYGEN FLOW	3.292		

-C- -S-

BLANK	+	.00000	+	.00000
TIME		40.		30.
PEAK		9142.		0.
CALIB.		0.6641		0.8981
K FAC.		1.0256		1.0249

\*\*\* CLEANING TIME \*\*\*

\*\*\* STACK CALIBRATION \*\*\*

07:56 08/18/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000078	0.9970	0.8295	.00004
C00000077	0.9990	0.8285	.00005
C00000076	0.9930	0.8320	.00004
C00000075	1.8000	0.8193	.00004
C00000074	0.9990	0.8317	.00001
C00000073	0.1010	12.32	.00000
C00000072	0.1010	12.09	.00030
C00000071	0.1000	5.540	.00047
C00000070	0.0520	3.930	.00141
C00000069	0.0220	12.00	.00000



Copy

CARBON STD.% 80.8220  
 OLD C-CAL -1- 0.6641  
 INCLUDE CARBON  
 C00000078 0.8295  
 C00000077 0.8285  
 C00000076 0.8320  
 C00000075 0.8193  
 C00000074 0.8317  
 NEW C-CAL -1- 0.6592

07:57 08/18/98

ID CODE	WEIGHT	CARBON%	SULFUR%
C00000078	0.9970	0.8233	.00004
C00000077	0.9970	0.8223	.00005
C00000076	0.9930	0.8258	.00004
C00000075	1.0000	0.8132	.00004
C00000074	0.9970	0.8255	.00001
C00000073	0.1010	12.23	.00080
C00000072	0.1010	12.00	.00030
C00000071	0.1000	5.498	.00047
C00000070	0.0520	3.901	.00141
C00000069	0.0900	11.97	.00028

\*\*\* END CALIBRATION \*\*\*

07:58 08/18/98

ID CODE C00000079 WTA.9980 CAL#1  
 CARBON 0.8221% SULFUR .00004%  
 OXYGEN FLOW 3.293  
 -C- -S-

Std  
 0.822  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8983. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0257 1.0255

08:02 08/18/98

ID CODE C00000080 WTA.0980 CAL#1  
 CARBON 11.26% SULFUR .00061%  
 OXYGEN FLOW 3.296  
 -C- -S-

CaCO<sub>3</sub>  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14972. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0259 1.0261

08:03 08/18/98

ID CODE C00000081 WTA.0530 CAL#1  
 CARBON 3.678% SULFUR .00068%  
 OXYGEN FLOW 3.287  
 -C- -S-

WST2  
 u.e.  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1964. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0244 1.0245

08:06 08/18/98

ID CODE C00000082 WTA.0570 CAL#1  
 CARBON 3.637% SULFUR .00012%  
 OXYGEN FLOW 3.295  
 -C- -S-

~  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2323. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0258 1.0259

08:09 08/18/98

ID CODE C00000083 WTA.0580 CAL#1  
 CARBON 2.379% SULFUR .00021%  
 OXYGEN FLOW 3.297  
 -C- -S-

WST2  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1117. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0261 1.0262

08:10 08/18/98

ID CODE C00000084 WTA.1000 CAL#1  
 CARBON 0.3514% SULFUR .00050%  
 OXYGEN FLOW 3.294  
 -C- -S-

403  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 356. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0256 1.0257

08:12 08/18/98

ID CODE C00000085 WTA.1000 CAL#1  
 CARBON 0.3324% SULFUR .00003%  
 OXYGEN FLOW 3.293  
 -C- -S-

408  
 BLANK +.00000 +.00000  
 TIME 41. 30.  
 PEAK 300. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0254 1.0255

08:13 08/18/98

ID CODE C00000086 WTA.1000 CAL#1  
 CARBON 0.3349% SULFUR .00027%  
 OXYGEN FLOW 3.285  
 -C- -S-

413  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 356. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0237 1.0242

08:14 08/18/98

ID CODE C00000087 WTA.1000 CAL#1  
 CARBON 0.3143% SULFUR .00024%  
 OXYGEN FLOW 3.292  
 -C- -S-

418  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 296. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0253 1.0254

08:16 08/18/98

ID CODE C00000088 WTA.1000 CAL#1  
 CARBON 0.3273% SULFUR .00040%  
 OXYGEN FLOW 3.286  
 -C- -S-

423  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 352. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0239 1.0243

