APPENDIX H

RESULTS OF AIR MONITORING IN BUILDING 4482

DEPARTMENT OF THE ARMY
US ARMY CHEMICAL SCHOOL
FORT MCCLELLAN, ALABAMA 36205-5020

REPLY TO
ATTENTION OF:

ATZN-CMN-D

20 August 1999

MEMORANDUM FOR Commander, Garrison Troop Command, ATTN: COL Treuting, Fort McClellan, AL 36205

SUBJECT: Chemical Defense Training Facility (CDTF) Air Monitoring Analysis Report

1. References.

a. AR 50-6, dated 1 Feb 95.

b. DA PAM 385-61.

c. CDTF SOP, Section R.

2. Per reference 1 b and c, the Fort McClellan CDTF has completed 72 hours of continuous air monitoring on the training building (Building 4484) 16-18 August 1999, with no contamination present. All air monitoring analyses were performed IAW DA PAM 385-61, and CDTF SOP, Section R.

3. Air monitoring was conducted using Miniature Chemical Agent Monitors (MINICAMs) that were calibrated to Time Weighted Average (TWA) levels for GB at 0.0001 mg/m^3 and at 0.00001 mg/m^3 for VX. Documentation of the analysis procedure is provided in Enclosure 1.

4. Point of contact is the undersigned at 848-7474.

Encl

WILLIAM LIN
LTC, CM
Director, Chemical Defense
Training Facility

CF:
Assistant Commandant, USACMLS, ATTN: COL Uyesugi
Director, Center for Domestic Preparedness, ATTN: Mr. LZ Johnson
Directorate of Safety, ATTN: Mr. Michael Moore
Directorate of Environmental Management, ATTN: Mr. Ron Levy
BRAC Office, ATTN: MAJ Hines
USACMLS RELO Office, ATTN: Mr. Judd
Director, COBRA TF, ATTN: Mr. Cook

MINICAM Challenges (Daily)

XXX TRAING BLDG. BAYS 1-9					XXX TRAINING BLDG. BAYS 1-9 TWA AUG 99											
DATE	BAY 1		BAY 2		BAY 3		BAY 4		BAY 5		BAY 7		BAY 6,8,9			
13-Aug	1.22	1.01	1.04	1.00	.94	1.03	1.04	1.04	1.02	1.02	.91	.99	.81	.97		
14-Aug	.89	.87	1.22	.92	1.11	.88	.94	.85	.76	.94	1.10	.93	1.06	.95		
15-Aug	.97	.97	1.05	.90	1.11	.86	.99	.86	1.18	.91	1.09	.90	1.01	.91		
16-Aug	1.06	.81	1.16	.89	1.07	.86	.97	.89	.92	.88	1.04	.86	1.04	.84		
17-Aug	.81	.78	1.07	.86	.97	.97	.97	.85	.81	.81	1.03	.86	1.00	.87		
18-Aug	1.06	1.10	.94	1.09	1.09	1.12	1.02	1.08	1.04	1.06	1.02	1.07	1.25	1.12		
19-Aug	.98	.98	1.02	1.05	.93	1.01	.91	.93	.98	.95	.97	.98	1.25	1.02		
20-Aug																

BAY 1

08/13/1999 15:22 1 1.00 1.08 Bay_1 CAL
86T 2W 93T 2W
CALIBRATION VX 6B
AVERAGE 120H 2197H
08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 15:24

S/N 1358 CHECK STATION 1

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 34	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a150	± 15
	FPD Flame	s225	a202	± 99
	Column		a 68	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 40	
	PCT heater, low	s 40	a 41	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.0	± 5
	Hydrogen	s 35	a 36	± 5
SAMPLE:	Flow rate, ccm	s 450	a 460	± 99
	Average flow rate		a 397	
	Volume, L		a3.18	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Descrb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1100	a1099	± 50

ELECTROMETER:	FPD signal, nA	92	FPD zero, nA	162

CONCENTRATION REPORTS: Alarm setpoint, TWAG 0.80

VX	1 FPD	1.00C	120H*	272A	86.3T	1.8W	b 83	e 89
6B	1 FPD	1.00C	2197H*	4350A	93.2T	1.7W	b 90	e 96

CALIBRATION DATA:

VX	1 @	1.00 FPD	120H*	272A	86.3T	1.8W	08/13/1999	15:23
6B	1 @	1.00 FPD	2197H*	4350A	93.2T	1.7W	08/13/1999	15:23

A01 Bay_1

ELAPSED TIME ********** 164 sec

Monitor Serial Number 1358 Date 08/13/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/13/1999	15:33	1	2.11	1.93	Bay_1	CHE
	87T 2W	93T 2W				
08/13/1999	15:42	1	1.22	1.01	Bay_1	CHE
	86T 2W	93T 2W				

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 15:43

S/N 1358 ALARM STATION 1

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 34	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a153	± 15
	FPD Flame	s225	a203	± 99
	Column		a 78	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 40	
	PCT heater, low	s 40	a 41	± 20
	PCT heater, high	s235	a234	± 30
PRESSURES, psi:	Air	s 35	a 37	± 5
	Helium	s 40	a40.1	± 5
	Hydrogen	s 35	a 36	± 5
SAMPLE:	Flow rate, ccm	s 450	a 465	± 99
	Average flow rate		a 442	
	Volume, L		a3.54	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1100	a1099	± 50
ELECTROMETER:	FPD signal, nA	101	FPD zero, nA	168

CONCENTRATION REPORTS: Alarm setpoint, TWAG 0.80

VX	1 FPD	1.22C	147H*	408A	86.4T	2.3W	b 83	e 89
GB	1 FPD	1.01C	2228H*	4242A	93.2T	1.7W	b 90	e 96

CALIBRATION DATA:

VX 1 @	1.00 FPD	120H*	272A	86.3T	1.8W	08/13/1999	15:23
GB 1 @	1.00 FPD	2197H*	4350A	93.2T	1.7W	08/13/1999	15:23

SAMPLING SEQUENCE:

A01 Bay_1

Monitor Serial Number 1358 Date 08/13/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/13/1999	15:52	1	0.30	0.06	Bay_1	
87T 2W 93T 2W						
08/13/1999	16:02	1	9.23	0.02	Bay_1	ALA
87T 3W 93T 1W						
VXW						ERROR
08/13/1999	16:12	1	5.39	0.00	Bay_1	ALA
86T 1W						
08/13/1999	16:22	1	5.39	0.00	Bay_1	ALA
86T 1W						
08/13/1999	16:32	1	5.97	0.02	Bay_1	ALA
87T 4W 93T 2W						
VXW						ERROR
08/13/1999	16:42	1	6.27	0.00	Bay_1	ALA
87T 4W						
VXW						ERROR
08/13/1999	16:52	1	6.27	0.00	Bay_1	ALA
87T 4W						
08/13/1999	17:02	1	6.22	0.00	Bay_1	ALA
88T 3W						
VXW						ERROR
08/13/1999	17:12	1	5.76	0.00	Bay_1	ALA
88T 4W						
VXW						ERROR
08/13/1999	17:22	1	5.56	0.01	Bay_1	ALA
86T 4W 92T 2W						
VXW						ERROR
08/13/1999	17:32	1	5.69	0.01	Bay_1	ALA
87T 4W 93T 1W						
VXW						ERROR
08/13/1999	17:42	1	5.41	0.00	Bay_1	ALA
88T 3W						
VXW						ERROR
08/13/1999	17:52	1	0.00	0.00	Bay_1	
08/13/1999	18:02	1	4.54	0.02	Bay_1	ALA
86T 4W 93T 2W						
VXW						ERROR
08/13/1999	18:12	1	3.71	0.02	Bay_1	ALA
85T 5W 93T 2W						
VXW						ERROR
08/13/1999	18:22	1	0.00	0.00	Bay_1	
08/13/1999	18:32	1	1.70	0.00	Bay_1	ALA
88T 1W						
08/13/1999	18:42	1	3.97	0.02	Bay_1	ALA
85T 5W 93T 2W						
VXW						ERROR
08/13/1999	18:52	1	3.70	0.02	Bay_1	ALA
86T 4W 93T 2W						
VXW						ERROR
08/13/1999	19:02	1	3.70	0.00	Bay_1	ALA
86T 4W						
08/13/1999	19:12	1	3.45	0.00	Bay_1	ALA
88T 4W						
VXW						ERROR
08/13/1999	19:22	1	3.30	0.02	Bay_1	ALA
86T 4W 93T 1W						
VXW						ERROR
08/13/1999	19:32	1	2.91	0.01	Bay_1	ALA
86T 4W 93T 1W						
VXW						ERROR

Monitor Serial Number 1358 Date 08/13/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/13/1999	19:42	1	0.00	0.00	Bay_1	
08/13/1999	19:52	1	2.80	0.00	Bay_1	ALA
88T 4W						
VXW						ERROR
08/13/1999	20:02	1	0.55	0.02	Bay_1	
85T 1W 93T 2W						
08/13/1999	20:12	1	2.72	0.00	Bay_1	ALA
87T 4W						
VXW						ERROR
08/13/1999	20:22	1	2.70	0.02	Bay_1	ALA
85T 4W 93T 1W						
VXW						ERROR
08/13/1999	20:32	1	2.65	0.01	Bay_1	ALA
86T 4W 93T 2W						
VXW						ERROR
08/13/1999	20:42	1	2.60	0.01	Bay_1	ALA
87T 4W 93T 1W						
VXW						ERROR
08/13/1999	20:52	1	2.88	0.00	Bay_1	ALA
89T 4W						
VXW						ERROR
08/13/1999	21:02	1	1.07	0.00	Bay_1	ALA
89T 2W						
08/13/1999	21:12	1	0.00	0.00	Bay_1	
08/13/1999	21:22	1	2.42	0.02	Bay_1	ALA
87T 4W 93T 1W						
VXW						ERROR
08/13/1999	21:32	1	1.94	0.01	Bay_1	ALA
87T 4W 93T 1W						
VXW						ERROR
08/13/1999	21:42	1	0.00	0.00	Bay_1	
08/13/1999	21:52	1	2.18	0.01	Bay_1	ALA
88T 4W 93T 1W						
VXW						ERROR
08/13/1999	22:02	1	2.16	0.01	Bay_1	ALA
88T 3W 93T 1W						
VXW						ERROR
08/13/1999	22:12	1	2.23	0.00	Bay_1	ALA
87T 4W						
VXW						ERROR
08/13/1999	22:22	1	0.65	0.00	Bay_1	
88T 2W						
08/13/1999	22:32	1	1.92	0.01	Bay_1	ALA
88T 4W 93T 1W						
VXW						ERROR
08/13/1999	22:42	1	1.03	0.01	Bay_1	ALA
87T 3W 93T 2W						

Monitor Serial Number 1358 Date 08/13/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/13/1999	22:53		0.01	0.00		
85T 2W						
08/13/1999	23:03	1	0.01	0.00	Bay_1	
87T 1W						
SAM						ERROR
08/13/1999	23:13	1	0.00	0.00	Bay_1	
SAM						ERROR

08/13/1999 23:33 1 0.00 0.00 Bay_1
SAM ERROR
08/13/1999 23:43 1 0.00 0.00 Bay_1
SAM ERROR
08/13/1999 23:53 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 00:03 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 00:13 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 00:23 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 00:33 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 00:43 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 00:53 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 01:03 1 0.01 0.00 Bay_1
84T 1W
SAM ERROR
08/14/1999 01:13 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 01:23 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 01:33 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 01:43 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 01:53 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 02:03 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 02:13 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 02:23 1 0.01 0.00 Bay_1
86T 1W
SAM ERROR
08/14/1999 02:33 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 02:43 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 02:53 1 0.01 0.00 Bay_1
86T 1W
SAM ERROR
08/14/1999 03:03 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 03:13 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 03:23 1 0.00 0.00 Bay_1
SAM ERROR

Monitor Serial Number 1358 Date 08/14/1999 Sampling Station 1

Date Time Port VX GB TWA6

08/14/1999 03:33 1 0.01 0.00 Bay_1
86T 1W
SAM ERROR
08/14/1999 03:43 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 03:53 1 0.00 0.00 Bay_1
SAM ERROR
08/14/1999 04:03 1 0.00 0.00 Bay_1

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08/14/1999 04:13  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 04:23  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 04:33  1   0.01    0.00  Bay_1
         88T 1W
SAM                                                                    ERROR
08/14/1999 04:43  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 04:53  1   0.01    0.00  Bay_1
         84T 1W
SAM                                                                    ERROR
08/14/1999 05:03  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 05:13  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 05:23  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 05:33  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 05:43  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 05:53  1   0.01    0.00  Bay_1
         85T 1W
SAM                                                                    ERROR
08/14/1999 06:03  1   0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 06:13  1   0.00    0.00  Bay_1
SAM                                                                    ERROR


Monitor Serial Number 1358          Date 08/14/1999        Sampling Station    1

Date        Time  Port   VX      GB                                      TWAG

08/14/1999 06:23       0.00    0.00
08/14/1999 06:33  1    0.00    0.00  Bay_1
SAM                                                                    ERROR
08/14/1999 06:43  1    0.00    0.01  Bay_1
                 93T 2W
SAM                                                                    ERROR
08/14/1999 06:53  1    0.88    0.01  Bay_1                              ALA
         87T 2W  93T 2W
08/14/1999 07:03  1    5.19    0.00  Bay_1                              ALA
         86T 6W
VXW                                                                    ERROR
08/14/1999 07:13  1    7.80    0.00  Bay_1                              ALA
         86T 4W
VXW                                                                    ERROR
08/14/1999 07:23  1    3.16    0.01  Bay_1                              ALA
         85T 4W  93T 1W
VXW                                                                    ERROR
08/14/1999 07:33  1    2.41    0.00  Bay_1                              ALA
         87T 4W
VXW                                                                    ERROR
08/14/1999 07:43  1    1.93    0.00  Bay_1                              ALA
         87T 4W
VXW                                                                    ERROR
08/14/1999 07:53  1    1.71    0.00  Bay_1                              ALA
         88T 4W
VXW                                                                    ERROR
08/14/1999 08:03  1    1.75    0.00  Bay_1                              ALA
         87T 4W
VXW                                                                    ERROR
08/14/1999 08:13  1    1.71    0.00  Bay_1                              ALA
```

VXW

08/14/1999 08:23 1 1.67 0.01 Bay_1 ALA
85T 4W 93T 2W

VXW ERROR

08/14/1999 08:33 1 0.00 0.00 Bay_1

08/14/1999 08:43 1 0.00 0.00 Bay_1

08/14/1999 08:53 1 0.00 0.00 Bay_1

08/14/1999 09:03 1 0.89 0.87 Bay_1 ALA
86T 2W 93T 2W

08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:04

S/N 1358 ALARM STATION 1

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 35	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a153	± 15
	FPD Flame	s225	a202	± 99
	Column		a 52	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 40	
	PCT heater, low	s 40	a 41	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a39.8	± 5
	Hydrogen	s 35	a 36	± 5
SAMPLE:	Flow rate, ccm	s 450	a 446	± 99
	Average flow rate		a 445	
	Volume, L		a3.57	

DC
RB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1100 a1094 ± 50

ELECTROMETER: FPD signal, nA 90 FPD zero, nA 149

CONCENTRATION REPORTS: Alarm setpoint, TWA6 0.80

VX	1 FPD	0.89C	106H*	263A	86.2T	1.9W	b 83	e 89
GB	1 FPD	0.87C	1906H*	3811A	93.0T	1.8W	b 90	e 96

CALIBRATION DATA:

VX 1 @	1.00 FPD	120H*	272A	86.3T	1.8W	08/13/1999	15:23
GB 1 @	1.00 FPD	2197H*	4351A	93.2T	1.7W	08/13/1999	15:23

SAMPLING SEQUENCE:

A01 Bay_1

ELAPSED TIME ********** 210 sec

Monitor Serial Number 1356 Date 08/14/1999 Sampling Station 1

Date Time Cent VX GB TWA6

93T 2W
08/14/1999 09:23 1 0.00 0.01 Bay_1
93T 2W
08/14/1999 09:33 1 0.00 0.00 Bay_1
08/14/1999 09:43 1 0.00 0.02 Bay_1
93T 2W
08/14/1999 09:53 1 1.07 0.02 Bay_1 ALA
87T 3W 93T 2W
VXW ERROR
08/14/1999 10:03 1 1.90 0.02 Bay_1 ALA
86T 3W 93T 2W
VXW ERROR
08/14/1999 10:13 1 0.39 0.00 Bay_1
89T 2W
08/14/1999 10:23 1 1.95 0.02 Bay_1 ALA
87T 4W 93T 1W
VXW ERROR
08/14/1999 10:33 1 1.76 0.03 Bay_1 ALA
86T 5W 93T 2W
VXW ERROR
08/14/1999 10:43 1 0.42 0.00 Bay_1
89T 1W
08/14/1999 10:53 1 0.00 0.00 Bay_1
08/14/1999 11:03 1 2.28 0.00 Bay_1 ALA
88T 4W
VXW ERROR
08/14/1999 11:13 1 2.02 0.02 Bay_1 ALA
87T 4W 96T 2W
VXW ERROR
08/14/1999 11:23 1 1.80 0.04 Bay_1 ALA
87T 4W 93T 2W
VXW ERROR
08/14/1999 11:33 1 1.95 0.01 Bay_1 ALA
88T 4W 93T 1W
VXW ERROR
08/14/1999 11:43 1 0.00 0.00 Bay_1
08/14/1999 11:53 1 1.68 0.00 Bay_1 ALA
89T 4W
VXW ERROR
08/14/1999 12:03 1 2.06 0.02 Bay_1 ALA
86T 4W 93T 2W
VXW ERROR
08/14/1999 12:13 1 0.00 0.01 Bay_1
93T 2W
08/14/1999 12:23 1 2.04 0.00 Bay_1 ALA
89T 5W
VXW ERROR
08/14/1999 12:33 1 2.05 0.01 Bay_1 ALA
88T 4W 93T 2W
VXW ERROR
08/14/1999 12:43 1 0.96 0.00 Bay_1 ALA
87T 2W
08/14/1999 12:53 1 1.21 0.01 Bay_1 ALA
88T 3W 93T 2W
08/14/1999 13:03 1 1.91 0.01 Bay_1 ALA
87T 5W 93T 2W
VXW ERROR
08/14/1999 13:13 1 2.21 0.02 Bay_1 ALA
87T 3W 93T 2W
VXW ERROR

```
08/14/1999 13:23  1   0.00    0.00  Bay_1
08/14/1999 13:33  1   1.10    0.00  Bay_1                                  ALA
          89T 2W
08/14/1999 13:43  1   1.68    0.01  Bay_1                                  ALA
          86T 5W  93T 2W
VXW                                                                       ERROR
08/14/1999 13:53  1   2.12    0.01  Bay_1                                  ALA
          87T 3W  93T 2W
08/14/1999 14:03  1   0.00    0.02  Bay_1
                  90T 2W
08/14/1999 14:13  1   0.00    0.00  Bay_1
08/14/1999 14:23  1   1.79    0.01  Bay_1                                  ALA
          87T 4W  93T 1W
VXW                                                                       ERROR
08/14/1999 14:33  1   0.84    0.02  Bay_1                                  ALA
          87T 3W  93T 1W
08/14/1999 14:43  1   1.73    0.00  Bay_1                                  ALA
          88T 4W
VXW                                                                       ERROR
08/14/1999 14:53  1   0.42    0.01  Bay_1
          87T 1W  93T 1W
08/14/1999 15:03  1   1.65    0.01  Bay_1                                  ALA
          88T 4W  93T 2W
VXW                                                                       ERROR
08/14/1999 15:13  1   0.41    0.01  Bay_1
          88T 2W  93T 2W
08/14/1999 15:23  1   1.47    0.00  Bay_1                                  ALA
          87T 4W
VXW                                                                       ERROR
08/14/1999 15:33  1   2.02    0.01  Bay_1                                  ALA
          86T 3W  93T 2W
VXW                                                                       ERROR
08/14/1999 15:43  1   1.48    0.01  Bay_1                                  ALA
          87T 3W  93T 2W
08/14/1999 15:53  1   0.00    0.00  Bay_1
08/14/1999 16:03  1   1.61    0.01  Bay_1                                  ALA
          88T 4W  93T 2W
VXW                                                                       ERROR
08/14/1999 16:13  1   1.19    0.00  Bay_1                                  ALA
          87T 2W
08/14/1999 16:23  1   1.60    0.01  Bay_1                                  ALA
          88T 4W  93T 2W
VXW                                                                       ERROR
08/14/1999 16:33  1   0.53    0.01  Bay_1
          87T 1W  93T 2W
08/14/1999 16:43  1   0.37    0.00  Bay_1
          88T 1W
08/14/1999 16:53  1   1.61    0.01  Bay_1                                  ALA
          86T 5W  93T 1W
VXW                                                                       ERROR
08/14/1999 17:03  1   1.73    0.01  Bay_1                                  ALA
          86T 4W  93T 2W
VXW                                                                       ERROR
08/14/1999 17:13  1   0.81    0.00  Bay_1                                  ALA
          88T 1W
08/14/1999 17:23  1   0.98    0.01  Bay_1                                  ALA
          87T 2W  93T 2W
08/14/1999 17:33  1   1.51    0.01  Bay_1                                  ALA
          86T 5W  93T 1W
VXW                                                                       ERROR
```

```
08/14/1999 17:43  1   1.51    0.01  Bay_1                                  ALA
         86T 4W  93T 2W
VXW                                                                       ERROR
08/14/1999 17:53  1   1.47    0.00  Bay_1                                  ALA
         89T 3W
VXW                                                                       ERROR
08/14/1999 18:03  1   0.00    0.00  Bay_1
08/14/1999 18:13  1   1.20    0.01  Bay_1                                  ALA
         87T 2W  93T 2W
08/14/1999 18:23  1   0.00    0.01  Bay_1
                 92T 2W
08/14/1999 18:33  1   1.31    0.01  Bay_1                                  ALA
         88T 4W  93T 1W
VXW                                                                       ERROR
08/14/1999 18:43  1   1.34    0.01  Bay_1                                  ALA
         87T 4W  93T 1W
VXW                                                                       ERROR
08/14/1999 18:53  1   1.20    0.00  Bay_1                                  ALA
         88T 3W
VXW                                                                       ERROR
08/14/1999 19:03  1   0.00    0.00  Bay_1
08/14/1999 19:13  1   1.34    0.01  Bay_1                                  ALA
         89T 3W  93T 1W
VXW                                                                       ERROR
08/14/1999 19:23  1   1.18    0.01  Bay_1                                  ALA
         87T 3W  93T 2W
VXW                                                                       ERROR
08/14/1999 19:33  1   1.18    0.00  Bay_1                                  ALA
         87T 3W
08/14/1999 19:43  1   0.00    0.00  Bay_1
08/14/1999 19:53  1   1.03    0.00  Bay_1                                  ALA
         88T 4W
VXW                                                                       ERROR
08/14/1999 20:03  1   1.13    0.01  Bay_1                                  ALA
         86T 4W  93T 1W
VXW                                                                       ERROR
08/14/1999 20:13  1   0.00    0.00  Bay_1
08/14/1999 20:23  1   0.00    0.00  Bay_1
08/14/1999 20:33  1   1.04    0.01  Bay_1                                  ALA
         86T 4W  93T 1W
VXW                                                                       ERROR
08/14/1999 20:43  1   0.89    0.01  Bay_1                                  ALA
         86T 3W  93T 1W
VXW                                                                       ERROR
08/14/1999 20:53  1   0.51    0.00  Bay_1
         88T 3W
08/14/1999 21:03  1   0.99    0.01  Bay_1                                  ALA
         87T 4W  93T 1W
VXW                                                                       ERROR
08/14/1999 21:13  1   0.00    0.01  Bay_1
                 93T 2W
08/14/1999 21:23  1   0.85    0.01  Bay_1                                  ALA
         88T 4W  94T 2W
VXW                                                                       ERROR
08/14/1999 21:33  1   0.96    0.01  Bay_1                                  ALA
         87T 4W  93T 2W
VXW                                                                       ERROR
08/14/1999 21:43  1   0.00    0.00  Bay_1
08/14/1999 21:53  1   0.00    0.00  Bay_1
```

```
08/14/1999 22:03  1   0.00    0.01  Bay_1
          86T 1W  93T 2W
08/14/1999 22:13  1   0.85    0.01  Bay_1                                  ALA
          86T 5W  93T 1W
VXW                                                                        ERROR
08/14/1999 22:23  1   0.81    0.01  Bay_1                                  ALA
          87T 4W  93T 1W
VXW                                                                        ERROR
08/14/1999 22:33  1   0.00    0.01  Bay_1
                  93T 1W
08/14/1999 22:43  1   0.00    0.00  Bay_1
08/14/1999 22:53  1   0.00    0.01  Bay_1
                  93T 2W
08/14/1999 23:03  1   0.34    0.01  Bay_1
          87T 1W  93T 1W
08/14/1999 23:13  1   0.23    0.00  Bay_1
          88T 1W
08/14/1999 23:23  1   0.00    0.01  Bay_1
                  93T 2W
08/14/1999 23:33  1   0.00    0.01  Bay_1
                  93T 2W
08/14/1999 23:43  1   0.00    0.00  Bay_1
08/14/1999 23:53  1   0.00    0.01  Bay_1
                  92T 1W
08/15/1999 00:03  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 00:13  1   0.00    0.01  Bay_1
                  93T 1W
08/15/1999 00:23  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 00:33  1   0.00    0.01  Bay_1
                  93T 1W
08/15/1999 00:43  1   0.00    0.00  Bay_1
08/15/1999 00:53  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 01:03  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 01:13  1   0.28    0.00  Bay_1
          87T 1W
08/15/1999 01:23  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 01:33  1   0.43    0.01  Bay_1
          86T 3W  92T 2W
08/15/1999 01:43  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 01:53  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 02:03  1   0.00    0.00  Bay_1
08/15/1999 02:13  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 02:23  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 02:33  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 02:43  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 02:53  1   0.00    0.01  Bay_1
                  93T 2W
08/15/1999 03:03  1   0.14    0.00  Bay_1
          88T 1W
```

Monitor Serial Number 1358 Date 08/15/1999 Sampling Station 1

Date Time Zone LY SP THAS

		93T 2W		
08/15/1999 03:23	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 03:33	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 03:43	1	0.14	0.01	Bay_1
88T 1W		93T 1W		
08/15/1999 03:53	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 04:03	1	0.00	0.01	Bay_1
		93T 1W		
08/15/1999 04:13	1	0.29	0.01	Bay_1
86T 2W		93T 1W		
08/15/1999 04:23	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 04:33	1	0.00	0.00	Bay_1
08/15/1999 04:43	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 04:53	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 05:03	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 05:13	1	0.00	0.00	Bay_1
08/15/1999 05:23	1	0.00	0.00	Bay_1
08/15/1999 05:33	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 05:43	1	0.00	0.01	Bay_1
		94T 2W		
08/15/1999 05:53	1	0.00	0.00	Bay_1
08/15/1999 06:03	1	0.15	0.01	Bay_1
86T 2W		93T 2W		
08/15/1999 06:13	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 06:23	1	0.25	0.01	Bay_1
87T 1W		93T 1W		
08/15/1999 06:33	1	0.00	0.01	Bay_1
		93T 1W		
08/15/1999 06:43	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 06:53	1	0.00	0.00	Bay_1
08/15/1999 07:03	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 07:13	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 07:23	1	0.59	0.01	Bay_1
87T 3W		93T 2W		
08/15/1999 07:33	1	0.00	0.01	Bay_1
		94T 2W		
08/15/1999 07:43	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 07:53	1	0.21	0.01	Bay_1
87T 2W		93T 2W		
08/15/1999 08:03	1	0.00	0.00	Bay_1
08/15/1999 08:13	1	0.00	0.01	Bay_1
		93T 1W		
08/15/1999 08:23	1	0.00	0.01	Bay_1
		93T 2W		
08/15/1999 08:33	1	0.13	0.00	Bay_1
87T 1W				

Monitor Serial Number 1358 Date 08/15/1999 Sampling Station 1

88T 1W
08/15/1999 08:53 1 0.25 0.00 Bay_1
87T 2W

Monitor Serial Number 1358 Date 08/15/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/15/1999	08:57	1	0.00	0.00	Bay_1	
08/15/1999	09:07	1	0.11	0.00	Bay_1	
	86T 2W					
08/15/1999	09:17	1	0.97	0.82	Bay_1	CHE
	86T 2W 93T 2W					

08/15/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:18

S/N 1358 CHECK STATION 1

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 35	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a152	± 15
	FPD Flame	s225	a203	± 99
	Column		a 88	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 48	
	PCT heater, low	s 40	a 41	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.4	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 465	± 99
	Average flow rate		a 451	
	Volume, L		a3.61	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1100 a1094 ± 50

ELECTROMETER: FPD signal, nA 87 FPD zero, nA 145

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.97C	116H*	315A	86.0T	2.1W	b 83	e 89
GB	1 FPD	0.82C	1795H*	3765A	92.8T	1.8W	b 90	e 96

CALIBRATION DATA:

VX 1 @	1.00 FPD	120H*	272A	88.3T	1.8W	08/13/1999	15:23
GB 1 @	1.00 FPD	2197H*	4351A	93.2T	1.7W	08/13/1999	15:23

SAMPLING SEQUENCE:

A0 Bay_1

DC
RB

Monitor Serial Number 1358 Date 08/15/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:27	1	0.17	0.02	Bay_1	
	86T 2W	93T 2W				
08/15/1999	09:37	1	0.34	0.01	Bay_1	
	86T 3W	93T 2W				
08/15/1999	09:47	1	0.14	0.01	Bay_1	
	85T 1W	93T 2W				
08/15/1999	09:57	1	0.29	0.01	Bay_1	
	87T 2W	93T 2W				
08/15/1999	10:07	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	10:17	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	10:27	1	0.42	0.01	Bay_1	
	86T 2W	93T 1W				
08/15/1999	10:37	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	10:47	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	10:57	1	0.00	0.01	Bay_1	
		93T 1W				
08/15/1999	11:07	1	0.59	0.01	Bay_1	
	87T 3W	93T 2W				
08/15/1999	11:17	1	0.00	0.01	Bay_1	
		93T 1W				
08/15/1999	11:27	1	0.00	0.00	Bay_1	
08/15/1999	11:37	1	0.00	0.01	Bay_1	
		92T 1W				
08/15/1999	11:47	1	0.47	0.01	Bay_1	
	83T 3W	93T 2W				
08/15/1999	11:57	1	0.00	0.01	Bay_1	
		93T 1W				
08/15/1999	12:07	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	12:17	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	12:27	1	0.00	0.01	Bay_1	
		93T 1W				
08/15/1999	12:37	1	0.32	0.01	Bay_1	
	87T 1W	93T 1W				
08/15/1999	12:47	1	0.55	0.01	Bay_1	
	86T 2W	93T 2W				
08/15/1999	12:57	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	13:07	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	13:17	1	0.31	0.01	Bay_1	
	86T 2W	93T 2W				
08/15/1999	13:27	1	0.59	0.01	Bay_1	
	86T 2W	93T 2W				
08/15/1999	13:37	1	0.54	0.01	Bay_1	
	86T 1W	93T 1W				
08/15/1999	13:47	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	13:57	1	0.41	0.01	Bay_1	
	87T 2W	93T 1W				
08/15/1999	14:07	1	0.40	0.00	Bay_1	
	87T 2W					
08/15/1999	14:17	1	1.04	0.01	Bay_1	ALA

Monitor Serial Number 1358 Date 08/15/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/15/1999	14:27	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	14:37	1	0.00	0.01	Bay_1	
		93T 1W				
08/15/1999	14:47	1	0.51	0.01	Bay_1	
	86T 2W	93T 2W				
08/15/1999	14:57	1	0.74	0.00	Bay_1	
	86T 2W					
08/15/1999	15:07	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	15:17	1	0.58	0.00	Bay_1	
	86T 3W					
08/15/1999	15:27	1	0.36	0.00	Bay_1	
	88T 1W					
08/15/1999	15:37	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	15:47	1	0.00	0.01	Bay_1	
		92T 2W				
08/15/1999	15:57	1	0.00	0.00	Bay_1	
08/15/1999	16:07	1	0.00	0.01	Bay_1	
		92T 2W				
08/15/1999	16:17	1	0.00	0.00	Bay_1	
08/15/1999	16:27	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	16:37	1	1.01	0.01	Bay_1	ALA
	85T 5W	93T 2W				
VXW						ERROR
08/15/1999	16:47	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	16:57	1	0.00	0.00	Bay_1	
08/15/1999	17:07	1	1.07	0.01	Bay_1	ALA
	86T 4W	93T 1W				
VXW						ERROR
08/15/1999	17:17	1	1.13	0.01	Bay_1	ALA
	86T 4W	93T 2W				
VXW						ERROR
08/15/1999	17:27	1	0.00	0.00	Bay_1	
08/15/1999	17:37	1	0.00	0.03	Bay_1	
		91T 1W				
08/15/1999	17:47	1	1.03	0.01	Bay_1	ALA
	86T 4W	93T 2W				
VXW						ERROR
08/15/1999	17:57	1	0.37	0.00	Bay_1	
	86T 1W					
08/15/1999	18:07	1	0.00	0.00	Bay_1	
08/15/1999	18:17	1	0.00	0.01	Bay_1	
		92T 2W				
08/15/1999	18:27	1	0.00	0.01	Bay_1	
		93T 2W				
08/15/1999	18:37	1	1.01	0.01	Bay_1	ALA
	87T 4W	93T 2W				
VXW						ERROR
08/15/1999	18:47	1	0.28	0.00	Bay_1	
	88T 1W					
08/15/1999	18:57	1	0.00	0.02	Bay_1	
		90T 2W				
08/15/1999	19:07	1	0.00	0.00	Bay_1	
08/15/1999	19:17	1	0.00	0.01	Bay_1	
		93T 2W				

Monitor Serial Number 1358 Date 08/15/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/15/1999	19:27	1	1.04	0.01	Bay_1	ALA
87T 4W	93T 1W					
VXW						ERROR
08/15/1999	19:37	1	0.00	0.00	Bay_1	
08/15/1999	19:47	1	0.00	0.02	Bay_1	
90T 1W						
08/15/1999	19:57	1	0.44	0.00	Bay_1	
87T 2W						
08/15/1999	20:07	1	0.00	0.01	Bay_1	
93T 2W						
08/15/1999	20:17	1	0.00	0.01	Bay_1	
92T 1W						
08/15/1999	20:27	1	0.00	0.01	Bay_1	
93T 2W						
08/15/1999	20:37	1	0.00	0.01	Bay_1	
93T 1W						
08/15/1999	20:47	1	0.00	0.00	Bay_1	
08/15/1999	20:57	1	0.28	0.01	Bay_1	
85T 2W	92T 2W					
08/15/1999	21:07	1	0.00	0.01	Bay_1	
93T 2W						
08/15/1999	21:17	1	0.00	0.00	Bay_1	
08/15/1999	21:27	1	0.00	0.00	Bay_1	
08/15/1999	21:37	1	0.00	0.01	Bay_1	
93T 1W						
08/15/1999	21:47	1	0.32	0.01	Bay_1	
86T 2W	93T 2W					
08/15/1999	21:57	1	0.24	0.01	Bay_1	
86T 1W	93T 2W					
08/15/1999	22:07	1	0.34	0.00	Bay_1	
87T 2W						
08/15/1999	22:17	1	0.00	0.01	Bay_1	
92T 2W						
08/15/1999	22:27	1	0.00	0.00	Bay_1	
08/15/1999	22:37	1	0.00	0.01	Bay_1	
93T 2W						
08/15/1999	22:47	1	0.00	0.01	Bay_1	
93T 2W						
08/15/1999	22:57	1	0.00	0.00	Bay_1	
08/15/1999	23:07	1	0.00	0.01	Bay_1	
93T 2W						
08/15/1999	23:17	1	0.17	0.01	Bay_1	
86T 1W	93T 2W					
08/15/1999	23:27	1	0.00	0.01	Bay_1	
93T 2W						
08/15/1999	23:37	1	0.25	0.01	Bay_1	
86T 2W	93T 2W					
08/15/1999	23:47	1	0.00	0.00	Bay_1	
08/15/1999	23:57	1	0.00	0.01	Bay_1	
93T 2W						
08/16/1999	00:07	1	0.00	0.01	Bay_1	
93T 2W						
08/16/1999	00:17	1	0.29	0.01	Bay_1	
86T 2W	93T 2W					
08/16/1999	00:27	1	0.00	0.01	Bay_1	
93T 2W						
08/16/1999	00:37	1	0.00	0.00	Bay_1	
08/16/1999	00:47	1	0.18	0.01	Bay_1	
87T 2W	93T 2W					

Date	Time	Port	VX	GB		TWAG
08/16/1999	00:57	1	0.18	0.00	Bay_1	
	88T 1W					
08/16/1999	01:07	1	0.00	0.01	Bay_1	
		93T 1W				
08/16/1999	01:17	1	0.00	0.00	Bay_1	
08/16/1999	01:27	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	01:37	1	0.27	0.01	Bay_1	
	87T 3W	93T 1W				
08/16/1999	01:47	1	0.00	0.00	Bay_1	
08/16/1999	01:57	1	0.16	0.00	Bay_1	
	87T 2W					
08/16/1999	02:07	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	02:17	1	0.26	0.01	Bay_1	
	86T 2W	92T 2W				
08/16/1999	02:27	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	02:37	1	0.20	0.00	Bay_1	
	86T 1W					
08/16/1999	02:47	1	0.00	0.00	Bay_1	
08/16/1999	02:57	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	03:07	1	0.14	0.01	Bay_1	
	88T 1W	93T 1W				
08/16/1999	03:17	1	0.17	0.01	Bay_1	
	86T 2W	93T 2W				
08/16/1999	03:27	1	0.32	0.00	Bay_1	
	87T 3W					
08/16/1999	03:37	1	0.24	0.00	Bay_1	
	87T 2W					
08/16/1999	03:47	1	0.14	0.00	Bay_1	
	87T 1W					
08/16/1999	03:57	1	0.16	0.00	Bay_1	
	86T 1W					
08/16/1999	04:07	1	0.19	0.01	Bay_1	
	88T 1W	93T 1W				
08/16/1999	04:17	1	0.00	0.01	Bay_1	
		92T 1W				
08/16/1999	04:27	1	0.17	0.00	Bay_1	
	85T 1W					
08/16/1999	04:37	1	0.36	0.01	Bay_1	
	85T 2W	93T 2W				
08/16/1999	04:47	1	0.23	0.00	Bay_1	
	86T 2W					
08/16/1999	04:57	1	0.00	0.00	Bay_1	
08/16/1999	05:07	1	0.00	0.00	Bay_1	
08/16/1999	05:17	1	0.26	0.01	Bay_1	
	86T 3W	93T 3W				
08/16/1999	05:27	1	0.20	0.00	Bay_1	
	86T 1W					
08/16/1999	05:37	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	05:47	1	0.00	0.00	Bay_1	
08/16/1999	05:57	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	06:07	1	0.20	0.00	Bay_1	
	87T 2W					
08/16/1999	06:17	1	0.00	0.00	Bay_1	

Date	Time	Port	VX	GB			TWAG
08/16/1999	06:27	1	0.11	0.01	Bay_1		
	88T 2W	93T 2W					
08/16/1999	06:37	1	0.16	0.00	Bay_1		
	86T 2W						
08/16/1999	06:47	1	0.00	0.01	Bay_1		
		93T 2W					
08/16/1999	06:57	1	0.00	0.01	Bay_1		
		93T 2W					
08/16/1999	07:07	1	0.00	0.01	Bay_1		
		92T 1W					
08/16/1999	07:17	1	0.00	0.01	Bay_1		
		93T 2W					
08/16/1999	07:27	1	0.00	0.00	Bay_1		
08/16/1999	07:37	1	0.00	0.01	Bay_1		
		93T 2W					
08/16/1999	07:47	1	0.00	0.01	Bay_1		
		93T 1W					
08/16/1999	07:57	1	0.00	0.01	Bay_1		
		92T 2W					
08/16/1999	08:07	1	0.17	0.01	Bay_1		
	87T 1W	93T 2W					
08/16/1999	08:17	1	1.06	0.81	Bay_1		CHE
	86T 2W	93T 2W					

08/16/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:18

S/N 1358 ALARM STATION 1

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 34	± 15
	Inlet	s 50	a 50	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a203	± 99
	Column		a 70	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 41	
	PCT heater, low	s 40	a 41	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 37	± 5
	Helium	s 40	a40.3	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 456	± 99
	Average flow rate		a 453	
	Volume, L		a3.63	

TIMES, sec:	Purge	b 0	e120	Sample b120	e600
	Desorb	b 5	e 50	Column b 40	e100
	Column purge	b100	e100	Inject b120	e130
	FPD zero		On		

VOLTAGE, VDC:	FPD photomultiplier	s1100	a1099	± 50
ELECTROMETER:	FPD signal, nA	83	FPD zero, nA	148

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

DC
RCB

VX 1 FPD 1.06 136Hx 346A 92 1T 2 4W b 93 e 99

CALIBRATION DATA:

```
VX 1 @  1.00 FPD      120H*    272A   86.3T  1.8W 08/13/1999   15:23
GB 1 @  1.00 FPD     2197H*   4351A   93.2T  1.7W 08/13/1999   15:23
```

SAMPLING SEQUENCE:

A01 Bay_1

ELAPSED TIME ********** 164 sec

Monitor Serial Number 1358 Date 08/16/1999 Sampling Station 1