08:17 08/18/98  
 ID CODE C00000089 WTD.1000 CAL#1  
 CARBON 0.3302% SULFUR .00066%  
 OXYGEN FLOW 3.290

428

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 328. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0246 1.0245

08:19 08/18/98  
 ID CODE C00000090 WTD.1000 CAL#1  
 CARBON 0.3071% SULFUR .00000%  
 OXYGEN FLOW 3.288

433

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 312. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0245 1.0247

08:20 08/18/98  
 ID CODE C00000091 WTD.1000 CAL#1  
 CARBON 0.3596% SULFUR .00017%  
 OXYGEN FLOW 3.287

438

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 44. 30.  
 PEAK 343. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0240 1.0245

08:22 08/18/98  
 ID CODE C00000092 WTD.1000 CAL#1  
 CARBON 0.3602% SULFUR .00003%  
 OXYGEN FLOW 3.288

443

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 376. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0242 1.0247

08:23 08/18/98  
 ID CODE C00000093 WTD.1000 CAL#1  
 CARBON 0.3207% SULFUR .00032%  
 OXYGEN FLOW 3.287

448

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 295. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0240 1.0245

08:24 08/18/98  
 ID CODE C00000094 WTD.9900 CAL#1  
 CARBON 0.0100% SULFUR .00007%  
 OXYGEN FLOW 3.289

Std

0.822

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9029. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0247 1.0248

08:31 08/18/98  
 ID CODE C00000095 WTD.1000 CAL#1  
 CARBON 12.16% SULFUR .00045%  
 OXYGEN FLOW 3.297

CaCO<sub>3</sub>

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 17145. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0258 1.0262

08:32 08/18/98  
 ID CODE C00000096 WTD.0570 CAL#1  
 CARBON 3.757% SULFUR .00088%  
 OXYGEN FLOW 3.286

WST2

n.e.

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2203. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0239 1.0237

08:33 08/18/98  
 ID CODE C00000097 WTD.0500 CAL#1  
 CARBON 2.585% SULFUR .00005%  
 OXYGEN FLOW 3.292

WST2

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1278. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0253 1.0248

08:35 08/18/98  
 ID CODE C00000098 WTD.1000 CAL#1  
 CARBON 0.2891% SULFUR .00020%  
 OXYGEN FLOW 3.286

453

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 300. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0242 1.0243

\*\*\* CLEANING TIME \*\*\*

08:36 08/18/98  
 ID CODE C00000099 WTD.1000 CAL#1  
 CARBON 0.2115% SULFUR .00048%  
 OXYGEN FLOW 3.289

458

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 184. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0247 1.0248

08:37 08/18/98  
 ID CODE C00000099 WTD.1000 CAL#1  
 CARBON 0.2034% SULFUR .00034%  
 OXYGEN FLOW 3.290

463

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 179. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0249 1.0250

08:39 08/18/98  
 ID CODE C00000001 MT0.1000 CAL#1  
 CARBON 0.2864% SULFUR .00057%  
 OXYGEN FLOW 3.289  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 212. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0244 1.0248

468

08:40 08/18/98  
 ID CODE C00000002 MT0.1000 CAL#1  
 CARBON 0.3091% SULFUR .00052%  
 OXYGEN FLOW 3.288  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 322. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0242 1.0247

473

08:42 08/18/98  
 ID CODE C00000003 MT0.1000 CAL#1  
 CARBON 0.2850% SULFUR .00034%  
 OXYGEN FLOW 3.286  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 41. 30.  
 PEAK 298. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0239 1.0243

478

08:43 08/18/98  
 ID CODE C00000004 MT0.1000 CAL#1  
 CARBON 0.3431% SULFUR .00059%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 320. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0240 1.0245

483

08:44 08/18/98  
 ID CODE C00000005 MT0.1000 CAL#1  
 CARBON 0.3346% SULFUR .00000%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 328. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0240 1.0245

488

08:46 08/18/98  
 ID CODE C00000006 MT0.1000 CAL#1  
 CARBON 0.3224% SULFUR .00026%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 356. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0235 1.0231

493

08:47 08/18/98  
 ID CODE C00000007 MT0.1000 CAL#1  
 CARBON 0.3296% SULFUR .00035%  
 OXYGEN FLOW 3.281  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 324. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0233 1.0229

498

08:49 08/18/98  
 ID CODE C00000008 MT1.0000 CAL#1  
 CARBON 0.8160% SULFUR .00006%  
 OXYGEN FLOW 3.278  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9329. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0225 1.0229

Std  
0.822

08:51 08/18/98  
 ID CODE C00000009 MT0.9970 CAL#1  
 CARBON 0.8197% SULFUR .00005%  
 OXYGEN FLOW 3.286  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10265. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0239 1.0243

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08:57 08/18/98  
 ID CODE C00000010 MT0.0950 CAL#1  
 CARBON 12.10% SULFUR .00059%  
 OXYGEN FLOW 3.290  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14115. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0249 1.0250

CaCO3

08:59 08/18/98  
 ID CODE C00000011 MT1.0070 CAL#1  
 CARBON .00002% SULFUR .00002%  
 OXYGEN FLOW 3.287  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 0. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0240 1.0245

lead

09:03 08/18/98  
 ID CODE C00000012 MT0.0720 CAL#1  
 CARBON 3.875% SULFUR .00004%  
 OXYGEN FLOW 3.282  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2471. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0235 1.0236

WSTL  
n.o.



09:04 08/18/98  
 ID CODE C00000013 WTA.0500 CAL#1  
 CARBON 2.321% SULFUR .00099%  
 OXYGEN FLOW 3.285

W52 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 967. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0240 1.0236

09:05 08/18/98  
 ID CODE C00000014 WTA.1000 CAL#1  
 CARBON 0.3352% SULFUR .00056%  
 OXYGEN FLOW 3.282

S03 BLANK +.00000 +.00000  
 TIME 41. 30.  
 PEAK 336. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0232 1.0236

09:07 08/18/98  
 ID CODE C00000015 WTA.1000 CAL#1  
 CARBON 0.3296% SULFUR .00015%  
 OXYGEN FLOW 3.279

S08 BLANK +.00000 +.00000  
 TIME 53. 30.  
 PEAK 248. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0226 1.0230

09:09 08/18/98  
 ID CODE C00000016 WTA.1000 CAL#1  
 CARBON 0.3165% SULFUR .00036%  
 OXYGEN FLOW 3.282

S13 BLANK +.00000 +.00000  
 TIME 45. 30.  
 PEAK 200. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0235 1.0231

09:10 08/18/98  
 ID CODE C00000017 WTA.1000 CAL#1  
 CARBON 0.3058% SULFUR .00029%  
 OXYGEN FLOW 3.279

S18 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 319. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0229 1.0225

09:11 08/18/98  
 ID CODE C00000018 WTA.1000 CAL#1  
 CARBON 0.2657% SULFUR .00029%  
 OXYGEN FLOW 3.278

S23 BLANK +.00000 +.00000  
 TIME 47. 30.  
 PEAK 240. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0228 1.0229  
 \*\*\* CLEANING TIME \*\*\*

09:13 08/18/98  
 ID CODE C00000019 WTA.1000 CAL#1  
 CARBON 0.2075% SULFUR .00047%  
 OXYGEN FLOW 3.279

S28 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 234. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0229 1.0230

09:14 08/18/98  
 ID CODE C00000020 WTA.1000 CAL#1  
 CARBON 0.2679% SULFUR .00009%  
 OXYGEN FLOW 3.275

S33 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 244. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0222 1.0223

09:16 08/18/98  
 ID CODE C00000021 WTA.1000 CAL#1  
 CARBON 0.2410% SULFUR .00056%  
 OXYGEN FLOW 3.272

S38 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 232. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0214 1.0213

09:17 08/18/98  
 ID CODE C00000022 WTA.1000 CAL#1  
 CARBON 0.2447% SULFUR .00032%  
 OXYGEN FLOW 3.273

S43 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 216. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0215 1.0214

09:18 08/18/98  
 ID CODE C00000023 WTA.1000 CAL#1  
 CARBON 0.2253% SULFUR .00046%  
 OXYGEN FLOW 3.267

S48 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 236. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0205 1.0209

09:20 08/18/98  
 ID CODE C00000024 WTA.0070 CAL#1  
 CARBON 0.8254% SULFUR .00007%  
 OXYGEN FLOW 3.262

S4d  
 0.822 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9131. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0200 1.0195

09:27 08/18/98  
 ID CODE C00000025 WTA.0950 CAL#1  
 CARBON 11.73% SULFUR .00038%  
 OXYGEN FLOW 3.255  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 11065. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0187 1.0188  
 CaCO<sub>3</sub>

09:28 08/18/98  
 ID CODE C00000026 WTA.0560 CAL#1  
 CARBON 3.892% SULFUR .00071%  
 OXYGEN FLOW 3.261  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2081. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0198 1.0199  
 W512  
 n.e.