```
Date        Time  Port   VX      GB                                    TWAG

08/16/1999 08:27  1   0.00    0.02  Bay_1
                  93T 2W
08/16/1999 08:37  1   0.00    0.01  Bay_1
                  93T 2W
08/16/1999 08:47  1   0.00    0.01  Bay_1
                  93T 2W
MINI-NET COMMUNICATIONS OFFLINE
08/16/1999 08:57  1   0.15    0.01  Bay_1
         87T 2W  93T 1W
08/16/1999 09:07  1   0.00    0.00  Bay_1
08/16/1999 09:17  1   0.30    0.01  Bay_1
         86T 2W  93T 2W
08/16/1999 09:27  1   0.00    0.01  Bay_1
                  93T 1W
08/16/1999 09:37  1   0.00    0.00  Bay_1
08/16/1999 09:47  1   0.16    0.00  Bay_1
         87T 2W
08/16/1999 09:57  1   0.33    0.01  Bay_1
         87T 2W  93T 2W
08/16/1999 10:07  1   0.35    0.01  Bay_1
         86T 2W  93T 2W
08/16/1999 10:17  1   0.00    0.01  Bay_1
                  93T 2W
08/16/1999 10:27  1   0.26    0.01  Bay_1
         87T 2W  93T 2W
08/16/1999 10:37  1   0.00    0.01  Bay_1
                  92T 2W
08/16/1999 10:47  1   0.00    0.01  Bay_1
                  93T 1W
08/16/1999 10:57  1   0.00    0.01  Bay_1
                  92T 1W
08/16/1999 11:07  1   0.00    0.01  Bay_1
                  93T 2W
08/16/1999 11:17  1   0.00    0.01  Bay_1
                  93T 1W
08/16/1999 11:27  1   0.00    0.00  Bay_1
08/16/1999 11:37  1   0.00    0.01  Bay_1
                  93T 1W
08/16/1999 11:47  1   0.29    0.01  Bay_1
         86T 2W  93T 2W
08/16/1999 11:57  1   0.00    0.00  Bay_1
08/16/1999 12:07  1   0.00    0.01  Bay_1
                  93T 1W
08/16/1999 12:17  1   0.20    0.01  Bay_1
         86T 2W  93T 2W
08/16/1999 12:27  1   0.35    0.01  Bay_1
         86T 1W  93T 2W
MINI-NET COMMUNICATIONS ONLINE
```

DCD VXW ERROR

08/16/1999 12:47 1 0.32 0.01 Bay_1
86T 2W 93T 2W
08/16/1999 12:57 1 0.00 0.00 Bay_1
08/16/1999 13:07 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 13:17 1 0.67 0.01 Bay_1
87T 2W 93T 2W
08/16/1999 13:27 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 13:37 1 0.00 0.01 Bay_1
93T 2W

Monitor Serial Number 1358 Date 08/16/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/16/1999	13:47	1	0.00	0.02	Bay_1	
		93T 2W				
08/16/1999	13:57	1	0.00	0.01	Bay_1	
		93T 1W				
08/16/1999	14:07	1	0.59	0.01	Bay_1	
		87T 3W	93T 2W			
08/16/1999	14:17	1	0.22	0.01	Bay_1	
		88T 2W	93T 2W			
08/16/1999	14:27	1	0.39	0.00	Bay_1	
		86T 2W				
08/16/1999	14:37	1	0.00	0.00	Bay_1	
08/16/1999	14:47	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	14:57	1	0.69	0.01	Bay_1	
		86T 2W	93T 2W			
08/16/1999	15:07	1	0.52	0.01	Bay_1	
		87T 2W	93T 2W			
08/16/1999	15:17	1	1.17	0.01	Bay_1	ALA
		87T 4W	93T 2W			
VXW						ERROR
08/16/1999	15:27	1	0.31	0.00	Bay_1	
		87T 1W				
08/16/1999	15:37	1	0.00	0.00	Bay_1	
08/16/1999	15:47	1	1.06	0.01	Bay_1	ALA
		86T 4W	93T 1W			
VXW						ERROR
08/16/1999	15:57	1	0.00	0.00	Bay_1	
08/16/1999	16:07	1	0.00	0.00	Bay_1	
08/16/1999	16:17	1	0.34	0.00	Bay_1	
		87T 2W				
08/16/1999	16:27	1	0.68	0.01	Bay_1	
		86T 2W	93T 2W			
08/16/1999	16:37	1	0.00	0.01	Bay_1	
		93T 2W				
08/16/1999	16:47	1	0.00	0.00	Bay_1	
08/16/1999	16:57	1	1.18	0.01	Bay_1	ALA
		87T 4W	93T 2W			
VXW						ERROR
08/16/1999	17:07	1	1.02	0.00	Bay_1	ALA
		86T 5W				
VXW						ERROR
08/16/1999	17:17	1	0.00	0.00	Bay_1	
08/16/1999	17:27	1	0.00	0.00	Bay_1	
08/16/1999	17:37	1	0.00	0.01	Bay_1	
		93T 1W				

08/16/1999 17:57 1 0.00 0.01 Bay_1
87T 1W 93T 2W
08/16/1999 18:07 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 18:17 1 0.26 0.00 Bay_1
87T 1W
08/16/1999 18:27 1 0.32 0.01 Bay_1
89T 2W 93T 1W
08/16/1999 18:37 1 0.27 0.01 Bay_1
85T 1W 93T 2W
08/16/1999 18:47 1 0.00 0.01 Bay_1
92T 2W

Monitor Serial Number 1358 Date 08/16/1999 Sampling Station 1

Date Time Port VX GB TWAG

08/16/1999 18:57 1 0.00 0.00 Bay_1
08/16/1999 19:07 1 1.08 0.00 Bay_1 ALA
87T 3W
VXW ERROR
08/16/1999 19:17 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 19:27 1 0.39 0.01 Bay_1
89T 1W 93T 1W
08/16/1999 19:37 1 0.52 0.00 Bay_1
87T 2W
08/16/1999 19:47 1 0.46 0.01 Bay_1
88T 2W 92T 2W
08/16/1999 19:57 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 20:07 1 0.30 0.01 Bay_1
87T 2W 93T 1W
08/16/1999 20:17 1 0.00 0.00 Bay_1
08/16/1999 20:27 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 20:37 1 0.48 0.00 Bay_1
87T 2W
08/16/1999 20:47 1 0.86 0.01 Bay_1
86T 2W 93T 2W
08/16/1999 20:57 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 21:07 1 0.00 0.01 Bay_1
92T 2W
08/16/1999 21:17 1 0.42 0.01 Bay_1
86T 3W 93T 2W
08/16/1999 21:27 1 0.13 0.01 Bay_1
87T 1W 93T 1W
08/16/1999 21:37 1 0.00 0.00 Bay_1
08/16/1999 21:47 1 0.00 0.00 Bay_1
08/16/1999 21:57 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 22:07 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 22:17 1 0.00 0.00 Bay_1
08/16/1999 22:27 1 0.18 0.00 Bay_1
87T 1W
08/16/1999 22:37 1 0.20 0.00 Bay_1
87T 2W
08/16/1999 22:47 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 22:57 1 0.00 0.00 Bay_1
08/16/1999 23:07 1 0.00 0.01 Bay_1
93T 2W

08/16/1999 23:27 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 23:37 1 0.00 0.01 Bay_1
93T 2W
08/16/1999 23:47 1 0.22 0.01 Bay_1
88T 2W 93T 1W
08/16/1999 23:57 1 0.29 0.01 Bay_1
86T 3W 93T 2W
08/17/1999 00:07 1 0.20 0.01 Bay_1
87T 2W 93T 1W

Monitor Serial Number 1358 Date 08/17/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/17/1999	00:17	1	0.37	0.01	Bay_1	
87T 3W	93T 2W					
08/17/1999	00:27	1	0.00	0.01	Bay_1	
92T 3W						
08/17/1999	00:37	1	0.16	0.00	Bay_1	
86T 1W						
08/17/1999	00:47	1	0.20	0.01	Bay_1	
86T 1W	93T 1W					
08/17/1999	00:57	1	0.18	0.00	Bay_1	
87T 2W						
08/17/1999	01:07	1	0.00	0.01	Bay_1	
93T 1W						
08/17/1999	01:17	1	0.00	0.01	Bay_1	
93T 2W						
08/17/1999	01:27	1	0.29	0.00	Bay_1	
87T 2W						
08/17/1999	01:37	1	0.00	0.01	Bay_1	
93T 1W						
08/17/1999	01:47	1	0.00	0.01	Bay_1	
93T 2W						
08/17/1999	01:57	1	0.19	0.01	Bay_1	
88T 2W	93T 1W					
08/17/1999	02:07	1	0.15	0.01	Bay_1	
86T 2W	93T 1W					
08/17/1999	02:17	1	0.00	0.00	Bay_1	
08/17/1999	02:27	1	0.13	0.01	Bay_1	
86T 1W	93T 1W					
08/17/1999	02:37	1	0.00	0.00	Bay_1	
08/17/1999	02:47	1	0.00	0.01	Bay_1	
93T 1W						
08/17/1999	02:57	1	0.00	0.01	Bay_1	
93T 2W						
08/17/1999	03:07	1	0.00	0.00	Bay_1	
08/17/1999	03:17	1	0.00	0.01	Bay_1	
93T 1W						
08/17/1999	03:27	1	0.16	0.01	Bay_1	
85T 2W	92T 2W					
08/17/1999	03:37	1	0.00	0.01	Bay_1	
93T 2W						
08/17/1999	03:47	1	0.00	0.01	Bay_1	
92T 1W						
08/17/1999	03:57	1	0.40	0.00	Bay_1	
87T 3W						
08/17/1999	04:07	1	0.21	0.00	Bay_1	
86T 1W						
08/17/1999	04:17	1	0.00	0.01	Bay_1	
93T 2W						

```
                    93T 2W
08/17/1999 04:47  1   0.00    0.01  Bay_1
                    93T 2W
08/17/1999 04:57  1   0.00    0.01  Bay_1
                    93T 2W
08/17/1999 05:07  1   0.15    0.00  Bay_1
          87T 1W
08/17/1999 05:17  1   0.24    0.00  Bay_1
          87T 2W
08/17/1999 05:27  1   0.00    0.01  Bay_1
                    93T 2W


Monitor Serial Number 1358          Date 08/17/1999        Sampling Station    1

Date        Time  Port   VX      GB                                          TWAG

08/17/1999 05:37  1   0.21    0.00  Bay_1
          87T 3W
08/17/1999 05:47  1   0.10    0.01  Bay_1
          86T 2W  93T 2W
08/17/1999 05:57  1   0.00    0.00  Bay_1
08/17/1999 06:07  1   0.17    0.00  Bay_1
          88T 3W
08/17/1999 06:17  1   0.14    0.01  Bay_1
          89T 2W  93T 2W
08/17/1999 06:27  1   0.00    0.00  Bay_1
08/17/1999 06:37  1   0.15    0.01  Bay_1
          86T 1W  93T 1W
08/17/1999 06:47  1   0.15    0.01  Bay_1
          87T 2W  92T 2W
08/17/1999 06:57  1   0.00    0.01  Bay_1
                    93T 2W
08/17/1999 07:07  1   0.00    0.00  Bay_1
08/17/1999 07:17  1   0.00    0.00  Bay_1
08/17/1999 07:27  1   0.19    0.00  Bay_1
          87T 2W
08/17/1999 07:37  1   0.00    0.01  Bay_1
                    93T 2W
08/17/1999 07:47  1   0.32    0.01  Bay_1
          88T 2W  92T 2W
08/17/1999 07:57  1   0.22    0.01  Bay_1
          86T 2W  93T 1W
08/17/1999 08:07  1   0.25    0.00  Bay_1
          86T 2W
SAM                                                                       ERROR
08/17/1999 08:17  1   0.00    0.00  Bay_1                                  CHE
SAM                                                                       ERROR
08/17/1999 08:27  1   0.81    0.78  Bay_1                                  CHE
          87T 2W  93T 2W
08/17/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:29

S/N 1358                                                STATION    1

SOFTWARE:                                           Version 02181999

TEMPERATURES, °C:  Ambient              s 40        a 35        ± 15
                   Inlet                s 50        a 52        ± 15
                   FPD Block            s150        a151        ± 15
                   FPD Flame            s225        a202        ± 99
                   Column                           a 53
                   Column, low          s 40        a 40        ± 15
                   Column, high         s180        a179        ± 15
                   Column rate, °C/min  s150        a150        ± 20
                   Column rate, °C      s  0        a  0        ± 20
```

	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.2	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 458	± 99
	Average flow rate		a 457	
	Volume, L		a3.66	

PC
RB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1100	a1094	± 50
ELECTROMETER:	FPD signal, nA	76	FPD zero, nA	133

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.81C	97H*	247A	86.5T	2.2W	b 83	e 89
GB	1 FPD	0.78C	1707H*	3824A	93.1T	2.0W	b 90	e 96

CALIBRATION DATA:

VX 1 @	1.00 FPD	120H*	272A	86.3T	1.8W	08/13/1999	15:23
GB 1 @	1.00 FPD	2197H*	4351A	93.2T	1.7W	08/13/1999	15:23

SAMPLING SEQUENCE:

A01 Bay_1

ELAPSED TIME ********** 208 sec

Monitor Serial Number 1358 Date 08/17/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/17/1999	08:37	1	0.00	0.02	Bay_1	
		93T 2W				
08/17/1999	08:47	1	0.00	0.01	Bay_1	
		93T 1W				

Monitor Serial Number 1358 Date 08/17/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/17/1999	08:50		0.00	0.00		
RPC RCO FPD COR HCO HPC						ERROR
08/17/1999	09:00	1	0.00	0.00	Bay_1	
RPC RIN RCO RFP FLA FPD SAM INL COR HCO HPC						ERROR
08/17/1999	09:10	1	0.00	0.00	Bay_1	
RPC RIN RCO RFP FLA FPD SAM INL COR HCO HPC						ERROR
08/17/1999	09:20	1	0.00	0.00	Bay_1	
RPC RIN RCO RFP FLA FPD SAM INL COR LCO HCO HPC						ERROR
08/17/1999	09:30	1	0.00	0.00	Bay_1	
RPC RIN RCO RFP FLA FPD SAM INL COR LCO HCO HPC						ERROR
08/17/1999	09:40	1	0.00	0.00	Bay_1	
RPC RIN RCO RFP FLA FPD SAM INL COR LCO HCO HPC						ERROR
08/17/1999	09:50	1	0.00	0.00	Bay_1	

08/17/1999 10:10 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR
08/17/1999 10:20 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL COR LCO HCO HPC ERROR

Monitor Serial Number 1358 Date 08/17/1999 Sampling Station 1

Date Time Port VX GB TWAG

08/17/1999 10:30 0.00 0.00
FLA FPD WARMUP
08/17/1999 10:40 1 0.13 0.00 Bay_1
87T 2W
08/17/1999 10:50 1 0.71 0.01 Bay_1
87T 2W 93T 1W
08/17/1999 11:00 1 0.00 0.01 Bay_1
93T 2W
08/17/1999 11:10 1 0.80 0.00 Bay_1
88T 2W
08/17/1999 11:20 1 0.00 0.01 Bay_1
93T 2W
08/17/1999 11:30 1 0.28 0.01 Bay_1
86T 2W 93T 1W
08/17/1999 11:40 1 0.00 0.00

Monitor Serial Number 1358 Date 08/17/1999 Sampling Station 1

Date Time Port VX GB TWAG

08/17/1999 11:50 0.00 0.00
FLA FPD PMT H2P COR HCO HPC ERROR

Monitor Serial Number 1358 Date 08/17/1999 Sampling Station 1

Date Time Port VX GB TWAG

08/17/1999 11:56 0.08 0.01
87T 2W 94T 2W
FPD WARMUP
08/17/1999 12:06 1 0.00 0.01 Bay_1
93T 1W
08/17/1999 12:16 1 0.59 0.01 Bay_1
87T 3W 93T 2W
08/17/1999 12:26 1 0.45 0.00 Bay_1
88T 2W
08/17/1999 12:36 1 0.00 0.00 Bay_1
08/17/1999 12:46 1 0.45 0.01 Bay_1
88T 2W 92T 2W
08/17/1999 12:56 1 0.34 0.01 Bay_1
85T 2W 93T 2W
08/17/1999 13:06 1 0.44 0.01 Bay_1
87T 2W 93T 2W
08/17/1999 13:16 1 0.00 0.00 Bay_1
08/17/1999 13:26 1 0.30 0.00 Bay_1
86T 1W
08/17/1999 13:36 1 0.34 0.01 Bay_1
88T 1W 92T 2W
08/17/1999 13:46 1 0.00 0.01 Bay_1
93T 1W
08/17/1999 13:56 1 0.00 0.0 Bay_1
93T 2W

08/17/1999	14:16	1	0.00	0.00	Bay_1
08/17/1999	14:26	1	0.00	0.01	Bay_1
		93T 2W			
08/17/1999	14:36	1	0.00	0.01	Bay_1
		93T 2W			
08/17/1999	14:46	1	0.47	0.01	Bay_1
	86T 2W	93T 2W			
08/17/1999	14:56	1	0.55	0.01	Bay_1
	87T 3W	92T 2W			
08/17/1999	15:06	1	0.00	0.00	Bay_1
08/17/1999	15:16	1	0.00	0.00	Bay_1
08/17/1999	15:26	1	0.49	0.01	Bay_1
	86T 2W	93T 2W			
08/17/1999	15:36	1	0.00	0.00	Bay_1
08/17/1999	15:46	1	0.00	0.00	Bay_1
08/17/1999	15:56	1	0.47	0.01	Bay_1
	86T 2W	93T 1W			
08/17/1999	16:06	1	0.29	0.01	Bay_1
	86T 1W	93T 2W			
08/17/1999	16:16	1	0.00	0.01	Bay_1
		93T 1W			
08/17/1999	16:26	1	0.00	0.01	Bay_1
		93T 2W			
08/17/1999	16:36	1	0.51	0.02	Bay_1
	88T 2W	92T 1W			
08/17/1999	16:46	1	0.00	0.01	Bay_1
		93T 2W			
08/17/1999	16:56	1	0.38	0.00	Bay_1
	87T 1W				
08/17/1999	17:06	1	0.49	0.01	Bay_1
	86T 2W	93T 1W			
08/17/1999	17:16	1	0.36	0.00	Bay_1
	87T 2W				

Monitor Serial Number 1358 Date 08/17/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/17/1999	17:26	1	0.00	0.01	Bay_1	
		90T 1W				
08/17/1999	17:36	1	0.34	0.00	Bay_1	
	87T 1W					
08/17/1999	17:46	1	0.56	0.00	Bay_1	
	86T 2W					
08/17/1999	17:56	1	0.69	0.02	Bay_1	
	85T 3W	93T 2W				
08/17/1999	18:06	1	0.00	0.00	Bay_1	
08/17/1999	18:16	1	0.30	0.00	Bay_1	
	88T 2W					
08/17/1999	18:26	1	0.00	0.01	Bay_1	
		93T 2W				
08/17/1999	18:36	1	0.00	0.01	Bay_1	
		93T 2W				
08/17/1999	18:46	1	0.37	0.00	Bay_1	
	88T 2W					
08/17/1999	18:56	1	0.40	0.02	Bay_1	
	86T 1W	93T 2W				
08/17/1999	19:06	1	0.00	0.01	Bay_1	
		93T 3W				
08/17/1999	19:16	1	0.00	0.00	Bay_1	
08/17/1999	19:26	1	0.18	0.01	Bay_1	
	87T 2W	93T 2W				

```
          87T 2W  92T 1W
08/17/1999 19:56  1   0.43    0.01  Bay_1
          87T 2W  93T 1W
08/17/1999 20:06  1   0.40    0.00  Bay_1
          88T 2W
08/17/1999 20:16  1   0.26    0.01  Bay_1
          87T 1W  93T 2W
08/17/1999 20:26  1   0.00    0.00  Bay_1
08/17/1999 20:36  1   0.00    0.01  Bay_1
                  92T 2W
08/17/1999 20:46  1   0.00    0.01  Bay_1
                  94T 2W
08/17/1999 20:56  1   0.18    0.00  Bay_1
          86T 1W
08/17/1999 21:06  1   0.00    0.01  Bay_1
                  93T 2W
08/17/1999 21:16  1   0.00    0.01  Bay_1
                  91T 1W
08/17/1999 21:26  1   0.00    0.01  Bay_1
                  93T 2W
08/17/1999 21:36  1   0.28    0.01  Bay_1
          86T 2W  93T 2W
08/17/1999 21:46  1   0.17    0.01  Bay_1
          87T 2W  93T 1W
08/17/1999 21:56  1   0.00    0.01  Bay_1
                  93T 3W
08/17/1999 22:06  1   0.00    0.00  Bay_1
08/17/1999 22:16  1   0.00    0.00  Bay_1
08/17/1999 22:26  1   0.15    0.01  Bay_1
          88T 2W  93T 2W
08/17/1999 22:36  1   0.00    0.00  Bay_1
08/17/1999 22:46  1   0.00    0.01  Bay_1
                  93T 2W


Monitor Serial Number 1358          Date 08/17/1999        Sampling Station    1

Date        Time  Port   VX       GB                                          TWAG

08/17/1999 22:56  1   0.28    0.01  Bay_1
          87T 2W  93T 1W
08/17/1999 23:06  1   0.20    0.00  Bay_1
          86T 2W
08/17/1999 23:16  1   0.00    0.00  Bay_1
08/17/1999 23:26  1   0.19    0.00  Bay_1
          87T 2W
08/17/1999 23:36  1   0.16    0.01  Bay_1
          87T 1W  93T 2W
08/17/1999 23:46  1   0.22    0.01  Bay_1
          86T 3W  92T 2W
08/17/1999 23:56  1   0.00    0.01  Bay_1
                  93T 1W
08/18/1999 00:06  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 00:16  1   0.15    0.00  Bay_1
          86T 1W
08/18/1999 00:26  1   0.17    0.01  Bay_1
          86T 1W  93T 2W
08/18/1999 00:36  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 00:46  1   0.00    0.00  Bay_1
08/18/1999 00:56  1   0.11    0.01  Bay_1
          87T 2W  93T 2W
08/18/1999 01:06  1   0.00    0.00  Bay_1
```

08/18/1999	01:26	1	0.14	0.00	Bay_1
87T 1W					
08/18/1999	01:36	1	0.00	0.00	Bay_1
08/18/1999	01:46	1	0.00	0.01	Bay_1
93T 2W					
08/18/1999	01:56	1	0.18	0.01	Bay_1
86T 3W 93T 2W					
08/18/1999	02:06	1	0.00	0.00	Bay_1
08/18/1999	02:16	1	0.00	0.00	Bay_1
08/18/1999	02:26	1	0.17	0.01	Bay_1
87T 2W 93T 1W					
08/18/1999	02:36	1	0.10	0.00	Bay_1
88T 2W					
08/18/1999	02:46	1	0.17	0.00	Bay_1
87T 2W					
08/18/1999	02:56	1	0.19	0.00	Bay_1
87T 2W					
08/18/1999	03:06	1	0.24	0.01	Bay_1
87T 3W 93T 2W					
08/18/1999	03:16	1	0.00	0.00	Bay_1
08/18/1999	03:26	1	0.00	0.01	Bay_1
93T 2W					
08/18/1999	03:36	1	0.25	0.00	Bay_1
86T 3W					
08/18/1999	03:46	1	0.00	0.00	Bay_1
08/18/1999	03:56	1	0.14	0.01	Bay_1
88T 1W 93T 1W					
08/18/1999	04:06	1	0.00	0.01	Bay_1
93T 2W					
08/18/1999	04:16	1	0.16	0.01	Bay_1
86T 2W 93T 2W					
08/18/1999	04:26	1	0.20	0.01	Bay_1
88T 3W 93T 2W					

Monitor Serial Number 1358 Date 08/18/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/18/1999	04:36	1	0.00	0.01	Bay_1	
93T 1W						
08/18/1999	04:46	1	0.16	0.00	Bay_1	
88T 2W						
08/18/1999	04:56	1	0.00	0.00	Bay_1	
08/18/1999	05:06	1	0.27	0.01	Bay_1	
87T 2W 92T 2W						
08/18/1999	05:16	1	0.00	0.01	Bay_1	
93T 1W						
08/18/1999	05:26	1	0.00	0.01	Bay_1	
93T 1W						
08/18/1999	05:36	1	0.11	0.00	Bay_1	
87T 1W						
08/18/1999	05:46	1	0.23	0.01	Bay_1	
87T 2W 93T 2W						
08/18/1999	05:56	1	0.17	0.00	Bay_1	
85T 2W						
08/18/1999	06:06	1	0.00	0.00	Bay_1	
08/18/1999	06:16	1	0.00	0.00	Bay_1	
08/18/1999	06:26	1	0.00	0.01	Bay_1	
94T 2W						
08/18/1999	06:36	1	0.14	0.00	Bay_1	
88T 1W						
08/18/1999	06:46	1	0.13	0.01	Bay_1	

```
08/18/1999 07:06  1   0.00    0.00  Bay_1
08/18/1999 07:16  1   0.00    0.01  Bay_1
                 93T 2W
08/18/1999 07:26  1   0.08    0.00  Bay_1
         88T 1W
08/18/1999 07:36  1   0.12    0.00  Bay_1
         86T 1W
08/18/1999 07:46  1   0.00    0.00  Bay_1
08/18/1999 07:56  1   0.00    0.00  Bay_1
08/18/1999 08:06  1   0.00    0.00  Bay_1
08/18/1999 08:16  1   0.09    0.00  Bay_1
         85T 3W
08/18/1999 08:26  1   0.05    0.00  Bay_1
         85T 1W
08/18/1999 08:36  1   0.00    0.00  Bay_1
08/18/1999 08:46  1   0.80    0.86  Bay_1                                  CAL
         87T 2W  93T 2W
CALIBRATION  VX      6B
AVERAGE     96H   1896H
08/18/1999 08:56  1   1.98    2.06  Bay_1                                  CHE
         86T 2W  93T 2W
08/18/1999 09:06  1   1.06    1.10  Bay_1                                  CHE
         86T 2W  93T 2W
08/18/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:06

S/N 1358            CHECK                                STATION    1

SOFTWARE:                                            Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 33        ± 15
                    Inlet                s 50        a 51        ± 15
                    FPD Block            s150        a153        ± 15
                    FPD Flame            s225        a209        ± 99
                    Column                           a 94
                    Column, low          s 40        a 40        ± 15
                    Column, high         s180        a179        ± 15
                    Column rate, °C/min  s150        a150        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 49
                    PCT heater, low      s 40        a 41        ± 20
                    PCT heater, high     s235        a235        ± 30

PRESSURES, psi:     Air                  s 35        a 38        ±  5
                    Helium               s 40       a40.6        ±  5
                    Hydrogen             s 35        a 37        ±  5

SAMPLE:             Flow rate, ccm      s 450       a 469        ± 99
                    Average flow rate               a 447
                    Volume, L                      a3.58

TIMES, sec:         Purge          b  0   e120   Sample   b120    e600
                    Desorb         b  5   e 50   Column   b 40    e100
                    Column purge  b100   e100   Inject   b120    e130
                    FPD zero               On

VOLTAGE, VDC:       FPD photomultiplier s1100       a1099        ± 50

ELECTROMETER:       FPD signal, nA          87   FPD  zero, nA     154

CONCENTRATION REPORTS:                   Alarm setpoint, TWAG    1.00

VX   1 FPD   1.080    101H*    257A   86.2T  2.2W       b 83    e 89
6B   1 FPD   1.100   2078H*   4539A   82.9T  1.9W       b 90    e 96
```

DC
RB

```
VX 1 @  1.00 FPD       96H*    229A   86.5T  2.0W 08/18/1999   08:47
GB 1 @  1.00 FPD     1896H*   4221A   93.2T  1.9W 08/18/1999   08:47

SAMPLING SEQUENCE:

  A01   Bay_1

ELAPSED TIME ********************************************** 132 sec


Monitor Serial Number 1358          Date 08/18/1999        Sampling Station    1

Date        Time  Port  VX      GB                                          TWAG

08/18/1999 09:16  1   0.23    0.04  Bay_1
          86T 3W  93T 2W
08/18/1999 09:26  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 09:36  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 09:46  1   0.49    0.00  Bay_1
          86T 2W
08/18/1999 09:56  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 10:06  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 10:16  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 10:26  1   0.28    0.01  Bay_1
          86T 1W  93T 2W
08/18/1999 10:36  1   0.00    0.01  Bay_1
                  93T 3W
08/18/1999 10:46  1   0.61    0.01  Bay_1
          86T 3W  92T 2W
08/18/1999 10:56  1   0.46    0.01  Bay_1
          85T 3W  93T 1W
08/18/1999 11:06  1   0.00    0.00  Bay_1
08/18/1999 11:16  1   0.35    0.01  Bay_1
          87T 1W  93T 1W
08/18/1999 11:26  1   0.00    0.00  Bay_1
08/18/1999 11:36  1   0.64    0.01  Bay_1
          87T 3W  93T 2W
08/18/1999 11:46  1   0.53    0.01  Bay_1
          86T 3W  93T 2W
08/18/1999 11:56  1   0.00    0.01  Bay_1
                  94T 2W
08/18/1999 12:06  1   0.37    0.01  Bay_1
          86T 2W  93T 1W
08/18/1999 12:16  1   0.30    0.00  Bay_1
          88T 1W
08/18/1999 12:26  1   0.34    0.01  Bay_1
          87T 1W  93T 2W
08/18/1999 12:36  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 12:46  1   0.00    0.01  Bay_1
                  93T 2W
08/18/1999 12:56  1   0.43    0.01  Bay_1
          87T 2W  93T 2W
08/18/1999 13:06  1   0.00    0.01  Bay_1
                  93T 1W
08/18/1999 13:15  1   0.47    0.00  Bay_1
          86T 2W
08/18/1999 13:26  1   0.00    0.00  Bay_1
```

93T 2W
08/18/1999 13:56 1 0.23 0.01 Bay_1
86T 2W 93T 2W
08/18/1999 14:06 1 0.00 0.01 Bay_1
93T 2W
08/18/1999 14:16 1 0.50 0.02 Bay_1
88T 1W 93T 2W

Monitor Serial Number 1358 Date 08/18/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/18/1999	14:26	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	14:36	1	0.36	0.00	Bay_1	
86T 1W						
08/18/1999	14:46	1	0.68	0.01	Bay_1	
85T 2W	93T 2W					
08/18/1999	14:56	1	1.04	0.02	Bay_1	ALA
86T 4W	93T 2W					
VXW						ERROR
08/18/1999	15:06	1	0.65	0.01	Bay_1	
86T 2W	92T 2W					
08/18/1999	15:16	1	0.61	0.00	Bay_1	
88T 2W						
08/18/1999	15:26	1	1.22	0.01	Bay_1	ALA
87T 2W	92T 2W					
08/18/1999	15:36	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	15:46	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	15:56	1	0.71	0.00	Bay_1	
86T 2W						
08/18/1999	16:06	1	0.52	0.00	Bay_1	
86T 3W						
08/18/1999	16:16	1	0.00	0.01	Bay_1	
91T 2W						
08/18/1999	16:26	1	0.28	0.01	Bay_1	
85T 1W	93T 2W					
08/18/1999	16:36	1	0.57	0.01	Bay_1	
87T 2W	93T 2W					
08/18/1999	16:46	1	0.47	0.01	Bay_1	
86T 2W	93T 1W					
08/18/1999	16:56	1	0.00	0.01	Bay_1	
92T 2W						
08/18/1999	17:06	1	1.10	0.00	Bay_1	ALA
87T 5W						
VXW						ERROR
08/18/1999	17:16	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	17:26	1	0.82	0.01	Bay_1	
86T 2W	93T 2W					
08/18/1999	17:36	1	0.00	0.01	Bay_1	
92T 3W						
08/18/1999	17:46	1	0.00	0.00	Bay_1	
08/18/1999	17:56	1	0.00	0.00	Bay_1	
08/18/1999	18:06	1	0.00	0.01	Bay_1	
93T 1W						
08/18/1999	18:16	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	18:26	1	0.00	0.00	Bay_1	
08/18/1999	18:36	1	0.27	0.00	Bay_1	
87T 2W						

86T 1W 91T 1W
08/18/1999 19:06 1 0.00 0.01 Bay_1
92T 2W
08/18/1999 19:16 1 0.00 0.01 Bay_1
93T 2W
08/18/1999 19:26 1 0.33 0.01 Bay_1
87T 1W 93T 1W

Monitor Serial Number 1358 Date 08/18/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/18/1999	19:36	1	0.00	0.00	Bay_1	
08/18/1999	19:46	1	0.33	0.01	Bay_1	
87T 2W 93T 1W						
08/18/1999	19:56	1	0.00	0.00	Bay_1	
08/18/1999	20:06	1	0.00	0.01	Bay_1	
93T 1W						
08/18/1999	20:16	1	0.00	0.01	Bay_1	
93T 1W						
08/18/1999	20:26	1	0.00	0.01	Bay_1	
90T 2W						
08/18/1999	20:36	1	0.30	0.01	Bay_1	
86T 3W 93T 1W						
08/18/1999	20:46	1	0.00	0.01	Bay_1	
92T 2W						
08/18/1999	20:56	1	0.00	0.01	Bay_1	
94T 2W						
08/18/1999	21:06	1	0.00	0.00	Bay_1	
08/18/1999	21:16	1	0.36	0.00	Bay_1	
87T 2W						
08/18/1999	21:26	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	21:36	1	0.25	0.00	Bay_1	
86T 3W						
08/18/1999	21:46	1	0.22	0.01	Bay_1	
86T 3W 93T 2W						
08/18/1999	21:56	1	0.33	0.00	Bay_1	
87T 1W						
08/18/1999	22:06	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	22:16	1	0.29	0.00	Bay_1	
86T 1W						
08/18/1999	22:26	1	0.00	0.01	Bay_1	
93T 2W						
08/18/1999	22:36	1	0.38	0.00	Bay_1	
87T 3W						
08/18/1999	22:46	1	0.13	0.01	Bay_1	
89T 1W 93T 1W						
08/18/1999	22:56	1	0.20	0.01	Bay_1	
89T 2W 93T 2W						
08/18/1999	23:06	1	0.27	0.01	Bay_1	
87T 2W 93T 1W						
08/18/1999	23:16	1	0.12	0.00	Bay_1	
86T 1W						
08/18/1999	23:26	1	0.00	0.00	Bay_1	
08/18/1999	23:36	1	0.25	0.01	Bay_1	
87T 2W 93T 2W						
08/18/1999	23:46	1	0.00	0.00	Bay_1	
08/18/1999	23:56	1	0.08	0.01	Bay_1	
87T 1W 93T 1W						
08/19/1999	00:06	1	0.00	0.00	Bay_1	

89T 2W 93T 1W
08/19/1999 00:36 1 0.00 0.00 Bay_1
08/19/1999 00:46 1 0.00 0.00 Bay_1
08/19/1999 00:56 1 0.16 0.01 Bay_1
86T 1W 93T 1W
08/19/1999 01:06 1 0.15 0.01 Bay_1
87T 2W 93T 2W

Monitor Serial Number 1358 Date 08/19/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/19/1999	01:16	1	0.00	0.01	Bay_1	
		93T 1W				
08/19/1999	01:26	1	0.00	0.00	Bay_1	
08/19/1999	01:36	1	0.00	0.01	Bay_1	
		93T 1W				
08/19/1999	01:46	1	0.00	0.00	Bay_1	
08/19/1999	01:56	1	0.18	0.00	Bay_1	
		89T 2W				
08/19/1999	02:06	1	0.00	0.01	Bay_1	
		93T 2W				
08/19/1999	02:16	1	0.00	0.01	Bay_1	
		93T 2W				
08/19/1999	02:26	1	0.20	0.01	Bay_1	
		86T 2W	93T 1W			
08/19/1999	02:36	1	0.19	0.01	Bay_1	
		86T 2W	93T 2W			
08/19/1999	02:46	1	0.00	0.01	Bay_1	
		93T 2W				
08/19/1999	02:56	1	0.17	0.01	Bay_1	
		86T 1W	93T 1W			
08/19/1999	03:06	1	0.13	0.01	Bay_1	
		87T 1W	93T 2W			
08/19/1999	03:16	1	0.25	0.00	Bay_1	
		87T 2W				
08/19/1999	03:26	1	0.00	0.00	Bay_1	
08/19/1999	03:36	1	0.23	0.01	Bay_1	
		88T 3W	93T 2W			
08/19/1999	03:46	1	0.00	0.01	Bay_1	
		93T 2W				
08/19/1999	03:56	1	0.00	0.01	Bay_1	
		93T 1W				
08/19/1999	04:06	1	0.21	0.00	Bay_1	
		87T 2W				
08/19/1999	04:16	1	0.13	0.00	Bay_1	
		87T 2W				
08/19/1999	04:26	1	0.20	0.00	Bay_1	
		87T 3W				
08/19/1999	04:36	1	0.00	0.00	Bay_1	
08/19/1999	04:46	1	0.23	0.01	Bay_1	
		87T 3W	93T 1W			
08/19/1999	04:56	1	0.27	0.00	Bay_1	
		87T 3W				
08/19/1999	05:06	1	0.00	0.00	Bay_1	
08/19/1999	05:16	1	0.00	0.01	Bay_1	
		93T 1W				
08/19/1999	05:26	1	0.00	0.01	Bay_1	
		92T 2W				
08/19/1999	05:36	1	0.12	0.01	Bay_1	
		88T 1W	93T 2W			
08/19/1999	05:46	1	0.17	0.00	Bay_1	
		87T 3W				

08/19/1999 06:06	1	0.11	0.00	Bay_1	
88T 1W					
08/19/1999 06:16	1	0.11	0.01	Bay_1	
87T 1W 93T 2W					
08/19/1999 06:26	1	0.00	0.00	Bay_1	
08/19/1999 06:36	1	0.00	0.00	Bay_1	

Monitor Serial Number 1358 Date 08/19/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/19/1999 06:46		1	0.00	0.01	Bay_1	
93T 2W						
08/19/1999 06:56		1	0.28	0.01	Bay_1	
87T 2W 93T 2W						
08/19/1999 07:06		1	0.16	0.00	Bay_1	
88T 2W						
08/19/1999 07:16		1	0.28	0.00	Bay_1	
88T 3W						
08/19/1999 07:26		1	0.00	0.01	Bay_1	
92T 1W						
08/19/1999 07:36		1	0.00	0.01	Bay_1	
93T 3W						
08/19/1999 07:46		1	0.21	0.00	Bay_1	
87T 1W						
08/19/1999 07:56		1	0.98	0.98	Bay_1	CHE
86T 2W 93T 2W						

08/19/1999 ********** MINICAMS OPERATING PARAMETERS ********** 07:58

S/N 1358 STATION 1

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 34	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a150	± 15
	FPD Flame	s225	a205	± 99
	Column		a 45	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 41	
	PCT heater, low	s 40	a 41	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 37	± 5
	Helium	s 40	a40.4	± 5
	Hydrogen	s 35	a 37	± 5
SAMPLE:	Flow rate, ccm	s 450	a 465	± 99
	Average flow rate		a 454	
	Volume, L		a3.63	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1100	a1094	± 50

ELECTROMETER:	FPD signal, nA	76	FPD zero, nA	137

DC

VX	1 FPD	0.98C	93H*	261A	86.3T	2.4W	b 83	e 89
GB	1 FPD	0.98C	1860H*	4249A	93.0T	2.0W	b 90	e 96

CALIBRATION DATA:

VX	1 @	1.00 FPD	96H*	229A	86.5T	2.0W	08/18/1999	08:47
GB	1 @	1.00 FPD	1896H*	4221A	93.2T	1.9W	08/18/1999	08:47

SAMPLING SEQUENCE:

A01 Bay_1

ELAPSED TIME ********** 245 sec

Monitor Serial Number 1358 Date 08/19/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/19/1999	08:06	1	0.18	0.03	Bay_1	
	86T 2W		93T 2W			
08/19/1999	08:16	1	0.15	0.01	Bay_1	
	86T 1W		93T 2W			
08/19/1999	08:26	1	0.00	0.01	Bay_1	
			93T 1W			
08/19/1999	08:36	1	0.16	0.01	Bay_1	
	88T 2W		93T 2W			
08/19/1999	08:46	1	0.00	0.00	Bay_1	
08/19/1999	08:56	1	0.00	0.00	Bay_1	
08/19/1999	09:06	1	0.29	0.00	Bay_1	
	87T 2W					
08/19/1999	09:16	1	0.21	0.00	Bay_1	
	89T 2W					
08/19/1999	09:26	1	0.29	0.01	Bay_1	
	87T 2W		93T 2W			
08/19/1999	09:36	1	0.00	0.01	Bay_1	
			93T 2W			
08/19/1999	09:46	1	0.08	0.01	Bay_1	
	89T 1W		93T 1W			
08/19/1999	09:56	1	0.24	0.01	Bay_1	
	87T 1W		94T 2W			
08/19/1999	10:06	1	0.00	0.01	Bay_1	
			91T 1W			
08/19/1999	10:16	1	0.00	0.01	Bay_1	
			93T 1W			
08/19/1999	10:26	1	0.00	0.01	Bay_1	
			93T 1W			
08/19/1999	10:36	1	0.00	0.01	Bay_1	
			93T 2W			
08/19/1999	10:46	1	0.00	0.01	Bay_1	
			93T 3W			
08/19/1999	10:56	1	0.36	0.01	Bay_1	
	89T 2W		93T 2W			
08/19/1999	11:06	1	0.00	0.01	Bay_1	
			93T 2W			
08/19/1999	11:16	1	0.00	0.01	Bay_1	
			93T 2W			
08/19/1999	11:26	1	0.19	0.01	Bay_1	
	87T 2W		93T 1W			
08/19/1999	11:36	1	0.27	0.01	Bay_1	
	87T 1W		92T 2W			
08/19/1999	11:46	1	0.40	0.01	Bay_1	
	87T 3W		93T 2W			
08/19/1999	11:56	1	0.53	0.01	Bay_1	

08/19/1999 12:06 1 0.40 0.01 Bay_1
88T 3W 92T 1W
08/19/1999 12:16 1 0.32 0.00 Bay_1
87T 2W
08/19/1999 12:26 1 0.23 0.00 Bay_1
89T 1W
08/19/1999 12:36 1 0.00 0.01 Bay_1
92T 3W
08/19/1999 12:46 1 0.22 0.00 Bay_1
86T 3W
08/19/1999 12:56 1 0.00 0.01 Bay_1
93T 2W
08/19/1999 13:06 1 0.21 0.00 Bay_1
87T 1W

Monitor Serial Number 1358 Date 08/19/1999 Sampling Station 1

Date	Time	Port	VX	GB		TWAG
08/19/1999	13:16	1	0.57	0.01	Bay_1	
86T 2W 93T 1W						
08/19/1999	13:26	1	0.38	0.00	Bay_1	
87T 3W						
08/19/1999	13:36	1	0.00	0.01	Bay_1	
93T 2W						
08/19/1999	13:46	1	0.00	0.01	Bay_1	
93T 2W						
08/19/1999	13:56	1	0.49	0.01	Bay_1	
87T 2W 93T 2W						
08/19/1999	14:06	1	0.00	0.01	Bay_1	
93T 2W						
08/19/1999	14:16	1	0.00	0.01	Bay_1	
93T 2W						
08/19/1999	14:26	1	0.39	0.00	Bay_1	
87T 2W						
08/19/1999	14:36	1	0.00	0.01	Bay_1	
93T 1W						
08/19/1999	14:46	1	0.00	0.01	Bay_1	
93T 1W						
08/19/1999	14:56	1	0.58	0.00	Bay_1	
86T 2W						
08/19/1999	15:06	1	0.00	0.01	Bay_1	
92T 2W						
08/19/1999	15:16	1	0.00	0.01	Bay_1	
92T 2W						
08/19/1999	15:26	1	0.58	0.01	Bay_1	
86T 3W 93T 2W						
08/19/1999	15:36	1	0.50	0.00	Bay_1	
86T 1W						
08/19/1999	15:46	1	0.00	0.01	Bay_1	
91T 1W						
08/19/1999	15:56	1	0.46	0.01	Bay_1	
87T 2W 93T 1W						
08/19/1999	16:06	1	0.00	0.01	Bay_1	
93T 2W						
08/19/1999	16:16	1	0.00	0.01	Bay_1	
93T 2W						
08/19/1999	16:26	1	0.34	0.01	Bay_1	
87T 2W 93T 1W						
08/19/1999	16:36	1	0.50	0.01	Bay_1	
87T 2W 93T 1W						
08/19/1999	16:46	1	0.00	0.01	Bay_1	
93T 1W						

93T 2W
08/19/1999 17:16 1 0.00 0.01 Bay_1
93T 2W
08/19/1999 17:26 1 0.70 0.00 Bay_1
87T 2W
08/19/1999 17:36 1 0.00 0.01 Bay_1
92T 2W
08/19/1999 17:46 1 0.00 0.01 Bay_1
94T 2W
08/19/1999 17:56 1 0.00 0.00 Bay_1
08/19/1999 18:06 1 0.00 0.00 Bay_1
08/19/1999 18:16 1 0.00 0.01 Bay_1
93T 2W

Monitor Serial Number 1358 Date 08/19/1999 Sampling Station 1

Date Time Port VX GB TWAG

08/19/1999 18:26 1 0.26 0.00 Bay_1
84T 2W
08/19/1999 18:36 1 0.00 0.01 Bay_1
92T 1W
08/19/1999 18:46 1 0.50 0.01 Bay_1
87T 3W 90T 1W
08/19/1999 18:56 1 0.28 0.01 Bay_1
86T 2W 93T 1W
08/19/1999 19:06 1 0.40 0.01 Bay_1
87T 2W 93T 1W
08/19/1999 19:16 1 0.39 0.00 Bay_1
86T 2W

Monitor Serial Number 1358 Date 08/19/1999 Sampling Station 1

Date Time Port VX GB TWAG

08/19/1999 19:20 0.00 0.00
RPC RCO FLA FPD COR HCO HPC ERROR
08/19/1999 19:30 1 0.01 0.00 Bay_1
86T 1W
RPC RCO RFP FLA FPD SAM INL COR HCO HPC ERROR
08/19/1999 19:40 1 0.00 0.00 Bay_1
RPC RCO RFP FLA FPD SAM INL COR HCO HPC ERROR
08/19/1999 19:50 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL COR LCO HCO HPC ERROR
08/19/1999 20:00 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL COR LCO HCO HPC ERROR
08/19/1999 20:10 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR
08/19/1999 20:20 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR
08/19/1999 20:30 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR
08/19/1999 20:40 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR
08/19/1999 20:50 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL COR LCO HCO HPC ERROR
08/19/1999 21:00 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR
08/19/1999 21:10 1 0.00 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR
08/19/1999 21:20 1 0.70 0.00 Bay_1
RPC RIN RCO RFP FLA FPD SAM INL AMB COR LCO HCO HPC ERROR

BAY 2

08/13/1999 19:41 1 0.93 0.99 Bay_2 CAL
75T 2W 82T 2W
CALIBRATION VX GB
AVERAGE 185H 5274H
08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 19:42

S/N 2085 CHECK STATION 2

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 32	± 15
	Inlet	s 50	a 49	± 15
	FPD Block	s150	a152	± 15
	FPD Flame	s225	a211	± 99
	Column		a 67	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a178	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 61	
	PCT heater, low	s 50	a 52	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a40.6	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 475	± 99
	Average flow rate		a 470	
	Volume, L		a3.76	

CAL RB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			
VOLTAGE, VDC:	FPD photomultiplier		s1130	a1132		± 50
ELECTROMETER:	FPD signal, nA		163	FPD zero, nA		578
CONCENTRATION REPORTS:				Alarm setpoint, TWAG		1.00

VX	1 FPD	1.00C	185H*	368A	75.2T	1.6W	b 71	e 77
GB	1 FPD	1.00C	5274H*	9544A	82.0T	1.6W	b 77	e 84

CALIBRATION DATA:

VX 1 6 1.00 FPD 185H* 368A 75.2T 1.6W 08/13/1999 19:41

SAMPLING SEQUENCE:

A01 Bay_2

ELAPSED TIME ********** 143 sec

Monitor Serial Number 2085 Date 08/13/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/13/1999	19:51	1	1.64	1.72	Bay_2	CHE
	75T 2W	82T 2W				
08/13/1999	20:01	1	0.61	0.98	Bay_2	CHE
	75T 2W	82T 2W				
08/13/1999	20:11	1	1.04	1.00	Bay_2	CHE
	75T 2W	82T 2W				

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 20:12

S/N 2085 CHECK STATION 2

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 32	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a153	± 15
	FPD Flame	s225	a214	± 99
	Column		a 75	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a149	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 68	
	PCT heater, low	s 50	a 52	± 20
	PCT heater, high	s235	a237	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.6	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 458	± 99
	Average flow rate		a 471	
	Volume, L		a3.77	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1130	a1132	± 50
ELECTROMETER:	FPD signal, nA	155	FPD zero, nA	627

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.04C	192H*	382A	75.1T	1.7W	b 71	e 77
GB	1 FPD	1.00C	5297H*	9700A	81.7T	1.6W	b 77	e 84

CALIBRATION DATA:

VX 1 @	1.00 FPD	185H*	368A	75.2T	1.6W	08/13/1999	19:41
GB 1 @	1.00 FPD	5274H*	9544A	82.0T	1.6W	08/13/1999	19:41

DC
RCB

A01 Bay_Z

ELAPSED TIME ********** 140 sec

Monitor Serial Number 2085 Date 08/13/1999 Sampling Station Z

Date	Time	Port	VX	GB		TWAG
08/13/1999	20:21	1	2.34	0.52	Bay_Z	ALA
	75T 2W	82T 2W				
08/13/1999	20:31	1	1.39	0.32	Bay_Z	ALA
	76T 2W	82T 2W				
08/13/1999	20:41	1	1.01	0.27	Bay_Z	ALA
	75T 2W	82T 2W				
08/13/1999	20:51	1	0.90	0.25	Bay_Z	
	75T 2W	82T 2W				
08/13/1999	21:01	1	0.83	0.24	Bay_Z	
	75T 2W	82T 2W				
08/13/1999	21:11	1	0.80	0.24	Bay_Z	
	75T 2W	82T 2W				
08/13/1999	21:21	1	0.86	0.23	Bay_Z	
	76T 2W	82T 2W				
08/13/1999	21:31	1	0.68	0.22	Bay_Z	
	75T 2W	82T 2W				
08/13/1999	21:41	1	0.68	0.21	Bay_Z	
	75T 2W	81T 2W				
08/13/1999	21:51	1	0.71	0.19	Bay_Z	
	76T 2W	82T 2W				
08/13/1999	22:01	1	0.64	0.19	Bay_Z	
	75T 2W	82T 2W				
08/13/1999	22:11	1	0.45	0.18	Bay_Z	
	74T 1W	81T 2W				
08/13/1999	22:21	1	0.59	0.09	Bay_Z	
	75T 2W	82T 1W				
08/13/1999	22:31	1	0.56	0.18	Bay_Z	
	76T 2W	82T 2W				
08/13/1999	22:41	1	0.55	0.17	Bay_Z	
	75T 2W	81T 2W				
08/13/1999	22:51	1	0.57	0.00	Bay_Z	
	76T 2W					
08/13/1999	23:01	1	0.50	0.16	Bay_Z	
	75T 2W	82T 2W				
08/13/1999	23:11	1	0.52	0.16	Bay_Z	
	76T 2W	82T 2W				
08/13/1999	23:21	1	0.54	0.16	Bay_Z	
	75T 2W	82T 2W				
08/13/1999	23:31	1	0.44	0.14	Bay_Z	
	74T 2W	80T 2W				
08/13/1999	23:41	1	0.23	0.17	Bay_Z	
	76T 1W	82T 2W				
08/13/1999	23:51	1	0.49	0.14	Bay_Z	
	75T 2W	82T 2W				
08/14/1999	00:01	1	0.48	0.13	Bay_Z	
	74T 2W	81T 2W				
08/14/1999	00:11	1	0.43	0.09	Bay_Z	
	75T 2W	82T 1W				
08/14/1999	00:21	1	0.44	0.13	Bay_Z	
	75T 2W	82T 2W				
08/14/1999	00:31	1	0.38	0.12	Bay_Z	
	75T 2W	82T 2W				
08/14/1999	00:41	1	0.41	0.12	Bay_Z	
	75T 2W	82T 2W				
08/14/1999	00:51	1	0.39	0.11	Bay_Z	

75T 1W 82T 2W
08/14/1999 01:11 1 0.40 0.11 Bay_2
76T 2W 82T 2W

Monitor Serial Number 2085 Date 08/14/1999 Sampling Station 2

TWAG

Date	Time	Port	VX	GB	
08/14/1999	01:21	1	0.38	0.11	Bay_2
75T 2W 82T 2W					
08/14/1999	01:31	1	0.36	0.11	Bay_2
76T 2W 82T 2W					
08/14/1999	01:41	1	0.36	0.11	Bay_2
75T 2W 82T 2W					
08/14/1999	01:51	1	0.35	0.11	Bay_2
76T 2W 82T 2W					
08/14/1999	02:01	1	0.41	0.10	Bay_2
76T 2W 82T 2W					
08/14/1999	02:11	1	0.35	0.10	Bay_2
74T 2W 81T 2W					
08/14/1999	02:21	1	0.39	0.09	Bay_2
75T 2W 82T 2W					
08/14/1999	02:31	1	0.35	0.10	Bay_2
75T 2W 82T 2W					
08/14/1999	02:41	1	0.34	0.11	Bay_2
75T 1W 82T 2W					
08/14/1999	02:51	1	0.44	0.11	Bay_2
75T 2W 81T 2W					
08/14/1999	03:01	1	0.26	0.11	Bay_2
75T 1W 82T 2W					
08/14/1999	03:11	1	0.40	0.12	Bay_2
75T 2W 82T 2W					
08/14/1999	03:21	1	0.19	0.10	Bay_2
74T 1W 81T 2W					
08/14/1999	03:31	1	0.37	0.08	Bay_2
76T 2W 83T 1W					
08/14/1999	03:41	1	0.41	0.12	Bay_2
74T 2W 81T 2W					
08/14/1999	03:51	1	0.43	0.10	Bay_2
75T 2W 82T 2W					
08/14/1999	04:01	1	0.34	0.11	Bay_2
75T 2W 81T 2W					
08/14/1999	04:11	1	0.44	0.11	Bay_2
75T 2W 82T 2W					
08/14/1999	04:21	1	0.38	0.11	Bay_2
74T 2W 81T 2W					
08/14/1999	04:31	1	0.47	0.10	Bay_2
75T 2W 82T 2W					
08/14/1999	04:41	1	0.31	0.10	Bay_2
75T 2W 81T 2W					
08/14/1999	04:51	1	0.38	0.10	Bay_2
75T 2W 81T 2W					
08/14/1999	05:01	1	0.34	0.08	Bay_2
75T 2W 81T 2W					
08/14/1999	05:11	1	0.35	0.08	Bay_2
74T 2W 81T 2W					
08/14/1999	05:21	1	0.32	0.10	Bay_2
76T 2W 82T 2W					
08/14/1999	05:31	1	0.33	0.10	Bay_2
74T 2W 81T 2W					
08/14/1999	05:41	1	0.32	0.07	Bay_2
75T 2W 82T 1W					

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          75T 2W  82T 2W
08/14/1999 06:11  1   0.30    0.09  Bay_2
          74T 2W  81T 2W


Monitor Serial Number 2085          Date 08/14/1999        Sampling Station    2

Date        Time  Port   VX      GB                                            TWAG

08/14/1999 06:21  1   0.38    0.09  Bay_2
          75T 2W  81T 2W
08/14/1999 06:31  1   0.28    0.08  Bay_2
          74T 2W  81T 2W
08/14/1999 06:41  1   0.38    0.08  Bay_2
          75T 2W  82T 2W
08/14/1999 06:51  1   0.32    0.09  Bay_2
          75T 2W  82T 2W
08/14/1999 07:01  1   0.32    0.07  Bay_2
          75T 2W  82T 2W
08/14/1999 07:11  1   0.37    0.09  Bay_2
          75T 2W  82T 2W
08/14/1999 07:21  1   0.41    0.09  Bay_2
          74T 2W  80T 2W
08/14/1999 07:31  1   0.39    0.00  Bay_2
          76T 2W
08/14/1999 07:41  1   0.31    0.08  Bay_2
          75T 2W  82T 2W
08/14/1999 07:51  1   0.39    0.08  Bay_2
          75T 2W  82T 2W
08/14/1999 08:01  1   0.35    0.08  Bay_2
          75T 2W  82T 2W
08/14/1999 08:11  1   0.34    0.07  Bay_2
          75T 2W  81T 2W
08/14/1999 08:21  1   0.32    0.07  Bay_2
          75T 1W  81T 2W
08/14/1999 08:31  1   0.33    0.07  Bay_2
          75T 2W  82T 2W
08/14/1999 08:41  1   0.33    0.08  Bay_2
          75T 2W  81T 2W
08/14/1999 08:51  1   1.22    0.92  Bay_2                                       ALA
          78T 2W  83T 2W
08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:52

S/N 2085            ALARM                                STATION    2

SOFTWARE:                                              Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 32        ± 15
                    Inlet                s 50        a 52        ± 15
                    FPD Block            s150        a152        ± 15
                    FPD Flame            s225        a210        ± 99
                    Column                           a 61
                    Column, low          s 40        a 40        ± 15
                    Column, high         s180        a179        ± 15
                    Column rate, °C/min  s150        a151        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 57
                    PCT heater, low      s 50        a 52        ± 20
                    PCT heater, high     s235        a237        ± 30

PRESSURES, psi:     Air                  s 35        a 34        ±  5
                    Helium               s 40       a40.4        ±  5
                    Hydrogen             s 35        a 35        ±  5
```

Volume, L

TIMES, sec: Purge b 0 e120 Sample b120 e600
Desorb b 5 e 50 Column b 30 e100
Column purge b100 e100 Inject b120 e130
FPD zero On

VOLTAGE, VDC: FPD photomultiplier s1130 a1132 ± 50

ELECTROMETER: FPD signal, nA 87 FPD zero, nA 561

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.22C	226H*	457A	75.7T	1.7W	b 71	e 77
GB	1 FPD	0.92C	4878H*	9410A	82.5T	1.7W	b 77	e 84

CALIBRATION DATA:

VX	1 @	1.00 FPD	185H*	368A	75.2T	1.6W	08/13/1999	19:41
GB	1 @	1.00 FPD	5274H*	9544A	82.0T	1.6W	08/13/1999	19:41

SAMPLING SEQUENCE:

A01 Bay_2

ELAPSED TIME ********** 158 sec

Monitor Serial Number 2085 Date 08/14/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/14/1999	09:01	1	0.61	0.18	Bay_2	
	75T 2W	82T 2W				
08/14/1999	09:11	1	0.39	0.09	Bay_2	
	76T 2W	82T 2W				
08/14/1999	09:21	1	0.36	0.09	Bay_2	
	74T 2W	81T 2W				
08/14/1999	09:31	1	0.37	0.00	Bay_2	
	75T 2W					
08/14/1999	09:41	1	0.39	0.08	Bay_2	
	74T 2W	81T 2W				
08/14/1999	09:51	1	0.43	0.06	Bay_2	
	75T 2W	82T 1W				
08/14/1999	10:01	1	0.41	0.09	Bay_2	
	75T 2W	82T 2W				
08/14/1999	10:11	1	0.41	0.09	Bay_2	
	74T 2W	81T 2W				
08/14/1999	10:21	1	0.39	0.06	Bay_2	
	76T 2W	83T 1W				
08/14/1999	10:31	1	0.39	0.09	Bay_2	
	75T 2W	82T 2W				
08/14/1999	10:41	1	0.38	0.09	Bay_2	
	74T 2W	81T 2W				
08/14/1999	10:51	1	0.45	0.09	Bay_2	
	76T 2W	82T 2W				
08/14/1999	11:01	1	0.44	0.10	Bay_2	
	75T 2W	82T 2W				
08/14/1999	11:11	1	0.39	0.10	Bay_2	
	76T 2W	83T 2W				
08/14/1999	11:21	1	0.42	0.10	Bay_2	
	75T 2W	82T 2W				
08/14/1999	11:31	1	0.37	0.10	Bay_2	
	76T 2W	82T 2W				

08/14/1999 11:51 1 0.41 0.07 Bay_2
76T 2W 83T 2W
08/14/1999 12:01 1 0.37 0.10 Bay_2
75T 2W 82T 2W
08/14/1999 12:11 1 0.34 0.10 Bay_2
74T 2W 81T 2W
08/14/1999 12:21 1 0.41 0.10 Bay_2
76T 2W 83T 2W
08/14/1999 12:31 1 0.44 0.11 Bay_2
75T 2W 81T 2W
08/14/1999 12:41 1 0.39 0.10 Bay_2
76T 2W 82T 2W
08/14/1999 12:51 1 0.46 0.10 Bay_2
74T 2W 81T 2W
08/14/1999 13:01 1 0.43 0.09 Bay_2
75T 2W 82T 2W
08/14/1999 13:11 1 0.46 0.10 Bay_2
75T 2W 82T 2W
08/14/1999 13:21 1 0.41 0.10 Bay_2
74T 2W 81T 2W
08/14/1999 13:31 1 0.40 0.00 Bay_2
76T 2W
08/14/1999 13:41 1 0.40 0.10 Bay_2
76T 2W 82T 2W
08/14/1999 13:51 1 0.44 0.10 Bay_2
75T 2W 81T 2W

Monitor Serial Number 2085 Date 08/14/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/14/1999	14:01	1	0.45	0.10	Bay_2	
75T 2W	82T 2W					
08/14/1999	14:11	1	0.42	0.10	Bay_2	
75T 2W	82T 2W					
08/14/1999	14:21	1	0.41	0.10	Bay_2	
75T 2W	82T 2W					
08/14/1999	14:31	1	0.42	0.10	Bay_2	
76T 2W	83T 2W					
08/14/1999	14:41	1	0.38	0.10	Bay_2	
75T 2W	82T 2W					
08/14/1999	14:51	1	0.34	0.11	Bay_2	
75T 2W	81T 2W					
08/14/1999	15:01	1	0.45	0.10	Bay_2	
75T 2W	81T 2W					
08/14/1999	15:11	1	0.41	0.08	Bay_2	
75T 2W	82T 2W					
08/14/1999	15:21	1	0.41	0.10	Bay_2	
75T 2W	82T 2W					
08/14/1999	15:31	1	0.42	0.10	Bay_2	
75T 2W	82T 2W					
08/14/1999	15:41	1	0.41	0.10	Bay_2	
75T 2W	81T 2W					
08/14/1999	15:51	1	0.35	0.10	Bay_2	
76T 2W	82T 2W					
08/14/1999	16:01	1	0.43	0.10	Bay_2	
75T 2W	82T 2W					
08/14/1999	16:11	1	0.26	0.10	Bay_2	
75T 2W	81T 2W					
08/14/1999	16:21	1	0.42	0.08	Bay_2	
75T 2W	82T 2W					
08/14/1999	16:31	1	0.38	0.09	Bay_2	
75T 2W	82T 2W					
08/14/1999	16:41	1	0.34	0.08	Bay_2	

75T 2W 82T 2W
08/14/1999 17:01 1 0.36 0.09 Bay_2
75T 2W 82T 2W
08/14/1999 17:11 1 0.35 0.09 Bay_2
76T 2W 82T 2W
08/14/1999 17:21 1 0.37 0.09 Bay_2
75T 2W 82T 2W
08/14/1999 17:31 1 0.31 0.09 Bay_2
74T 2W 80T 2W
08/14/1999 17:41 1 0.35 0.00 Bay_2
75T 2W
08/14/1999 17:51 1 0.37 0.08 Bay_2
74T 2W 81T 2W
08/14/1999 18:01 1 0.32 0.00 Bay_2
76T 2W
08/14/1999 18:11 1 0.31 0.08 Bay_2
75T 2W 82T 2W
08/14/1999 18:21 1 0.37 0.07 Bay_2
74T 2W 80T 2W
08/14/1999 18:31 1 0.24 0.13 Bay_2
76T 2W 82T 2W
08/14/1999 18:41 1 0.33 0.06 Bay_2
75T 2W 82T 2W
08/14/1999 18:51 1 0.30 0.07 Bay_2
75T 2W 82T 2W

Monitor Serial Number 2085 Date 08/14/1999 Sampling Station 2

Date Time Port VX GB TWAG

08/14/1999 19:01 1 0.32 0.07 Bay_2
75T 2W 81T 2W
08/14/1999 19:11 1 0.36 0.06 Bay_2
75T 2W 82T 2W
08/14/1999 19:21 1 0.33 0.06 Bay_2
75T 2W 82T 2W
08/14/1999 19:31 1 0.31 0.06 Bay_2
75T 2W 81T 2W
08/14/1999 19:41 1 0.25 0.05 Bay_2
76T 2W 82T 2W
08/14/1999 19:51 1 0.31 0.06 Bay_2
75T 2W 82T 2W
08/14/1999 20:01 1 0.33 0.05 Bay_2
75T 2W 82T 2W
08/14/1999 20:11 1 0.31 0.06 Bay_2
76T 2W 83T 2W
08/14/1999 20:21 1 0.29 0.05 Bay_2
75T 2W 81T 2W
08/14/1999 20:31 1 0.30 0.05 Bay_2
76T 2W 82T 2W
08/14/1999 20:41 1 0.31 0.05 Bay_2
75T 2W 82T 2W
08/14/1999 20:51 1 0.25 0.05 Bay_2
75T 2W 82T 2W
08/14/1999 21:01 1 0.28 0.05 Bay_2
76T 2W 83T 2W
08/14/1999 21:11 1 0.30 0.05 Bay_2
74T 2W 81T 2W
08/14/1999 21:21 1 0.26 0.03 Bay_2
76T 2W 82T 2W
08/14/1999 21:31 1 0.24 0.05 Bay_2
74T 2W 80T 2W

08/14/1999 21:41 1 0.22 0.04 Bay_2
75T 2W 82T 2W
08/14/1999 22:01 1 0.27 0.04 Bay_2
75T 2W 81T 2W
08/14/1999 22:11 1 0.22 0.04 Bay_2
76T 2W 82T 2W
08/14/1999 22:21 1 0.23 0.04 Bay_2
75T 2W 81T 2W
08/14/1999 22:31 1 0.28 0.04 Bay_2
76T 2W 82T 2W
08/14/1999 22:41 1 0.20 0.04 Bay_2
75T 2W 81T 2W
08/14/1999 22:51 1 0.24 0.04 Bay_2
75T 2W 82T 2W
08/14/1999 23:01 1 0.23 0.04 Bay_2
75T 2W 82T 2W
08/14/1999 23:11 1 0.23 0.04 Bay_2
75T 2W 82T 2W
08/14/1999 23:21 1 0.19 0.04 Bay_2
75T 2W 82T 2W
08/14/1999 23:31 1 0.28 0.04 Bay_2
75T 2W 81T 2W
08/14/1999 23:41 1 0.21 0.03 Bay_2
76T 2W 82T 2W
08/14/1999 23:51 1 0.24 0.04 Bay_2
74T 2W 81T 2W

Monitor Serial Number 2085 Date 08/15/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/15/1999	00:01	1	0.22	0.03	Bay_2	
	76T 2W	82T 2W				
08/15/1999	00:11	1	0.21	0.04	Bay_2	
	75T 2W	81T 2W				
08/15/1999	00:21	1	0.23	0.03	Bay_2	
	75T 2W	81T 2W				
08/15/1999	00:31	1	0.18	0.03	Bay_2	
	75T 2W	82T 2W				
08/15/1999	00:41	1	0.21	0.03	Bay_2	
	75T 2W	82T 2W				
08/15/1999	00:51	1	0.21	0.03	Bay_2	
	75T 2W	82T 2W				
08/15/1999	01:01	1	0.19	0.03	Bay_2	
	74T 2W	81T 2W				
08/15/1999	01:11	1	0.19	0.02	Bay_2	
	76T 2W	82T 1W				
08/15/1999	01:21	1	0.20	0.03	Bay_2	
	73T 2W	80T 2W				
08/15/1999	01:31	1	0.14	0.03	Bay_2	
	75T 2W	82T 2W				
08/15/1999	01:41	1	0.13	0.03	Bay_2	
	75T 2W	81T 2W				
08/15/1999	01:51	1	0.21	0.03	Bay_2	
	75T 2W	82T 2W				
08/15/1999	02:01	1	0.16	0.03	Bay_2	
	75T 1W	82T 2W				
08/15/1999	02:11	1	0.15	0.03	Bay_2	
	76T 2W	82T 2W				
08/15/1999	02:21	1	0.18	0.03	Bay_2	
	74T 2W	80T 2W				
08/15/1999	02:31	1	0.17	0.02	Bay_2	
	76T 2W	82T 2W				
08/15/1999	02:41	1	0.16	0.01	Bay_2	

74T 2W
08/15/1999 03:01 1 0.19 0.03 Bay_2
75T 2W 82T 2W
08/15/1999 03:11 1 0.17 0.03 Bay_2
75T 2W 82T 2W
08/15/1999 03:21 1 0.15 0.03 Bay_2
75T 2W 82T 2W
08/15/1999 03:31 1 0.11 0.03 Bay_2
74T 2W 80T 2W
08/15/1999 03:41 1 0.11 0.04 Bay_2
75T 2W 81T 2W
08/15/1999 03:51 1 0.17 0.02 Bay_2
75T 2W 82T 2W
08/15/1999 04:01 1 0.18 0.03 Bay_2
74T 2W 81T 2W
08/15/1999 04:11 1 0.16 0.02 Bay_2
75T 2W 82T 2W
08/15/1999 04:21 1 0.18 0.03 Bay_2
75T 2W 81T 2W
08/15/1999 04:31 1 0.19 0.03 Bay_2
75T 2W 81T 2W
08/15/1999 04:41 1 0.17 0.02 Bay_2
75T 2W 81T 2W
08/15/1999 04:51 1 0.19 0.02 Bay_2
75T 2W 82T 2W

Monitor Serial Number Z085 Date 08/15/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/15/1999	05:01	1	0.14	0.03	Bay_2	
	75T 2W	81T 2W				
08/15/1999	05:11	1	0.16	0.02	Bay_2	
	73T 2W	80T 2W				
08/15/1999	05:21	1	0.14	0.04	Bay_2	
	76T 2W	82T 2W				
08/15/1999	05:31	1	0.17	0.02	Bay_2	
	75T 2W	81T 2W				
08/15/1999	05:41	1	0.13	0.02	Bay_2	
	75T 2W	82T 2W				
08/15/1999	05:51	1	0.17	0.02	Bay_2	
	74T 2W	81T 2W				
08/15/1999	06:01	1	0.19	0.02	Bay_2	
	75T 2W	82T 2W				
08/15/1999	06:11	1	0.14	0.02	Bay_2	
	74T 2W	81T 2W				
08/15/1999	06:21	1	0.11	0.04	Bay_2	
	75T 2W	81T 2W				
08/15/1999	06:31	1	0.00	0.02	Bay_2	
		82T 2W				
08/15/1999	06:41	1	0.00	0.02	Bay_2	
		81T 2W				
08/15/1999	06:51	1	0.18	0.02	Bay_2	
	76T 2W	83T 2W				
08/15/1999	07:01	1	0.14	0.02	Bay_2	
	74T 2W	80T 2W				
08/15/1999	07:11	1	0.13	0.03	Bay_2	
	74T 2W	80T 2W				
08/15/1999	07:21	1	0.16	0.00	Bay_2	
	75T 2W					
08/15/1999	07:31	1	0.14	0.02	Bay_2	
	76T 2W	82T 2W				

08/15/1999 07:51 1 0.10 0.01 Bay_2
75T 2W 82T 2W
08/15/1999 08:01 1 0.16 0.02 Bay_2
74T 2W 81T 2W
08/15/1999 08:11 1 0.15 0.02 Bay_2
75T 2W 82T 2W
08/15/1999 08:21 1 0.20 0.02 Bay_2
74T 2W 81T 2W
08/15/1999 08:31 1 0.19 0.00 Bay_2
74T 2W
08/15/1999 08:41 1 0.16 0.00 Bay_2
76T 2W
08/15/1999 08:51 1 0.18 0.03 Bay_2
74T 2W 81T 2W

Monitor Serial Number 2085 Date 08/15/1999 Sampling Station 2

Date	Time	Port	VX	GB			TWAG
08/15/1999	08:56	1	0.07	0.00	Bay_2		
75T 2W							
08/15/1999	09:06	1	0.00	0.00	Bay_2		
08/15/1999	09:16	1	1.05	0.90	Bay_2		CHE
74T 2W 81T 2W							

08/15/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:16

S/N 2085 CHECK STATION 2

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 33	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a153	± 15
	FPD Flame	s225	a208	± 99
	Column		a 78	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 68	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a237	± 30
PRESSURES, psi:	Air	s 35	a 34	± 5
	Helium	s 40	a40.4	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 460	± 99
	Average flow rate		a 455	
	Volume, L		a3.65	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1130	a1132	± 50
ELECTROMETER:	FPD signal, nA	134	FPD zero, nA	476

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.05C	195H*	4010	74.2T	1.8W	b 71	e 77
GB	1 FPD	0.90C	4756H*	94000	80.8T	1.8W	b 77	e 84

DC
RCB

VX 1 @ 1.00 FPD 185H* 368A 75.2T 1.6W 08/13/1999 19:41
GB 1 @ 1.00 FPD 5274H* 9544A 82.0T 1.6W 08/13/1999 19:41

SAMPLING SEQUENCE:

A01 Bay_2

ELAPSED TIME ********** 140 sec

Monitor Serial Number 2085 Date 08/15/1999 Sampling Station 2

Date	Time	Port	VX	GB	TWAG
08/15/1999	09:26	1	0.34	0.08	Bay_2
	75T 2W	82T 2W			
08/15/1999	09:36	1	0.23	0.04	Bay_2
	75T 2W	82T 2W			
08/15/1999	09:46	1	0.22	0.03	Bay_2
	75T 2W	82T 2W			
08/15/1999	09:56	1	0.23	0.03	Bay_2
	75T 2W	82T 2W			
08/15/1999	10:06	1	0.26	0.03	Bay_2
	74T 2W	81T 2W			
08/15/1999	10:16	1	0.28	0.02	Bay_2
	74T 2W	81T 2W			
08/15/1999	10:26	1	0.26	0.02	Bay_2
	75T 2W	82T 1W			
08/15/1999	10:36	1	0.27	0.03	Bay_2
	75T 2W	82T 2W			
08/15/1999	10:46	1	0.29	0.03	Bay_2
	74T 2W	81T 2W			
08/15/1999	10:56	1	0.32	0.03	Bay_2
	76T 2W	82T 2W			
08/15/1999	11:06	1	0.32	0.03	Bay_2
	75T 2W	82T 2W			
08/15/1999	11:16	1	0.36	0.03	Bay_2
	75T 2W	82T 2W			
08/15/1999	11:26	1	0.31	0.04	Bay_2
	74T 2W	80T 2W			
08/15/1999	11:36	1	0.22	0.04	Bay_2
	74T 2W	80T 2W			
08/15/1999	11:46	1	0.28	0.03	Bay_2
	74T 2W	81T 2W			
08/15/1999	11:56	1	0.32	0.00	Bay_2
	74T 2W				
08/15/1999	12:06	1	0.33	0.00	Bay_2
	74T 2W				
08/15/1999	12:16	1	0.33	0.03	Bay_2
	75T 2W	82T 2W			
08/15/1999	12:26	1	0.34	0.04	Bay_2
	75T 2W	82T 2W			
08/15/1999	12:36	1	0.31	0.04	Bay_2
	75T 2W	82T 2W			
08/15/1999	12:46	1	0.32	0.04	Bay_2
	75T 2W	82T 2W			
08/15/1999	12:56	1	0.30	0.04	Bay_2
	75T 2W	82T 2W			
08/15/1999	13:06	1	0.35	0.04	Bay_2
	75T 2W	82T 2W			
08/15/1999	13:16	1	0.29	0.04	Bay_2
	75T 2W	82T 2W			

74T 2W 81T 2W
08/15/1999 13:46 1 0.27 0.00 Bay_2
75T 2W
08/15/1999 13:56 1 0.29 0.05 Bay_2
75T 2W 82T 2W
08/15/1999 14:06 1 0.32 0.04 Bay_2
75T 2W 81T 2W
08/15/1999 14:16 1 0.32 0.05 Bay_2
76T 2W 82T 2W

Monitor Serial Number 2085 Date 08/15/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/15/1999	14:26	1	0.36	0.05	Bay_2	
75T 2W 81T 2W						
08/15/1999	14:36	1	0.33	0.04	Bay_2	
75T 2W 81T 2W						
08/15/1999	14:46	1	0.33	0.05	Bay_2	
75T 2W 81T 2W						
08/15/1999	14:56	1	0.30	0.05	Bay_2	
74T 2W 81T 2W						
08/15/1999	15:06	1	0.30	0.03	Bay_2	
75T 2W 81T 2W						
08/15/1999	15:16	1	0.27	0.00	Bay_2	
74T 2W						
08/15/1999	15:26	1	0.29	0.00	Bay_2	
75T 2W						
08/15/1999	15:36	1	0.29	0.03	Bay_2	
74T 2W 81T 2W						
08/15/1999	15:46	1	0.29	0.04	Bay_2	
75T 2W 82T 2W						
08/15/1999	15:56	1	0.29	0.05	Bay_2	
75T 2W 81T 2W						
08/15/1999	16:06	1	0.31	0.04	Bay_2	
75T 2W 82T 2W						
08/15/1999	16:16	1	0.31	0.05	Bay_2	
75T 2W 82T 2W						
08/15/1999	16:26	1	0.32	0.05	Bay_2	
75T 2W 81T 2W						
08/15/1999	16:36	1	0.26	0.04	Bay_2	
75T 2W 82T 2W						
08/15/1999	16:46	1	0.22	0.05	Bay_2	
74T 2W 80T 2W						
08/15/1999	16:56	1	0.28	0.00	Bay_2	
75T 2W						
08/15/1999	17:06	1	0.30	0.05	Bay_2	
74T 2W 81T 2W						
08/15/1999	17:16	1	0.27	0.00	Bay_2	
75T 2W						
08/15/1999	17:26	1	0.26	0.03	Bay_2	
75T 2W 82T 1W						
08/15/1999	17:36	1	0.28	0.04	Bay_2	
75T 2W 82T 2W						
08/15/1999	17:46	1	0.29	0.05	Bay_2	
75T 2W 82T 2W						
08/15/1999	17:56	1	0.29	0.04	Bay_2	
74T 2W 81T 2W						
08/15/1999	18:06	1	0.24	0.00	Bay_2	
75T 2W						
08/15/1999	18:16	1	0.27	0.04	Bay_2	
75T 2W 82T 2W						

74T 2W 81T 2W
08/15/1999 18:46 1 0.25 0.03 Bay_2
75T 2W 82T 1W
08/15/1999 18:56 1 0.25 0.04 Bay_2
75T 2W 82T 2W
08/15/1999 19:06 1 0.27 0.04 Bay_2
75T 2W 82T 2W
08/15/1999 19:16 1 0.28 0.04 Bay_2
75T 2W 81T 2W

Monitor Serial Number 2085 Date 08/15/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/15/1999	19:26	1	0.24	0.04	Bay_2	
75T 2W 81T 2W						
08/15/1999	19:36	1	0.26	0.04	Bay_2	
75T 2W 82T 2W						
08/15/1999	19:46	1	0.29	0.04	Bay_2	
74T 2W 81T 2W						
08/15/1999	19:56	1	0.25	0.03	Bay_2	
76T 2W 82T 2W						
08/15/1999	20:06	1	0.23	0.03	Bay_2	
74T 2W 81T 2W						
08/15/1999	20:16	1	0.25	0.03	Bay_2	
75T 2W 82T 2W						
08/15/1999	20:26	1	0.24	0.03	Bay_2	
75T 2W 82T 2W						
08/15/1999	20:36	1	0.19	0.03	Bay_2	
75T 2W 81T 2W						
08/15/1999	20:46	1	0.22	0.02	Bay_2	
75T 2W 82T 2W						
08/15/1999	20:56	1	0.19	0.03	Bay_2	
75T 2W 81T 2W						
08/15/1999	21:06	1	0.19	0.02	Bay_2	
75T 2W 82T 2W						
08/15/1999	21:16	1	0.17	0.03	Bay_2	
74T 2W 80T 2W						
08/15/1999	21:26	1	0.15	0.05	Bay_2	
75T 2W 81T 2W						
08/15/1999	21:36	1	0.21	0.03	Bay_2	
74T 2W 81T 2W						
08/15/1999	21:46	1	0.15	0.04	Bay_2	
75T 2W 82T 2W						
08/15/1999	21:56	1	0.17	0.03	Bay_2	
75T 2W 81T 2W						
08/15/1999	22:06	1	0.19	0.02	Bay_2	
75T 2W 82T 2W						
08/15/1999	22:16	1	0.21	0.03	Bay_2	
74T 2W 81T 2W						
08/15/1999	22:26	1	0.22	0.02	Bay_2	
75T 2W 82T 2W						
08/15/1999	22:36	1	0.18	0.02	Bay_2	
74T 2W 81T 2W						
08/15/1999	22:46	1	0.21	0.02	Bay_2	
75T 2W 82T 1W						
08/15/1999	22:56	1	0.17	0.02	Bay_2	
74T 2W 80T 2W						
08/15/1999	23:06	1	0.18	0.00	Bay_2	
75T 2W						
08/15/1999	23:16	1	0.19	0.02	Bay_2	
74T 2W 81T 2W						

08/15/1999 23:36 1 0.17 0.02 Bay_2
75T 2W

08/15/1999 23:46 1 0.17 0.02 Bay_2
75T 2W 82T 2W

08/15/1999 23:56 1 0.17 0.02 Bay_2
75T 2W 82T 2W

08/16/1999 00:06 1 0.19 0.02 Bay_2
75T 2W 82T 2W

08/16/1999 00:16 1 0.22 0.02 Bay_2
76T 2W 83T 2W

Monitor Serial Number 2085 Date 08/16/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/16/1999	00:26	1	0.20	0.02	Bay_2	
	73T 2W	80T 2W				
08/16/1999	00:36	1	0.13	0.03	Bay_2	
	75T 1W	82T 2W				
08/16/1999	00:46	1	0.18	0.02	Bay_2	
	73T 2W	80T 2W				
08/16/1999	00:56	1	0.17	0.00	Bay_2	
	74T 2W					
08/16/1999	01:06	1	0.16	0.02	Bay_2	
	74T 2W	81T 2W				
08/16/1999	01:16	1	0.20	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	01:26	1	0.12	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	01:36	1	0.17	0.02	Bay_2	
	75T 2W	81T 2W				
08/16/1999	01:46	1	0.16	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	01:56	1	0.21	0.02	Bay_2	
	74T 2W	81T 2W				
08/16/1999	02:06	1	0.18	0.02	Bay_2	
	74T 2W	81T 1W				
08/16/1999	02:16	1	0.16	0.01	Bay_2	
	75T 2W	82T 2W				
08/16/1999	02:26	1	0.16	0.02	Bay_2	
	75T 2W	81T 2W				
08/16/1999	02:36	1	0.20	0.02	Bay_2	
	74T 2W	81T 2W				
08/16/1999	02:46	1	0.16	0.01	Bay_2	
	75T 2W	81T 2W				
08/16/1999	02:56	1	0.18	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	03:06	1	0.21	0.02	Bay_2	
	75T 2W	81T 2W				
08/16/1999	03:16	1	0.19	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	03:26	1	0.16	0.02	Bay_2	
	75T 2W	81T 2W				
08/16/1999	03:36	1	0.19	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	03:46	1	0.15	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	03:56	1	0.14	0.02	Bay_2	
	74T 1W	81T 2W				
08/16/1999	04:06	1	0.13	0.00	Bay_2	
	75T 2W					
08/16/1999	04:16	1	0.16	0.02	Bay_2	
	75T 2W	82T 2W				
08/16/1999	04:26	1	0.16	0.02	Bay_2	

```
          75T 2W  81T 2W
08/16/1999 04:46  1   0.00    0.02  Bay_2
                  81T 2W
08/16/1999 04:56  1   0.17    0.02  Bay_2
          73T 2W  80T 1W
08/16/1999 05:06  1   0.00    0.02  Bay_2
                  81T 2W
08/16/1999 05:16  1   0.00    0.02  Bay_2
                  81T 2W


Monitor Serial Number 2085          Date 08/16/1999        Sampling Station    2

Date        Time  Port   VX      GB                                          TWAG

08/16/1999 05:26  1   0.13    0.01  Bay_2
          76T 2W  82T 2W
08/16/1999 05:36  1   0.16    0.02  Bay_2
          75T 2W  81T 2W
08/16/1999 05:46  1   0.18    0.02  Bay_2
          75T 2W  81T 2W
08/16/1999 05:56  1   0.17    0.02  Bay_2
          76T 2W  82T 2W
08/16/1999 06:06  1   0.16    0.02  Bay_2
          74T 2W  80T 2W
08/16/1999 06:16  1   0.16    0.02  Bay_2
          75T 2W  81T 2W
08/16/1999 06:26  1   0.14    0.01  Bay_2
          74T 2W  81T 2W
08/16/1999 06:36  1   0.17    0.01  Bay_2
          76T 2W  83T 1W
08/16/1999 06:46  1   0.13    0.02  Bay_2
          75T 2W  81T 2W
08/16/1999 06:56  1   0.17    0.02  Bay_2
          75T 2W  82T 2W
08/16/1999 07:06  1   0.16    0.02  Bay_2
          75T 2W  81T 2W
08/16/1999 07:16  1   0.19    0.02  Bay_2
          76T 2W  82T 2W
08/16/1999 07:26  1   0.17    0.02  Bay_2
          74T 2W  80T 2W
08/16/1999 07:36  1   0.12    0.01  Bay_2
          75T 2W  82T 2W
08/16/1999 07:46  1   0.18    0.02  Bay_2
          75T 2W  82T 2W
08/16/1999 07:56  1   0.18    0.02  Bay_2
          75T 2W  81T 2W
08/16/1999 08:06  1   0.19    0.02  Bay_2
          75T 2W  82T 2W
08/16/1999 08:16  1   1.16    0.89  Bay_2                                     CHE
          74T 2W  81T 2W
08/16/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:17

S/N 2085            ALARM                                STATION    2

SOFTWARE:                                            Version 02181999

TEMPERATURES, °C:  Ambient              s 40        a 33        ± 15
                   Inlet                s 50        a 52        ± 15
                   FPD Block            s150        a153        ± 15
                   FPD Flame            s225        a215        ± 99
                   Column                           a 64
                   Column, low          s 40        a 40        ± 15
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	Column rate 2	s 0	a 0	± 20
	PCT heater		a 57	
	PCT heater, low	s 50	a 52	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a40.5	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 460	± 99
	Average flow rate		a 460	
	Volume, L		a3.69	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1130 a1132 ± 50

ELECTROMETER: FPD signal, nA 199 FPD zero, nA 457

DC RB

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.16C	215H*	454A	73.9T	1.8W	b 71	e 77
GB	1 FPD	0.89C	4704H*	9831A	80.5T	1.8W	b 77	e 84

CALIBRATION DATA:

VX 1 @	1.00 FPD	185H*	368A	75.2T	1.6W	08/13/1999	19:41
GB 1 @	1.00 FPD	5274H*	9544A	82.0T	1.6W	08/13/1999	19:41

SAMPLING SEQUENCE:

A01 Bay_2

ELAPSED TIME ********** 155 sec

Monitor Serial Number 2085 Date 08/16/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/16/1999	08:26	1	0.33	0.12	Bay_2	
	75T 2W 81T 2W					
08/16/1999	08:36	1	0.19	0.00	Bay_2	
	75T 2W					
08/16/1999	08:46	1	0.21	0.02	Bay_2	
	75T 2W 82T 2W					
MINI-NET COMMUNICATIONS OFFLINE						
08/16/1999	08:56	1	0.15	0.02	Bay_2	
	74T 2W 81T 2W					
08/16/1999	09:06	1	0.16	0.02	Bay_2	
	75T 2W 82T 2W					
08/16/1999	09:16	1	0.19	0.02	Bay_2	
	75T 2W 82T 2W					
08/16/1999	09:26	1	0.22	0.02	Bay_2	
	74T 2W 80T 2W					
08/16/1999	09:36	1	0.21	0.03	Bay_2	
	75T 2W 82T 2W					
08/16/1999	09:46	1	0.22	0.02	Bay_2	
	75T 2W 81T 2W					
08/16/1999	09:56	1	0.24	0.02	Bay_2	
	75T 2W 82T 2W					
08/16/1999	10:06	1	0.22	0.02	Bay_2	

75T 2W 82T 2W
08/16/1999 10:26 1 0.24 0.03 Bay_2
75T 2W 82T 2W
08/16/1999 10:36 1 0.28 0.03 Bay_2
76T 2W 82T 2W
08/16/1999 10:46 1 0.30 0.03 Bay_2
75T 2W 82T 2W
08/16/1999 10:56 1 0.28 0.02 Bay_2
74T 2W 80T 2W
08/16/1999 11:06 1 0.24 0.03 Bay_2
75T 2W 81T 2W
08/16/1999 11:16 1 0.31 0.03 Bay_2
74T 2W 80T 2W
08/16/1999 11:26 1 0.27 0.05 Bay_2
75T 2W 82T 2W
08/16/1999 11:36 1 0.25 0.03 Bay_2
75T 2W 82T 2W
08/16/1999 11:46 1 0.33 0.03 Bay_2
74T 2W 81T 2W
08/16/1999 11:56 1 0.30 0.02 Bay_2
75T 2W 82T 1W
08/16/1999 12:06 1 0.32 0.03 Bay_2
75T 2W 82T 2W
08/16/1999 12:16 1 0.31 0.03 Bay_2
75T 2W 82T 2W
08/16/1999 12:26 1 0.32 0.03 Bay_2
74T 2W 81T 2W
MINI-NET COMMUNICATIONS ONLINE
08/16/1999 12:35 1 0.00 0.00 Bay_2
08/16/1999 12:46 1 0.31 0.05 Bay_2
75T 2W 82T 2W
08/16/1999 12:56 1 0.30 0.04 Bay_2
75T 2W 81T 2W
08/16/1999 13:06 1 0.32 0.03 Bay_2
75T 2W 81T 2W
08/16/1999 13:16 1 0.30 0.03 Bay_2
75T 2W 81T 2W

Monitor Serial Number 2085 Date 08/16/1999 Sampling Station 2

Date Time Port VX GB TWAG

08/16/1999 13:26 1 0.32 0.03 Bay_2
75T 2W 82T 2W
08/16/1999 13:36 1 0.34 0.04 Bay_2
74T 2W 81T 2W
08/16/1999 13:46 1 0.34 0.03 Bay_2
75T 2W 81T 2W
08/16/1999 13:56 1 0.32 0.04 Bay_2
75T 2W 82T 2W
08/16/1999 14:06 1 0.37 0.04 Bay_2
75T 2W 82T 2W
08/16/1999 14:16 1 0.25 0.04 Bay_2
75T 1W 82T 2W
08/16/1999 14:26 1 0.36 0.04 Bay_2
75T 2W 82T 2W
08/16/1999 14:36 1 0.37 0.04 Bay_2
74T 2W 81T 2W
08/16/1999 14:46 1 0.37 0.07 Bay_2
74T 2W 81T 2W
08/16/1999 14:56 1 0.25 0.07 Bay_2
74T 2W 80T 2W

	75T ZW	82T ZW			
08/16/1999	15:26	1	0.34	0.04	Bay_2
	75T ZW	82T ZW			
08/16/1999	15:36	1	0.36	0.04	Bay_2
	75T ZW	81T ZW			
08/16/1999	15:46	1	0.35	0.04	Bay_2
	74T ZW	81T ZW			
08/16/1999	15:56	1	0.35	0.04	Bay_2
	75T ZW	82T ZW			
08/16/1999	16:06	1	0.34	0.04	Bay_2
	75T ZW	82T ZW			
08/16/1999	16:16	1	0.37	0.04	Bay_2
	75T ZW	81T ZW			
08/16/1999	16:26	1	0.36	0.04	Bay_2
	74T ZW	81T ZW			
08/16/1999	16:36	1	0.32	0.03	Bay_2
	74T ZW	81T ZW			
08/16/1999	16:46	1	0.35	0.04	Bay_2
	75T ZW	81T ZW			
08/16/1999	16:56	1	0.35	0.04	Bay_2
	75T ZW	82T ZW			
08/16/1999	17:06	1	0.34	0.04	Bay_2
	74T ZW	80T ZW			
08/16/1999	17:16	1	0.33	0.00	Bay_2
	75T ZW				
08/16/1999	17:26	1	0.31	0.04	Bay_2
	75T ZW	81T ZW			
08/16/1999	17:36	1	0.29	0.04	Bay_2
	75T ZW	81T ZW			
08/16/1999	17:46	1	0.34	0.04	Bay_2
	75T ZW	82T ZW			
08/16/1999	17:56	1	0.31	0.04	Bay_2
	74T ZW	81T ZW			
08/16/1999	18:06	1	0.28	0.03	Bay_2
	75T ZW	82T ZW			
08/16/1999	18:16	1	0.29	0.04	Bay_2
	74T ZW	81T ZW			

Monitor Serial Number 2085 Date 08/16/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/16/1999	18:26	1	0.29	0.03	Bay_2	
	75T ZW	82T ZW				
08/16/1999	18:36	1	0.27	0.04	Bay_2	
	75T ZW	82T ZW				
08/16/1999	18:46	1	0.28	0.04	Bay_2	
	74T ZW	81T ZW				
08/16/1999	18:56	1	0.31	0.04	Bay_2	
	75T ZW	81T ZW				
08/16/1999	19:06	1	0.26	0.03	Bay_2	
	75T ZW	82T ZW				
08/16/1999	19:16	1	0.27	0.04	Bay_2	
	76T ZW	83T ZW				
08/16/1999	19:26	1	0.29	0.04	Bay_2	
	75T ZW	81T ZW				
08/16/1999	19:36	1	0.35	0.03	Bay_2	
	75T ZW	82T ZW				
08/16/1999	19:46	1	0.28	0.03	Bay_2	
	75T ZW	82T ZW				
08/16/1999	19:56	1	0.27	0.03	Bay_2	
	74T ZW	80T ZW				
08/16/1999	20:06	1	0.27	0.04	Bay_2	

74T 2W 81T 2W
08/16/1999 20:26 1 0.24 0.03 Bay_2
74T 2W 81T 2W
08/16/1999 20:36 1 0.23 0.02 Bay_2
74T 2W 81T 2W
08/16/1999 20:46 1 0.20 0.00 Bay_2
74T 2W
08/16/1999 20:56 1 0.20 0.02 Bay_2
76T 2W 82T 1W
08/16/1999 21:06 1 0.21 0.03 Bay_2
74T 2W 81T 2W
08/16/1999 21:16 1 0.26 0.02 Bay_2
75T 2W 83T 1W
08/16/1999 21:26 1 0.19 0.02 Bay_2
75T 2W 81T 2W
08/16/1999 21:36 1 0.25 0.03 Bay_2
74T 2W 81T 2W
08/16/1999 21:46 1 0.22 0.02 Bay_2
75T 2W 81T 2W
08/16/1999 21:56 1 0.22 0.02 Bay_2
75T 2W 81T 2W
08/16/1999 22:06 1 0.20 0.02 Bay_2
75T 2W 82T 1W
08/16/1999 22:16 1 0.21 0.02 Bay_2
75T 2W 82T 2W
08/16/1999 22:26 1 0.20 0.02 Bay_2
75T 2W 82T 2W
08/16/1999 22:36 1 0.25 0.02 Bay_2
74T 2W 81T 2W
08/16/1999 22:46 1 0.21 0.02 Bay_2
75T 2W 81T 2W
08/16/1999 22:56 1 0.22 0.02 Bay_2
74T 2W 81T 2W
08/16/1999 23:06 1 0.16 0.00 Bay_2
75T 2W
08/16/1999 23:16 1 0.20 0.02 Bay_2
75T 2W 82T 2W

Monitor Serial Number 2085 Date 08/16/1999 Sampling Station 2

Date Time Port VX GB TWAG

08/16/1999 23:26 1 0.24 0.02 Bay_2
75T 2W 81T 2W
08/16/1999 23:36 1 0.19 0.02 Bay_2
75T 2W 82T 1W
08/16/1999 23:46 1 0.22 0.02 Bay_2
74T 2W 81T 2W
08/16/1999 23:56 1 0.21 0.01 Bay_2
75T 2W 82T 2W
08/17/1999 00:06 1 0.20 0.02 Bay_2
74T 2W 81T 2W
08/17/1999 00:16 1 0.17 0.02 Bay_2
75T 2W 81T 2W
08/17/1999 00:26 1 0.22 0.02 Bay_2
75T 2W 82T 2W
08/17/1999 00:36 1 0.22 0.02 Bay_2
75T 2W 81T 2W
08/17/1999 00:46 1 0.19 0.02 Bay_2
74T 2W 81T 2W
08/17/1999 00:56 1 0.21 0.02 Bay_2
74T 2W 81T 2W

75T 2W 82T 2W
08/17/1999 01:26 1 0.21 0.02 Bay_2
74T 2W 81T 2W
08/17/1999 01:36 1 0.21 0.01 Bay_2
74T 2W 81T 2W
08/17/1999 01:46 1 0.19 0.02 Bay_2
76T 2W 83T 2W
08/17/1999 01:56 1 0.20 0.02 Bay_2
75T 2W 81T 2W
08/17/1999 02:06 1 0.23 0.02 Bay_2
74T 2W 81T 1W
08/17/1999 02:16 1 0.18 0.00 Bay_2
75T 2W
08/17/1999 02:26 1 0.20 0.02 Bay_2
75T 2W 82T 2W
08/17/1999 02:36 1 0.20 0.02 Bay_2
75T 2W 82T 2W
08/17/1999 02:46 1 0.23 0.02 Bay_2
75T 2W 82T 2W
08/17/1999 02:56 1 0.00 0.02 Bay_2
81T 2W
08/17/1999 03:06 1 0.21 0.02 Bay_2
74T 2W 81T 2W
08/17/1999 03:16 1 0.20 0.01 Bay_2
75T 2W 82T 2W
08/17/1999 03:26 1 0.21 0.02 Bay_2
74T 2W 81T 2W
08/17/1999 03:36 1 0.19 0.00 Bay_2
75T 2W
08/17/1999 03:46 1 0.19 0.02 Bay_2
75T 2W 82T 2W
08/17/1999 03:55 1 0.18 0.02 Bay_2
75T 2W 82T 2W
08/17/1999 04:05 1 0.16 0.02 Bay_2
74T 2W 81T 2W
08/17/1999 04:16 1 0.20 0.01 Bay_2
75T 2W 82T 2W

Monitor Serial Number 2085 Date 08/17/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/17/1999	04:26	1	0.17	0.02	Bay_2	
	74T 2W	81T 2W				
08/17/1999	04:36	1	0.18	0.02	Bay_2	
	75T 2W	82T 2W				
08/17/1999	04:46	1	0.21	0.02	Bay_2	
	74T 2W	80T 2W				
08/17/1999	04:56	1	0.13	0.02	Bay_2	
	74T 2W	81T 2W				
08/17/1999	05:06	1	0.16	0.01	Bay_2	
	76T 2W	82T 2W				
08/17/1999	05:15	1	0.18	0.02	Bay_2	
	74T 2W	81T 2W				
08/17/1999	05:25	1	0.21	0.01	Bay_2	
	74T 2W	81T 2W				
08/17/1999	05:36	1	0.17	0.01	Bay_2	
	75T 2W	81T 1W				
08/17/1999	05:46	1	0.17	0.01	Bay_2	
	75T 2W	82T 2W				
08/17/1999	05:55	1	0.14	0.02	Bay_2	
	74T 2W	81T 2W				
08/17/1999	06:06	1	0.20	0.01	Bay_2	