09:29 08/18/98  
 ID CODE C00000027 WTA.0500 CAL#1  
 CARBON 2.495% SULFUR .00095%  
 OXYGEN FLOW 3.256  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1179. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0189 1.0190  
 W512

09:31 08/18/98  
 ID CODE C00000028 WTA.1000 CAL#1  
 CARBON 0.2320% SULFUR .00014%  
 OXYGEN FLOW 3.255  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 45. 30.  
 PEAK 188. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0184 1.0188  
 553

09:32 08/18/98  
 ID CODE C00000029 WTA.1000 CAL#1  
 CARBON 0.2650% SULFUR .00033%  
 OXYGEN FLOW 3.257  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 264. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0190 1.0192  
 558

09:34 08/18/98  
 ID CODE C00000030 WTA.1000 CAL#1  
 CARBON 0.2524% SULFUR .00000%  
 OXYGEN FLOW 3.254  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 245. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0185 1.0186  
 563

09:35 08/18/98  
 ID CODE C00000031 WTA.1000 CAL#1  
 CARBON 0.3170% SULFUR .00044%  
 OXYGEN FLOW 3.248  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 344. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0172 1.0170  
 568

09:36 08/18/98  
 ID CODE C00000032 WTA.1000 CAL#1  
 CARBON 0.3546% SULFUR .00037%  
 OXYGEN FLOW 3.237  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 408. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0155 1.0156  
 573

09:38 08/18/98  
 ID CODE C00000033 WTA.1000 CAL#1  
 CARBON 0.3863% SULFUR .00026%  
 OXYGEN FLOW 3.229  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 376. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0138 1.0142  
 578

09:39 08/18/98  
 ID CODE C00000034 WTA.1000 CAL#1  
 CARBON 0.3704% SULFUR .00048%  
 OXYGEN FLOW 3.211  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 360. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0109 1.0110  
 583

09:41 08/18/98  
 ID CODE C00000035 WTA.1000 CAL#1  
 CARBON 0.3793% SULFUR .00022%  
 OXYGEN FLOW 3.195  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 372. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0081 1.0082  
 588

09:42 08/18/98  
 ID CODE C00000036 WTA.1000 CAL#1  
 CARBON 0.3420% SULFUR .00009%  
 OXYGEN FLOW 3.174  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 392. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 1.0043 1.0045  
 593

09:44 08/18/98

ID CODE C00000037 WTD. 1000 CAL#1  
 CARBON 0.2716% SULFUR .00040%  
 OXYGEN FLOW 3.138

-C- -S-

598

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 264. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 0.9979 0.9980

09:45 08/18/98

ID CODE C00000038 WTD. 9970 CAL#1  
 CARBON 0.8287% SULFUR .00005%  
 OXYGEN FLOW 3.090

-C- -S-

Std

0.822

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10070. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 0.9894 0.9890

\*\*\* CLEANING TIME \*\*\*

09:46 08/18/98

ID CODE C00000039 WTD. 1010 CAL#1  
 CARBON 12.13% SULFUR .00042%  
 OXYGEN FLOW 3.082

-C- -S-

CaCO<sub>3</sub>

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14073. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 0.9880 0.9881

09:48 08/18/98

ID CODE C00000040 WTD. 0530 CAL#1  
 CARBON 3.640% SULFUR .00086%  
 OXYGEN FLOW 3.027

-C- -S-

WST2

u.e.

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1955. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 0.9783 0.9784

09:49 08/18/98

ID CODE C00000041 WTD. 0500 CAL#1  
 CARBON 2.291% SULFUR .00045%  
 OXYGEN FLOW 3.061

-C- -S-

WST2

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1108. 0.  
 CALIB. 0.6592 0.8981  
 K FAC. 0.9843 0.9844

as scheduled Resizing