```
          75T 2W  81T 2W
08/17/1999 06:26  1   0.18    0.01  Bay_2
          74T 2W  81T 2W
08/17/1999 06:35  1   0.17    0.02  Bay_2
          76T 2W  82T 2W
08/17/1999 06:45  1   0.18    0.01  Bay_2
          75T 2W  81T 2W
08/17/1999 06:55  1   0.00    0.02  Bay_2
                  83T 2W
08/17/1999 07:05  1   0.00    0.02  Bay_2
                  81T 2W
08/17/1999 07:16  1   0.17    0.01  Bay_2
          75T 2W  82T 2W
08/17/1999 07:25  1   0.15    0.02  Bay_2
          75T 2W  82T 2W
08/17/1999 07:35  1   0.18    0.01  Bay_2
          74T 1W  81T 2W
08/17/1999 07:45  1   0.17    0.01  Bay_2
          75T 2W  81T 2W
08/17/1999 07:55  1   0.00    0.01  Bay_2
                  82T 2W
08/17/1999 08:05  1   0.07    0.00  Bay_2
          75T 2W
08/17/1999 08:15  1   0.06    0.00  Bay_2
          75T 1W
08/17/1999 08:26  1   1.07    0.86  Bay_2                                  CHE
          74T 2W  81T 2W
08/17/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:27

S/N 2085            ALARM                                STATION    2

SOFTWARE:                                            Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 31        ± 15
                    Inlet                s 50        a 53        ± 15
                    FPD Block            s150        a153        ± 15
                    FPD Flame            s225        a215        ± 99
                    Column                           a 41
                    Column, low          s 40        a 40        ± 15
                    Column, high         s180        a178        ± 15
                    Column rate, °C/min  s150        a151        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 54
                    PCT heater, low      s 50        a 52        ± 20
                    PCT heater, high     s235        a237        ± 30

PRESSURES, psi:     Air                  s 35        a 35        ±  5
                    Helium               s 40       a40.4        ±  5
                    Hydrogen             s 35        a 35        ±  5

SAMPLE:             Flow rate, ccm      s 450       a 460        ± 99
                    Average flow rate               a 450
                    Volume, L                      a3.60

TIMES, sec:         Purge          b  0   e120   Sample   b120   e600
                    Desorb         b  5   e 50   Column   b 30   e100
                    Column purge   b100   e100   Inject   b120   e130
                    FPD zero               On

VOLTAGE, VDC:       FPD photomultiplier s1130       a1131        ± 50

ELECTROMETER:       FPD signal, nA        122   FPD  zero, nA     459
```

GB 1 FPD 0.86C 4524H* 9593A 81.0T 1.8W b 77 e 84

CALIBRATION DATA:

VX 1 @ 1.00 FPD 185H* 368A 75.2T 1.6W 08/13/1999 19:41
GB 1 @ 1.00 FPD 5274H* 9544A 82.0T 1.6W 08/13/1999 19:41

SAMPLING SEQUENCE:

A01 Bay_2

ELAPSED TIME ********** 210 sec

Monitor Serial Number 2085 Date 08/17/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/17/1999	08:36	1	0.35	0.11	Bay_2	
75T 2W 82T 2W						
08/17/1999	08:45	1	0.23	0.03	Bay_2	
74T 2W 80T 2W						
08/17/1999	08:56	1	0.22	0.04	Bay_2	
75T 2W 82T 2W						
08/17/1999	09:05	1	0.20	0.02	Bay_2	
75T 2W 82T 2W						
08/17/1999	09:15	1	0.24	0.02	Bay_2	
75T 2W 82T 2W						
08/17/1999	09:25	1	0.23	0.02	Bay_2	
74T 2W 81T 2W						
08/17/1999	09:35	1	0.20	0.01	Bay_2	
75T 2W 82T 2W						
08/17/1999	09:45	1	0.26	0.02	Bay_2	
75T 2W 82T 2W						
08/17/1999	09:55	1	0.30	0.02	Bay_2	
74T 2W 81T 2W						
08/17/1999	10:05	1	0.22	0.02	Bay_2	
76T 2W 82T 2W						
08/17/1999	10:15	1	0.25	0.02	Bay_2	
74T 2W 81T 2W						
08/17/1999	10:25	1	0.25	0.02	Bay_2	
75T 2W 82T 2W						
08/17/1999	10:35	1	0.28	0.02	Bay_2	
75T 2W 82T 2W						
08/17/1999	10:45	1	0.28	0.02	Bay_2	
75T 2W 81T 2W						
08/17/1999	10:55	1	0.26	0.02	Bay_2	
75T 2W 82T 1W						
08/17/1999	11:05	1	0.26	0.02	Bay_2	
75T 2W 81T 2W						
08/17/1999	11:15	1	0.31	0.03	Bay_2	
76T 2W 82T 2W						
08/17/1999	11:25	1	0.32	0.03	Bay_2	
75T 2W 82T 2W						
08/17/1999	11:35	1	0.33	0.03	Bay_2	
75T 2W 82T 2W						
08/17/1999	11:45	1	0.34	0.03	Bay_2	
75T 2W 82T 2W						
08/17/1999	11:55	1	0.32	0.03	Bay_2	
75T 2W 81T 2W						
08/17/1999	12:05	1	0.37	0.03	Bay_2	
75T 2W 81T 2W						
08/17/1999	12:15	1	0.32	0.03	Bay_2	
75T 2W 82T 2W						

08/17/1999 12:35 1 0.33 0.02 Bay_2
75T 2W 82T 1W
08/17/1999 12:45 1 0.35 0.03 Bay_2
74T 2W 81T 2W
08/17/1999 12:55 1 0.35 0.03 Bay_2
75T 2W 82T 2W
08/17/1999 13:05 1 0.37 0.03 Bay_2
75T 2W 82T 2W
08/17/1999 13:15 1 0.32 0.03 Bay_2
74T 2W 81T 2W
08/17/1999 13:25 1 0.37 0.03 Bay_2
75T 2W 82T 2W

Monitor Serial Number 2085 Date 08/17/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/17/1999	13:35	1	0.33	0.03	Bay_2	
75T 2W 82T 2W						
08/17/1999	13:45	1	0.34	0.03	Bay_2	
74T 2W 81T 2W						
08/17/1999	13:55	1	0.34	0.02	Bay_2	
75T 2W 82T 2W						
08/17/1999	14:05	1	0.32	0.04	Bay_2	
75T 2W 82T 2W						
08/17/1999	14:15	1	0.36	0.03	Bay_2	
75T 2W 81T 2W						
08/17/1999	14:25	1	0.32	0.03	Bay_2	
74T 2W 81T 1W						
08/17/1999	14:35	1	0.32	0.03	Bay_2	
76T 2W 82T 2W						
08/17/1999	14:45	1	0.32	0.04	Bay_2	
75T 2W 82T 2W						
08/17/1999	14:55	1	0.34	0.04	Bay_2	
74T 2W 80T 2W						
08/17/1999	15:06	1	0.30	0.05	Bay_2	
75T 2W 82T 2W						
08/17/1999	15:15	1	0.34	0.04	Bay_2	
75T 2W 81T 2W						
08/17/1999	15:25	1	0.35	0.04	Bay_2	
75T 2W 82T 2W						
08/17/1999	15:35	1	0.35	0.04	Bay_2	
75T 2W 82T 2W						
08/17/1999	15:45	1	0.34	0.04	Bay_2	
75T 2W 81T 2W						
08/17/1999	15:55	1	0.34	0.03	Bay_2	
75T 2W 82T 2W						
08/17/1999	16:05	1	0.33	0.04	Bay_2	
73T 2W 80T 2W						
08/17/1999	16:16	1	0.30	0.00	Bay_2	
75T 2W						
08/17/1999	16:25	1	0.31	0.03	Bay_2	
74T 2W 81T 2W						
08/17/1999	16:36	1	0.30	0.00	Bay_2	
74T 2W						
08/17/1999	16:45	1	0.30	0.03	Bay_2	
75T 2W 81T 2W						
08/17/1999	16:55	1	0.28	0.03	Bay_2	
74T 2W 80T 2W						
08/17/1999	17:06	1	0.31	0.00	Bay_2	
75T 2W						
08/17/1999	17:15	1	0.30	0.03	Bay_2	

08/17/1999 17:35 1 0.35 0.03 Bay_Z
74T ZW 80T ZW
08/17/1999 17:46 1 0.27 0.00 Bay_Z
75T ZW
08/17/1999 17:55 1 0.33 0.03 Bay_Z
76T ZW 82T ZW
08/17/1999 18:05 1 0.27 0.03 Bay_Z
74T ZW 81T ZW
08/17/1999 18:15 1 0.31 0.02 Bay_Z
75T ZW 82T ZW
08/17/1999 18:25 1 0.27 0.03 Bay_Z
74T ZW 80T ZW

Monitor Serial Number 2085 Date 08/17/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/17/1999	18:35	1	0.23	0.03	Bay_Z	
75T ZW 81T ZW						
08/17/1999	18:45	1	0.30	0.03	Bay_Z	
75T ZW 82T ZW						
08/17/1999	18:55	1	0.28	0.03	Bay_Z	
75T ZW 82T ZW						
08/17/1999	19:05	1	0.28	0.03	Bay_Z	
74T ZW 81T ZW						
08/17/1999	19:15	1	0.27	0.02	Bay_Z	
74T ZW 81T ZW						
08/17/1999	19:25	1	0.24	0.02	Bay_Z	
76T ZW 82T 1W						
08/17/1999	19:35	1	0.25	0.03	Bay_Z	
75T ZW 82T ZW						
08/17/1999	19:45	1	0.22	0.02	Bay_Z	
75T ZW 82T ZW						
08/17/1999	19:55	1	0.24	0.02	Bay_Z	
75T ZW 81T ZW						
08/17/1999	20:05	1	0.26	0.02	Bay_Z	
75T ZW 82T ZW						
08/17/1999	20:15	1	0.24	0.02	Bay_Z	
75T ZW 82T ZW						
08/17/1999	20:25	1	0.26	0.02	Bay_Z	
75T ZW 81T ZW						
08/17/1999	20:35	1	0.24	0.02	Bay_Z	
75T ZW 81T ZW						
08/17/1999	20:45	1	0.21	0.01	Bay_Z	
74T ZW 81T ZW						
08/17/1999	20:55	1	0.23	0.01	Bay_Z	
75T ZW 82T ZW						
08/17/1999	21:05	1	0.19	0.02	Bay_Z	
74T ZW 81T ZW						
08/17/1999	21:16	1	0.19	0.00	Bay_Z	
75T ZW						
08/17/1999	21:25	1	0.23	0.02	Bay_Z	
75T ZW 81T ZW						
08/17/1999	21:35	1	0.21	0.03	Bay_Z	
75T ZW 81T ZW						
08/17/1999	21:45	1	0.20	0.02	Bay_Z	
75T ZW 82T ZW						
08/17/1999	21:55	1	0.21	0.02	Bay_Z	
74T ZW 81T ZW						
08/17/1999	22:05	1	0.19	0.01	Bay_Z	
76T ZW 82T ZW						
08/17/1999	22:15	1	0.21	0.02	Bay_Z	

08/18/1999	03:35	1	0.18	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	03:45	1	0.21	0.01	Bay_2
76T 2W	82T 2W				
08/18/1999	03:55	1	0.19	0.01	Bay_2
73T 2W	80T 2W				
08/18/1999	04:05	1	0.15	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	04:15	1	0.17	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	04:25	1	0.22	0.01	Bay_2
75T 2W	81T 2W				

Monitor Serial Number 2085 Date 08/18/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/18/1999	04:35	1	0.17	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	04:45	1	0.17	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	04:55	1	0.19	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	05:05	1	0.19	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	05:15	1	0.19	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	05:25	1	0.17	0.01	Bay_2	
75T 2W	81T 2W					
08/18/1999	05:35	1	0.18	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	05:45	1	0.14	0.01	Bay_2	
74T 2W	81T 2W					
08/18/1999	05:55	1	0.18	0.00	Bay_2	
75T 2W						
08/18/1999	06:05	1	0.15	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	06:15	1	0.19	0.01	Bay_2	
74T 2W	81T 2W					
08/18/1999	06:25	1	0.16	0.00	Bay_2	
76T 2W						
08/18/1999	06:35	1	0.18	0.01	Bay_2	
74T 2W	81T 2W					
08/18/1999	06:45	1	0.16	0.00	Bay_2	
76T 2W						
08/18/1999	06:55	1	0.13	0.01	Bay_2	
74T 2W	81T 2W					
08/18/1999	07:05	1	0.19	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	07:15	1	0.19	0.01	Bay_2	
75T 2W	82T 2W					
08/18/1999	07:25	1	0.19	0.01	Bay_2	
76T 2W	82T 2W					
08/18/1999	07:35	1	0.05	0.00	Bay_2	
75T 2W						
08/18/1999	07:45	1	0.06	0.00	Bay_2	
75T 2W						
08/18/1999	07:55	1	0.06	0.00	Bay_2	
75T 2W						
08/18/1999	08:05	1	0.00	0.00	Bay_2	
08/18/1999	08:15	1	0.00	0.00	Bay_2	
08/18/1999	08:25	1	0.04	0.00	Bay_2	
75T 2W						

75T 2W 82T 2W
CALIBRATION VX 6B
AVERAGE 242H 5339H
08/18/1999 08:56 1 1.66 1.87 Bay_2 CHE
75T 2W 82T 2W
08/18/1999 09:06 1 0.94 1.09 Bay_2 CHE
75T 2W 82T 2W
08/18/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:07

S/N 2085 ALARM STATION 2

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 31	± 15
	Inlet	s 50	a 54	± 15
	FPD Block	s150	a151	± 15
	FPD Flame	s225	a217	± 99
	Column		a 64	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 58	
	PCT heater, low	s 50	a 52	± 20
	PCT heater, high	s235	a237	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.4	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 452	± 99
	Average flow rate		a 469	
	Volume, L		a3.76	

DC PCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1130 a1132 ± 50

ELECTROMETER: FPD signal, nA 123 FPD zero, nA 516

CONCENTRATION REPORTS: Alarm setpoint, TWA6 1.00

VX	1 FPD	0.94C	228H*	482A	75.2T	1.9W	b 71	e 77
6B	1 FPD	1.09C	5819H*	12283A	82.0T	1.8W	b 77	e 84

CALIBRATION DATA:

VX 1 @	1.00 FPD	242H*	520A	74.9T	1.8W	08/18/1999	08:46
6B 1 @	1.00 FPD	5339H*	11164A	81.7T	1.8W	08/18/1999	08:46

SAMPLING SEQUENCE:

A01 Bay_2

ELAPSED TIME ********** 151 sec

Monitor Serial Number 2085 Date 08/18/1999 Sampling Station 2

Date Time Port VX 6B TWA6

08/18/1999	09:26	1	0.22	0.04	Bay_2
74T 2W	81T 2W				
08/18/1999	09:36	1	0.19	0.02	Bay_2
76T 2W	82T 2W				
08/18/1999	09:46	1	0.19	0.02	Bay_2
74T 2W	81T 2W				
08/18/1999	09:56	1	0.20	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	10:06	1	0.18	0.02	Bay_2
76T 2W	83T 2W				
08/18/1999	10:16	1	0.20	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	10:26	1	0.23	0.02	Bay_2
75T 2W	83T 2W				
08/18/1999	10:36	1	0.19	0.02	Bay_2
76T 2W	82T 2W				
08/18/1999	10:46	1	0.19	0.02	Bay_2
75T 2W	81T 2W				
08/18/1999	10:56	1	0.20	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	11:06	1	0.24	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	11:16	1	0.22	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	11:26	1	0.23	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	11:36	1	0.26	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	11:46	1	0.23	0.02	Bay_2
74T 2W	81T 2W				
08/18/1999	11:56	1	0.22	0.00	Bay_2
75T 2W					
08/18/1999	12:06	1	0.22	0.02	Bay_2
76T 2W	83T 2W				
08/18/1999	12:16	1	0.23	0.02	Bay_2
74T 2W	80T 2W				
08/18/1999	12:26	1	0.21	0.00	Bay_2
75T 2W					
08/18/1999	12:36	1	0.24	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	12:46	1	0.24	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	12:56	1	0.26	0.02	Bay_2
76T 2W	82T 2W				
08/18/1999	13:06	1	0.25	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	13:16	1	0.23	0.02	Bay_2
76T 2W	82T 2W				
08/18/1999	13:26	1	0.28	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	13:36	1	0.28	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	13:46	1	0.25	0.03	Bay_2
76T 2W	82T 2W				
08/18/1999	13:56	1	0.27	0.03	Bay_2
75T 2W	82T 2W				
08/18/1999	14:06	1	0.26	0.03	Bay_2
76T 2W	82T 2W				

Monitor Serial Number 2085 Date 08/18/1999 Sampling Station 2

Date	Time	Port	VX	GB	TWAG

08/18/1999 14:26 1 0.27 0.03 Bay_2
76T 2W 82T 2W
08/18/1999 14:36 1 0.24 0.03 Bay_2
76T 2W 83T 2W
08/18/1999 14:46 1 0.24 0.03 Bay_2
74T 2W 80T 2W
08/18/1999 14:56 1 0.24 0.04 Bay_2
75T 2W 82T 2W
08/18/1999 15:06 1 0.26 0.03 Bay_2
76T 2W 82T 2W
08/18/1999 15:16 1 0.27 0.03 Bay_2
78T 2W 82T 2W
08/18/1999 15:26 1 0.29 0.03 Bay_2
76T 2W 83T 2W
08/18/1999 15:36 1 0.30 0.03 Bay_2
76T 2W 82T 2W
08/18/1999 15:46 1 0.24 0.03 Bay_2
76T 2W 83T 2W
08/18/1999 15:56 1 0.24 0.03 Bay_2
75T 2W 82T 2W
08/18/1999 16:06 1 0.23 0.03 Bay_2
76T 2W 83T 2W
08/18/1999 16:16 1 0.28 0.03 Bay_2
76T 2W 82T 2W
08/18/1999 16:26 1 0.26 0.03 Bay_2
75T 2W 81T 2W
08/18/1999 16:36 1 0.30 0.02 Bay_2
75T 2W 82T 2W
08/18/1999 16:46 1 0.27 0.03 Bay_2
76T 2W 83T 2W
08/18/1999 16:56 1 0.25 0.03 Bay_2
75T 2W 81T 2W
08/18/1999 17:06 1 0.28 0.03 Bay_2
76T 2W 83T 2W
08/18/1999 17:16 1 0.28 0.02 Bay_2
75T 2W 82T 2W
08/18/1999 17:26 1 0.24 0.02 Bay_2
76T 2W 82T 2W
08/18/1999 17:36 1 0.25 0.02 Bay_2
75T 2W 82T 2W
08/18/1999 17:46 1 0.28 0.02 Bay_2
75T 2W 82T 2W
08/18/1999 17:56 1 0.30 0.02 Bay_2
75T 2W 81T 2W
08/18/1999 18:06 1 0.26 0.02 Bay_2
74T 2W 81T 2W
08/18/1999 18:16 1 0.27 0.02 Bay_2
75T 2W 81T 2W
08/18/1999 18:26 1 0.26 0.00 Bay_2
75T 2W
08/18/1999 18:36 1 0.28 0.02 Bay_2
76T 2W 83T 2W
08/18/1999 18:46 1 0.23 0.02 Bay_2
75T 2W 82T 2W
08/18/1999 18:56 1 0.26 0.02 Bay_2
75T 2W 82T 2W
08/18/1999 19:06 1 0.29 0.02 Bay_2
74T 2W 81T 2W

Monitor Serial Number 2085 Date 08/18/1999 Sampling Station 2

Date Time Port VX SB TWAG

08/18/1999	19:26	1	0.24	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	19:36	1	0.22	0.02	Bay_2
75T 2W	82T 2W				
08/18/1999	19:46	1	0.25	0.02	Bay_2
76T 2W	82T 2W				
08/18/1999	19:56	1	0.26	0.02	Bay_2
74T 2W	80T 2W				
08/18/1999	20:06	1	0.20	0.03	Bay_2
75T 2W	82T 3W				
08/18/1999	20:16	1	0.20	0.02	Bay_2
76T 2W	83T 2W				
08/18/1999	20:26	1	0.20	0.02	Bay_2
76T 2W	82T 2W				
08/18/1999	20:36	1	0.18	0.02	Bay_2
76T 1W	82T 2W				
08/18/1999	20:46	1	0.19	0.02	Bay_2
75T 2W	81T 2W				
08/18/1999	20:56	1	0.22	0.01	Bay_2
76T 2W	82T 2W				
08/18/1999	21:06	1	0.22	0.01	Bay_2
76T 2W	82T 2W				
08/18/1999	21:16	1	0.19	0.01	Bay_2
74T 2W	81T 2W				
08/18/1999	21:26	1	0.18	0.00	Bay_2
76T 2W					
08/18/1999	21:36	1	0.17	0.01	Bay_2
74T 2W	81T 2W				
08/18/1999	21:46	1	0.18	0.02	Bay_2
75T 2W	81T 3W				
08/18/1999	21:56	1	0.18	0.01	Bay_2
75T 2W	82T 1W				
08/18/1999	22:06	1	0.16	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	22:16	1	0.21	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	22:26	1	0.19	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	22:36	1	0.18	0.01	Bay_2
76T 2W	82T 2W				
08/18/1999	22:46	1	0.17	0.01	Bay_2
74T 2W	81T 2W				
08/18/1999	22:56	1	0.18	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	23:06	1	0.17	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	23:16	1	0.19	0.01	Bay_2
75T 2W	82T 2W				
08/18/1999	23:26	1	0.17	0.01	Bay_2
75T 2W	81T 2W				
08/18/1999	23:36	1	0.18	0.01	Bay_2
74T 2W	81T 1W				
08/18/1999	23:46	1	0.17	0.00	Bay_2
76T 2W					
08/18/1999	23:56	1	0.16	0.01	Bay_2
74T 2W	80T 2W				
08/19/1999	00:06	1	0.16	0.02	Bay_2
75T 2W	82T 2W				

Monitor Serial Number 2085 Date 08/19/1999 Sampling Station 2

Date	Time	Port	VX	GB	TWAG

08/19/1999 00:26 1 0.19 0.01 Bay_2
75T 2W 82T 2W
08/19/1999 00:36 1 0.19 0.01 Bay_2
74T 2W 80T 1W
08/19/1999 00:46 1 0.15 0.00 Bay_2
76T 2W
08/19/1999 00:56 1 0.18 0.01 Bay_2
75T 2W 82T 2W
08/19/1999 01:06 1 0.19 0.01 Bay_2
74T 2W 81T 2W
08/19/1999 01:16 1 0.17 0.01 Bay_2
76T 2W 82T 1W
08/19/1999 01:26 1 0.16 0.01 Bay_2
75T 2W 82T 2W
08/19/1999 01:36 1 0.18 0.01 Bay_2
76T 2W 83T 2W
08/19/1999 01:46 1 0.16 0.01 Bay_2
75T 2W 81T 2W
08/19/1999 01:56 1 0.17 0.01 Bay_2
76T 2W 83T 2W
08/19/1999 02:06 1 0.17 0.01 Bay_2
75T 2W 82T 2W
08/19/1999 02:16 1 0.16 0.01 Bay_2
76T 2W 82T 2W
08/19/1999 02:26 1 0.16 0.01 Bay_2
76T 2W 82T 2W
08/19/1999 02:36 1 0.15 0.01 Bay_2
74T 2W 81T 2W
08/19/1999 02:46 1 0.14 0.01 Bay_2
76T 2W 82T 2W
08/19/1999 02:56 1 0.16 0.01 Bay_2
74T 2W 80T 2W
08/19/1999 03:06 1 0.13 0.01 Bay_2
75T 2W 82T 3W
08/19/1999 03:16 1 0.14 0.01 Bay_2
75T 2W 81T 2W
08/19/1999 03:26 1 0.13 0.00 Bay_2
74T 2W
08/19/1999 03:36 1 0.14 0.00 Bay_2
76T 2W
08/19/1999 03:46 1 0.13 0.01 Bay_2
74T 2W 81T 2W
08/19/1999 03:56 1 0.15 0.01 Bay_2
76T 2W 83T 1W
08/19/1999 04:06 1 0.12 0.01 Bay_2
74T 2W 80T 2W
08/19/1999 04:16 1 0.14 0.01 Bay_2
75T 2W 82T 2W
08/19/1999 04:26 1 0.12 0.01 Bay_2
75T 2W 82T 2W
08/19/1999 04:36 1 0.14 0.01 Bay_2
74T 2W 81T 2W
08/19/1999 04:46 1 0.12 0.00 Bay_2
75T 3W
08/19/1999 04:56 1 0.12 0.01 Bay_2
74T 2W 81T 2W
08/19/1999 05:06 1 0.14 0.01 Bay_2
75T 2W 82T 2W

Monitor Serial Number 2085 Date 08/19/1999 Sampling Station 2

Date Time Port VX GB TWAG

```
08/19/1999 05:26  1   0.14    0.01  Bay_2
        76T 2W  82T 2W
08/19/1999 05:36  1   0.15    0.01  Bay_2
        75T 2W  81T 2W
08/19/1999 05:46  1   0.16    0.01  Bay_2
        75T 2W  82T 2W
08/19/1999 05:56  1   0.13    0.01  Bay_2
        75T 2W  81T 2W
08/19/1999 06:06  1   0.13    0.01  Bay_2
        74T 2W  81T 2W
08/19/1999 06:16  1   0.14    0.01  Bay_2
        76T 2W  82T 2W
08/19/1999 06:26  1   0.10    0.01  Bay_2
        75T 2W  82T 2W
08/19/1999 06:36  1   0.15    0.01  Bay_2
        75T 2W  81T 2W
08/19/1999 06:46  1   0.15    0.01  Bay_2
        74T 2W  81T 2W
08/19/1999 06:56  1   0.13    0.01  Bay_2
        75T 2W  82T 2W
08/19/1999 07:06  1   0.12    0.01  Bay_2
        75T 2W  81T 2W
08/19/1999 07:16  1   0.15    0.01  Bay_2
        75T 2W  82T 2W
08/19/1999 07:26  1   0.14    0.01  Bay_2
        75T 2W  82T 2W
08/19/1999 07:36  1   0.15    0.01  Bay_2
        75T 2W  82T 1W
08/19/1999 07:46  1   0.00    0.00  Bay_2                                  CHE
08/19/1999 07:56  1   0.74    0.82  Bay_2                                  CHE
        74T 2W  81T 2W
08/19/1999 08:06  1   1.02    1.05  Bay_2                                  CHE
        74T 2W  81T 2W
08/19/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:07

S/N 2085            ALARM                                STATION    2

SOFTWARE:                                              Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 31        ± 15
                    Inlet                s 50        a 53        ± 15
                    FPD Block            s150        a151        ± 15
                    FPD Flame            s225        a218        ± 99
                    Column                           a 50
                    Column, low          s 40        a 40        ± 15
                    Column, high         s180        a178        ± 15
                    Column rate, °C/min  s150        a149        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 54
                    PCT heater, low      s 50        a 52        ± 20
                    PCT heater, high     s235        a237        ± 30

PRESSURES, psi:     Air                  s 35        a 35        ±  5
                    Helium               s 40       a40.6        ±  5
                    Hydrogen             s 35        a 35        ±  5

SAMPLE:             Flow rate, ccm      s 450        a 460       ± 99
                    Average flow rate                a 507
                    Volume, L                       a4.05

TIMES, sec:         Purge          b  0   e120   Sample   b120   e600
                    Desorb         b  5   e 50   Column   b 30   e100
                    Column purge   b100   e100   Inject   b120   e130
                    FPD zero                 0n
```

ELECTROMETER: FPD signal, nA 115 FPD zero, nA 482

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.02C	245H*	526A	73.9T	1.8W	b 71	e 77
GB	1 FPD	1.05C	5583H*	11611A	80.6T	1.7W	b 77	e 84

CALIBRATION DATA:

VX 1 @	1.00 FPD	242H*	520A	74.9T	1.8W	08/18/1999	08:46
GB 1 @	1.00 FPD	5339H*	11164A	81.7T	1.8W	08/18/1999	08:46

SAMPLING SEQUENCE:

A01 Bay_2

ELAPSED TIME ********** 175 sec

Monitor Serial Number 2085 Date 08/19/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/19/1999	08:16	1	0.30	0.10	Bay_2	
	74T 2W	81T 2W				
08/19/1999	08:26	1	0.15	0.03	Bay_2	
	75T 2W	82T 2W				
08/19/1999	08:36	1	0.17	0.02	Bay_2	
	75T 2W	82T 2W				
08/19/1999	08:46	1	0.17	0.01	Bay_2	
	75T 2W	81T 2W				
08/19/1999	08:56	1	0.22	0.01	Bay_2	
	74T 2W	81T 2W				
08/19/1999	09:06	1	0.15	0.01	Bay_2	
	75T 2W	82T 2W				
08/19/1999	09:16	1	0.19	0.01	Bay_2	
	75T 2W	82T 2W				
08/19/1999	09:26	1	0.19	0.01	Bay_2	
	75T 2W	82T 2W				
08/19/1999	09:36	1	0.18	0.01	Bay_2	
	74T 2W	81T 2W				
08/19/1999	09:46	1	0.19	0.01	Bay_2	
	75T 2W	82T 2W				
08/19/1999	09:56	1	0.19	0.01	Bay_2	
	75T 2W	81T 2W				
08/19/1999	10:06	1	0.22	0.01	Bay_2	
	75T 2W	82T 2W				
08/19/1999	10:16	1	0.21	0.01	Bay_2	
	75T 2W	82T 2W				
08/19/1999	10:26	1	0.21	0.01	Bay_2	
	75T 2W	81T 2W				
08/19/1999	10:36	1	0.24	0.01	Bay_2	
	75T 2W	82T 2W				
08/19/1999	10:46	1	0.23	0.02	Bay_2	
	75T 2W	81T 2W				
08/19/1999	10:56	1	0.23	0.01	Bay_2	
	75T 2W	81T 2W				
08/19/1999	11:06	1	0.25	0.01	Bay_2	
	75T 2W	81T 2W				
08/19/1999	11:16	1	0.23	0.02	Bay_2	
	74T 2W	81T 2W				
08/19/1999	11:26	1	0.24	0.03	Bay_2	

08/19/1999	11:46	1	0.25	0.02	Bay_2
74T 2W	81T 2W				
08/19/1999	11:56	1	0.23	0.02	Bay_2
74T 2W	81T 2W				
08/19/1999	12:06	1	0.25	0.01	Bay_2
74T 2W	81T 2W				
08/19/1999	12:16	1	0.28	0.00	Bay_2
75T 2W					
08/19/1999	12:26	1	0.26	0.02	Bay_2
74T 2W	81T 2W				
08/19/1999	12:36	1	0.26	0.00	Bay_2
76T 2W					
08/19/1999	12:46	1	0.25	0.02	Bay_2
75T 2W	82T 2W				
08/19/1999	12:56	1	0.26	0.02	Bay_2
75T 2W	82T 2W				
08/19/1999	13:06	1	0.26	0.02	Bay_2
76T 2W	83T 2W				

Monitor Serial Number 2085 Date 08/19/1999 Sampling Station 2

Date	Time	Port	VX	SB		TWAG
08/19/1999	13:16	1	0.24	0.02	Bay_2	
76T 2W	82T 2W					
08/19/1999	13:26	1	0.26	0.02	Bay_2	
76T 2W	82T 2W					
08/19/1999	13:36	1	0.27	0.02	Bay_2	
76T 2W	83T 2W					
08/19/1999	13:46	1	0.26	0.02	Bay_2	
75T 2W	81T 2W					
08/19/1999	13:56	1	0.25	0.02	Bay_2	
75T 2W	81T 2W					
08/19/1999	14:06	1	0.25	0.02	Bay_2	
76T 2W	82T 2W					
08/19/1999	14:16	1	0.26	0.02	Bay_2	
76T 2W	82T 2W					
08/19/1999	14:26	1	0.26	0.02	Bay_2	
74T 2W	81T 2W					
08/19/1999	14:36	1	0.27	0.02	Bay_2	
75T 2W	82T 2W					
08/19/1999	14:46	1	0.22	0.02	Bay_2	
75T 2W	83T 2W					
08/19/1999	14:56	1	0.24	0.02	Bay_2	
74T 2W	81T 2W					
08/19/1999	15:06	1	0.22	0.00	Bay_2	
75T 2W						
08/19/1999	15:16	1	0.24	0.02	Bay_2	
75T 2W	81T 2W					
08/19/1999	15:26	1	0.26	0.01	Bay_2	
75T 2W	82T 2W					
08/19/1999	15:36	1	0.25	0.02	Bay_2	
75T 2W	82T 2W					
08/19/1999	15:46	1	0.26	0.02	Bay_2	
74T 2W	81T 2W					
08/19/1999	15:56	1	0.23	0.02	Bay_2	
76T 2W	82T 2W					
08/19/1999	16:06	1	0.23	0.02	Bay_2	
76T 2W	83T 2W					
08/19/1999	16:16	1	0.23	0.02	Bay_2	
75T 2W	81T 2W					
08/19/1999	16:26	1	0.25	0.02	Bay_2	
76T 2W	83T 2W					

08/19/1999 16:46 1 0.24 0.02 Bay_Z
75T 2W 82T 2W
08/19/1999 16:56 1 0.22 0.02 Bay_Z
75T 2W 82T 2W
08/19/1999 17:06 1 0.27 0.02 Bay_Z
74T 2W 81T 2W
08/19/1999 17:16 1 0.19 0.03 Bay_Z
76T 2W 82T 2W
08/19/1999 17:26 1 0.25 0.02 Bay_Z
76T 2W 83T 2W
08/19/1999 17:36 1 0.21 0.02 Bay_Z
74T 2W 80T 2W
08/19/1999 17:46 1 0.22 0.03 Bay_Z
76T 2W 83T 2W
08/19/1999 17:56 1 0.22 0.02 Bay_Z
76T 2W 82T 2W
08/19/1999 18:06 1 0.20 0.02 Bay_Z
75T 2W 82T 2W

Monitor Serial Number 2085 Date 08/19/1999 Sampling Station Z

Date	Time	Port	VX	GB		TWAG
08/19/1999	18:16	1	0.27	0.02	Bay_Z	
	76T 2W	83T 2W				
08/19/1999	18:26	1	0.19	0.02	Bay_Z	
	75T 2W	81T 2W				
08/19/1999	18:36	1	0.23	0.01	Bay_Z	
	75T 2W	82T 2W				
08/19/1999	18:46	1	0.19	0.02	Bay_Z	
	76T 2W	82T 2W				
08/19/1999	18:56	1	0.23	0.01	Bay_Z	
	74T 2W	81T 2W				
08/19/1999	19:06	1	0.20	0.01	Bay_Z	
	76T 2W	82T 2W				
08/19/1999	19:16	1	0.19	0.02	Bay_Z	
	76T 2W	82T 2W				
08/19/1999	19:26	1	0.18	0.02	Bay_Z	
	75T 2W	81T 2W				
08/19/1999	19:36	1	0.22	0.02	Bay_Z	
	76T 3W	83T 2W				
08/19/1999	19:46	1	0.22	0.01	Bay_Z	
	75T 2W	82T 2W				
08/19/1999	19:56	1	0.25	0.01	Bay_Z	
	75T 2W	82T 2W				
08/19/1999	20:06	1	0.19	0.01	Bay_Z	
	76T 2W	83T 2W				
08/19/1999	20:16	1	0.20	0.01	Bay_Z	
	75T 2W	81T 2W				
08/19/1999	20:26	1	0.18	0.01	Bay_Z	
	75T 2W	82T 1W				
08/19/1999	20:36	1	0.19	0.01	Bay_Z	
	75T 2W	82T 2W				
08/19/1999	20:46	1	0.16	0.01	Bay_Z	
	75T 2W	82T 2W				
08/19/1999	20:56	1	0.17	0.01	Bay_Z	
	75T 2W	81T 2W				
08/19/1999	21:06	1	0.15	0.01	Bay_Z	
	76T 2W	83T 1W				
08/19/1999	21:16	1	0.18	0.01	Bay_Z	
	74T 2W	81T 2W				
08/19/1999	21:26	1	0.17	0.00	Bay_Z	

08/19/1999 21:46	1	0.16	0.01	Bay_Z	
76T 2W	82T 2W				
08/19/1999 21:56	1	0.15	0.01	Bay_Z	
76T 2W	82T 2W				
08/19/1999 22:06	1	0.14	0.01	Bay_Z	
75T 2W	82T 2W				
08/19/1999 22:16	1	0.14	0.01	Bay_Z	
76T 2W	83T 2W				
08/19/1999 22:26	1	0.16	0.01	Bay_Z	
76T 2W	82T 2W				
08/19/1999 22:36	1	0.14	0.01	Bay_Z	
76T 2W	82T 2W				
08/19/1999 22:46	1	0.15	0.01	Bay_Z	
76T 2W	83T 2W				
08/19/1999 22:56	1	0.15	0.01	Bay_Z	
76T 2W	82T 2W				
08/19/1999 23:06	1	0.11	0.01	Bay_Z	
75T 2W	81T 2W				

Monitor Serial Number 2085 Date 08/19/1999 Sampling Station 2

Date	Time	Port	VX	GB		TWAG
08/19/1999 23:16		1	0.14	0.01	Bay_Z	
75T 2W	82T 2W					
08/19/1999 23:26		1	0.14	0.01	Bay_Z	
76T 2W	83T 2W					
08/19/1999 23:36		1	0.17	0.01	Bay_Z	
76T 2W	82T 2W					
08/19/1999 23:46		1	0.00	0.01	Bay_Z	
81T 2W						
08/19/1999 23:56		1	0.13	0.01	Bay_Z	
75T 2W	82T 1W					
08/20/1999 00:06		1	0.15	0.01	Bay_Z	
75T 2W	81T 2W					
08/20/1999 00:16		1	0.14	0.01	Bay_Z	
75T 2W	82T 2W					
08/20/1999 00:26		1	0.13	0.01	Bay_Z	
76T 2W	82T 2W					
08/20/1999 00:36		1	0.14	0.01	Bay_Z	
75T 2W	82T 2W					
08/20/1999 00:46		1	0.16	0.01	Bay_Z	
75T 2W	82T 2W					
08/20/1999 00:56		1	0.14	0.01	Bay_Z	
76T 2W	82T 2W					
08/20/1999 01:06		1	0.14	0.01	Bay_Z	
75T 2W	82T 2W					
08/20/1999 01:16		1	0.14	0.01	Bay_Z	
75T 2W	82T 2W					
08/20/1999 01:26		1	0.16	0.01	Bay_Z	
75T 2W	83T 2W					
08/20/1999 01:36		1	0.15	0.01	Bay_Z	
75T 2W	82T 2W					
08/20/1999 01:46		1	0.18	0.01	Bay_Z	
74T 2W	81T 2W					
08/20/1999 01:56		1	0.14	0.01	Bay_Z	
76T 2W	83T 2W					
08/20/1999 02:06		1	0.13	0.01	Bay_Z	
75T 2W	82T 2W					
08/20/1999 02:16		1	0.13	0.01	Bay_Z	
76T 2W	82T 2W					
08/20/1999 02:26		1	0.15	0.01	Bay_Z	
75T 2W	81T 2W					

08/20/1999 02:46 1 0.15 0.00 Bay_2
75T 2W
08/20/1999 02:56 1 0.15 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 03:06 1 0.15 0.01 Bay_2
76T 2W 82T 2W
08/20/1999 03:16 1 0.14 0.01 Bay_2
75T 2W 81T 2W
08/20/1999 03:26 1 0.15 0.01 Bay_2
74T 2W 81T 2W
08/20/1999 03:36 1 0.14 0.01 Bay_2
76T 2W 82T 2W
08/20/1999 03:46 1 0.13 0.01 Bay_2
76T 2W 82T 2W
08/20/1999 03:56 1 0.16 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 04:06 1 0.15 0.01 Bay_2
75T 2W 81T 2W

Monitor Serial Number 2085 Date 08/20/1999 Sampling Station 2

Date Time Port VX SB TWAG

08/20/1999 04:16 1 0.16 0.01 Bay_2
74T 2W 80T 1W
08/20/1999 04:26 1 0.14 0.00 Bay_2
76T 2W
08/20/1999 04:36 1 0.12 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 04:46 1 0.11 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 04:56 1 0.15 0.01 Bay_2
76T 2W 82T 2W
08/20/1999 05:06 1 0.15 0.01 Bay_2
74T 2W 80T 2W
08/20/1999 05:16 1 0.14 0.01 Bay_2
76T 2W 82T 2W
08/20/1999 05:26 1 0.13 0.01 Bay_2
74T 2W 81T 2W
08/20/1999 05:36 1 0.12 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 05:46 1 0.14 0.01 Bay_2
76T 2W 83T 2W
08/20/1999 05:56 1 0.16 0.01 Bay_2
74T 2W 81T 2W
08/20/1999 06:06 1 0.14 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 06:16 1 0.15 0.01 Bay_2
74T 2W 81T 2W
08/20/1999 06:26 1 0.11 0.01 Bay_2
75T 2W 81T 2W
08/20/1999 06:36 1 0.14 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 06:46 1 0.12 0.01 Bay_2
75T 2W 82T 2W
08/20/1999 06:56 1 0.00 0.01 Bay_2
82T 2W

BAY 3

Monitor Serial Number 1356 Date 08/13/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:15	1	2.68	1.29	Bay_3	CAL
	87T 3W	93T 2W				

Monitor Serial Number 1356 Date 08/13/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:21	1	1.08	1.17	Bay_3	CAL
	89T 3W	93T 2W				

Monitor Serial Number 1356 Date 08/13/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:30	1	29.9	0.00	Bay_3	CAL
	84T 2W					

Monitor Serial Number 1356 Date 08/13/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:39	1	1.22	1.32	Bay_3	CAL
	79T 2W	85T 2W				

CALIBRATION	VX	GB
AVERAGE	95H	2407H

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 17:40

S/N 1356 CHECK STATION 3

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 34	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a208	± 99
	Column		a 68	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20

PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.3	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 471	± 99
	Average flow rate		a 461	
	Volume, L		a3.69	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1030	a1045	± 50
ELECTROMETER:	FPD signal, nA	55	FPD zero, nA	279

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.00C	95H*	171A	78.5T	1.5W	b 76	e 82
GB	1 FPD	1.00C	2407H*	4394A	84.6T	1.5W	b 82	e 88

CALIBRATION DATA:

VX 1 @	1.00 FPD	95H*	171A	78.5T	1.5W	08/13/1999	17:39
GB 1 @	1.00 FPD	2407H*	4394A	84.6T	1.5W	08/13/1999	17:39

SAMPLING SEQUENCE:

A01 Bay_3

ELAPSED TIME ********** 171 sec

Monitor Serial Number 1356 Date 08/13/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:49	1	1.84	1.96	Bay_3	CHE
	78T 1W	85T 2W				
08/13/1999	17:59	1	0.94	1.03	Bay_3	CHE
	79T 2W	85T 2W				

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 18:01

S/N 1356 ALARM STATION 3

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 35	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a151	± 15
	FPD Flame	s225	a208	± 99
	Column		a 71	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s240	a241	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.3	± 5

SAMPLE: Flow rate, ccm s 450 a 454 ± 99
Average flow rate a 462
Volume, L a3.70

TIMES, sec: Purge b 0 e120 Sample b120 e600
Desorb b 5 e 50 Column b 30 e100
Column purge b100 e100 Inject b120 e130
FPD zero On

VOLTAGE, VDC: FPD photomultiplier s1030 a1040 ± 50

ELECTROMETER: FPD signal, nA 75 FPD zero, nA 281

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.94C	89H*	163A	78.8T	1.6W	b 76	e 82
GB	1 FPD	1.03C	2481H*	4892A	84.8T	1.5W	b 82	e 88

CALIBRATION DATA:

VX	1 @	1.00 FPD	95H*	171A	78.5T	1.5W	08/13/1999	17:39
GB	1 @	1.00 FPD	2407H*	4394A	84.6T	1.5W	08/13/1999	17:39

SAMPLING SEQUENCE:

A01 Bay_3

ELAPSED TIME ********** 182 sec

Monitor Serial Number 1356 Date 08/13/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/13/1999	18:09	1	2.35	1.32	Bay_3	ALA
	79T 2W	85T 2W				
08/13/1999	18:19	1	1.85	0.57	Bay_3	ALA
	78T 2W	85T 2W				
08/13/1999	18:29	1	1.25	0.24	Bay_3	ALA
	79T 1W	85T 2W				
08/13/1999	18:39	1	0.00	0.13	Bay_3	
		85T 2W				
08/13/1999	18:49	1	0.00	0.11	Bay_3	
		85T 2W				
08/13/1999	18:59	1	0.00	0.08	Bay_3	
		85T 1W				
08/13/1999	19:09	1	0.00	0.09	Bay_3	
		85T 2W				
08/13/1999	19:19	1	0.50	0.09	Bay_3	
	78T 2W	85T 2W				
08/13/1999	19:29	1	0.00	0.07	Bay_3	
		85T 2W				
08/13/1999	19:39	1	0.00	0.08	Bay_3	
		85T 2W				
08/13/1999	19:49	1	0.00	0.08	Bay_3	
		85T 2W				
08/13/1999	19:59	1	0.00	0.06	Bay_3	
		85T 2W				
08/13/1999	20:09	1	0.00	0.07	Bay_3	
		85T 2W				
08/13/1999	20:19	1	0.46	0.06	Bay_3	
	78T 1W	85T 2W				
08/13/1999	20:29	1	0.33	0.06	Bay_3	
	78T 1W	85T 2W				

79T 2W 85T 1W
08/13/1999 20:59 1 0.40 0.05 Bay_3
78T 2W 85T 2W
08/13/1999 21:09 1 0.00 0.05 Bay_3
85T 1W
08/13/1999 21:19 1 0.00 0.05 Bay_3
85T 1W
08/13/1999 21:29 1 0.23 0.05 Bay_3
78T 2W 85T 2W
08/13/1999 21:39 1 0.25 0.05 Bay_3
78T 2W 84T 2W
08/13/1999 21:49 1 0.27 0.05 Bay_3
78T 1W 85T 2W
08/13/1999 21:59 1 0.28 0.05 Bay_3
78T 2W 85T 2W
08/13/1999 22:09 1 0.21 0.06 Bay_3
78T 2W 84T 2W
08/13/1999 22:19 1 0.47 0.05 Bay_3
79T 2W 85T 2W
08/13/1999 22:29 1 0.30 0.05 Bay_3
79T 2W 85T 2W
08/13/1999 22:39 1 0.00 0.05 Bay_3
85T 2W
08/13/1999 22:49 1 0.31 0.05 Bay_3
78T 2W 85T 2W
08/13/1999 22:59 1 0.28 0.04 Bay_3
78T 1W 85T 2W

Monitor Serial Number 1356 Date 08/13/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/13/1999	23:09	1	0.38	0.05	Bay_3	
	78T 1W	84T 2W				
08/13/1999	23:19	1	0.00	0.04	Bay_3	
	85T 2W					
08/13/1999	23:29	1	0.00	0.04	Bay_3	
	85T 1W					
08/13/1999	23:39	1	0.00	0.05	Bay_3	
	85T 2W					
08/13/1999	23:49	1	0.34	0.04	Bay_3	
	78T 2W	85T 1W				
08/13/1999	23:59	1	0.00	0.04	Bay_3	
	85T 2W					
08/14/1999	00:09	1	0.40	0.05	Bay_3	
	79T 2W	85T 1W				
08/14/1999	00:19	1	0.00	0.04	Bay_3	
	85T 2W					
08/14/1999	00:29	1	0.00	0.03	Bay_3	
	84T 2W					
08/14/1999	00:39	1	0.00	0.05	Bay_3	
	85T 2W					
08/14/1999	00:49	1	0.00	0.06	Bay_3	
	85T 1W					
08/14/1999	00:59	1	1.09	0.00	Bay_3	ALA
	79T 1W					
08/14/1999	01:09	1	0.00	0.02	Bay_3	
	82T 2W					
08/14/1999	01:19	1	0.00	0.00	Bay_3	
08/14/1999	01:29	1	1.22	0.10	Bay_3	ALA
	79T 3W	87T 2W				

VXW ERROR

08/14/1999 01:49 1 0.00 0.00 Bay_3
08/14/1999 01:59 1 0.00 0.02 Bay_3
82T 1W
08/14/1999 02:09 1 0.00 0.06 Bay_3
85T 2W
08/14/1999 02:19 1 0.99 0.00 Bay_3
78T 2W
08/14/1999 02:29 1 1.03 0.00 Bay_3 ALA
78T 1W
08/14/1999 02:39 1 0.00 0.02 Bay_3
85T 1W
08/14/1999 02:49 1 0.00 0.03 Bay_3
85T 1W
08/14/1999 02:59 1 0.00 0.05 Bay_3
85T 2W
08/14/1999 03:09 1 0.00 0.03 Bay_3
85T 2W
08/14/1999 03:19 1 0.63 0.02 Bay_3
81T 2W 85T 1W
08/14/1999 03:29 1 0.66 0.03 Bay_3
79T 2W 85T 2W
08/14/1999 03:39 1 0.72 0.02 Bay_3
79T 2W 85T 1W
08/14/1999 03:49 1 0.00 0.03 Bay_3
85T 1W
08/14/1999 03:59 1 0.55 0.02 Bay_3
82T 1W 85T 1W

Monitor Serial Number 1356 Date 08/14/1999 Sampling Station 3

Date Time Port VX SB TWAG

08/14/1999 04:09 1 0.31 0.03 Bay_3
79T 2W 85T 2W
08/14/1999 04:19 1 0.00 0.03 Bay_3
85T 2W
08/14/1999 04:29 1 0.36 0.02 Bay_3
78T 1W 88T 1W
08/14/1999 04:39 1 0.23 0.00 Bay_3
78T 1W
08/14/1999 04:49 1 0.00 0.04 Bay_3
85T 2W
08/14/1999 04:59 1 0.17 0.03 Bay_3
77T 1W 85T 2W
08/14/1999 05:09 1 0.00 0.03 Bay_3
85T 2W
08/14/1999 05:19 1 0.24 0.03 Bay_3
78T 1W 85T 2W
08/14/1999 05:29 1 0.13 0.03 Bay_3
82T 1W 85T 1W
08/14/1999 05:39 1 0.00 0.02 Bay_3
85T 2W
08/14/1999 05:49 1 0.00 0.02 Bay_3
85T 1W
08/14/1999 05:59 1 0.00 0.03 Bay_3
85T 2W
08/14/1999 06:09 1 0.00 0.02 Bay_3
84T 1W
08/14/1999 06:19 1 0.23 0.03 Bay_3
77T 2W 85T 1W
08/14/1999 06:29 1 0.26 0.02 Bay_3
79T 2W 85T 1W
08/14/1999 06:39 1 0.22 0.02 Bay_3

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                    85T 2W
08/14/1999 06:59  1   0.23    0.02  Bay_3
         78T 1W  85T 1W
08/14/1999 07:09  1   0.24    0.03  Bay_3
         79T 2W  85T 1W
08/14/1999 07:19  1   0.00    0.02  Bay_3
                 84T 1W
08/14/1999 07:29  1   0.41    0.03  Bay_3
         78T 2W  85T 2W
08/14/1999 07:39  1   0.30    0.03  Bay_3
         79T 2W  85T 2W
08/14/1999 07:49  1   0.29    0.02  Bay_3
         78T 1W  85T 1W
08/14/1999 07:59  1   0.29    0.02  Bay_3
         79T 1W  85T 1W
08/14/1999 08:09  1   0.19    0.02  Bay_3
         79T 1W  85T 1W
08/14/1999 08:19  1   0.45    0.02  Bay_3
         79T 2W  85T 2W
08/14/1999 08:29  1   0.34    0.00  Bay_3
         79T 2W
08/14/1999 08:39  1   0.22    0.03  Bay_3
         78T 1W  85T 1W
08/14/1999 08:49  1   1.11    0.88  Bay_3                                  ALA
         79T 2W  85T 2W
08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:50

S/N 1356            ALARM                                STATION    3

SOFTWARE:                                              Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 35        ± 15
                    Inlet                s 50        a 51        ± 15
                    FPD Block            s150        a149        ± 15
                    FPD Flame            s225        a209        ± 99
                    Column                           a113
                    Column, low          s 40        a 41        ± 15
                    Column, high         s180        a180        ± 15
                    Column rate, °C/min  s150        a149        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 50
                    PCT heater, low      s 50        a 51        ± 20
                    PCT heater, high     s240        a241        ± 30

PRESSURES, psi:     Air                  s 35        a 36        ±  5
                    Helium               s 40       a40.1        ±  5
                    Hydrogen             s 35        a 34        ±  5

SAMPLE:             Flow rate, ccm      s 450       a 458        ± 99
                    Average flow rate               a 467
                    Volume, L                       a3.74

TIMES, sec:         Purge         b  0   e120   Sample   b120    e600
                    Desorb        b  5   e 50   Column   b 30    e100
                    Column purge  b100   e100   Inject   b120    e130
                    FPD zero              On

VOLTAGE, VDC:       FPD photomultiplier s1030       a1045        ± 50

ELECTROMETER:       FPD signal, nA         47   FPD  zero, nA     287

CONCENTRATION REPORTS:                   Alarm setpoint, TWAG    1.00

UX   1 FPD   1.11C    108H*    219A   78.5T  1.7W       b 76    e 82
```

DC
PCB

CALIBRATION DATA:

VX 1 @ 1.00 FPD	95H*	171A	78.5T	1.5W	08/13/1999	17:39
GB 1 @ 1.00 FPD	2407H*	4394A	84.6T	1.5W	08/13/1999	17:39

SAMPLING SEQUENCE:

A01 Bay_3

ELAPSED TIME ********** 133 sec

Monitor Serial Number 1356 Date 08/14/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/14/1999	08:59	1	0.63	0.06	Bay_3	
	79T 2W	85T 1W				
08/14/1999	09:09	1	0.45	0.03	Bay_3	
	79T 2W	85T 1W				
08/14/1999	09:19	1	0.47	0.03	Bay_3	
	78T 2W	85T 1W				
08/14/1999	09:29	1	0.42	0.02	Bay_3	
	79T 1W	85T 2W				
08/14/1999	09:39	1	0.43	0.02	Bay_3	
	79T 2W	85T 2W				
08/14/1999	09:49	1	0.34	0.02	Bay_3	
	78T 2W	84T 1W				
08/14/1999	09:59	1	0.58	0.03	Bay_3	
	79T 2W	85T 1W				
08/14/1999	10:09	1	0.00	0.03	Bay_3	
		84T 2W				
08/14/1999	10:19	1	0.48	0.03	Bay_3	
	79T 2W	85T 1W				
08/14/1999	10:29	1	0.32	0.03	Bay_3	
	78T 2W	85T 2W				
08/14/1999	10:39	1	0.27	0.03	Bay_3	
	78T 2W	84T 2W				
08/14/1999	10:49	1	0.37	0.03	Bay_3	
	79T 2W	85T 2W				
08/14/1999	10:59	1	0.33	0.03	Bay_3	
	79T 2W	85T 1W				
08/14/1999	11:09	1	0.29	0.03	Bay_3	
	79T 2W	85T 1W				
08/14/1999	11:19	1	0.38	0.03	Bay_3	
	79T 2W	85T 1W				
08/14/1999	11:29	1	0.00	0.03	Bay_3	
		85T 2W				
08/14/1999	11:39	1	0.28	0.03	Bay_3	
	78T 2W	85T 1W				
08/14/1999	11:49	1	0.34	0.03	Bay_3	
	78T 1W	85T 2W				
08/14/1999	11:59	1	0.25	0.03	Bay_3	
	79T 1W	85T 1W				
08/14/1999	12:09	1	0.24	0.02	Bay_3	
	79T 2W	85T 1W				
08/14/1999	12:19	1	0.18	0.03	Bay_3	
	78T 2W	85T 1W				
08/14/1999	12:29	1	0.24	0.03	Bay_3	
	78T 1W	85T 1W				
08/14/1999	12:39	1	0.34	0.03	Bay_3	
	79T 2W	85T 2W				
08/14/1999	12:49	1	0.31	0.03	Bay_3	
	78T 1W	85T 2W				

08/14/1999 13:09 1 0.31 0.03 Bay_3
78T 2W 85T 2W
08/14/1999 13:19 1 0.00 0.04 Bay_3
84T 2W
08/14/1999 13:29 1 0.38 0.04 Bay_3
79T 2W 85T 2W
08/14/1999 13:39 1 0.00 0.03 Bay_3
84T 2W
08/14/1999 13:49 1 0.30 0.04 Bay_3
79T 2W 85T 2W

Monitor Serial Number 1356 Date 08/14/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/14/1999	13:59	1	0.37	0.03	Bay_3	
	78T 2W	85T 2W				
08/14/1999	14:09	1	0.19	0.04	Bay_3	
	78T 2W	85T 2W				
08/14/1999	14:19	1	0.00	0.04	Bay_3	
	85T 2W					
08/14/1999	14:29	1	0.33	0.04	Bay_3	
	78T 2W	84T 1W				
08/14/1999	14:39	1	0.40	0.03	Bay_3	
	79T 2W	85T 2W				
08/14/1999	14:49	1	0.22	0.04	Bay_3	
	78T 2W	84T 2W				
08/14/1999	14:59	1	0.34	0.03	Bay_3	
	79T 2W	85T 1W				
08/14/1999	15:09	1	0.30	0.04	Bay_3	
	78T 1W	85T 1W				
08/14/1999	15:19	1	0.24	0.03	Bay_3	
	78T 2W	84T 2W				
08/14/1999	15:29	1	0.37	0.03	Bay_3	
	78T 2W	84T 1W				
08/14/1999	15:39	1	0.00	0.03	Bay_3	
	84T 1W					
08/14/1999	15:49	1	0.33	0.03	Bay_3	
	78T 2W	84T 1W				
08/14/1999	15:59	1	0.35	0.03	Bay_3	
	78T 2W	85T 2W				
08/14/1999	16:09	1	0.31	0.04	Bay_3	
	78T 1W	85T 2W				
08/14/1999	16:19	1	0.33	0.04	Bay_3	
	78T 2W	84T 1W				
08/14/1999	16:29	1	0.27	0.04	Bay_3	
	78T 2W	85T 2W				
08/14/1999	16:39	1	0.33	0.03	Bay_3	
	78T 2W	84T 2W				
08/14/1999	16:49	1	0.23	0.03	Bay_3	
	78T 2W	84T 2W				
08/14/1999	16:59	1	0.33	0.04	Bay_3	
	79T 2W	85T 2W				
08/14/1999	17:09	1	0.22	0.03	Bay_3	
	78T 1W	84T 2W				
08/14/1999	17:19	1	0.27	0.03	Bay_3	
	78T 2W	84T 2W				
08/14/1999	17:29	1	0.20	0.03	Bay_3	
	78T 1W	84T 2W				
08/14/1999	17:39	1	0.00	0.03	Bay_3	
	85T 2W					
08/14/1999	17:49	1	0.24	0.03	Bay_3	
	79T 2W	85T 1W				

08/14/1999 18:09 1 0.26 0.03 Bay_3
79T 1W 84T 2W
08/14/1999 18:19 1 0.00 0.03 Bay_3
85T 2W
08/14/1999 18:29 1 0.26 0.03 Bay_3
78T 2W 85T 1W
08/14/1999 18:39 1 0.34 0.03 Bay_3
79T 2W 85T 1W
08/14/1999 18:49 1 0.25 0.03 Bay_3
78T 2W 84T 1W

Monitor Serial Number 1356 Date 08/14/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/14/1999	18:59	1	0.27	0.03	Bay_3	
	79T 2W	84T 2W				
08/14/1999	19:09	1	0.22	0.03	Bay_3	
	78T 2W	84T 1W				
08/14/1999	19:19	1	0.29	0.03	Bay_3	
	78T 2W	84T 2W				
08/14/1999	19:29	1	0.31	0.03	Bay_3	
	79T 2W	85T 2W				
08/14/1999	19:39	1	0.25	0.00	Bay_3	
	79T 2W					
08/14/1999	19:49	1	0.27	0.03	Bay_3	
	78T 2W	84T 1W				
08/14/1999	19:59	1	0.26	0.02	Bay_3	
	78T 1W	84T 2W				
08/14/1999	20:09	1	0.29	0.03	Bay_3	
	78T 2W	85T 2W				
08/14/1999	20:19	1	0.35	0.02	Bay_3	
	78T 2W	84T 1W				
08/14/1999	20:29	1	0.29	0.02	Bay_3	
	78T 2W	84T 1W				
08/14/1999	20:39	1	0.25	0.03	Bay_3	
	78T 2W	85T 2W				
08/14/1999	20:49	1	0.27	0.02	Bay_3	
	78T 2W	85T 2W				
08/14/1999	20:59	1	0.35	0.02	Bay_3	
	79T 2W	85T 1W				
08/14/1999	21:09	1	0.23	0.03	Bay_3	
	78T 2W	85T 1W				
08/14/1999	21:19	1	0.25	0.02	Bay_3	
	78T 2W	84T 1W				
08/14/1999	21:29	1	0.18	0.02	Bay_3	
	79T 2W	85T 1W				
08/14/1999	21:39	1	0.28	0.03	Bay_3	
	78T 1W	84T 2W				
08/14/1999	21:49	1	0.29	0.02	Bay_3	
	78T 2W	84T 2W				
08/14/1999	21:59	1	0.26	0.02	Bay_3	
	78T 1W	85T 2W				
08/14/1999	22:09	1	0.26	0.02	Bay_3	
	79T 2W	85T 2W				
08/14/1999	22:19	1	0.28	0.02	Bay_3	
	78T 2W	84T 2W				
08/14/1999	22:29	1	0.27	0.02	Bay_3	
	78T 1W	85T 2W				
08/14/1999	22:39	1	0.23	0.00	Bay_3	
	79T 1W					
08/14/1999	22:49	1	0.27	0.02	Bay_3	
	78T 2W	84T 2W				

79T 2W 85T 2W
08/14/1999 23:19 1 0.28 0.02 Bay_3
78T 2W 85T 1W
08/14/1999 23:29 1 0.25 0.02 Bay_3
79T 2W 85T 1W
08/14/1999 23:39 1 0.20 0.02 Bay_3
79T 2W 85T 2W
08/14/1999 23:49 1 0.18 0.02 Bay_3
78T 2W 85T 2W

Monitor Serial Number 1356 Date 08/14/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/14/1999	23:59	1	0.23	0.02	Bay_3	
	79T 2W	85T 1W				
08/15/1999	00:09	1	0.17	0.02	Bay_3	
	78T 1W	85T 2W				
08/15/1999	00:19	1	0.22	0.02	Bay_3	
	78T 1W	85T 1W				
08/15/1999	00:29	1	0.20	0.02	Bay_3	
	79T 2W	85T 2W				
08/15/1999	00:39	1	0.24	0.02	Bay_3	
	78T 1W	85T 2W				
08/15/1999	00:49	1	0.00	0.02	Bay_3	
		85T 2W				
08/15/1999	00:59	1	0.25	0.02	Bay_3	
	78T 1W	84T 2W				
08/15/1999	01:09	1	0.20	0.02	Bay_3	
	79T 2W	85T 1W				
08/15/1999	01:19	1	0.25	0.02	Bay_3	
	78T 2W	84T 1W				
08/15/1999	01:29	1	0.22	0.02	Bay_3	
	78T 2W	85T 2W				
08/15/1999	01:39	1	0.22	0.02	Bay_3	
	78T 1W	84T 2W				
08/15/1999	01:49	1	0.24	0.01	Bay_3	
	78T 2W	84T 1W				
08/15/1999	01:59	1	0.00	0.02	Bay_3	
		85T 2W				
08/15/1999	02:09	1	0.19	0.02	Bay_3	
	78T 1W	85T 1W				
08/15/1999	02:19	1	0.15	0.02	Bay_3	
	79T 2W	85T 1W				
08/15/1999	02:29	1	0.17	0.02	Bay_3	
	78T 1W	84T 1W				
08/15/1999	02:39	1	0.21	0.02	Bay_3	
	79T 2W	85T 1W				
08/15/1999	02:49	1	0.20	0.01	Bay_3	
	78T 2W	85T 2W				
08/15/1999	02:59	1	0.22	0.01	Bay_3	
	79T 2W	85T 2W				
08/15/1999	03:09	1	0.21	0.01	Bay_3	
	78T 2W	84T 2W				
08/15/1999	03:19	1	0.18	0.01	Bay_3	
	79T 2W	85T 2W				
08/15/1999	03:29	1	0.20	0.01	Bay_3	
	78T 2W	85T 2W				
08/15/1999	03:39	1	0.15	0.01	Bay_3	
	79T 2W	85T 2W				
08/15/1999	03:49	1	0.30	0.01	Bay_3	
	78T 2W	85T 2W				

08/15/1999 04:09 1 0.16 0.02 Bay_3
79T 2W 85T 1W
08/15/1999 04:19 1 0.15 0.01 Bay_3
78T 2W 85T 2W
08/15/1999 04:29 1 0.19 0.01 Bay_3
78T 2W 85T 1W
08/15/1999 04:39 1 0.21 0.01 Bay_3
78T 2W 85T 1W
08/15/1999 04:49 1 0.27 0.01 Bay_3
78T 2W 84T 2W

Monitor Serial Number 1356 Date 08/15/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/15/1999	04:59	1	0.00	0.01	Bay_3	
		85T 2W				
08/15/1999	05:09	1	0.16	0.01	Bay_3	
		78T 1W	84T 1W			
08/15/1999	05:19	1	0.19	0.01	Bay_3	
		79T 1W	85T 2W			
08/15/1999	05:29	1	0.21	0.01	Bay_3	
		78T 2W	85T 1W			
08/15/1999	05:39	1	0.17	0.01	Bay_3	
		78T 2W	84T 2W			
08/15/1999	05:49	1	0.18	0.01	Bay_3	
		79T 2W	85T 2W			
08/15/1999	05:59	1	0.17	0.01	Bay_3	
		78T 1W	84T 2W			
08/15/1999	06:09	1	0.14	0.01	Bay_3	
		78T 1W	84T 2W			
08/15/1999	06:19	1	0.19	0.02	Bay_3	
		78T 1W	85T 2W			
08/15/1999	06:29	1	0.13	0.01	Bay_3	
		78T 1W	85T 2W			
08/15/1999	06:39	1	0.15	0.01	Bay_3	
		79T 2W	85T 2W			
08/15/1999	06:49	1	0.14	0.01	Bay_3	
		78T 2W	84T 1W			
08/15/1999	06:59	1	0.17	0.01	Bay_3	
		79T 2W	85T 1W			
08/15/1999	07:09	1	0.20	0.01	Bay_3	
		77T 2W	84T 1W			
08/15/1999	07:19	1	0.24	0.01	Bay_3	
		78T 1W	84T 1W			
08/15/1999	07:29	1	0.26	0.01	Bay_3	
		79T 1W	85T 2W			
08/15/1999	07:39	1	0.15	0.01	Bay_3	
		79T 2W	85T 2W			
08/15/1999	07:49	1	0.13	0.02	Bay_3	
		78T 1W	85T 2W			
08/15/1999	07:59	1	0.24	0.01	Bay_3	
		78T 2W	85T 1W			
08/15/1999	08:09	1	0.17	0.01	Bay_3	
		78T 1W	84T 1W			
08/15/1999	08:19	1	0.22	0.01	Bay_3	
		79T 1W	85T 1W			
08/15/1999	08:29	1	0.28	0.01	Bay_3	
		78T 2W	84T 1W			
08/15/1999	08:39	1	0.21	0.01	Bay_3	
		78T 2W	84T 2W			
08/15/1999	08:49	1	0.22	0.01	Bay_3	
		79T 2W	85T 2W			

Date	Time	Port	VX	GB			TWAG
08/15/1999	08:58	1	0.12	0.01	Bay_3		
	79T 2W	85T 1W					
08/15/1999	09:08	1	0.00	0.01	Bay_3		
		86T 2W					
08/15/1999	09:18	1	1.11	0.86	Bay_3		CHE
	78T 2W	85T 2W					

08/15/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:19

S/N 1356 ALARM STATION 3

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 36	± 15
	Inlet	s 50	a 50	± 15
	FPD Block	s150	a152	± 15
	FPD Flame	s225	a207	± 99
	Column		a 98	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s240	a240	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.3	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 465	± 99
	Average flow rate		a 446	
	Volume, L		a3.57	

DC
RCD

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1030 a1040 ± 50

ELECTROMETER: FPD signal, nA 61 FPD zero, nA 268

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.11C	106H*	209A	78.3T	1.7W	b 76	e 82
GB	1 FPD	0.86C	2071H*	4016A	84.6T	1.6W	b 82	e 88

CALIBRATION DATA:

VX 1 @ 1.00 FPD	96H*	171A	78.5T	1.5W	08/13/1999	17:39
GB 1 @ 1.00 FPD	2407H*	4394A	84.6T	1.5W	08/13/1999	17:39

SAMPLING SEQUENCE:

A01 Bay_3

ELAPSED TIME ********** 144 sec

08/15/1999 09:28 1 0.48 0.05 Bay_3
78T 1W 85T 2W
08/15/1999 09:38 1 0.27 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 09:48 1 0.26 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 09:58 1 0.23 0.02 Bay_3
78T 2W 85T 2W
08/15/1999 10:08 1 0.31 0.02 Bay_3
79T 1W 85T 1W
08/15/1999 10:18 1 0.24 0.02 Bay_3
79T 2W 85T 1W
08/15/1999 10:28 1 0.17 0.01 Bay_3
78T 1W 85T 2W
08/15/1999 10:38 1 0.30 0.01 Bay_3
79T 2W 85T 1W
08/15/1999 10:48 1 0.25 0.01 Bay_3
79T 2W 85T 2W
08/15/1999 10:58 1 0.28 0.01 Bay_3
78T 2W 85T 2W
08/15/1999 11:08 1 0.30 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 11:18 1 0.28 0.02 Bay_3
79T 2W 84T 2W
08/15/1999 11:28 1 0.33 0.01 Bay_3
78T 2W 84T 1W
08/15/1999 11:38 1 0.18 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 11:48 1 0.39 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 11:58 1 0.33 0.03 Bay_3
79T 2W 85T 2W
08/15/1999 12:08 1 0.28 0.02 Bay_3
78T 2W 85T 1W
08/15/1999 12:18 1 0.34 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 12:28 1 0.31 0.01 Bay_3
78T 2W 84T 2W
08/15/1999 12:38 1 0.33 0.02 Bay_3
79T 2W 85T 2W
08/15/1999 12:48 1 0.21 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 12:58 1 0.34 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 13:08 1 0.36 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 13:18 1 0.29 0.02 Bay_3
78T 2W 85T 2W
08/15/1999 13:28 1 0.24 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 13:38 1 0.00 0.02 Bay_3
84T 1W
08/15/1999 13:48 1 0.37 0.02 Bay_3
78T 2W 85T 1W
08/15/1999 13:58 1 0.34 0.02 Bay_3
78T 2W 85T 1W
08/15/1999 14:08 1 0.29 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 14:18 1 0.32 0.01 Bay_3
78T 2W 84T 1W

08/15/1999 14:28 1 0.35 0.02 Bay_3
78T 2W 88T 2W
08/15/1999 14:38 1 0.24 0.01 Bay_3
78T 1W 85T 1W
08/15/1999 14:48 1 0.31 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 14:58 1 0.31 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 15:08 1 0.32 0.02 Bay_3
78T 2W 85T 2W
08/15/1999 15:18 1 0.31 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 15:28 1 0.33 0.02 Bay_3
79T 1W 85T 1W
08/15/1999 15:38 1 0.33 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 15:48 1 0.27 0.00 Bay_3
78T 1W
08/15/1999 15:58 1 0.31 0.02 Bay_3
78T 2W 85T 2W
08/15/1999 16:08 1 0.32 0.02 Bay_3
78T 1W 84T 1W
08/15/1999 16:18 1 0.32 0.02 Bay_3
78T 2W 85T 1W
08/15/1999 16:28 1 0.37 0.02 Bay_3
79T 2W 85T 2W
08/15/1999 16:38 1 0.29 0.02 Bay_3
79T 2W 85T 1W
08/15/1999 16:48 1 0.27 0.02 Bay_3
78T 1W 85T 1W
08/15/1999 16:58 1 0.26 0.02 Bay_3
78T 1W 84T 2W
08/15/1999 17:08 1 0.30 0.02 Bay_3
79T 2W 85T 2W
08/15/1999 17:18 1 0.28 0.02 Bay_3
78T 2W 85T 2W
08/15/1999 17:28 1 0.30 0.02 Bay_3
79T 1W 85T 2W
08/15/1999 17:38 1 0.34 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 17:48 1 0.34 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 17:58 1 0.34 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 18:08 1 0.29 0.02 Bay_3
78T 2W 85T 1W
08/15/1999 18:18 1 0.32 0.01 Bay_3
78T 2W 84T 1W
08/15/1999 18:28 1 0.38 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 18:38 1 0.24 0.01 Bay_3
78T 2W 84T 1W
08/15/1999 18:48 1 0.29 0.02 Bay_3
78T 2W 84T 1W
08/15/1999 18:58 1 0.20 0.01 Bay_3
79T 1W 85T 2W
08/15/1999 19:08 1 0.31 0.02 Bay_3
78T 2W 84T 2W
08/15/1999 19:18 1 0.29 0.02 Bay_3
79T 2W 85T 1W

08/15/1999 19:28	1	0.27	0.02	Bay_3	
79T 2W	85T 1W				
08/15/1999 19:38	1	0.37	0.02	Bay_3	
79T 2W	85T 1W				
08/15/1999 19:48	1	0.32	0.01	Bay_3	
78T 2W	84T 1W				
08/15/1999 19:58	1	0.00	0.01	Bay_3	
85T 1W					
08/15/1999 20:08	1	0.27	0.01	Bay_3	
78T 2W	84T 2W				
08/15/1999 20:18	1	0.27	0.00	Bay_3	
78T 2W					
08/15/1999 20:28	1	0.16	0.00	Bay_3	
78T 1W					
08/15/1999 20:38	1	0.26	0.01	Bay_3	
78T 2W	85T 1W				
08/15/1999 20:48	1	0.23	0.01	Bay_3	
78T 2W	85T 1W				
08/15/1999 20:58	1	0.00	0.01	Bay_3	
85T 2W					
08/15/1999 21:08	1	0.28	0.01	Bay_3	
78T 2W	85T 2W				
08/15/1999 21:18	1	0.00	0.02	Bay_3	
85T 1W					
08/15/1999 21:28	1	0.16	0.01	Bay_3	
78T 2W	85T 2W				
08/15/1999 21:38	1	0.24	0.01	Bay_3	
78T 2W	85T 2W				
08/15/1999 21:48	1	0.14	0.01	Bay_3	
78T 1W	84T 2W				
08/15/1999 21:58	1	0.00	0.02	Bay_3	
85T 1W					
08/15/1999 22:08	1	0.24	0.02	Bay_3	
78T 1W	85T 1W				
08/15/1999 22:18	1	0.19	0.01	Bay_3	
77T 1W	84T 2W				
08/15/1999 22:28	1	0.18	0.02	Bay_3	
78T 2W	85T 2W				
08/15/1999 22:38	1	0.24	0.01	Bay_3	
78T 2W	84T 2W				
08/15/1999 22:48	1	0.25	0.02	Bay_3	
79T 1W	85T 2W				
08/15/1999 22:58	1	0.23	0.01	Bay_3	
78T 2W	85T 2W				
08/15/1999 23:08	1	0.23	0.01	Bay_3	
78T 1W	85T 2W				
08/15/1999 23:18	1	0.18	0.01	Bay_3	
78T 2W	85T 1W				
08/15/1999 23:28	1	0.26	0.01	Bay_3	
78T 2W	84T 2W				
08/15/1999 23:38	1	0.28	0.01	Bay_3	
78T 1W	85T 1W				
08/15/1999 23:48	1	0.22	0.01	Bay_3	
78T 2W	85T 1W				
08/15/1999 23:58	1	0.22	0.01	Bay_3	
79T 2W	85T 2W				
08/16/1999 00:08	1	0.22	0.01	Bay_3	
78T 2W	84T 1W				
08/16/1999 00:18	1	0.26	0.01	Bay_3	
78T 1W	85T 1W				

08/16/1999 00:28 1 0.23 0.01 Bay_3
79T 2W 85T 2W
08/16/1999 00:38 1 0.23 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 00:48 1 0.22 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 00:58 1 0.24 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 01:08 1 0.22 0.01 Bay_3
79T 2W 85T 1W
08/16/1999 01:18 1 0.24 0.01 Bay_3
78T 2W 84T 1W
08/16/1999 01:28 1 0.15 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 01:38 1 0.24 0.01 Bay_3
78T 1W 85T 2W
08/16/1999 01:48 1 0.22 0.01 Bay_3
79T 2W 85T 2W
08/16/1999 01:58 1 0.29 0.01 Bay_3
78T 2W 84T 2W
08/16/1999 02:08 1 0.23 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 02:18 1 0.20 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 02:28 1 0.22 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 02:38 1 0.20 0.01 Bay_3
78T 1W 85T 1W
08/16/1999 02:48 1 0.20 0.01 Bay_3
78T 2W 84T 2W
08/16/1999 02:58 1 0.23 0.01 Bay_3
79T 2W 84T 1W
08/16/1999 03:08 1 0.25 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 03:18 1 0.22 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 03:28 1 0.23 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 03:38 1 0.22 0.01 Bay_3
79T 1W 85T 2W
08/16/1999 03:48 1 0.21 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 03:58 1 0.21 0.01 Bay_3
78T 2W 84T 2W
08/16/1999 04:08 1 0.22 0.01 Bay_3
78T 2W 84T 2W
08/16/1999 04:18 1 0.17 0.01 Bay_3
78T 2W 84T 2W
08/16/1999 04:28 1 0.21 0.00 Bay_3
79T 2W
08/16/1999 04:38 1 0.23 0.01 Bay_3
79T 2W 84T 2W
08/16/1999 04:48 1 0.20 0.01 Bay_3
79T 2W 85T 2W
08/16/1999 04:58 1 0.28 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 05:08 1 0.20 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 05:18 1 0.21 0.01 Bay_3
78T 2W 85T 2W

```
08/16/1999 05:28  1   0.27    0.01  Bay_3
          79T 2W  84T 2W
08/16/1999 05:38  1   0.22    0.01  Bay_3
          79T 2W  85T 2W
08/16/1999 05:48  1   0.27    0.01  Bay_3
          78T 1W  84T 1W
08/16/1999 05:58  1   0.16    0.01  Bay_3
          78T 2W  85T 2W
08/16/1999 06:08  1   0.26    0.01  Bay_3
          78T 2W  84T 1W
08/16/1999 06:18  1   0.24    0.01  Bay_3
          78T 2W  85T 1W
08/16/1999 06:28  1   0.23    0.01  Bay_3
          78T 2W  85T 2W
08/16/1999 06:38  1   0.00    0.01  Bay_3
                  85T 2W
08/16/1999 06:48  1   0.24    0.01  Bay_3
          78T 2W  85T 1W
08/16/1999 06:58  1   0.24    0.01  Bay_3
          78T 2W  85T 2W
08/16/1999 07:08  1   0.17    0.01  Bay_3
          78T 2W  84T 1W
08/16/1999 07:18  1   0.21    0.01  Bay_3
          78T 2W  84T 1W
08/16/1999 07:28  1   0.24    0.00  Bay_3
          78T 2W
08/16/1999 07:38  1   0.22    0.01  Bay_3
          78T 2W  84T 1W
08/16/1999 07:48  1   0.26    0.01  Bay_3
          78T 2W  84T 1W
08/16/1999 07:58  1   0.00    0.00  Bay_3
08/16/1999 08:08  1   0.25    0.01  Bay_3
          78T 2W  88T 2W
08/16/1999 08:18  1   1.07    0.86  Bay_3                                    CHE
          78T 2W  85T 2W
08/16/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:19

S/N 1356            ALARM                                STATION    3

SOFTWARE:                                              Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 36        ± 15
                    Inlet                s 50        a 52        ± 15
                    FPD Block            s150        a151        ± 15
                    FPD Flame            s225        a208        ± 99
                    Column                           a 78
                    Column, low          s 40        a 41        ± 15
                    Column, high         s180        a179        ± 15
                    Column rate, °C/min  s150        a149        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 50
                    PCT heater, low      s 50        a 51        ± 20
                    PCT heater, high     s240        a241        ± 30

PRESSURES, psi:     Air                  s 35        a 36        ±  5
                    Helium               s 40       a40.4        ±  5
                    Hydrogen             s 35        a 35        ±  5

SAMPLE:             Flow rate, ccm      s 450       a 458        ± 99
                    Average flow rate               a 460
                    Volume, L                      a3.68

TIMES, sec:         Purge          b  0   e120   Sample   b120    e600
                    Bench          b  5   e 50   Column   b 30    e100
```

VOLTAGE, VDC: FPD photomultiplier s1030 a1040 ± 50

ELECTROMETER: FPD signal, nA 47 FPD zero, nA 269

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

DC RB

VX	1 FPD	1.07C	102H*	214A	78.4T	1.8W	b 76	e 82
GB	1 FPD	0.86C	2067H*	3880A	84.5T	1.5W	b 82	e 88

CALIBRATION DATA:

VX 1 @	1.00 FPD	96H*	171A	78.5T	1.5W	08/13/1999	17:39
GB 1 @	1.00 FPD	2407H*	4394A	84.6T	1.5W	08/13/1999	17:39

SAMPLING SEQUENCE:

A01 Bay_3

ELAPSED TIME ********** 167 sec

Monitor Serial Number 1356 Date 08/16/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/16/1999	08:28	1	0.37	0.04	Bay_3	
	78T 2W	85T 2W				
08/16/1999	08:38	1	0.30	0.01	Bay_3	
	78T 2W	84T 1W				
08/16/1999	08:48	1	0.22	0.01	Bay_3	
	79T 2W	85T 2W				
MINI-NET COMMUNICATIONS OFFLINE						
08/16/1999	08:58	1	0.24	0.01	Bay_3	
	78T 1W	85T 2W				
08/16/1999	09:08	1	0.27	0.00	Bay_3	
	78T 2W					
08/16/1999	09:18	1	0.21	0.01	Bay_3	
	78T 2W	85T 1W				
08/16/1999	09:28	1	0.24	0.01	Bay_3	
	78T 2W	85T 2W				
08/16/1999	09:38	1	0.30	0.01	Bay_3	
	78T 2W	85T 2W				
08/16/1999	09:48	1	0.30	0.01	Bay_3	
	79T 2W	85T 1W				
08/16/1999	09:58	1	0.25	0.01	Bay_3	
	78T 2W	84T 2W				
08/16/1999	10:08	1	0.31	0.01	Bay_3	
	78T 2W	85T 2W				
08/16/1999	10:18	1	0.26	0.01	Bay_3	
	78T 2W	84T 1W				
08/16/1999	10:28	1	0.28	0.01	Bay_3	
	78T 2W	85T 2W				
08/16/1999	10:38	1	0.28	0.00	Bay_3	
	78T 2W					
08/16/1999	10:48	1	0.30	0.01	Bay_3	
	78T 2W	85T 1W				
08/16/1999	10:58	1	0.36	0.01	Bay_3	
	78T 2W	84T 2W				
08/16/1999	11:08	1	0.31	0.02	Bay_3	
	78T 2W	84T 2W				
08/16/1999	11:18	1	0.24	0.00	Bay_3	
	79T 1W					

78T 2W 84T 1W
08/16/1999 11:48 1 0.39 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 11:58 1 0.34 0.01 Bay_3
79T 2W 85T 2W
08/16/1999 12:08 1 0.33 0.02 Bay_3
78T 1W 84T 1W
08/16/1999 12:18 1 0.36 0.02 Bay_3
79T 2W 85T 2W
08/16/1999 12:28 1 0.34 0.02 Bay_3
78T 2W 85T 2W
MINI-NET COMMUNICATIONS ONLINE
08/16/1999 12:38 1 0.34 0.02 Bay_3
78T 2W 85T 1W
08/16/1999 12:48 1 0.30 0.02 Bay_3
78T 2W 85T 1W
08/16/1999 12:58 1 0.37 0.02 Bay_3
79T 2W 85T 2W
08/16/1999 13:08 1 0.35 0.02 Bay_3
78T 2W 85T 2W
08/16/1999 13:18 1 0.30 0.02 Bay_3
79T 2W 85T 1W

Monitor Serial Number 1356 Date 08/16/1999 Sampling Station 3

Date Time Port VX GB TWAG

08/16/1999 13:28 1 0.31 0.02 Bay_3
78T 2W 85T 1W
08/16/1999 13:38 1 0.33 0.01 Bay_3
78T 2W 84T 1W
08/16/1999 13:48 1 0.38 0.02 Bay_3
78T 2W 84T 2W
08/16/1999 13:58 1 0.38 0.02 Bay_3
79T 1W 84T 2W
08/16/1999 14:08 1 0.40 0.03 Bay_3
79T 2W 85T 2W
08/16/1999 14:18 1 0.30 0.02 Bay_3
78T 2W 85T 1W
08/16/1999 14:28 1 0.32 0.01 Bay_3
78T 2W 84T 1W
08/16/1999 14:38 1 0.36 0.02 Bay_3
78T 1W 85T 2W
08/16/1999 14:48 1 0.38 0.02 Bay_3
78T 2W 85T 1W
08/16/1999 14:58 1 0.30 0.02 Bay_3
78T 2W 84T 2W
08/16/1999 15:08 1 0.35 0.02 Bay_3
78T 2W 85T 1W
08/16/1999 15:18 1 0.41 0.02 Bay_3
79T 2W 85T 2W
08/16/1999 15:28 1 0.40 0.02 Bay_3
79T 1W 85T 1W
08/16/1999 15:38 1 0.30 0.02 Bay_3
78T 2W 85T 1W
08/16/1999 15:48 1 0.28 0.02 Bay_3
79T 2W 85T 1W
08/16/1999 15:58 1 0.33 0.02 Bay_3
78T 1W 84T 1W
08/16/1999 16:08 1 0.35 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 16:18 1 0.37 0.02 Bay_3
78T 2W 84T 1W

08/16/1999 16:38	1	0.32	0.02	Bay_3	
78T 1W	84T 2W				
08/16/1999 16:48	1	0.42	0.02	Bay_3	
78T 2W	84T 2W				
08/16/1999 16:58	1	0.34	0.03	Bay_3	
78T 2W	84T 2W				
08/16/1999 17:08	1	0.27	0.02	Bay_3	
79T 2W	85T 1W				
08/16/1999 17:18	1	0.35	0.02	Bay_3	
78T 2W	84T 2W				
08/16/1999 17:28	1	0.32	0.02	Bay_3	
78T 2W	85T 2W				
08/16/1999 17:38	1	0.39	0.02	Bay_3	
78T 2W	84T 2W				
08/16/1999 17:48	1	0.37	0.03	Bay_3	
78T 2W	84T 2W				
08/16/1999 17:58	1	0.00	0.02	Bay_3	
	85T 2W				
08/16/1999 18:08	1	0.33	0.02	Bay_3	
79T 2W	85T 2W				
08/16/1999 18:18	1	0.36	0.02	Bay_3	
79T 2W	85T 1W				

Monitor Serial Number 1356 Date 08/16/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/16/1999 18:28		1	0.33	0.02	Bay_3	
78T 1W	84T 1W					
08/16/1999 18:38		1	0.26	0.02	Bay_3	
78T 1W	85T 2W					
08/16/1999 18:48		1	0.31	0.00	Bay_3	
78T 2W						
08/16/1999 18:58		1	0.34	0.02	Bay_3	
78T 2W	84T 2W					
08/16/1999 19:08		1	0.40	0.02	Bay_3	
78T 2W	84T 2W					
08/16/1999 19:18		1	0.33	0.02	Bay_3	
78T 2W	84T 2W					
08/16/1999 19:28		1	0.26	0.02	Bay_3	
79T 1W	85T 1W					
08/16/1999 19:38		1	0.28	0.02	Bay_3	
78T 2W	84T 1W					
08/16/1999 19:48		1	0.35	0.02	Bay_3	
78T 2W	84T 2W					
08/16/1999 19:58		1	0.27	0.01	Bay_3	
78T 2W	85T 1W					
08/16/1999 20:08		1	0.32	0.02	Bay_3	
78T 2W	84T 2W					
08/16/1999 20:18		1	0.24	0.01	Bay_3	
78T 2W	84T 2W					
08/16/1999 20:28		1	0.00	0.00	Bay_3	
08/16/1999 20:38		1	0.25	0.02	Bay_3	
79T 2W	85T 1W					
08/16/1999 20:48		1	0.34	0.02	Bay_3	
78T 2W	84T 2W					
08/16/1999 20:58		1	0.25	0.02	Bay_3	
78T 2W	85T 1W					
08/16/1999 21:08		1	0.28	0.01	Bay_3	
78T 2W	85T 2W					
08/16/1999 21:18		1	0.22	0.01	Bay_3	
78T 2W	85T 2W					

85T 2W
08/16/1999 21:48 1 0.22 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 21:58 1 0.30 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 22:08 1 0.23 0.01 Bay_3
79T 2W 85T 1W
08/16/1999 22:18 1 0.00 0.01 Bay_3
84T 2W
08/16/1999 22:28 1 0.27 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 22:38 1 0.18 0.01 Bay_3
78T 1W 84T 2W
08/16/1999 22:48 1 0.27 0.01 Bay_3
78T 2W 85T 1W
08/16/1999 22:58 1 0.20 0.01 Bay_3
79T 2W 85T 2W
08/16/1999 23:08 1 0.22 0.01 Bay_3
78T 2W 85T 2W
08/16/1999 23:18 1 0.27 0.01 Bay_3
78T 1W 85T 2W

Monitor Serial Number 1356 Date 08/16/1999 Sampling Station 3

Date Time Port VX GB TWAG

08/16/1999 23:28 1 0.20 0.01 Bay_3
79T 1W 85T 1W
08/16/1999 23:38 1 0.23 0.01 Bay_3
79T 2W 85T 2W
08/16/1999 23:48 1 0.24 0.01 Bay_3
78T 2W 84T 2W
08/16/1999 23:58 1 0.22 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 00:08 1 0.25 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 00:18 1 0.27 0.01 Bay_3
79T 2W 84T 1W
08/17/1999 00:28 1 0.15 0.01 Bay_3
79T 1W 85T 1W
08/17/1999 00:38 1 0.22 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 00:48 1 0.26 0.01 Bay_3
78T 2W 85T 1W
08/17/1999 00:58 1 0.25 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 01:08 1 0.20 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 01:18 1 0.26 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 01:28 1 0.23 0.01 Bay_3
78T 2W 85T 1W
08/17/1999 01:38 1 0.26 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 01:48 1 0.21 0.01 Bay_3
78T 1W 84T 1W
08/17/1999 01:58 1 0.25 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 02:08 1 0.16 0.01 Bay_3
78T 1W 85T 1W
08/17/1999 02:18 1 0.30 0.00 Bay_3
79T 2W
08/17/1999 02:28 1 0.24 0.01 Bay_3

85T 2W
08/17/1999 02:48 1 0.26 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 02:58 1 0.28 0.01 Bay_3
79T 2W 85T 2W
08/17/1999 03:08 1 0.24 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 03:18 1 0.25 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 03:28 1 0.25 0.01 Bay_3
78T 2W 84T 1W
08/17/1999 03:38 1 0.22 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 03:48 1 0.19 0.01 Bay_3
78T 2W 85T 1W
08/17/1999 03:58 1 0.23 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 04:08 1 0.25 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 04:18 1 0.16 0.01 Bay_3
78T 1W 85T 2W

Monitor Serial Number 1356 Date 08/17/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/17/1999	04:28	1	0.16	0.01	Bay_3	
78T 1W	84T 1W					
08/17/1999	04:38	1	0.23	0.01	Bay_3	
79T 2W	85T 2W					
08/17/1999	04:48	1	0.24	0.01	Bay_3	
79T 2W	85T 2W					
08/17/1999	04:58	1	0.16	0.01	Bay_3	
78T 2W	84T 1W					
08/17/1999	05:08	1	0.20	0.01	Bay_3	
79T 2W	85T 1W					
08/17/1999	05:18	1	0.24	0.01	Bay_3	
78T 2W	85T 2W					
08/17/1999	05:28	1	0.17	0.01	Bay_3	
79T 2W	85T 2W					
08/17/1999	05:38	1	0.21	0.01	Bay_3	
78T 2W	85T 1W					
08/17/1999	05:48	1	0.00	0.01	Bay_3	
85T 2W						
08/17/1999	05:58	1	0.22	0.01	Bay_3	
79T 2W	84T 2W					
08/17/1999	06:08	1	0.16	0.01	Bay_3	
78T 1W	85T 2W					
08/17/1999	06:18	1	0.21	0.01	Bay_3	
79T 2W	85T 1W					
08/17/1999	06:28	1	0.00	0.01	Bay_3	
84T 1W						
08/17/1999	06:38	1	0.26	0.01	Bay_3	
78T 2W	84T 1W					
08/17/1999	06:48	1	0.24	0.01	Bay_3	
79T 1W	84T 1W					
08/17/1999	06:58	1	0.25	0.00	Bay_3	
79T 2W						
08/17/1999	07:08	1	0.29	0.01	Bay_3	
78T 2W	84T 1W					
08/17/1999	07:18	1	0.19	0.01	Bay_3	
78T 1W	84T 2W					

08/17/1999 07:38 1 0.22 0.01 Bay_3
78T 2W 85T 1W
08/17/1999 07:48 1 0.18 0.01 Bay_3
79T 2W 85T 2W
08/17/1999 07:58 1 0.20 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 08:08 1 0.00 0.00 Bay_3
08/17/1999 08:18 1 0.00 0.00 Bay_3
08/17/1999 08:28 1 0.97 0.79 Bay_3 CHE
79T 2W 85T 2W
08/17/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:30

S/N 1356 STATION 3

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 35	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a153	± 15
	FPD Flame	s225	a208	± 99
	Column		a 47	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a148	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s240	a241	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.3	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 458	± 99
	Average flow rate		a 453	
	Volume, L		a3.63	

DC
RB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1030 a1040 ± 50

ELECTROMETER: FPD signal, nA 58 FPD zero, nA 245

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.97C	93H*	183A	78.8T	1.7W	b 76	e 82
GB	1 FPD	0.79C	1913H*	3657A	85.0T	1.6W	b 82	e 88

CALIBRATION DATA:

VX 1 @	1.00 FPD	96H*	171A	78.5T	1.5W	08/13/1999	17:39
GB 1 @	1.00 FPD	2407H*	4394A	84.6T	1.5W	08/13/1999	17:39

SAMPLING SEQUENCE:

A01 Bay_3

ELAPSED TIME ********** 251 sec

08/17/1999 08:38	1	0.46	0.04	Bay_3	
79T 2W	85T 2W				
08/17/1999 08:48	1	0.36	0.02	Bay_3	
79T 2W	85T 2W				
08/17/1999 08:58	1	0.26	0.01	Bay_3	
79T 1W	85T 2W				
08/17/1999 09:08	1	0.19	0.01	Bay_3	
78T 2W	84T 2W				
08/17/1999 09:18	1	0.23	0.01	Bay_3	
79T 2W	85T 2W				
08/17/1999 09:28	1	0.22	0.01	Bay_3	
79T 1W	85T 2W				
08/17/1999 09:38	1	0.25	0.01	Bay_3	
78T 2W	84T 2W				
08/17/1999 09:48	1	0.00	0.01	Bay_3	
85T 2W					
08/17/1999 09:58	1	0.30	0.01	Bay_3	
79T 2W	85T 1W				
08/17/1999 10:08	1	0.29	0.01	Bay_3	
79T 2W	85T 2W				
08/17/1999 10:18	1	0.31	0.01	Bay_3	
78T 2W	85T 2W				
08/17/1999 10:28	1	0.34	0.01	Bay_3	
79T 2W	85T 1W				
08/17/1999 10:38	1	0.18	0.01	Bay_3	
79T 1W	85T 2W				
08/17/1999 10:48	1	0.27	0.01	Bay_3	
78T 1W	85T 1W				
08/17/1999 10:58	1	0.27	0.01	Bay_3	
79T 2W	84T 2W				
08/17/1999 11:08	1	0.34	0.01	Bay_3	
79T 1W	85T 1W				
08/17/1999 11:18	1	0.35	0.01	Bay_3	
79T 2W	85T 1W				
08/17/1999 11:28	1	0.32	0.01	Bay_3	
79T 2W	85T 1W				
08/17/1999 11:38	1	0.30	0.01	Bay_3	
78T 2W	84T 1W				
08/17/1999 11:48	1	0.29	0.01	Bay_3	
79T 2W	85T 2W				
08/17/1999 11:58	1	0.38	0.01	Bay_3	
79T 1W	85T 1W				
08/17/1999 12:08	1	0.31	0.02	Bay_3	
78T 2W	85T 2W				
08/17/1999 12:18	1	0.29	0.01	Bay_3	
79T 2W	85T 2W				
08/17/1999 12:28	1	0.37	0.01	Bay_3	
79T 2W	85T 1W				
08/17/1999 12:38	1	0.30	0.01	Bay_3	
79T 2W	85T 2W				
08/17/1999 12:48	1	0.25	0.01	Bay_3	
78T 2W	85T 1W				
08/17/1999 12:58	1	0.34	0.01	Bay_3	
78T 2W	84T 1W				
08/17/1999 13:08	1	0.35	0.01	Bay_3	
79T 2W	85T 2W				
08/17/1999 13:18	1	0.31	0.01	Bay_3	
79T 2W	85T 2W				
08/17/1999 13:28	1	0.41	0.01	Bay_3	
78T 2W	84T 1W				

08/17/1999 13:38 1 0.35 0.01 Bay_3
78T 2W 85T 1W
08/17/1999 13:48 1 0.38 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 13:58 1 0.35 0.01 Bay_3
78T 1W 85T 1W
08/17/1999 14:08 1 0.34 0.01 Bay_3
79T 2W 85T 2W
08/17/1999 14:18 1 0.29 0.01 Bay_3
78T 2W 85T 1W
08/17/1999 14:28 1 0.29 0.01 Bay_3
79T 2W 85T 2W
08/17/1999 14:38 1 0.27 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 14:48 1 0.36 0.01 Bay_3
78T 2W 84T 1W
08/17/1999 14:58 1 0.37 0.01 Bay_3
79T 2W 85T 2W
08/17/1999 15:08 1 0.31 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 15:18 1 0.38 0.02 Bay_3
79T 2W 85T 2W
08/17/1999 15:28 1 0.31 0.01 Bay_3
78T 2W 84T 1W
08/17/1999 15:38 1 0.33 0.01 Bay_3
78T 2W 85T 2W
08/17/1999 15:48 1 0.35 0.02 Bay_3
79T 2W 85T 2W
08/17/1999 15:58 1 0.34 0.01 Bay_3
79T 1W 85T 2W
08/17/1999 16:08 1 0.30 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 16:18 1 0.34 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 16:28 1 0.36 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 16:38 1 0.30 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 16:48 1 0.29 0.01 Bay_3
78T 2W 84T 1W
08/17/1999 16:58 1 0.38 0.01 Bay_3
78T 2W 84T 2W
08/17/1999 17:08 1 0.23 0.01 Bay_3
79T 1W 85T 2W
08/17/1999 17:18 1 0.52 0.02 Bay_3
78T 2W 85T 1W
08/17/1999 17:28 1 0.36 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 17:38 1 0.29 0.01 Bay_3
79T 2W 85T 2W
08/17/1999 17:48 1 0.34 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 17:58 1 0.41 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 18:08 1 0.33 0.01 Bay_3
79T 2W 85T 2W
08/17/1999 18:18 1 0.23 0.01 Bay_3
79T 1W 85T 1W
08/17/1999 18:28 1 0.27 0.01 Bay_3
79T 1W 85T 2W

08/17/1999 18:38	1	0.30	0.01	Bay_3
78T 2W	85T 2W			
08/17/1999 18:48	1	0.38	0.01	Bay_3
78T 2W	85T 1W			
08/17/1999 18:58	1	0.37	0.01	Bay_3
79T 2W	85T 1W			
08/17/1999 19:08	1	0.26	0.01	Bay_3
79T 2W	85T 1W			
08/17/1999 19:18	1	0.33	0.01	Bay_3
79T 2W	85T 2W			
08/17/1999 19:28	1	0.25	0.01	Bay_3
79T 2W	85T 2W			
08/17/1999 19:38	1	0.26	0.01	Bay_3
79T 2W	85T 1W			
08/17/1999 19:48	1	0.23	0.01	Bay_3
78T 1W	84T 1W			
08/17/1999 19:58	1	0.29	0.01	Bay_3
78T 2W	85T 1W			
08/17/1999 20:08	1	0.25	0.01	Bay_3
78T 2W	85T 2W			
08/17/1999 20:18	1	0.28	0.01	Bay_3
78T 2W	85T 2W			
08/17/1999 20:28	1	0.30	0.00	Bay_3
78T 1W				
08/17/1999 20:38	1	0.00	0.01	Bay_3
	85T 2W			
08/17/1999 20:48	1	0.25	0.00	Bay_3
79T 2W				
08/17/1999 20:58	1	0.19	0.01	Bay_3
78T 2W	85T 1W			
08/17/1999 21:08	1	0.26	0.01	Bay_3
79T 2W	85T 2W			
08/17/1999 21:18	1	0.24	0.01	Bay_3
78T 2W	84T 1W			
08/17/1999 21:28	1	0.23	0.01	Bay_3
79T 2W	85T 2W			
08/17/1999 21:38	1	0.21	0.00	Bay_3
79T 1W				
08/17/1999 21:48	1	0.23	0.01	Bay_3
79T 2W	85T 1W			
08/17/1999 21:58	1	0.22	0.01	Bay_3
79T 2W	85T 2W			
08/17/1999 22:08	1	0.18	0.00	Bay_3
79T 2W				
08/17/1999 22:18	1	0.20	0.00	Bay_3
79T 2W				
08/17/1999 22:28	1	0.21	0.01	Bay_3
78T 2W	84T 2W			
08/17/1999 22:38	1	0.26	0.00	Bay_3
78T 2W				
08/17/1999 22:48	1	0.17	0.00	Bay_3
79T 2W				
08/17/1999 22:58	1	0.25	0.01	Bay_3
79T 2W	85T 1W			
08/17/1999 23:08	1	0.28	0.01	Bay_3
79T 2W	85T 1W			
08/17/1999 23:18	1	0.17	0.01	Bay_3
78T 1W	84T 2W			
08/17/1999 23:28	1	0.19	0.00	Bay_3
79T 2W				

08/17/1999 23:38 1 0.21 0.01 Bay_3
79T 2W 85T 1W
08/17/1999 23:48 1 0.23 0.00 Bay_3
79T 2W
08/17/1999 23:58 1 0.18 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 00:08 1 0.23 0.01 Bay_3
78T 1W 85T 1W
08/18/1999 00:18 1 0.26 0.01 Bay_3
78T 2W 85T 2W
08/18/1999 00:28 1 0.21 0.01 Bay_3
79T 1W 85T 1W
08/18/1999 00:38 1 0.18 0.01 Bay_3
78T 2W 84T 1W
08/18/1999 00:48 1 0.24 0.01 Bay_3
78T 2W 85T 2W
08/18/1999 00:58 1 0.26 0.01 Bay_3
79T 1W 85T 2W
08/18/1999 01:08 1 0.13 0.00 Bay_3
79T 1W
08/18/1999 01:18 1 0.17 0.00 Bay_3
79T 2W
08/18/1999 01:28 1 0.21 0.01 Bay_3
79T 2W 85T 2W
08/18/1999 01:38 1 0.26 0.00 Bay_3
79T 2W
08/18/1999 01:48 1 0.17 0.01 Bay_3
79T 2W 85T 2W
08/18/1999 01:58 1 0.25 0.01 Bay_3
79T 2W 85T 2W
08/18/1999 02:08 1 0.26 0.01 Bay_3
78T 1W 84T 2W
08/18/1999 02:18 1 0.19 0.00 Bay_3
79T 1W
08/18/1999 02:28 1 0.20 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 02:38 1 0.21 0.01 Bay_3
79T 1W 85T 2W
08/18/1999 02:48 1 0.24 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 02:58 1 0.23 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 03:08 1 0.19 0.00 Bay_3
79T 1W
08/18/1999 03:18 1 0.20 0.00 Bay_3
79T 2W
08/18/1999 03:28 1 0.22 0.00 Bay_3
78T 2W
08/18/1999 03:38 1 0.23 0.01 Bay_3
79T 2W 85T 2W
08/18/1999 03:48 1 0.26 0.01 Bay_3
78T 2W 85T 2W
08/18/1999 03:58 1 0.19 0.01 Bay_3
78T 2W 84T 2W
08/18/1999 04:08 1 0.22 0.00 Bay_3
79T 2W
08/18/1999 04:18 1 0.22 0.01 Bay_3
78T 2W 85T 1W
08/18/1999 04:28 1 0.20 0.00 Bay_3
79T 2W

```
08/18/1999 04:38  1   0.22    0.01  Bay_3
          78T 2W  84T 2W
08/18/1999 04:48  1   0.23    0.00  Bay_3
          79T 1W
08/18/1999 04:58  1   0.18    0.01  Bay_3
          79T 2W  86T 2W
08/18/1999 05:08  1   0.27    0.01  Bay_3
          78T 2W  84T 1W
08/18/1999 05:18  1   0.23    0.00  Bay_3
          79T 2W
08/18/1999 05:28  1   0.24    0.00  Bay_3
          79T 2W
08/18/1999 05:38  1   0.22    0.01  Bay_3
          79T 2W  85T 2W
08/18/1999 05:48  1   0.26    0.01  Bay_3
          79T 2W  85T 2W
08/18/1999 05:58  1   0.31    0.01  Bay_3
          79T 2W  85T 1W
08/18/1999 06:08  1   0.19    0.01  Bay_3
          79T 2W  85T 2W
08/18/1999 06:18  1   0.00    0.01  Bay_3
                  84T 1W
08/18/1999 06:28  1   0.22    0.01  Bay_3
          79T 2W  85T 1W
08/18/1999 06:38  1   0.26    0.00  Bay_3
          79T 1W
08/18/1999 06:48  1   0.30    0.01  Bay_3
          79T 2W  85T 2W
08/18/1999 06:58  1   0.24    0.01  Bay_3
          79T 1W  85T 2W
08/18/1999 07:08  1   0.33    0.01  Bay_3
          79T 1W  85T 2W
08/18/1999 07:18  1   0.23    0.01  Bay_3
          79T 1W  85T 1W
08/18/1999 07:28  1   0.22    0.00  Bay_3
          79T 1W
08/18/1999 07:38  1   0.00    0.00  Bay_3
08/18/1999 07:48  1   0.00    0.00  Bay_3
08/18/1999 07:58  1   0.11    0.00  Bay_3
          78T 1W
08/18/1999 08:08  1   0.08    0.00  Bay_3
          79T 2W
08/18/1999 08:18  1   0.00    0.00  Bay_3
08/18/1999 08:28  1   0.09    0.00  Bay_3
          77T 1W
08/18/1999 08:38  1   0.11    0.00  Bay_3
          80T 2W
08/18/1999 08:48  1   1.08    0.87  Bay_3                                  CAL
          79T 2W  85T 2W
CALIBRATION  VX      GB
AVERAGE    103H   2094H
08/18/1999 08:58  1   1.89    2.11  Bay_3                                  CHE
          79T 2W  85T 2W
08/18/1999 09:08  1   1.09    1.12  Bay_3                                  CHE
          79T 2W  85T 2W
08/18/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:09

S/N 1356            ALARM                                STATION    3

SOFTWARE:                                              Version 02181999

TEMPERATURES, °C:  Ambient              s 40        a 34        ± 15
                   Inlet                s 50        a 51        ± 15
```

	Column		a 75	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 56	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s240	a241	± 30
PRESSURES, psi:	Air	s 35	a 36	± 5
	Helium	s 40	a40.4	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 456	± 99
	Average flow rate		a 449	
	Volume, L		a3.59	

DC
RCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1030 a1045 ± 50

ELECTROMETER: FPD signal, nA 59 FPD zero, nA 239

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.09C	112H*	214A	78.7T	1.6W	b 76	e 82
GB	1 FPD	1.12C	2341H*	4374A	84.9T	1.5W	b 82	e 88

CALIBRATION DATA:

VX 1 @	1.00 FPD	103H*	204A	78.9T	1.5W	08/18/1999	08:48
GB 1 @	1.00 FPD	2094H*	3893A	84.9T	1.6W	08/18/1999	08:48

SAMPLING SEQUENCE:

A01 Bay_3

ELAPSED TIME ********** 169 sec

Monitor Serial Number 1356 Date 08/18/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/18/1999	09:18	1	0.54	0.07	Bay_3	
	79T 2W	85T 2W				
08/18/1999	09:28	1	0.34	0.03	Bay_3	
	78T 2W	84T 2W				
08/18/1999	09:38	1	0.28	0.02	Bay_3	
	79T 2W	85T 2W				
08/18/1999	09:48	1	0.20	0.02	Bay_3	
	79T 2W	85T 2W				
08/18/1999	09:58	1	0.25	0.01	Bay_3	
	79T 2W	85T 1W				
08/18/1999	10:08	1	0.24	0.02	Bay_3	
	78T 2W	85T 1W				
08/18/1999	10:18	1	0.33	0.02	Bay_3	
	78T 2W	84T 2W				
08/18/1999	10:28	1	0.29	0.01	Bay_3	
	79T 1W	85T 1W				
08/18/1999	10:38	1	0.35	0.02	Bay_3	
	79T 2W	85T 1W				

08/18/1999 10:58 1 0.23 0.02 Bay_3
79T 1W 85T 1W
08/18/1999 11:08 1 0.28 0.02 Bay_3
79T 2W 85T 1W
08/18/1999 11:18 1 0.32 0.02 Bay_3
78T 2W 84T 2W
08/18/1999 11:28 1 0.33 0.01 Bay_3
78T 2W 85T 2W
08/18/1999 11:38 1 0.29 0.00 Bay_3
79T 2W
08/18/1999 11:48 1 0.37 0.02 Bay_3
79T 2W 85T 1W
08/18/1999 11:58 1 0.31 0.02 Bay_3
79T 2W 85T 2W
08/18/1999 12:08 1 0.27 0.01 Bay_3
78T 2W 85T 1W
08/18/1999 12:18 1 0.33 0.01 Bay_3
78T 2W 84T 2W
08/18/1999 12:28 1 0.32 0.00 Bay_3
79T 1W
08/18/1999 12:38 1 0.32 0.02 Bay_3
79T 2W 85T 2W
08/18/1999 12:48 1 0.39 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 12:58 1 0.30 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 13:08 1 0.35 0.01 Bay_3
79T 2W 85T 2W
08/18/1999 13:18 1 0.32 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 13:28 1 0.35 0.01 Bay_3
78T 2W 84T 1W
08/18/1999 13:38 1 0.24 0.01 Bay_3
79T 1W 85T 1W
08/18/1999 13:48 1 0.32 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 13:58 1 0.36 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 14:08 1 0.28 0.01 Bay_3
79T 2W 85T 1W

Monitor Serial Number 1356 Date 08/18/1999 Sampling Station 3

Date Time Port VX GB TWAG

08/18/1999 14:18 1 0.32 0.01 Bay_3
78T 2W 84T 1W
08/18/1999 14:28 1 0.34 0.01 Bay_3
79T 2W 85T 2W
08/18/1999 14:38 1 0.30 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 14:48 1 0.31 0.02 Bay_3
79T 2W 84T 2W
08/18/1999 14:58 1 0.41 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 15:08 1 0.31 0.01 Bay_3
79T 2W 85T 1W
08/18/1999 15:18 1 0.33 0.01 Bay_3
78T 2W 85T 2W
08/18/1999 15:28 1 0.36 0.02 Bay_3
78T 2W 85T 1W
08/18/1999 15:38 1 0.28 0.01 Bay_3

08/18/1999 15:58	1	0.29	0.01	Bay_3	
78T 2W	85T 1W				
08/18/1999 16:08	1	0.36	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 16:18	1	0.39	0.01	Bay_3	
78T 2W	84T 1W				
08/18/1999 16:28	1	0.34	0.01	Bay_3	
78T 2W	85T 1W				
08/18/1999 16:38	1	0.33	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 16:48	1	0.42	0.01	Bay_3	
78T 1W	85T 1W				
08/18/1999 16:58	1	0.38	0.01	Bay_3	
78T 2W	85T 2W				
08/18/1999 17:08	1	0.36	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 17:18	1	0.33	0.00	Bay_3	
79T 1W					
08/18/1999 17:28	1	0.32	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 17:38	1	0.32	0.01	Bay_3	
79T 2W	85T 2W				
08/18/1999 17:48	1	0.31	0.01	Bay_3	
79T 2W	85T 2W				
08/18/1999 17:58	1	0.32	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 18:08	1	0.31	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 18:18	1	0.34	0.01	Bay_3	
79T 2W	85T 2W				
08/18/1999 18:28	1	0.33	0.01	Bay_3	
79T 2W	85T 2W				
08/18/1999 18:38	1	0.39	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 18:48	1	0.31	0.01	Bay_3	
79T 2W	85T 2W				
08/18/1999 18:58	1	0.31	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 19:08	1	0.41	0.01	Bay_3	
79T 2W	85T 2W				

Monitor Serial Number 1356 Date 08/18/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/18/1999 19:18		1	0.35	0.01	Bay_3	
79T 2W	85T 1W					
08/18/1999 19:28		1	0.31	0.01	Bay_3	
78T 2W	85T 1W					
08/18/1999 19:38		1	0.31	0.01	Bay_3	
79T 2W	85T 1W					
08/18/1999 19:48		1	0.26	0.01	Bay_3	
78T 1W	85T 1W					
08/18/1999 19:58		1	0.29	0.01	Bay_3	
78T 2W	85T 1W					
08/18/1999 20:08		1	0.28	0.01	Bay_3	
79T 2W	85T 1W					
08/18/1999 20:18		1	0.32	0.01	Bay_3	
78T 2W	85T 1W					
08/18/1999 20:28		1	0.23	0.01	Bay_3	
78T 2W	84T 2W					
08/18/1999 20:38		1	0.30	0.00	Bay_3	

08/18/1999 20:58	1	0.25	0.01	Bay_3	
79T 1W	85T 2W				
08/18/1999 21:08	1	0.24	0.01	Bay_3	
78T 2W	84T 2W				
08/18/1999 21:18	1	0.27	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 21:28	1	0.29	0.00	Bay_3	
79T 2W					
08/18/1999 21:38	1	0.25	0.01	Bay_3	
79T 2W	85T 2W				
08/18/1999 21:48	1	0.27	0.01	Bay_3	
79T 2W	85T 2W				
08/18/1999 21:58	1	0.26	0.01	Bay_3	
79T 2W	86T 1W				
08/18/1999 22:08	1	0.25	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 22:18	1	0.22	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 22:28	1	0.27	0.01	Bay_3	
78T 1W	84T 1W				
08/18/1999 22:38	1	0.27	0.00	Bay_3	
79T 2W					
08/18/1999 22:48	1	0.21	0.01	Bay_3	
79T 1W	86T 1W				
08/18/1999 22:58	1	0.26	0.01	Bay_3	
79T 2W	84T 1W				
08/18/1999 23:08	1	0.27	0.01	Bay_3	
78T 2W	85T 2W				
08/18/1999 23:18	1	0.25	0.00	Bay_3	
79T 1W					
08/18/1999 23:28	1	0.23	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 23:38	1	0.29	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 23:48	1	0.20	0.01	Bay_3	
79T 2W	85T 1W				
08/18/1999 23:58	1	0.30	0.01	Bay_3	
78T 2W	84T 2W				
08/19/1999 00:08	1	0.21	0.01	Bay_3	
79T 1W	85T 1W				

Monitor Serial Number 1356 Date 08/19/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/19/1999 00:18		1	0.22	0.00	Bay_3	
79T 2W						
08/19/1999 00:28		1	0.26	0.01	Bay_3	
79T 2W	85T 2W					
08/19/1999 00:38		1	0.00	0.01	Bay_3	
	85T 2W					
08/19/1999 00:48		1	0.23	0.01	Bay_3	
78T 2W	85T 1W					
08/19/1999 00:58		1	0.24	0.00	Bay_3	
78T 2W						
08/19/1999 01:08		1	0.27	0.01	Bay_3	
78T 2W	84T 2W					
08/19/1999 01:18		1	0.28	0.01	Bay_3	
79T 2W	85T 2W					
08/19/1999 01:28		1	0.26	0.00	Bay_3	
79T 2W						
08/19/1999 01:38		1	0.20	0.01	Bay_3	

85T 2W

08/19/1999 01:58 1 0.23 0.01 Bay_3
79T 2W 85T 2W
08/19/1999 02:08 1 0.20 0.01 Bay_3
79T 2W 85T 1W
08/19/1999 02:18 1 0.22 0.01 Bay_3
78T 2W 85T 1W
08/19/1999 02:28 1 0.22 0.01 Bay_3
79T 2W 85T 2W
08/19/1999 02:38 1 0.20 0.00 Bay_3
78T 2W
08/19/1999 02:48 1 0.20 0.01 Bay_3
79T 2W 85T 1W
08/19/1999 02:58 1 0.21 0.01 Bay_3
79T 2W 85T 1W
08/19/1999 03:08 1 0.22 0.00 Bay_3
78T 1W
08/19/1999 03:18 1 0.21 0.00 Bay_3
79T 2W
08/19/1999 03:28 1 0.25 0.01 Bay_3
79T 2W 85T 1W
08/19/1999 03:38 1 0.00 0.01 Bay_3
85T 1W
08/19/1999 03:48 1 0.24 0.01 Bay_3
78T 2W 84T 1W
08/19/1999 03:58 1 0.21 0.00 Bay_3
79T 2W
08/19/1999 04:08 1 0.20 0.00 Bay_3
79T 2W
08/19/1999 04:18 1 0.22 0.01 Bay_3
79T 2W 84T 1W
08/19/1999 04:28 1 0.16 0.01 Bay_3
79T 1W 85T 2W
08/19/1999 04:38 1 0.22 0.00 Bay_3
78T 2W
08/19/1999 04:48 1 0.19 0.00 Bay_3
79T 2W
08/19/1999 04:58 1 0.18 0.01 Bay_3
79T 1W 85T 2W
08/19/1999 05:08 1 0.17 0.01 Bay_3
79T 2W 85T 1W

Monitor Serial Number 1356 Date 08/19/1999 Sampling Station 3

Date Time Port VX GB TWAG

08/19/1999 05:18 1 0.25 0.01 Bay_3
79T 2W 85T 1W
08/19/1999 05:28 1 0.20 0.00 Bay_3
79T 2W
08/19/1999 05:38 1 0.21 0.01 Bay_3
79T 1W 85T 1W
08/19/1999 05:48 1 0.26 0.01 Bay_3
79T 2W 85T 2W
08/19/1999 05:58 1 0.24 0.00 Bay_3
79T 2W
08/19/1999 06:08 1 0.16 0.00 Bay_3
79T 1W
08/19/1999 06:18 1 0.25 0.01 Bay_3
79T 2W 85T 1W
08/19/1999 06:28 1 0.20 0.00 Bay_3
79T 2W
08/19/1999 06:38 1 0.18 0.01 Bay_3
79T 2W 85T 2W

```
08/19/1999 06:58  1   0.20    0.01  Bay_3
          79T 2W  85T 2W
08/19/1999 07:08  1   0.00    0.01  Bay_3
                  85T 2W
08/19/1999 07:18  1   0.00    0.01  Bay_3
                  84T 1W
08/19/1999 07:28  1   0.19    0.00  Bay_3
          79T 1W
08/19/1999 07:38  1   0.20    0.00  Bay_3
          79T 1W
08/19/1999 07:48  1   0.00    0.00  Bay_3                                  CHE
08/19/1999 07:58  1   0.93    1.01  Bay_3                                  CHE
          79T 2W  85T 2W
08/19/1999 ********** MINICAMS OPERATING PARAMETERS ********** 07:59

S/N 1356            ALARM                                STATION    3

SOFTWARE:                                             Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 35        ± 15
                    Inlet                s 50        a 52        ± 15
                    FPD Block            s150        a148        ± 15
                    FPD Flame            s225        a208        ± 99
                    Column                           a 84
                    Column, low          s 40        a 41        ± 15
                    Column, high         s180        a179        ± 15
                    Column rate, °C/min  s150        a151        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 50
                    PCT heater, low      s 50        a 51        ± 20
                    PCT heater, high     s240        a241        ± 30

PRESSURES, psi:     Air                  s 35        a 36        ±  5
                    Helium               s 40       a40.3        ±  3
                    Hydrogen             s 35        a 35        ±  5

SAMPLE:             Flow rate, ccm      s 450        a 463       ± 99
                    Average flow rate                a 484
                    Volume, L                       a3.87

TIMES, sec:         Purge         b  0   e120   Sample   b120    e600
                    Desorb        b  5   e 50   Column   b 30    e100
                    Column purge  b100   e100   Inject   b120    e130
                    FPD zero              On

VOLTAGE, VDC:       FPD photomultiplier s1030       a1045       ± 50

ELECTROMETER:       FPD signal, nA         46   FPD  zero, nA     234

CONCENTRATION REPORTS:                   Alarm setpoint, TWAG    1.00

VX   1 FPD   0.93C     95H*    203A   78.9T  1.7W       b 76    e 82
GB   1 FPD   1.01C   2117H*   4008A   85.0T  1.5W       b 82    e 89

CALIBRATION DATA:

VX 1 @  1.00 FPD      103H*    204A   78.9T  1.5W 08/18/1999   08:48
GB 1 @  1.00 FPD     2094H*   3893A   84.9T  1.6W 08/18/1999   08:48

SAMPLING SEQUENCE:

  A01   Bay_3
```

Monitor Serial Number 1356 Date 08/19/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/19/1999	08:08	1	0.32	0.04	Bay_3	
	79T 2W	85T 2W				
08/19/1999	08:18	1	0.26	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	08:28	1	0.20	0.01	Bay_3	
	79T 1W	84T 2W				
08/19/1999	08:38	1	0.20	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	08:48	1	0.24	0.00	Bay_3	
	78T 2W					
08/19/1999	08:58	1	0.30	0.01	Bay_3	
	78T 2W	84T 2W				
08/19/1999	09:08	1	0.22	0.01	Bay_3	
	79T 1W	85T 1W				
08/19/1999	09:18	1	0.16	0.00	Bay_3	
	79T 1W					
08/19/1999	09:28	1	0.23	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	09:38	1	0.24	0.01	Bay_3	
	78T 1W	85T 1W				
08/19/1999	09:48	1	0.23	0.01	Bay_3	
	79T 1W	85T 1W				
08/19/1999	09:58	1	0.29	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	10:08	1	0.25	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	10:18	1	0.23	0.01	Bay_3	
	79T 1W	85T 2W				
08/19/1999	10:28	1	0.28	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	10:38	1	0.22	0.01	Bay_3	
	79T 1W	85T 2W				
08/19/1999	10:48	1	0.31	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	10:58	1	0.34	0.01	Bay_3	
	78T 2W	85T 2W				
08/19/1999	11:08	1	0.00	0.01	Bay_3	
		85T 1W				
08/19/1999	11:18	1	0.27	0.01	Bay_3	
	78T 2W	84T 2W				
08/19/1999	11:28	1	0.40	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	11:38	1	0.38	0.01	Bay_3	
	78T 1W	85T 2W				
08/19/1999	11:48	1	0.35	0.00	Bay_3	
	79T 1W					
08/19/1999	11:58	1	0.28	0.01	Bay_3	
	79T 1W	85T 2W				
08/19/1999	12:08	1	0.35	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	12:18	1	0.36	0.01	Bay_3	
	78T 2W	85T 2W				
08/19/1999	12:28	1	0.33	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	12:38	1	0.32	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	12:48	1	0.33	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	12:58	1	0.33	0.01	Bay_3	
	79T 2W	85T 2W				

Monitor Serial Number 1356 Date 08/19/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/19/1999	13:08	1	0.32	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	13:18	1	0.00	0.01	Bay_3	
		84T 1W				
08/19/1999	13:28	1	0.33	0.00	Bay_3	
	79T 2W					
08/19/1999	13:38	1	0.36	0.01	Bay_3	
	78T 2W	84T 2W				
08/19/1999	13:48	1	0.31	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	13:58	1	0.32	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	14:08	1	0.41	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	14:18	1	0.38	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	14:28	1	0.39	0.01	Bay_3	
	79T 1W	85T 2W				
08/19/1999	14:38	1	0.41	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	14:48	1	0.32	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	14:58	1	0.31	0.01	Bay_3	
	78T 1W	85T 1W				
08/19/1999	15:08	1	0.35	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	15:18	1	0.30	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	15:28	1	0.32	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	15:38	1	0.32	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	15:48	1	0.33	0.01	Bay_3	
	78T 2W	84T 1W				
08/19/1999	15:58	1	0.38	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	16:08	1	0.32	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	16:18	1	0.34	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	16:28	1	0.31	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	16:38	1	0.33	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	16:48	1	0.32	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	16:58	1	0.27	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	17:08	1	0.33	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	17:18	1	0.35	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	17:28	1	0.25	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	17:38	1	0.29	0.01	Bay_3	
	79T 1W	85T 2W				
08/19/1999	17:48	1	0.38	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	17:58	1	0.34	0.01	Bay_3	

Monitor Serial Number 1356 Date 08/19/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAS
08/19/1999	18:08	1	0.37	0.00	Bay_3	
	79T 2W					
08/19/1999	18:18	1	0.32	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	18:28	1	0.35	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	18:38	1	0.28	0.01	Bay_3	
	79T 1W	85T 2W				
08/19/1999	18:48	1	0.27	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	18:58	1	0.35	0.01	Bay_3	
	78T 2W	85T 2W				
08/19/1999	19:08	1	0.26	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	19:18	1	0.00	0.01	Bay_3	
		85T 1W				
08/19/1999	19:28	1	0.24	0.01	Bay_3	
	79T 2W	88T 1W				
08/19/1999	19:38	1	0.23	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	19:48	1	0.21	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	19:58	1	0.18	0.01	Bay_3	
	79T 1W	85T 1W				
08/19/1999	20:08	1	0.25	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	20:18	1	0.16	0.01	Bay_3	
	79T 1W	85T 1W				
08/19/1999	20:28	1	0.29	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	20:38	1	0.20	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	20:48	1	0.27	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	20:58	1	0.18	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	21:08	1	0.00	0.01	Bay_3	
		84T 2W				
08/19/1999	21:18	1	0.16	0.00	Bay_3	
	79T 1W					
08/19/1999	21:28	1	0.15	0.00	Bay_3	
	79T 2W					
08/19/1999	21:38	1	0.17	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	21:48	1	0.25	0.00	Bay_3	
	78T 2W					
08/19/1999	21:58	1	0.23	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	22:08	1	0.22	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	22:18	1	0.17	0.00	Bay_3	
	79T 1W					
08/19/1999	22:28	1	0.20	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	22:38	1	0.22	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	22:48	1	0.13	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	22:58	1	0.16	0.01	Bay_3	
	79T 1W	85T 1W				

Monitor Serial Number 1356 Date 08/19/1999 Sampling Station 3

Date	Time	Port	VX	GB		TWAG
08/19/1999	23:08	1	0.15	0.01	Bay_3	
	79T 2W	85T 1W				
08/19/1999	23:18	1	0.19	0.00	Bay_3	
	79T 2W					
08/19/1999	23:28	1	0.18	0.01	Bay_3	
	79T 2W	85T 2W				
08/19/1999	23:38	1	0.16	0.00	Bay_3	
	79T 2W					
08/19/1999	23:48	1	0.16	0.00	Bay_3	
	79T 2W					
08/19/1999	23:58	1	0.00	0.00	Bay_3	
08/20/1999	00:08	1	0.14	0.01	Bay_3	
	79T 2W	85T 2W				
08/20/1999	00:18	1	0.20	0.00	Bay_3	
	79T 2W					
08/20/1999	00:28	1	0.15	0.00	Bay_3	
	79T 2W					
08/20/1999	00:38	1	0.22	0.00	Bay_3	
	78T 2W					
08/20/1999	00:48	1	0.17	0.00	Bay_3	
	80T 2W					
08/20/1999	00:58	1	0.23	0.00	Bay_3	
	79T 2W					
08/20/1999	01:08	1	0.13	0.01	Bay_3	
	79T 1W	85T 2W				
08/20/1999	01:18	1	0.18	0.00	Bay_3	
	80T 2W					
08/20/1999	01:28	1	0.15	0.01	Bay_3	
	79T 1W	85T 2W				
08/20/1999	01:38	1	0.11	0.00	Bay_3	
	79T 2W					
08/20/1999	01:48	1	0.15	0.01	Bay_3	
	79T 2W	85T 2W				
08/20/1999	01:58	1	0.18	0.01	Bay_3	
	79T 2W	85T 2W				
08/20/1999	02:08	1	0.17	0.00	Bay_3	
	79T 2W					
08/20/1999	02:18	1	0.00	0.00	Bay_3	
08/20/1999	02:28	1	0.22	0.01	Bay_3	
	79T 2W	85T 1W				
08/20/1999	02:38	1	0.00	0.01	Bay_3	
		86T 2W				
08/20/1999	02:48	1	0.20	0.00	Bay_3	
	79T 2W					
08/20/1999	02:58	1	0.21	0.00	Bay_3	
	80T 2W					
08/20/1999	03:08	1	0.20	0.01	Bay_3	
	79T 2W	85T 1W				
08/20/1999	03:18	1	0.18	0.00	Bay_3	
	79T 2W					
08/20/1999	03:28	1	0.17	0.01	Bay_3	
	79T 1W	85T 2W				
08/20/1999	03:38	1	0.24	0.01	Bay_3	
	79T 1W	85T 2W				
08/20/1999	03:48	1	0.17	0.00	Bay_3	
	79T 2W					
08/20/1999	03:58	1	0.21	0.01	Bay_3	
	79T 2W	85T 2W				
08/20/1999	04:08	1	0.18	0.01	Bay_3	

Monitor Serial Number 1356 Date 08/20/1999 Sampling Station 3

Date	Time	Port	VX	GB				TWAG
08/20/1999	04:18	1	0.15	0.00	Bay_3			
	79T 1W							
08/20/1999	04:28	1	0.20	0.00	Bay_3			
	79T 2W							
08/20/1999	04:38	1	0.18	0.01	Bay_3			
	79T 1W	85T 2W						
08/20/1999	04:48	1	0.24	0.01	Bay_3			
	79T 2W	84T 2W						
08/20/1999	04:58	1	0.21	0.01	Bay_3			
	79T 2W	85T 1W						
08/20/1999	05:08	1	0.19	0.00	Bay_3			
	79T 2W							
08/20/1999	05:18	1	0.16	0.00	Bay_3			
	79T 2W							
08/20/1999	05:28	1	0.17	0.00	Bay_3			
	79T 2W							
08/20/1999	05:38	1	0.00	0.01	Bay_3			
		85T 1W						
08/20/1999	05:48	1	0.21	0.00	Bay_3			
	79T 1W							
08/20/1999	05:58	1	0.14	0.01	Bay_3			
	79T 2W	85T 2W						
08/20/1999	06:08	1	0.00	0.01	Bay_3			
		85T 1W						
08/20/1999	06:18	1	0.18	0.00	Bay_3			
	79T 2W							
08/20/1999	06:28	1	0.18	0.00	Bay_3			
	79T 2W							
08/20/1999	06:38	1	0.17	0.00	Bay_3			
	79T 2W							
08/20/1999	06:48	1	0.15	0.01	Bay_3			
	79T 1W	85T 1W						
08/20/1999	06:58	1	0.17	0.00	Bay_3			
	79T 2W							

BAY 4

Monitor Serial Number 1360 Date 08/13/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/13/1999	15:47	1	0.00	0.00	Bay_4	CAL
CALIBRATION	VX	GB				
AVERAGE	116H	2610H				

Monitor Serial Number 1360 Date 08/13/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/13/1999	15:56	1	1.65	1.91	Bay_4	CHE
	84T 2W	90T 2W				

Monitor Serial Number 1360 Date 08/13/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/13/1999	16:02	1	1.04	1.04	Bay_4	CHE
	84T 2W	90T 2W				

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 16:03

S/N 1360 CHECK STATION 4

SOFTWARE: Version 02181999

TEMPERATURES, xC:	Ambient	s 40	a 36	o 15
	Inlet	s 50	a 51	o 15
	FPD Block	s150	a151	o 15
	FPD Flame	s225	a208	o 99
	Column		a101	
	Column, low	s 40	a 40	o 15
	Column, high	s180	a179	o 15
	Column rate, xC/min	s150	a149	o 20
	Column rate 2	s 0	a 0	o 20
	PCT heater		a 52	
	PCT heater, low	s 50	a 51	o 20
	PCT heater, high	s235	a235	o 30
PRESSURES, psi:	Air	s 35	a 35	o 5
	Helium	s 40	a40.8	o 5
	Hydrogen	s 35	a 35	o 5
SAMPLE:	Flow rate, ccm	s 450	a 450	o 99
	Average flow rate		a 458	
	Volume, L		a7.57	

DC
RCB

Column purge b100 e100 Inject b120 e130
FPD zero On

VOLTAGE, VDC: FPD photomultiplier s1100 a1104 o 50

ELECTROMETER: FPD signal, nA 102 FPD zero, nA 174

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.04C	121H*	261A	84.0T	1.8W	b 81	e 87
GB	1 FPD	1.04C	2711H*	5224A	90.3T	1.6W	b 87	e 93

CALIBRATION DATA:

VX	1 @	1.00 FPD	116H*	238A	83.7T	1.7W	08/13/1999	15:47
GB	1 @	1.00 FPD	2610H*	5126A	90.1T	1.6W	08/13/1999	15:47

SAMPLING SEQUENCE:

A01 Bay_4

ELAPSED TIME ********** 128 sec

Monitor Serial Number 1360 Date 08/13/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/13/1999	16:12	1	0.00	0.07	Bay_4	
		90T 2W				
08/13/1999	16:22	1	0.63	0.11	Bay_4	
	84T 2W	90T 2W				
08/13/1999	16:32	1	0.42	0.06	Bay_4	
	84T 2W	90T 2W				
08/13/1999	16:42	1	0.24	0.06	Bay_4	
	84T 2W	90T 2W				
08/13/1999	16:52	1	0.24	0.05	Bay_4	
	84T 2W	90T 2W				
08/13/1999	17:02	1	0.33	0.04	Bay_4	
	84T 2W	90T 2W				
08/13/1999	17:12	1	0.22	0.04	Bay_4	
	84T 2W	90T 2W				
08/13/1999	17:22	1	0.33	0.04	Bay_4	
	85T 3W	90T 2W				
08/13/1999	17:32	1	0.27	0.04	Bay_4	
	84T 2W	90T 2W				
08/13/1999	17:42	1	0.20	0.03	Bay_4	
	84T 1W	90T 2W				
08/13/1999	17:52	1	0.31	0.04	Bay_4	
	84T 2W	90T 2W				
08/13/1999	18:02	1	0.37	0.03	Bay_4	
	84T 2W	90T 2W				
08/13/1999	18:12	1	0.00	0.00	Bay_4	
08/13/1999	18:22	1	0.22	0.02	Bay_4	
	83T 3W	91T 2W				
08/13/1999	18:32	1	0.86	0.00	Bay_4	
	83T 2W					
08/13/1999	18:42	1	0.00	0.02	Bay_4	
		92T 2W				
08/13/1999	18:52	1	0.32	0.03	Bay_4	
	84T 1W	91T 2W				
08/13/1999	19:02	1	0.36	0.01	Bay_4	
	81T 1W	91T 2W				
08/13/1999	19:12	1	0.47	0.06	Bay_4	

91T 2W
08/13/1999 19:32 1 0.25 0.02 Bay_4
84T 1W 90T 2W
08/13/1999 19:42 1 0.26 0.00 Bay_4
82T 1W
08/13/1999 19:52 1 0.19 0.03 Bay_4
84T 1W 90T 2W
08/13/1999 20:02 1 0.35 0.03 Bay_4
84T 2W 90T 2W
08/13/1999 20:12 1 0.21 0.02 Bay_4
86T 1W 90T 2W
08/13/1999 20:22 1 0.24 0.02 Bay_4
84T 2W 90T 2W
08/13/1999 20:32 1 0.17 0.02 Bay_4
84T 2W 90T 2W
08/13/1999 20:42 1 0.41 0.00 Bay_4
84T 2W
08/13/1999 20:52 1 0.00 0.02 Bay_4
90T 2W
08/13/1999 21:02 1 0.31 0.02 Bay_4
84T 2W 90T 1W

Monitor Serial Number 1360 Date 08/13/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/13/1999 21:12 1 0.19 0.03 Bay_4
84T 2W 91T 2W
08/13/1999 21:22 1 0.18 0.02 Bay_4
85T 2W 90T 1W
08/13/1999 21:32 1 0.15 0.02 Bay_4
84T 1W 90T 2W
08/13/1999 21:42 1 0.24 0.02 Bay_4
84T 2W 90T 1W
08/13/1999 21:52 1 0.21 0.02 Bay_4
84T 2W 90T 1W
08/13/1999 22:02 1 0.19 0.00 Bay_4
84T 2W
08/13/1999 22:12 1 0.15 0.02 Bay_4
84T 2W 91T 1W
08/13/1999 22:22 1 0.33 0.02 Bay_4
84T 1W 91T 2W
08/13/1999 22:32 1 0.00 0.03 Bay_4
90T 2W
08/13/1999 22:42 1 0.24 0.02 Bay_4
84T 2W 90T 2W
08/13/1999 22:52 1 0.23 0.01 Bay_4
84T 2W 91T 2W
08/13/1999 23:02 1 0.28 0.00 Bay_4
84T 2W
08/13/1999 23:12 1 0.00 0.02 Bay_4
91T 2W
08/13/1999 23:22 1 0.26 0.00 Bay_4
84T 2W
08/13/1999 23:32 1 0.21 0.01 Bay_4
84T 2W 91T 2W
08/13/1999 23:42 1 0.26 0.00 Bay_4
84T 2W
08/13/1999 23:52 1 0.21 0.00 Bay_4
84T 2W
08/14/1999 00:02 1 0.18 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 00:12 1 0.00 0.02 Bay_4

84T 2W 90T 2W
08/14/1999 00:32 1 0.17 0.00 Bay_4
85T 2W
08/14/1999 00:42 1 0.11 0.01 Bay_4
85T 1W 91T 2W
08/14/1999 00:52 1 0.16 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 01:02 1 0.19 0.02 Bay_4
85T 2W 90T 2W
08/14/1999 01:12 1 0.08 0.01 Bay_4
84T 1W 90T 2W
08/14/1999 01:22 1 0.18 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 01:32 1 0.13 0.01 Bay_4
84T 2W 91T 2W
08/14/1999 01:42 1 0.11 0.00 Bay_4
85T 2W
08/14/1999 01:52 1 0.15 0.02 Bay_4
85T 2W 90T 2W
08/14/1999 02:02 1 0.21 0.01 Bay_4
84T 2W 91T 2W

Monitor Serial Number 1360 Date 08/14/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/14/1999	02:12	1	0.13	0.01	Bay_4	
	84T 1W	90T 2W				
08/14/1999	02:22	1	0.15	0.01	Bay_4	
	84T 1W	90T 2W				
08/14/1999	02:32	1	0.15	0.02	Bay_4	
	85T 2W	90T 2W				
08/14/1999	02:42	1	0.16	0.01	Bay_4	
	84T 2W	90T 2W				
08/14/1999	02:52	1	0.00	0.01	Bay_4	
		90T 2W				
08/14/1999	03:02	1	0.15	0.02	Bay_4	
	84T 2W	90T 2W				
08/14/1999	03:12	1	0.13	0.01	Bay_4	
	84T 2W	91T 2W				
08/14/1999	03:22	1	0.17	0.02	Bay_4	
	84T 1W	90T 2W				
08/14/1999	03:32	1	0.00	0.01	Bay_4	
		91T 2W				
08/14/1999	03:42	1	0.12	0.00	Bay_4	
	85T 2W					
08/14/1999	03:52	1	0.14	0.00	Bay_4	
	84T 2W					
08/14/1999	04:02	1	0.00	0.02	Bay_4	
		90T 2W				
08/14/1999	04:12	1	0.12	0.01	Bay_4	
	85T 2W	91T 2W				
08/14/1999	04:22	1	0.12	0.01	Bay_4	
	84T 1W	90T 2W				
08/14/1999	04:32	1	0.08	0.01	Bay_4	
	84T 1W	90T 2W				
08/14/1999	04:42	1	0.09	0.00	Bay_4	
	84T 2W					
08/14/1999	04:52	1	0.17	0.01	Bay_4	
	84T 2W	90T 1W				
08/14/1999	05:02	1	0.14	0.01	Bay_4	
	84T 2W	91T 2W				
08/14/1999	05:12	1	0.17	0.00	Bay_4	

```
          84T 1W  91T 2W
08/14/1999 05:32  1   0.10    0.00  Bay_4
          84T 1W
08/14/1999 05:42  1   0.14    0.01  Bay_4
          85T 2W  91T 2W
08/14/1999 05:52  1   0.07    0.01  Bay_4
          84T 1W  90T 1W
08/14/1999 06:02  1   0.13    0.00  Bay_4
          84T 2W
08/14/1999 06:12  1   0.16    0.01  Bay_4
          84T 2W  90T 1W
08/14/1999 06:22  1   0.12    0.01  Bay_4
          84T 2W  90T 2W
08/14/1999 06:32  1   0.00    0.00  Bay_4
08/14/1999 06:42  1   0.14    0.02  Bay_4
          84T 2W  90T 2W
08/14/1999 06:52  1   0.11    0.02  Bay_4
          85T 2W  90T 2W
08/14/1999 07:02  1   0.13    0.00  Bay_4
          84T 2W


Monitor Serial Number 1360          Date 08/14/1999        Sampling Station    4

Date        Time  Port   VX      GB                                          TWAG

08/14/1999 07:12  1   0.19    0.00  Bay_4
          84T 2W
08/14/1999 07:22  1   0.08    0.01  Bay_4
          84T 1W  90T 1W
08/14/1999 07:32  1   0.21    0.02  Bay_4
          85T 2W  91T 2W
08/14/1999 07:42  1   0.22    0.00  Bay_4
          84T 2W
08/14/1999 07:52  1   0.25    0.01  Bay_4
          84T 2W  91T 2W
08/14/1999 08:02  1   0.00    0.01  Bay_4
                 90T 1W
08/14/1999 08:12  1   0.11    0.00  Bay_4
          84T 2W
08/14/1999 08:22  1   0.12    0.01  Bay_4
          85T 2W  91T 1W
08/14/1999 08:32  1   0.11    0.00  Bay_4
          85T 2W
08/14/1999 08:42  1   0.00    0.01  Bay_4
                 93T 1W
08/14/1999 08:52  1   0.94    0.85  Bay_4
          84T 2W  91T 2W
08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:53

S/N 1360                                                STATION    4

SOFTWARE:                                           Version 02181999

TEMPERATURES, xC:  Ambient              s 40        a 35        o 15
                   Inlet                s 50        a 52        o 15
                   FPD Block            s150        a152        o 15
                   FPD Flame            s225        a207        o 99
                   Column                           a 82
                   Column, low          s 40        a 40        o 15
                   Column, high         s180        a178        o 15
                   Column rate, xC/min  s150        a151        o 20
                   Column rate 2        s  0        a  0        o 20
                   PCT heater                       a 50
```

PRESSURES, psi:	Air	s 35	a 35	o 5
	Helium	s 40	a40.9	o 5
	Hydrogen	s 35	a 35	o 5
SAMPLE:	Flow rate, ccm	s 450	a 454	o 99
	Average flow rate		a 454	
	Volume, L		a3.64	

DC
PCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1100 a1104 o 50

ELECTROMETER: FPD signal, nA 100 FPD zero, nA 168

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.94C	110H*	242A	84.3T	1.9W	b 81	e 87
GB	1 FPD	0.85C	2227H*	4598A	90.5T	1.8W	b 87	e 93

CALIBRATION DATA:

VX 1 @	1.00 FPD	116H*	238A	83.7T	1.7W	08/13/1999	15:47
GB 1 @	1.00 FPD	2610H*	5126A	90.1T	1.6W	08/13/1999	15:47

SAMPLING SEQUENCE:

A01 Bay_4

ELAPSED TIME ********** 145 sec

Monitor Serial Number 1360 Date 08/14/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/14/1999	09:02	1	0.52	0.03	Bay_4	
	84T 2W	90T 2W				
08/14/1999	09:12	1	0.28	0.02	Bay_4	
	84T 2W	90T 2W				
08/14/1999	09:22	1	0.27	0.01	Bay_4	
	84T 2W	90T 2W				
08/14/1999	09:32	1	0.25	0.01	Bay_4	
	84T 2W	90T 2W				
08/14/1999	09:42	1	0.22	0.00	Bay_4	
	84T 2W					
08/14/1999	09:52	1	0.27	0.01	Bay_4	
	85T 2W	90T 1W				
08/14/1999	10:02	1	0.30	0.02	Bay_4	
	84T 2W	90T 2W				
08/14/1999	10:12	1	0.16	0.01	Bay_4	
	84T 2W	91T 2W				
08/14/1999	10:22	1	0.23	0.01	Bay_4	
	84T 2W	90T 2W				
08/14/1999	10:32	1	0.15	0.00	Bay_4	
	84T 2W					
08/14/1999	10:42	1	0.16	0.01	Bay_4	
	84T 2W	91T 2W				
08/14/1999	10:52	1	0.00	0.00	Bay_4	
08/14/1999	11:02	1	0.00	0.00	Bay_4	
08/14/1999	11:12	1	0.18	0.00	Bay_4	

84T 2W 90T 2W
08/14/1999 11:32 1 0.17 0.00 Bay_4
84T 2W
08/14/1999 11:42 1 0.17 0.01 Bay_4
84T 1W 90T 1W
08/14/1999 11:52 1 0.20 0.01 Bay_4
84T 2W 91T 2W
08/14/1999 12:02 1 0.00 0.01 Bay_4
90T 2W
08/14/1999 12:12 1 0.15 0.00 Bay_4
84T 1W
08/14/1999 12:22 1 0.20 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 12:32 1 0.19 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 12:42 1 0.17 0.00 Bay_4
84T 2W
08/14/1999 12:52 1 0.22 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 13:02 1 0.15 0.01 Bay_4
84T 1W 91T 2W
08/14/1999 13:12 1 0.18 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 13:22 1 0.00 0.01 Bay_4
90T 2W
08/14/1999 13:32 1 0.17 0.00 Bay_4
85T 2W
08/14/1999 13:42 1 0.13 0.01 Bay_4
85T 2W 91T 2W
08/14/1999 13:52 1 0.19 0.00 Bay_4
84T 2W
08/14/1999 14:02 1 0.13 0.02 Bay_4
84T 2W 91T 2W

Monitor Serial Number 1360 Date 08/14/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/14/1999 14:12 1 0.00 0.01 Bay_4
90T 2W
08/14/1999 14:22 1 0.15 0.02 Bay_4
84T 2W 91T 2W
08/14/1999 14:32 1 0.15 0.01 Bay_4
84T 2W 90T 2W
08/14/1999 14:42 1 0.20 0.01 Bay_4
84T 2W 93T 2W
08/14/1999 14:52 1 0.18 0.01 Bay_4
84T 1W 90T 2W
08/14/1999 15:02 1 0.00 0.00 Bay_4
08/14/1999 15:12 1 0.20 0.01 Bay_4
84T 2W 91T 2W
08/14/1999 15:22 1 0.00 0.01 Bay_4
91T 1W
08/14/1999 15:32 1 0.22 0.01 Bay_4
84T 2W 91T 1W
08/14/1999 15:42 1 0.00 0.00 Bay_4
08/14/1999 15:52 1 0.00 0.01 Bay_4
93T 1W
08/14/1999 16:02 1 0.22 0.01 Bay_4
84T 2W 91T 2W
08/14/1999 16:12 1 0.23 0.01 Bay_4
84T 2W 91T 2W
08/14/1999 16:22 1 0.21 0.00 Bay_4

84T 2W 91T 2W
08/14/1999 16:42 1 0.17 0.00 Bay 4
85T 2W
08/14/1999 16:52 1 0.22 0.01 Bay 4
85T 2W 91T 2W
08/14/1999 17:02 1 0.19 0.01 Bay 4
84T 2W 91T 2W
08/14/1999 17:12 1 0.15 0.01 Bay 4
84T 2W 90T 2W
08/14/1999 17:22 1 0.22 0.00 Bay 4
84T 2W
08/14/1999 17:32 1 0.15 0.00 Bay 4
84T 2W
08/14/1999 17:42 1 0.23 0.01 Bay 4
84T 2W 91T 2W
08/14/1999 17:52 1 0.19 0.01 Bay 4
84T 2W 91T 1W
08/14/1999 18:02 1 0.21 0.01 Bay 4
84T 2W 91T 2W
08/14/1999 18:12 1 0.00 0.01 Bay 4
91T 2W
08/14/1999 18:22 1 0.21 0.02 Bay 4
84T 2W 91T 2W
08/14/1999 18:32 1 0.25 0.01 Bay 4
84T 3W 91T 2W
08/14/1999 18:42 1 0.18 0.01 Bay 4
85T 2W 90T 2W
08/14/1999 18:52 1 0.17 0.01 Bay 4
84T 2W 90T 1W
08/14/1999 19:02 1 0.20 0.00 Bay 4
84T 2W
08/14/1999 19:12 1 0.00 0.00 Bay 4

Monitor Serial Number 1360 Date 08/14/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/14/1999 19:22 1 0.19 0.00 Bay 4
85T 2W
08/14/1999 19:32 1 0.23 0.01 Bay 4
85T 2W 90T 2W
08/14/1999 19:42 1 0.18 0.01 Bay 4
84T 2W 91T 2W
08/14/1999 19:52 1 0.00 0.01 Bay 4
90T 1W
08/14/1999 20:02 1 0.17 0.02 Bay 4
84T 2W 91T 2W
08/14/1999 20:12 1 0.13 0.00 Bay 4
84T 2W
08/14/1999 20:22 1 0.19 0.01 Bay 4
84T 3W 90T 2W
08/14/1999 20:32 1 0.16 0.01 Bay 4
85T 2W 91T 2W
08/14/1999 20:42 1 0.00 0.00 Bay 4
08/14/1999 20:52 1 0.19 0.01 Bay 4
84T 2W 90T 2W
08/14/1999 21:02 1 0.16 0.01 Bay 4
85T 2W 90T 2W
08/14/1999 21:12 1 0.15 0.00 Bay 4
84T 2W
08/14/1999 21:22 1 0.19 0.00 Bay 4
84T 1W
08/14/1999 21:32 1 0.17 0.01 Bay 4

84T 2W
08/14/1999 21:52 1 0.15 0.01 Bay 4
84T 2W 91T 2W
08/14/1999 22:02 1 0.20 0.01 Bay 4
84T 2W 90T 2W
08/14/1999 22:12 1 0.00 0.01 Bay 4
90T 2W
08/14/1999 22:22 1 0.15 0.00 Bay 4
84T 2W
08/14/1999 22:32 1 0.14 0.00 Bay 4
85T 2W
08/14/1999 22:42 1 0.15 0.01 Bay 4
84T 2W 90T 2W
08/14/1999 22:52 1 0.00 0.01 Bay 4
92T 1W
08/14/1999 23:02 1 0.14 0.01 Bay 4
84T 2W 90T 1W
08/14/1999 23:12 1 0.16 0.01 Bay 4
84T 2W 91T 1W
08/14/1999 23:22 1 0.15 0.01 Bay 4
84T 2W 91T 2W
08/14/1999 23:32 1 0.19 0.01 Bay 4
84T 2W 91T 1W
08/14/1999 23:42 1 0.00 0.01 Bay 4
90T 1W
08/14/1999 23:52 1 0.13 0.00 Bay 4
84T 2W
08/15/1999 00:02 1 0.15 0.01 Bay 4
84T 2W 91T 2W
08/15/1999 00:12 1 0.13 0.01 Bay 4
84T 2W 91T 1W

Monitor Serial Number 1360 Date 08/15/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/15/1999 00:22 1 0.17 0.00 Bay 4
84T 2W
08/15/1999 00:32 1 0.17 0.01 Bay 4
85T 2W 91T 2W
08/15/1999 00:42 1 0.12 0.01 Bay 4
84T 3W 90T 2W
08/15/1999 00:52 1 0.00 0.00 Bay 4
08/15/1999 01:02 1 0.16 0.00 Bay 4
84T 2W
08/15/1999 01:12 1 0.00 0.01 Bay 4
90T 1W
08/15/1999 01:22 1 0.00 0.01 Bay 4
91T 2W
08/15/1999 01:32 1 0.12 0.01 Bay 4
84T 2W 90T 2W
08/15/1999 01:42 1 0.12 0.01 Bay 4
84T 2W 91T 2W
08/15/1999 01:52 1 0.16 0.00 Bay 4
84T 2W
08/15/1999 02:02 1 0.11 0.00 Bay 4
84T 1W
08/15/1999 02:12 1 0.11 0.00 Bay 4
84T 2W
08/15/1999 02:22 1 0.12 0.01 Bay 4
84T 2W 91T 2W
08/15/1999 02:32 1 0.13 0.01 Bay 4
84T 1W 90T 2W

08/15/1999 02:52 1 0.08 0.01 Bay_4
84T 1W 90T 2W
08/15/1999 03:02 1 0.12 0.01 Bay_4
85T 2W 90T 2W
08/15/1999 03:12 1 0.11 0.00 Bay_4
84T 1W
08/15/1999 03:22 1 0.14 0.00 Bay_4
84T 2W
08/15/1999 03:32 1 0.10 0.01 Bay_4
84T 2W 90T 2W
08/15/1999 03:42 1 0.00 0.00 Bay_4
08/15/1999 03:52 1 0.14 0.01 Bay_4
84T 2W 90T 2W
08/15/1999 04:02 1 0.14 0.01 Bay_4
84T 2W 90T 2W
08/15/1999 04:12 1 0.11 0.01 Bay_4
85T 2W 91T 2W
08/15/1999 04:22 1 0.00 0.00 Bay_4
08/15/1999 04:32 1 0.00 0.00 Bay_4
08/15/1999 04:42 1 0.12 0.00 Bay_4
84T 2W
08/15/1999 04:52 1 0.08 0.00 Bay_4
84T 2W
08/15/1999 05:02 1 0.09 0.00 Bay_4
84T 2W
08/15/1999 05:12 1 0.00 0.00 Bay_4
08/15/1999 05:22 1 0.07 0.00 Bay_4
85T 1W
08/15/1999 05:32 1 0.00 0.01 Bay_4
90T 2W

Monitor Serial Number 1360 Date 08/15/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/15/1999 05:42 1 0.10 0.00 Bay_4
85T 2W
08/15/1999 05:52 1 0.12 0.00 Bay_4
84T 1W
08/15/1999 06:02 1 0.11 0.00 Bay_4
85T 2W
08/15/1999 06:12 1 0.10 0.00 Bay_4
85T 2W
08/15/1999 06:22 1 0.00 0.01 Bay_4
91T 1W
08/15/1999 06:32 1 0.00 0.01 Bay_4
90T 2W
08/15/1999 06:42 1 0.00 0.01 Bay_4
92T 1W
08/15/1999 06:52 1 0.10 0.00 Bay_4
84T 2W
08/15/1999 07:02 1 0.14 0.00 Bay_4
85T 2W
08/15/1999 07:12 1 0.15 0.01 Bay_4
84T 2W 91T 2W
08/15/1999 07:22 1 0.11 0.01 Bay_4
84T 1W 90T 2W
08/15/1999 07:32 1 0.14 0.00 Bay_4
85T 2W
08/15/1999 07:42 1 0.11 0.00 Bay_4
84T 1W
08/15/1999 07:52 1 0.11 0.01 Bay_4
84T 1W 91T 2W

```
          84T 1W
08/15/1999 08:22  1   0.00    0.01  Bay_4
                 90T 2W
08/15/1999 08:32  1   0.11    0.01  Bay_4
          84T 2W  90T 2W
08/15/1999 08:42  1   0.10    0.00  Bay_4
          84T 2W
08/15/1999 08:52  1   0.12    0.01  Bay_4
          84T 2W  90T 2W


Monitor Serial Number 1360          Date 08/15/1999        Sampling Station    4

Date        Time  Port   VX      GB                                          TWAG

08/15/1999 09:01  1   0.00    0.00  Bay_4
08/15/1999 09:11  1   0.06    0.01  Bay_4
          83T 1W  90T 2W
08/15/1999 09:21  1   0.99    0.86  Bay_4                                      CHE
          84T 2W  90T 2W
08/15/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:22

S/N 1360                                                  STATION    4

SOFTWARE:                                             Version 02181999

TEMPERATURES, xC:  Ambient              s 40        a 35        o 15
                   Inlet                s 50        a 51        o 15
                   FPD Block            s150        a152        o 15
                   FPD Flame            s225        a207        o 99
                   Column                           a 65
                   Column, low          s 40        a 40        o 15
                   Column, high         s180        a178        o 15
                   Column rate, xC/min  s150        a149        o 20
                   Column rate 2        s  0        a  0        o 20
                   PCT heater                       a 51
                   PCT heater, low      s 50        a 51        o 20
                   PCT heater, high     s235        a235        o 30

PRESSURES, psi:    Air                  s 35        a 35        o  5
                   Helium               s 40       a41.3        o  5
                   Hydrogen             s 35        a 35        o  5

SAMPLE:            Flow rate, ccm      s 450       a 454        o 99
                   Average flow rate               a 465
                   Volume, L                       a3.72

TIMES, sec:        Purge          b  0   e120   Sample   b120    e600
                   Desorb         b  5   e 50   Column   b 40    e100
                   Column purge   b100   e100   Inject   b120    e130
                   FPD zero               On

VOLTAGE, VDC:      FPD photomultiplier s1100       a1104        o 50

ELECTROMETER:      FPD signal, nA          97   FPD  zero, nA     161

CONCENTRATION REPORTS:                   Alarm setpoint, TWAG    1.00

VX   1 FPD   0.99C    115H*    277A   83.5T  1.9W       b 81    e 87
GB   1 FPD   0.86C   2235H*   4721A   89.6T  1.8W       b 87    e 93

CALIBRATION DATA:

VX 1 @  1.00 FPD      116H*    238A   83.7T  1.7W 08/13/1999   15:47
```

DC
RB

SAMPLING SEQUENCE:

A01 Bay_4

ELAPSED TIME ********** 169 sec

Monitor Serial Number 1360 Date 08/15/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:31	1	0.24	0.03	Bay_4	
	84T 2W	90T 2W				
08/15/1999	09:41	1	0.00	0.01	Bay_4	
		90T 2W				
08/15/1999	09:51	1	0.13	0.01	Bay_4	
	84T 2W	91T 2W				
08/15/1999	10:01	1	0.15	0.00	Bay_4	
	84T 1W					
08/15/1999	10:11	1	0.22	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	10:21	1	0.20	0.01	Bay_4	
	83T 2W	90T 2W				
08/15/1999	10:31	1	0.13	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	10:41	1	0.19	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	10:51	1	0.21	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	11:01	1	0.13	0.01	Bay_4	
	84T 2W	91T 2W				
08/15/1999	11:11	1	0.17	0.00	Bay_4	
	84T 2W					
08/15/1999	11:21	1	0.15	0.00	Bay_4	
	83T 1W					
08/15/1999	11:31	1	0.15	0.00	Bay_4	
	84T 2W					
08/15/1999	11:41	1	0.00	0.01	Bay_4	
		90T 2W				
08/15/1999	11:51	1	0.16	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	12:01	1	0.17	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	12:11	1	0.21	0.01	Bay_4	
	84T 1W	90T 2W				
08/15/1999	12:21	1	0.14	0.00	Bay_4	
	83T 1W					
08/15/1999	12:31	1	0.21	0.00	Bay_4	
	84T 2W					
08/15/1999	12:41	1	0.00	0.01	Bay_4	
		90T 1W				
08/15/1999	12:51	1	0.26	0.00	Bay_4	
	84T 2W					
08/15/1999	13:01	1	0.24	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	13:11	1	0.19	0.01	Bay_4	
	84T 3W	90T 2W				
08/15/1999	13:21	1	0.25	0.01	Bay_4	
	84T 2W	89T 2W				
08/15/1999	13:31	1	0.22	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	13:41	1	0.23	0.00	Bay_4	
	84T 2W					
08/15/1999	13:51	1	0.17	0.01	Bay_4	

83T 2W 90T 2W
08/15/1999 14:11 1 0.17 0.01 Bay_4
84T 2W 90T 2W
08/15/1999 14:21 1 0.22 0.01 Bay_4
84T 2W 90T 2W

Monitor Serial Number 1360 Date 08/15/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/15/1999	14:31	1	0.19	0.00	Bay_4	
83T 1W						
08/15/1999	14:41	1	0.10	0.01	Bay_4	
84T 1W	90T 2W					
08/15/1999	14:51	1	0.14	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	15:01	1	0.17	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	15:11	1	0.15	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	15:21	1	0.20	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	15:31	1	0.24	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	15:41	1	0.26	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	15:51	1	0.23	0.01	Bay_4	
83T 2W	90T 1W					
08/15/1999	16:01	1	0.17	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	16:11	1	0.00	0.01	Bay_4	
89T 2W						
08/15/1999	16:21	1	0.19	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	16:31	1	0.22	0.00	Bay_4	
84T 2W						
08/15/1999	16:41	1	0.23	0.00	Bay_4	
84T 2W						
08/15/1999	16:51	1	0.25	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	17:01	1	0.23	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	17:11	1	0.20	0.01	Bay_4	
84T 2W	90T 1W					
08/15/1999	17:21	1	0.17	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	17:31	1	0.00	0.01	Bay_4	
90T 2W						
08/15/1999	17:41	1	0.22	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	17:51	1	0.00	0.00	Bay_4	
08/15/1999	18:01	1	0.21	0.01	Bay_4	
84T 1W	90T 2W					
08/15/1999	18:11	1	0.20	0.01	Bay_4	
84T 2W	90T 2W					
08/15/1999	18:21	1	0.22	0.00	Bay_4	
84T 2W						
08/15/1999	18:31	1	0.18	0.01	Bay_4	
84T 2W	92T 1W					
08/15/1999	18:41	1	0.21	0.01	Bay_4	
84T 1W	90T 1W					
08/15/1999	18:51	1	0.20	0.01	Bay_4	
84T 2W	90T 1W					

08/15/1999 19:11 1 0.21 0.00 Bay_4
84T 2W
08/15/1999 19:21 1 0.28 0.01 Bay_4
84T 3W 90T 2W

Monitor Serial Number 1360 Date 08/15/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/15/1999	19:31	1	0.00	0.00	Bay_4	
08/15/1999	19:41	1	0.08	0.01	Bay_4	
	86T 1W	90T 2W				
08/15/1999	19:51	1	0.00	0.01	Bay_4	
		90T 2W				
08/15/1999	20:01	1	0.17	0.00	Bay_4	
	84T 2W					
08/15/1999	20:11	1	0.14	0.00	Bay_4	
	84T 2W					
08/15/1999	20:21	1	0.00	0.01	Bay_4	
		90T 2W				
08/15/1999	20:31	1	0.17	0.01	Bay_4	
	84T 2W	90T 1W				
08/15/1999	20:41	1	0.21	0.01	Bay_4	
	83T 2W	90T 2W				
08/15/1999	20:51	1	0.21	0.01	Bay_4	
	85T 2W	91T 2W				
08/15/1999	21:01	1	0.16	0.00	Bay_4	
	84T 2W					
08/15/1999	21:11	1	0.00	0.01	Bay_4	
		90T 2W				
08/15/1999	21:21	1	0.17	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	21:31	1	0.00	0.00	Bay_4	
08/15/1999	21:41	1	0.09	0.01	Bay_4	
	85T 1W	91T 2W				
08/15/1999	21:51	1	0.14	0.00	Bay_4	
	84T 2W					
08/15/1999	22:01	1	0.13	0.00	Bay_4	
	84T 1W					
08/15/1999	22:11	1	0.12	0.01	Bay_4	
	84T 2W	90T 1W				
08/15/1999	22:21	1	0.07	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	22:31	1	0.16	0.02	Bay_4	
	84T 2W	90T 2W				
08/15/1999	22:41	1	0.13	0.00	Bay_4	
	84T 2W					
08/15/1999	22:51	1	0.00	0.01	Bay_4	
		90T 1W				
08/15/1999	23:01	1	0.09	0.00	Bay_4	
	85T 1W					
08/15/1999	23:11	1	0.15	0.00	Bay_4	
	84T 2W					
08/15/1999	23:21	1	0.14	0.01	Bay_4	
	84T 2W	90T 2W				
08/15/1999	23:31	1	0.17	0.00	Bay_4	
	84T 2W					
08/15/1999	23:41	1	0.12	0.00	Bay_4	
	84T 2W					
08/15/1999	23:51	1	0.00	0.00	Bay 4	
08/16/1999	00:01	1	0.15	0.00	Bay_4	
	84T 2W					
08/16/1999	00:11	1	0.10	0.00	Bay_4	

84T 1W
08/16/1999 00:31 1 0.17 0.00 Bay_4
84T 1W

Monitor Serial Number 1360 Date 08/16/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/16/1999	00:41	1	0.15	0.01	Bay_4	
	84T 2W 90T 1W					
08/16/1999	00:51	1	0.14	0.00	Bay_4	
	84T 2W					
08/16/1999	01:01	1	0.17	0.01	Bay_4	
	84T 2W 90T 1W					
08/16/1999	01:11	1	0.13	0.00	Bay_4	
	84T 2W					
08/16/1999	01:21	1	0.08	0.01	Bay_4	
	83T 1W 89T 2W					
08/16/1999	01:31	1	0.08	0.01	Bay_4	
	84T 2W 90T 1W					
08/16/1999	01:41	1	0.11	0.01	Bay_4	
	83T 1W 90T 2W					
08/16/1999	01:51	1	0.11	0.00	Bay_4	
	84T 2W					
08/16/1999	02:01	1	0.12	0.01	Bay_4	
	84T 1W 90T 1W					
08/16/1999	02:11	1	0.00	0.01	Bay_4	
	89T 2W					
08/16/1999	02:21	1	0.00	0.01	Bay_4	
	90T 2W					
08/16/1999	02:31	1	0.00	0.01	Bay_4	
	90T 2W					
08/16/1999	02:41	1	0.00	0.00	Bay_4	
08/16/1999	02:51	1	0.13	0.00	Bay_4	
	84T 1W					
08/16/1999	03:01	1	0.10	0.00	Bay_4	
	85T 2W					
08/16/1999	03:11	1	0.15	0.01	Bay_4	
	85T 2W 91T 2W					
08/16/1999	03:21	1	0.14	0.00	Bay_4	
	83T 2W					
08/16/1999	03:31	1	0.00	0.00	Bay_4	
08/16/1999	03:41	1	0.11	0.01	Bay_4	
	84T 2W 90T 2W					
08/16/1999	03:51	1	0.18	0.01	Bay_4	
	83T 2W 89T 2W					
08/16/1999	04:01	1	0.10	0.00	Bay_4	
	84T 2W					
08/16/1999	04:11	1	0.00	0.00	Bay_4	
08/16/1999	04:21	1	0.11	0.01	Bay_4	
	84T 2W 90T 2W					
08/16/1999	04:31	1	0.00	0.01	Bay_4	
	90T 1W					
08/16/1999	04:41	1	0.00	0.01	Bay_4	
	90T 1W					
08/16/1999	04:51	1	0.00	0.01	Bay_4	
	90T 1W					
08/16/1999	05:01	1	0.00	0.00	Bay_4	
08/16/1999	05:11	1	0.00	0.00	Bay_4	
08/16/1999	05:21	1	0.12	0.00	Bay_4	
	84T 2W					
08/16/1999	05:31	1	0.08	0.01	Bay_4	
	84T 1W 91T 2W					

```
08/16/1999 05:51  1   0.12    0.01  Bay_4
          83T 1W  89T 2W


Monitor Serial Number 1360          Date 08/16/1999        Sampling Station    4

Date        Time  Port   VX      GB                                            TWAG

08/16/1999 06:01  1   0.00    0.01  Bay_4
                 90T 2W
08/16/1999 06:11  1   0.10    0.01  Bay_4
          84T 2W  90T 2W
08/16/1999 06:21  1   0.00    0.01  Bay_4
                 90T 2W
08/16/1999 06:31  1   0.10    0.00  Bay_4
          84T 1W
08/16/1999 06:41  1   0.11    0.01  Bay_4
          84T 2W  90T 2W
08/16/1999 06:51  1   0.12    0.00  Bay_4
          85T 2W
08/16/1999 07:01  1   0.11    0.01  Bay_4
          84T 1W  90T 2W
08/16/1999 07:11  1   0.10    0.01  Bay_4
          84T 2W  90T 1W
08/16/1999 07:21  1   0.10    0.00  Bay_4
          84T 2W
08/16/1999 07:31  1   0.12    0.00  Bay_4
          83T 2W
08/16/1999 07:41  1   0.17    0.01  Bay_4
          84T 2W  93T 1W
08/16/1999 07:51  1   0.00    0.01  Bay_4
                 89T 2W
08/16/1999 08:01  1   0.13    0.01  Bay_4
          84T 2W  90T 1W
08/16/1999 08:11  1   0.14    0.00  Bay_4
          84T 1W
08/16/1999 08:21  1   0.97    0.89  Bay_4                                       CHE
          83T 2W  90T 2W
08/16/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:22

S/N 1360                                                  STATION    4

SOFTWARE:                                             Version 02181999

TEMPERATURES, xC:  Ambient              s 40        a 35        o 15
                   Inlet                s 50        a 50        o 15
                   FPD Block            s150        a152        o 15
                   FPD Flame            s225        a208        o 99
                   Column                           a 69
                   Column, low          s 40        a 40        o 15
                   Column, high         s180        a176        o 15
                   Column rate, xC/min  s150        a150        o 20
                   Column rate 2        s  0        a  0        o 20
                   PCT heater                       a 50
                   PCT heater, low      s 50        a 51        o 20
                   PCT heater, high     s235        a235        o 30

PRESSURES, psi:    Air                  s 35        a 35        o  5
                   Helium               s 40       a41.1        o  5
                   Hydrogen             s 35        a 35        o  5

SAMPLE:            Flow rate, ccm      s 450       a 456        o 99
                   Average flow rate               a 451
                   Volume, l                       a3.62
```

Desorb	b 5	e 50	Column	b 40	e100
Column purge	b100	e100	Inject	b120	e130
FPD zero		On			

DC
JCB

VOLTAGE, VDC: FPD photomultiplier s1100 a1099 g 50

ELECTROMETER: FPD signal, nA 70 FPD zero, nA 171

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.97C	113H*	248A	83.3T	1.8W	b 81	e 87
GB	1 FPD	0.89C	2313H*	4786A	89.5T	1.7W	b 87	e 93

CALIBRATION DATA:

VX 1 @	1.00 FPD	116H*	238A	83.7T	1.7W	08/13/1999	15:47
GB 1 @	1.00 FPD	2610H*	5126A	90.1T	1.6W	08/13/1999	15:47

SAMPLING SEQUENCE:

A01 Bay_4

ELAPSED TIME ********** 166 sec

Monitor Serial Number 1360 Date 08/16/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/16/1999	08:31	1	0.26	0.03	Bay_4	
	83T 2W	90T 2W				
08/16/1999	08:41	1	0.14	0.01	Bay_4	
	83T 2W	90T 2W				
08/16/1999	08:51	1	0.00	0.01	Bay_4	
		90T 2W				
MINI-NET COMMUNICATIONS OFFLINE						
08/16/1999	09:01	1	0.19	0.01	Bay_4	
	84T 2W	90T 2W				
08/16/1999	09:11	1	0.00	0.00	Bay_4	
08/16/1999	09:21	1	0.00	0.01	Bay_4	
		89T 2W				
08/16/1999	09:31	1	0.18	0.00	Bay_4	
	84T 2W					
08/16/1999	09:41	1	0.26	0.00	Bay_4	
	85T 2W					
08/16/1999	09:51	1	0.22	0.00	Bay_4	
	84T 2W					
08/16/1999	10:01	1	0.00	0.01	Bay_4	
		89T 2W				
08/16/1999	10:11	1	0.19	0.01	Bay_4	
	84T 2W	90T 1W				
08/16/1999	10:21	1	0.23	0.00	Bay_4	
	84T 2W					
08/16/1999	10:31	1	0.00	0.01	Bay_4	
		90T 2W				
08/16/1999	10:41	1	0.00	0.00	Bay_4	
08/16/1999	10:51	1	0.21	0.01	Bay_4	
	84T 2W	90T 2W				
08/16/1999	11:01	1	0.14	0.01	Bay_4	
	84T 2W	90T 2W				
08/16/1999	11:11	1	0.18	0.01	Bay_4	
	84T 2W	90T 2W				
08/16/1999	11:21	1	0.24	0.00	Bay_4	
	83T 2W					

08/16/1999 11:41 1 0.24 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 11:51 1 0.24 0.00 Bay_4
84T 2W
08/16/1999 12:01 1 0.00 0.01 Bay_4
90T 2W
08/16/1999 12:11 1 0.21 0.00 Bay_4
84T 2W
08/16/1999 12:21 1 0.21 0.00 Bay_4
84T 2W
08/16/1999 12:31 1 0.19 0.01 Bay_4
84T 2W 90T 2W
MINI-NET COMMUNICATIONS ONLINE
08/16/1999 12:41 1 0.26 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 12:51 1 0.21 0.00 Bay_4
84T 2W
08/16/1999 13:01 1 0.24 0.01 Bay_4
84T 2W 92T 2W
08/16/1999 13:11 1 0.17 0.00 Bay_4
84T 2W
08/16/1999 13:21 1 0.23 0.00 Bay_4
84T 2W
08/16/1999 13:31 1 0.27 0.01 Bay_4
84T 2W 90T 1W

Monitor Serial Number 1360 Date 08/16/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/16/1999 13:41 1 0.20 0.00 Bay_4
84T 2W
08/16/1999 13:51 1 0.24 0.00 Bay_4
83T 2W
08/16/1999 14:01 1 0.26 0.01 Bay_4
85T 2W 91T 2W
08/16/1999 14:11 1 0.17 0.00 Bay_4
83T 1W
08/16/1999 14:21 1 0.19 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 14:31 1 0.27 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 14:41 1 0.19 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 14:51 1 0.27 0.00 Bay_4
83T 2W
08/16/1999 15:01 1 0.29 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 15:11 1 0.00 0.01 Bay_4
90T 2W
08/16/1999 15:21 1 0.00 0.01 Bay_4
89T 2W
08/16/1999 15:31 1 0.25 0.01 Bay_4
84T 2W 91T 2W
08/16/1999 15:41 1 0.28 0.00 Bay_4
84T 2W
08/16/1999 15:51 1 0.24 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 16:01 1 0.30 0.00 Bay_4
84T 2W
08/16/1999 16:11 1 0.33 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 16:21 1 0.28 0.01 Bay_4

84T 2W
08/16/1999 16:41 1 0.27 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 16:51 1 0.00 0.01 Bay_4
90T 1W
08/16/1999 17:01 1 0.28 0.00 Bay_4
84T 2W
08/16/1999 17:11 1 0.24 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 17:21 1 0.00 0.01 Bay_4
91T 2W
08/16/1999 17:31 1 0.25 0.00 Bay_4
85T 2W
08/16/1999 17:41 1 0.23 0.01 Bay_4
84T 1W 90T 2W
08/16/1999 17:51 1 0.28 0.01 Bay_4
84T 2W 90T 1W
08/16/1999 18:01 1 0.31 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 18:11 1 0.17 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 18:21 1 0.25 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 18:31 1 0.30 0.01 Bay_4
83T 2W 90T 2W

Monitor Serial Number 1360 Date 08/16/1999 Sampling Station 4

Date Time Port VX GB TWA6

08/16/1999 18:41 1 0.21 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 18:51 1 0.00 0.01 Bay_4
89T 2W
08/16/1999 19:01 1 0.19 0.00 Bay_4
85T 2W
08/16/1999 19:11 1 0.22 0.00 Bay_4
84T 2W
08/16/1999 19:21 1 0.00 0.00 Bay_4
08/16/1999 19:31 1 0.00 0.01 Bay_4
90T 2W
08/16/1999 19:41 1 0.21 0.01 Bay_4
84T 2W 91T 2W
08/16/1999 19:51 1 0.28 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 20:01 1 0.21 0.00 Bay_4
83T 2W
08/16/1999 20:11 1 0.15 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 20:21 1 0.25 0.01 Bay_4
84T 2W 90T 1W
08/16/1999 20:31 1 0.00 0.01 Bay_4
90T 1W
08/16/1999 20:41 1 0.23 0.01 Bay_4
84T 1W 90T 2W
08/16/1999 20:51 1 0.00 0.01 Bay_4
90T 1W
08/16/1999 21:01 1 0.00 0.00 Bay_4
08/16/1999 21:11 1 0.00 0.01 Bay_4
90T 2W
08/16/1999 21:21 1 0.15 0.01 Bay_4
84T 2W 91T 2W
08/16/1999 21:31 1 0.08 0.00 Bay_4

85T 2W 91T 2W
08/16/1999 21:51 1 0.00 0.00 Bay_4
08/16/1999 22:01 1 0.17 0.00 Bay_4
84T 2W
08/16/1999 22:11 1 0.16 0.01 Bay_4
84T 2W 90T 2W
08/16/1999 22:21 1 0.00 0.01 Bay_4
90T 2W
08/16/1999 22:31 1 0.00 0.01 Bay_4
90T 2W
08/16/1999 22:41 1 0.25 0.00 Bay_4
84T 3W
08/16/1999 22:51 1 0.00 0.01 Bay_4
91T 2W
08/16/1999 23:01 1 0.00 0.01 Bay_4
89T 2W
08/16/1999 23:11 1 0.15 0.00 Bay_4
84T 1W
08/16/1999 23:21 1 0.17 0.01 Bay_4
83T 2W 90T 1W
08/16/1999 23:31 1 0.27 0.00 Bay_4
84T 2W
08/16/1999 23:41 1 0.00 0.00 Bay_4
08/16/1999 23:51 1 0.11 0.01 Bay_4
84T 1W 91T 2W

Monitor Serial Number 1360 Date 08/17/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/17/1999 00:01 1 0.12 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 00:11 1 0.14 0.01 Bay_4
84T 2W 91T 2W
08/17/1999 00:21 1 0.13 0.01 Bay_4
84T 1W 91T 1W
08/17/1999 00:31 1 0.10 0.01 Bay_4
84T 1W 90T 2W
08/17/1999 00:41 1 0.17 0.00 Bay_4
84T 2W
08/17/1999 00:51 1 0.15 0.00 Bay_4
84T 2W
08/17/1999 01:01 1 0.16 0.02 Bay_4
84T 2W 90T 2W
08/17/1999 01:11 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 01:21 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 01:31 1 0.00 0.00 Bay_4
08/17/1999 01:41 1 0.11 0.01 Bay_4
84T 2W 91T 1W
08/17/1999 01:51 1 0.13 0.01 Bay_4
83T 2W 92T 1W
08/17/1999 02:01 1 0.12 0.01 Bay_4
84T 2W 91T 2W
08/17/1999 02:11 1 0.00 0.01 Bay_4
90T 1W
08/17/1999 02:21 1 0.20 0.00 Bay_4
84T 2W
08/17/1999 02:31 1 0.17 0.01 Bay_4
85T 2W 91T 2W
08/17/1999 02:41 1 0.18 0.01 Bay_4
83T 2W 90T 2W

08/17/1999 03:01 1 0.11 0.01 Bay_4
84T 1W 89T 2W
08/17/1999 03:11 1 0.13 0.00 Bay_4
84T 1W
08/17/1999 03:21 1 0.17 0.00 Bay_4
84T 2W
08/17/1999 03:31 1 0.16 0.01 Bay_4
84T 3W 90T 1W
08/17/1999 03:41 1 0.14 0.01 Bay_4
84T 2W 89T 2W
08/17/1999 03:51 1 0.00 0.01 Bay_4
90T 1W
08/17/1999 04:01 1 0.13 0.01 Bay_4
84T 1W 90T 2W
08/17/1999 04:11 1 0.10 0.00 Bay_4
84T 2W
08/17/1999 04:21 1 0.13 0.01 Bay_4
84T 1W 90T 2W
08/17/1999 04:31 1 0.27 0.00 Bay_4
85T 2W
08/17/1999 04:41 1 0.17 0.01 Bay_4
85T 3W 90T 2W
08/17/1999 04:51 1 0.13 0.00 Bay_4
85T 2W

Monitor Serial Number 1360 Date 08/17/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/17/1999 05:01 1 0.16 0.01 Bay_4
84T 2W 92T 2W
08/17/1999 05:11 1 0.14 0.00 Bay_4
84T 2W
08/17/1999 05:21 1 0.00 0.00 Bay_4
08/17/1999 05:31 1 0.00 0.00 Bay_4
08/17/1999 05:41 1 0.00 0.01 Bay_4
90T 1W
08/17/1999 05:51 1 0.00 0.00 Bay_4
08/17/1999 06:01 1 0.00 0.00 Bay_4
08/17/1999 06:11 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 06:21 1 0.13 0.01 Bay_4
84T 1W 90T 1W
08/17/1999 06:31 1 0.12 0.01 Bay_4
84T 1W 90T 2W
08/17/1999 06:41 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 06:51 1 0.12 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 07:01 1 0.10 0.00 Bay_4
84T 2W
08/17/1999 07:11 1 0.12 0.00 Bay_4
84T 2W
08/17/1999 07:21 1 0.17 0.01 Bay_4
84T 2W 89T 1W
08/17/1999 07:31 1 0.16 0.00 Bay_4
85T 2W
08/17/1999 07:41 1 0.12 0.00 Bay_4
84T 1W
08/17/1999 07:51 1 0.12 0.00 Bay_4
84T 2W
08/17/1999 08:01 1 0.00 0.00 Bay_4
08/17/1999 08:11 1 0.00 0.01 Bay_4

90T 2W
08/17/1999 08:31 1 0.97 0.85 Bay_4 CHE
84T 2W 90T 2W
08/17/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:34

S/N 1360 STATION 4

SOFTWARE: Version 02181999

TEMPERATURES, xC:	Ambient	s 40	a 35	q 15
	Inlet	s 50	a 52	q 15
	FPD Block	s150	a153	q 15
	FPD Flame	s225	a208	q 99
	Column		a 41	
	Column, low	s 40	a 40	q 15
	Column, high	s180	a175	q 15
	Column rate, xC/min	s150	a149	q 20
	Column rate 2	s 0	a 0	q 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	q 20
	PCT heater, high	s235	a235	q 30
PRESSURES, psi:	Air	s 35	a 35	q 5
	Helium	s 40	a42.1	q 5
	Hydrogen	s 35	a 35	q 5
SAMPLE:	Flow rate, ccm	s 450	a 456	q 99
	Average flow rate		a 455	
	Volume, L		a3.65	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1100	a1099	q 50
ELECTROMETER:	FPD signal, nA	107	FPD zero, nA	153

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.97C	113H*	255A	83.7T	1.9W	b 81	e 87
GB	1 FPD	0.85C	2207H*	4580A	89.8T	1.8W	b 87	e 93

CALIBRATION DATA:

VX 1 @	1.00 FPD	116H*	238A	83.7T	1.7W	08/13/1999	15:47
GB 1 @	1.00 FPD	2610H*	5126A	90.1T	1.6W	08/13/1999	15:47

SAMPLING SEQUENCE:

A01 Bay_4

ELAPSED TIME ********** 271 sec

Monitor Serial Number 1360 Date 08/17/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/17/1999	08:41	1	0.29	0.03	Bay_4	
	84T 2W	90T 2W				
08/17/1999	08:51	1	0.20	0.01	Bay_4	
	84T 2W	90T 2W				

08/17/1999 09:11 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 09:21 1 0.18 0.00 Bay_4
84T 2W
08/17/1999 09:31 1 0.00 0.00 Bay_4
08/17/1999 09:41 1 0.20 0.00 Bay_4
84T 3W
08/17/1999 09:51 1 0.22 0.01 Bay_4
83T 3W 90T 2W
08/17/1999 10:01 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 10:11 1 0.12 0.00 Bay_4
84T 2W
08/17/1999 10:21 1 0.25 0.00 Bay_4
84T 2W
08/17/1999 10:31 1 0.34 0.00 Bay_4
84T 2W
08/17/1999 10:41 1 0.18 0.01 Bay_4
84T 2W 90T 1W
08/17/1999 10:51 1 0.22 0.01 Bay_4
84T 2W 89T 2W
08/17/1999 11:01 1 0.26 0.01 Bay_4
83T 2W 90T 2W
08/17/1999 11:11 1 0.15 0.00 Bay_4
84T 2W
08/17/1999 11:21 1 0.18 0.01 Bay_4
85T 2W 90T 1W
08/17/1999 11:31 1 0.18 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 11:41 1 0.21 0.01 Bay_4
84T 2W 90T 1W
08/17/1999 11:51 1 0.22 0.00 Bay_4
83T 2W
08/17/1999 12:01 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 12:11 1 0.33 0.01 Bay_4
84T 2W 90T 1W
08/17/1999 12:21 1 0.30 0.01 Bay_4
84T 2W 90T 1W
08/17/1999 12:31 1 0.20 0.01 Bay_4
84T 2W 91T 2W
08/17/1999 12:41 1 0.23 0.00 Bay_4
85T 2W
08/17/1999 12:51 1 0.32 0.01 Bay_4
84T 2W 90T 1W
08/17/1999 13:01 1 0.26 0.00 Bay_4
85T 2W
08/17/1999 13:11 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 13:21 1 0.22 0.01 Bay_4
83T 2W 90T 2W
08/17/1999 13:31 1 0.00 0.00 Bay_4
08/17/1999 13:41 1 0.00 0.01 Bay_4
90T 1W

Monitor Serial Number 1360 Date 08/17/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/17/1999 13:51 1 0.27 0.01 Bay_4
84T 2W 89T 2W
08/17/1999 14:01 1 0.00 0.00 Bay_4
08/17/1999 14:11 1 0.24 0.01 Bay_4

90T 2W
08/17/1999 14:31 1 0.00 0.00 Bay_4
08/17/1999 14:41 1 0.25 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 14:51 1 0.16 0.00 Bay_4
84T 2W
08/17/1999 15:01 1 0.20 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 15:11 1 0.27 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 15:21 1 0.20 0.01 Bay_4
85T 2W 90T 2W
08/17/1999 15:31 1 0.19 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 15:41 1 0.26 0.01 Bay_4
83T 2W 90T 1W
08/17/1999 15:51 1 0.24 0.00 Bay_4
84T 2W
08/17/1999 16:01 1 0.25 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 16:11 1 0.30 0.00 Bay_4
84T 2W
08/17/1999 16:21 1 0.21 0.00 Bay_4
84T 2W
08/17/1999 16:31 1 0.31 0.01 Bay_4
85T 2W 91T 2W
08/17/1999 16:41 1 0.25 0.01 Bay_4
84T 2W 91T 2W
08/17/1999 16:51 1 0.30 0.00 Bay_4
84T 2W
08/17/1999 17:01 1 0.19 0.00 Bay_4
84T 2W
08/17/1999 17:11 1 0.26 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 17:21 1 0.24 0.01 Bay_4
84T 2W 93T 2W
08/17/1999 17:31 1 0.25 0.01 Bay_4
84T 2W 91T 2W
08/17/1999 17:41 1 0.27 0.00 Bay_4
84T 2W
08/17/1999 17:51 1 0.23 0.00 Bay_4
84T 2W
08/17/1999 18:01 1 0.27 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 18:11 1 0.15 0.00 Bay_4
84T 2W
08/17/1999 18:21 1 0.25 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 18:31 1 0.23 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 18:41 1 0.28 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 18:51 1 0.23 0.01 Bay_4
85T 2W 90T 2W

Monitor Serial Number 1360 Date 08/17/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/17/1999 19:01 1 0.00 0.01 Bay_4
91T 2W
08/17/1999 19:11 1 0.21 0.00 Bay_4
84T 2W

08/17/1999 19:31 1 0.00 0.01 Bay_4
89T 2W
08/17/1999 19:41 1 0.22 0.01 Bay_4
84T 2W 91T 1W
08/17/1999 19:51 1 0.19 0.00 Bay_4
84T 2W
08/17/1999 20:01 1 0.23 0.00 Bay_4
84T 2W
08/17/1999 20:11 1 0.22 0.01 Bay_4
84T 2W 91T 2W
08/17/1999 20:21 1 0.27 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 20:31 1 0.16 0.00 Bay_4
84T 2W
08/17/1999 20:41 1 0.00 0.01 Bay_4
90T 1W
08/17/1999 20:51 1 0.21 0.00 Bay_4
84T 2W
08/17/1999 21:01 1 0.20 0.00 Bay_4
84T 2W
08/17/1999 21:11 1 0.14 0.00 Bay_4
84T 2W
08/17/1999 21:21 1 0.18 0.00 Bay_4
84T 2W
08/17/1999 21:31 1 0.17 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 21:41 1 0.12 0.01 Bay_4
84T 1W 90T 2W
08/17/1999 21:51 1 0.17 0.00 Bay_4
84T 2W
08/17/1999 22:01 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 22:11 1 0.16 0.00 Bay_4
84T 2W
08/17/1999 22:21 1 0.13 0.00 Bay_4
84T 1W
08/17/1999 22:31 1 0.15 0.01 Bay_4
84T 2W 90T 2W
08/17/1999 22:41 1 0.12 0.00 Bay_4
84T 2W
08/17/1999 22:51 1 0.00 0.01 Bay_4
90T 2W
08/17/1999 23:01 1 0.16 0.00 Bay_4
84T 2W
08/17/1999 23:11 1 0.18 0.00 Bay_4
85T 2W
08/17/1999 23:21 1 0.10 0.00 Bay_4
85T 2W
08/17/1999 23:31 1 0.00 0.01 Bay_4
93T 2W
08/17/1999 23:41 1 0.16 0.00 Bay_4
84T 2W
08/17/1999 23:51 1 0.00 0.00 Bay_4

Monitor Serial Number 1360 Date 08/18/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/18/1999 00:01 1 0.17 0.00 Bay_4
84T 2W
08/18/1999 00:11 1 0.22 0.00 Bay_4
84T 2W
08/18/1999 00:21 1 0.15 0.00 Bay_4

84T 3W
08/18/1999 00:41 1 0.00 0.00 Bay_4
08/18/1999 00:51 1 0.19 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 01:01 1 0.15 0.00 Bay_4
84T 2W
08/18/1999 01:11 1 0.13 0.00 Bay_4
84T 2W
08/18/1999 01:21 1 0.11 0.00 Bay_4
84T 2W
08/18/1999 01:31 1 0.18 0.00 Bay_4
83T 2W
08/18/1999 01:41 1 0.15 0.00 Bay_4
83T 2W
08/18/1999 01:51 1 0.14 0.00 Bay_4
85T 2W
08/18/1999 02:01 1 0.00 0.00 Bay_4
08/18/1999 02:11 1 0.11 0.00 Bay_4
84T 2W
08/18/1999 02:21 1 0.19 0.00 Bay_4
84T 3W
08/18/1999 02:31 1 0.12 0.00 Bay_4
84T 2W
08/18/1999 02:41 1 0.16 0.00 Bay_4
84T 2W
08/18/1999 02:51 1 0.11 0.00 Bay_4
85T 2W
08/18/1999 03:01 1 0.14 0.00 Bay_4
84T 2W
08/18/1999 03:11 1 0.15 0.01 Bay_4
84T 2W 91T 2W
08/18/1999 03:21 1 0.18 0.00 Bay_4
83T 2W
08/18/1999 03:31 1 0.18 0.00 Bay_4
85T 1W
08/18/1999 03:41 1 0.18 0.00 Bay_4
83T 2W
08/18/1999 03:51 1 0.16 0.00 Bay_4
84T 2W
08/18/1999 04:01 1 0.00 0.00 Bay_4
08/18/1999 04:11 1 0.17 0.00 Bay_4
84T 2W
08/18/1999 04:21 1 0.00 0.00 Bay_4
08/18/1999 04:31 1 0.00 0.00 Bay_4
08/18/1999 04:41 1 0.12 0.00 Bay_4
85T 1W
08/18/1999 04:51 1 0.19 0.00 Bay_4
84T 2W
08/18/1999 05:01 1 0.18 0.00 Bay_4
84T 3W
08/18/1999 05:11 1 0.18 0.00 Bay_4
85T 2W

Monitor Serial Number 1380 Date 08/18/1999 Sampling Station 4

Date Time Port VX SB TWA8

08/18/1999 05:21 1 0.11 0.00 Bay_4
84T 2W
08/18/1999 05:31 1 0.18 0.00 Bay_4
84T 2W
08/18/1999 05:41 1 0.12 0.00 Bay_4
84T 2W

```
08/18/1999 06:01  1   0.15    0.00  Bay_4
          84T 2W
08/18/1999 06:11  1   0.15    0.00  Bay_4
          85T 2W
08/18/1999 06:21  1   0.15    0.00  Bay_4
          84T 2W
08/18/1999 06:31  1   0.16    0.00  Bay_4
          84T 2W
08/18/1999 06:41  1   0.16    0.00  Bay_4
          84T 1W
08/18/1999 06:51  1   0.11    0.00  Bay_4
          85T 2W
08/18/1999 07:01  1   0.18    0.00  Bay_4
          84T 2W
08/18/1999 07:11  1   0.20    0.00  Bay_4
          84T 2W
08/18/1999 07:21  1   0.17    0.01  Bay_4
          84T 2W  90T 2W
08/18/1999 07:31  1   0.00    0.00  Bay_4
08/18/1999 07:41  1   0.05    0.00  Bay_4
          86T 2W
08/18/1999 07:51  1   0.00    0.00  Bay_4
08/18/1999 08:01  1   0.00    0.00  Bay_4
08/18/1999 08:11  1   0.00    0.00  Bay_4
08/18/1999 08:21  1   0.00    0.00  Bay_4
08/18/1999 08:31  1   0.07    0.00  Bay_4
          85T 1W
08/18/1999 08:41  1   0.00    0.00  Bay_4
08/18/1999 08:51  1   1.01    0.93  Bay_4                                  CAL
          84T 2W  90T 2W
CALIBRATION  VX      6B
AVERAGE    118H   2429H
08/18/1999 09:01  1   1.90    2.04  Bay_4                                  CHE
          84T 2W  90T 2W
08/18/1999 09:11  1   1.02    1.08  Bay_4                                  CHE
          83T 2W  89T 2W
08/18/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:12

S/N 1360            ALARM                                STATION    4

SOFTWARE:                                              Version 02181999

TEMPERATURES, xC:   Ambient              s 40        a 34        d 15
                    Inlet                s 50        a 51        d 15
                    FPD Block            s150        a152        d 15
                    FPD Flame            s225        a207        d 99
                    Column                           a 57
                    Column, low          s 40        a 40        d 15
                    Column, high         s180        a178        d 15
                    Column rate, xC/min  s150        a149        d 20
                    Column rate 2        s  0        a  0        d 20
                    PCT heater                       a 51
                    PCT heater, low      s 50        a 51        d 20
                    PCT heater, high     s235        a234        d 30

PRESSURES, psi:     Air                  s 35        a 35        d  5
                    Helium               s 40        a41.9       d  5
                    Hydrogen             s 35        a 35        d  5

SAMPLE:             Flow rate, ccm      s 450        a 448       d 99
                    Average flow rate                a 455
                    Volume, L                        a3.84

TIMES, sec:         Purge          b  0    a120   Sample   b120    a600
```

DC
AB

FPD zero On

VOLTAGE, VDC: FPD photomultiplier s1100 a1099 q 50

ELECTROMETER: FPD signal, nA 85 FPD zero, nA 167

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.02C	120H*	280A	83.3T	2.1W	b 81	e 87
GB	1 FPD	1.08C	2617H*	5725A	89.4T	1.8W	b 87	e 93

CALIBRATION DATA:

VX 1 @	1.00 FPD	118H*	273A	83.7T	1.9W	08/18/1999	08:51
GB 1 @	1.00 FPD	2429H*	5076A	89.8T	1.8W	08/18/1999	08:51

SAMPLING SEQUENCE:

A01 Bay_4

ELAPSED TIME ********** 185 sec

Monitor Serial Number 1360 Date 08/18/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/18/1999	09:21	1	0.41	0.05	Bay_4	
	84T 2W	90T 2W				
08/18/1999	09:31	1	0.25	0.02	Bay_4	
	85T 2W	91T 2W				
08/18/1999	09:41	1	0.21	0.01	Bay_4	
	84T 3W	90T 2W				
08/18/1999	09:51	1	0.15	0.01	Bay_4	
	85T 2W	91T 2W				
08/18/1999	10:01	1	0.18	0.01	Bay_4	
	84T 1W	90T 2W				
08/18/1999	10:11	1	0.18	0.01	Bay_4	
	84T 2W	91T 2W				
08/18/1999	10:21	1	0.32	0.01	Bay_4	
	84T 2W	90T 2W				
08/18/1999	10:31	1	0.20	0.01	Bay_4	
	84T 2W	90T 1W				
08/18/1999	10:41	1	0.19	0.01	Bay_4	
	84T 2W	91T 2W				
08/18/1999	10:51	1	0.24	0.02	Bay_4	
	84T 2W	91T 2W				
08/18/1999	11:01	1	0.18	0.01	Bay_4	
	84T 2W	91T 1W				
08/18/1999	11:11	1	0.19	0.01	Bay_4	
	84T 2W	90T 2W				
08/18/1999	11:21	1	0.00	0.00	Bay_4	
08/18/1999	11:31	1	0.23	0.00	Bay_4	
	84T 2W					
08/18/1999	11:41	1	0.20	0.00	Bay_4	
	85T 2W					
08/18/1999	11:51	1	0.28	0.00	Bay_4	
	84T 2W					
08/18/1999	12:01	1	0.21	0.01	Bay_4	
	84T 2W	92T 1W				
08/18/1999	12:11	1	0.21	0.02	Bay_4	
	84T 2W	90T 2W				
08/18/1999	12:21	1	0.29	0.01	Bay_4	
	83T 3W	89T 3W				

08/18/1999 12:41 1 0.26 0.00 Bay_4
84T 2W
08/18/1999 12:51 1 0.25 0.00 Bay_4
84T 2W
08/18/1999 13:01 1 0.24 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 13:11 1 0.21 0.01 Bay_4
85T 2W 91T 1W
08/18/1999 13:21 1 0.24 0.01 Bay_4
83T 2W 92T 3W
08/18/1999 13:31 1 0.22 0.01 Bay_4
84T 2W 90T 1W
08/18/1999 13:41 1 0.27 0.01 Bay_4
84T 2W 90T 1W
08/18/1999 13:51 1 0.29 0.01 Bay_4
84T 2W 90T 1W
08/18/1999 14:01 1 0.26 0.01 Bay_4
84T 3W 90T 3W
08/18/1999 14:11 1 0.28 0.01 Bay_4
84T 2W 90T 1W

Monitor Serial Number 1380 Date 08/18/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/18/1999 14:21 1 0.29 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 14:31 1 0.29 0.00 Bay_4
84T 2W
08/18/1999 14:41 1 0.26 0.01 Bay_4
84T 2W 90T 1W
08/18/1999 14:51 1 0.31 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 15:01 1 0.27 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 15:11 1 0.31 0.01 Bay_4
85T 2W 91T 2W
08/18/1999 15:21 1 0.35 0.01 Bay_4
84T 2W 90T 1W
08/18/1999 15:31 1 0.32 0.01 Bay_4
84T 2W 90T 1W
08/18/1999 15:41 1 0.32 0.01 Bay_4
85T 2W 90T 1W
08/18/1999 15:51 1 0.29 0.01 Bay_4
84T 2W 89T 2W
08/18/1999 16:01 1 0.32 0.00 Bay_4
84T 2W
08/18/1999 16:11 1 0.28 0.00 Bay_4
85T 2W
08/18/1999 16:21 1 0.25 0.00 Bay_4
84T 2W
08/18/1999 16:31 1 0.26 0.02 Bay_4
84T 2W 90T 2W
08/18/1999 16:41 1 0.00 0.01 Bay_4
90T 2W
08/18/1999 16:51 1 0.34 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 17:01 1 0.26 0.00 Bay_4
84T 2W
08/18/1999 17:11 1 0.29 0.01 Bay_4
83T 2W 90T 2W
08/18/1999 17:21 1 0.24 0.01 Bay_4
84T 2W 90T 1W

08/18/1999 17:41 1 0.23 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 17:51 1 0.27 0.01 Bay_4
84T 3W 91T 1W
08/18/1999 18:01 1 0.22 0.00 Bay_4
84T 2W
08/18/1999 18:11 1 0.34 0.01 Bay_4
84T 2W 90T 3W
08/18/1999 18:21 1 0.30 0.01 Bay_4
83T 2W 90T 2W
08/18/1999 18:31 1 0.28 0.01 Bay_4
84T 2W 91T 2W
08/18/1999 18:41 1 0.25 0.01 Bay_4
84T 3W 92T 2W
08/18/1999 18:51 1 0.24 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 19:01 1 0.23 0.00 Bay_4
84T 2W
08/18/1999 19:11 1 0.27 0.01 Bay_4
84T 2W 90T 2W

Monitor Serial Number 1360 Date 08/18/1999 Sampling Station 4

Date	Time	Port	VX	SB		TWAG
08/18/1999	19:21	1	0.21	0.00	Bay_4	
	84T 2W					
08/18/1999	19:31	1	0.35	0.00	Bay_4	
	84T 2W					
08/18/1999	19:41	1	0.27	0.00	Bay_4	
	84T 2W					
08/18/1999	19:51	1	0.25	0.01	Bay_4	
	84T 2W	90T 2W				
08/18/1999	20:01	1	0.23	0.01	Bay_4	
	84T 2W	90T 2W				
08/18/1999	20:11	1	0.20	0.01	Bay_4	
	84T 2W	90T 2W				
08/18/1999	20:21	1	0.19	0.01	Bay_4	
	84T 2W	90T 2W				
08/18/1999	20:31	1	0.20	0.00	Bay_4	
	84T 3W					
08/18/1999	20:41	1	0.18	0.01	Bay_4	
	84T 2W	91T 2W				
08/18/1999	20:51	1	0.22	0.01	Bay_4	
	84T 2W	90T 2W				
08/18/1999	21:01	1	0.15	0.00	Bay_4	
	84T 2W					
08/18/1999	21:11	1	0.23	0.01	Bay_4	
	85T 3W	91T 2W				
08/18/1999	21:21	1	0.21	0.00	Bay_4	
	84T 2W					
08/18/1999	21:31	1	0.19	0.00	Bay_4	
	84T 2W					
08/18/1999	21:41	1	0.23	0.00	Bay_4	
	84T 2W					
08/18/1999	21:51	1	0.23	0.00	Bay_4	
	85T 2W					
08/18/1999	22:01	1	0.18	0.01	Bay_4	
	85T 2W	91T 2W				
08/18/1999	22:11	1	0.17	0.00	Bay_4	
	85T 2W					
08/18/1999	22:21	1	0.18	0.00	Bay_4	
	84T 2W					

08/18/1999 22:41 1 0.16 0.01 Bay_4
84T 2W 90T 2W
08/18/1999 22:51 1 0.17 0.00 Bay_4
84T 2W
08/18/1999 23:01 1 0.17 0.01 Bay_4
83T 2W 89T 2W
08/18/1999 23:11 1 0.17 0.00 Bay_4
85T 2W
08/18/1999 23:21 1 0.17 0.00 Bay_4
84T 2W
08/18/1999 23:31 1 0.15 0.00 Bay_4
84T 2W
08/18/1999 23:41 1 0.14 0.00 Bay_4
84T 2W
08/18/1999 23:51 1 0.19 0.00 Bay_4
84T 2W
08/19/1999 00:01 1 0.29 0.00 Bay_4
84T 2W
08/19/1999 00:11 1 0.14 0.01 Bay_4
84T 2W 90T 3W

Monitor Serial Number 1380 Date 08/19/1999 Sampling Station 4

Date	Time	Port	VX	GB		TWAG
08/19/1999	00:21	1	0.15	0.00	Bay_4	
	84T 2W					
08/19/1999	00:31	1	0.16	0.00	Bay_4	
	85T 3W					
08/19/1999	00:41	1	0.13	0.01	Bay_4	
	84T 2W	91T 2W				
08/19/1999	00:51	1	0.18	0.00	Bay_4	
	84T 3W					
08/19/1999	01:01	1	0.17	0.01	Bay_4	
	85T 2W	90T 2W				
08/19/1999	01:11	1	0.20	0.00	Bay_4	
	84T 2W					
08/19/1999	01:21	1	0.16	0.00	Bay_4	
	84T 2W					
08/19/1999	01:31	1	0.15	0.00	Bay_4	
	83T 2W					
08/19/1999	01:41	1	0.14	0.01	Bay_4	
	83T 2W	90T 2W				
08/19/1999	01:51	1	0.16	0.01	Bay_4	
	84T 2W	90T 2W				
08/19/1999	02:01	1	0.17	0.01	Bay_4	
	84T 2W	88T 1W				
08/19/1999	02:11	1	0.20	0.00	Bay_4	
	84T 3W					
08/19/1999	02:21	1	0.12	0.00	Bay_4	
	84T 2W					
08/19/1999	02:31	1	0.17	0.00	Bay_4	
	84T 2W					
08/19/1999	02:41	1	0.19	0.01	Bay_4	
	84T 2W	90T 2W				
08/19/1999	02:51	1	0.20	0.00	Bay_4	
	84T 2W					
08/19/1999	03:01	1	0.15	0.00	Bay_4	
	84T 2W					
08/19/1999	03:11	1	0.19	0.00	Bay_4	
	84T 3W					
08/19/1999	03:21	1	0.19	0.00	Bay_4	
	84T 2W					

08/19/1999 03:41 1 0.14 0.00 Bay_4
84T 2W
08/19/1999 03:51 1 0.12 0.00 Bay_4
84T 2W
08/19/1999 04:01 1 0.11 0.01 Bay_4
85T 2W 92T 1W
08/19/1999 04:11 1 0.14 0.00 Bay_4
84T 2W
08/19/1999 04:21 1 0.11 0.00 Bay_4
84T 2W
08/19/1999 04:31 1 0.18 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 04:41 1 0.17 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 04:51 1 0.12 0.00 Bay_4
85T 2W
08/19/1999 05:01 1 0.14 0.00 Bay_4
84T 3W
08/19/1999 05:11 1 0.14 0.01 Bay_4
85T 2W 90T 2W

Monitor Serial Number 1380 Date 08/19/1999 Sampling Station 4

Date Time Port VX GB TWAG

08/19/1999 05:21 1 0.17 0.00 Bay_4
84T 2W
08/19/1999 05:31 1 0.12 0.00 Bay_4
84T 2W
08/19/1999 05:41 1 0.13 0.00 Bay_4
85T 2W
08/19/1999 05:51 1 0.16 0.00 Bay_4
84T 3W
08/19/1999 06:01 1 0.11 0.00 Bay_4
85T 2W
08/19/1999 06:11 1 0.10 0.00 Bay_4
84T 1W
08/19/1999 06:21 1 0.11 0.00 Bay_4
85T 2W
08/19/1999 06:31 1 0.13 0.00 Bay_4
84T 2W
08/19/1999 06:41 1 0.11 0.00 Bay_4
84T 3W
08/19/1999 06:51 1 0.15 0.00 Bay_4
84T 2W
08/19/1999 07:01 1 0.16 0.00 Bay_4
84T 2W
08/19/1999 07:11 1 0.14 0.00 Bay_4
84T 2W
08/19/1999 07:21 1 0.16 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 07:31 1 0.13 0.00 Bay_4
85T 2W
08/19/1999 07:41 1 0.14 0.00 Bay_4
85T 3W
08/19/1999 07:51 1 0.91 0.93 Bay_4 CHE
84T 2W 90T 2W
08/19/1999 ********** MINICAMS OPERATING PARAMETERS ********** 07:52

S/N 1380 STATION 4

SOFTWARE: Version 02181999

	FPD Block	s150	a151	g 15
	FPD Flame	s225	a206	g 99
	Column		a 66	
	Column, low	s 40	a 40	g 15
	Column, high	s180	a179	g 15
	Column rate, xC/min	s150	a150	g 20
	Column rate 2	s 0	a 0	g 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	g 20
	PCT heater, high	s235	a235	g 30
PRESSURES, psi:	Air	s 35	a 35	g 5
	Helium	s 40	a41.4	g 5
	Hydrogen	s 35	a 35	g 5
SAMPLE:	Flow rate, ccm	s 450	a 458	g 99
	Average flow rate		a 441	
	Volume, L		a3.53	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1100	a1104	g 50
ELECTROMETER:	FPD signal, nA	87	FPD zero, nA	153

CONCENTRATION REPORTS: Alarm setpoint, TWA6 1.00

VX	1 FPD	0.91C	107H*	250A	83.6T	2.0W	b 81	e 87
6B	1 FPD	0.93C	2262H*	4832A	89.7T	1.8W	b 87	e 93

CALIBRATION DATA:

VX 1 @	1.00 FPD	118H*	273A	83.7T	1.9W	08/18/1999	08:51
6B 1 @	1.00 FPD	2429H*	5076A	89.8T	1.8W	08/18/1999	08:51

SAMPLING SEQUENCE:

A01 Bay_4

ELAPSED TIME ********** 168 sec

Monitor Serial Number 1360 Date 08/19/1999 Sampling Station 4

Date	Time	Port	VX	6B		TWA6
08/19/1999	08:01	1	0.27	0.06	Bay_4	
	84T 2W	90T 2W				
08/19/1999	08:11	1	0.16	0.01	Bay_4	
	84T 3W	90T 2W				
08/19/1999	08:21	1	0.16	0.01	Bay_4	
	84T 2W	90T 2W				
08/19/1999	08:31	1	0.20	0.01	Bay_4	
	85T 2W	91T 1W				
08/19/1999	08:41	1	0.20	0.01	Bay_4	
	84T 2W	90T 1W				
08/19/1999	08:51	1	0.19	0.00	Bay_4	
	84T 2W					
08/19/1999	09:01	1	0.26	0.01	Bay_4	
	84T 2W	90T 3W				
08/19/1999	09:11	1	0.22	0.01	Bay_4	

84T 2W
08/19/1999 09:31 1 0.19 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 09:41 1 0.20 0.01 Bay_4
84T 2W 91T 2W
08/19/1999 09:51 1 0.19 0.00 Bay_4
84T 2W
08/19/1999 10:01 1 0.22 0.00 Bay_4
84T 2W
08/19/1999 10:11 1 0.24 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 10:21 1 0.23 0.01 Bay_4
83T 2W 89T 2W
08/19/1999 10:31 1 0.17 0.00 Bay_4
84T 2W
08/19/1999 10:41 1 0.25 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 10:51 1 0.22 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 11:01 1 0.25 0.01 Bay_4
84T 1W 89T 2W
08/19/1999 11:11 1 0.24 0.01 Bay_4
84T 3W 90T 3W
08/19/1999 11:21 1 0.25 0.01 Bay_4
84T 2W 90T 3W
08/19/1999 11:31 1 0.18 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 11:41 1 0.23 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 11:51 1 0.25 0.00 Bay_4
84T 2W
08/19/1999 12:01 1 0.30 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 12:11 1 0.24 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 12:21 1 0.28 0.01 Bay_4
84T 2W 90T 3W
08/19/1999 12:31 1 0.28 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 12:41 1 0.19 0.01 Bay_4
84T 2W 91T 2W
08/19/1999 12:51 1 0.29 0.00 Bay_4
84T 2W

Monitor Serial Number 1360 Date 08/19/1999 Sampling Station 4

Date Time Port VX SB TWAG

08/19/1999 13:01 1 0.29 0.01 Bay_4
84T 2W 91T 2W
08/19/1999 13:11 1 0.29 0.00 Bay_4
84T 2W
08/19/1999 13:21 1 0.28 0.00 Bay_4
84T 2W
08/19/1999 13:31 1 0.25 0.01 Bay_4
84T 2W 90T 3W
08/19/1999 13:41 1 0.34 0.01 Bay_4
84T 2W 91T 3W
08/19/1999 13:51 1 0.29 0.01 Bay_4
85T 2W 91T 2W
08/19/1999 14:01 1 0.27 0.01 Bay_4
83T 2W 90T 1W
08/19/1999 14:11 1 0.27 0.00 Bay_4

84T 2W
08/19/1999 14:31 1 0.30 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 14:41 1 0.26 0.01 Bay_4
84T 2W 89T 3W
08/19/1999 14:51 1 0.31 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 15:01 1 0.23 0.00 Bay_4
84T 2W
08/19/1999 15:11 1 0.25 0.01 Bay_4
84T 2W 89T 3W
08/19/1999 15:21 1 0.28 0.00 Bay_4
84T 2W
08/19/1999 15:31 1 0.28 0.00 Bay_4
84T 2W
08/19/1999 15:41 1 0.27 0.01 Bay_4
83T 2W 93T 2W
08/19/1999 15:51 1 0.29 0.01 Bay_4
84T 2W 89T 2W
08/19/1999 16:01 1 0.32 0.00 Bay_4
84T 2W
08/19/1999 16:11 1 0.00 0.00 Bay_4
08/19/1999 16:21 1 0.28 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 16:31 1 0.29 0.00 Bay_4
84T 2W
08/19/1999 16:41 1 0.25 0.01 Bay_4
84T 2W 90T 3W
08/19/1999 16:51 1 0.28 0.00 Bay_4
84T 3W
08/19/1999 17:01 1 0.20 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 17:11 1 0.25 0.01 Bay_4
84T 3W 91T 1W
08/19/1999 17:21 1 0.27 0.00 Bay_4
84T 2W
08/19/1999 17:31 1 0.23 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 17:41 1 0.00 0.00 Bay_4
08/19/1999 17:51 1 0.25 0.01 Bay_4
85T 2W 90T 2W
08/19/1999 18:01 1 0.24 0.01 Bay_4
84T 2W 90T 2W

Monitor Serial Number 1360 Date 08/19/1999 Sampling Station 4

Date Time Port VX SB TWAS

08/19/1999 18:11 1 0.25 0.00 Bay_4
84T 2W
08/19/1999 18:21 1 0.19 0.00 Bay_4
85T 2W
08/19/1999 18:31 1 0.27 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 18:41 1 0.26 0.01 Bay_4
84T 2W 90T 1W
08/19/1999 18:51 1 0.18 0.01 Bay_4
84T 2W 89T 2W
08/19/1999 19:01 1 0.26 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 19:11 1 0.23 0.00 Bay_4
84T 2W
08/19/1999 19:21 1 0.25 0.00 Bay_4

84T 2W
08/19/1999 19:41 1 0.23 0.00 Bay_4
84T 2W
08/19/1999 19:51 1 0.24 0.01 Bay_4
84T 3W 90T 1W
08/19/1999 20:01 1 0.18 0.00 Bay_4
84T 3W
08/19/1999 20:11 1 0.21 0.01 Bay_4
85T 3W 90T 1W
08/19/1999 20:21 1 0.19 0.00 Bay_4
84T 2W
08/19/1999 20:31 1 0.18 0.00 Bay_4
84T 2W
08/19/1999 20:41 1 0.21 0.01 Bay_4
84T 1W 90T 1W
08/19/1999 20:51 1 0.19 0.00 Bay_4
84T 2W
08/19/1999 21:01 1 0.22 0.00 Bay_4
84T 2W
08/19/1999 21:11 1 0.22 0.00 Bay_4
85T 2W
08/19/1999 21:21 1 0.16 0.01 Bay_4
84T 1W 90T 2W
08/19/1999 21:31 1 0.10 0.01 Bay_4
84T 2W 92T 2W
08/19/1999 21:41 1 0.19 0.01 Bay_4
84T 3W 91T 2W
08/19/1999 21:51 1 0.18 0.00 Bay_4
83T 2W
08/19/1999 22:01 1 0.11 0.01 Bay_4
84T 2W 90T 2W
08/19/1999 22:11 1 0.16 0.01 Bay_4
84T 2W 91T 1W
08/19/1999 22:21 1 0.16 0.00 Bay_4
84T 3W
08/19/1999 22:31 1 0.16 0.00 Bay_4
84T 2W
08/19/1999 22:41 1 0.20 0.00 Bay_4
84T 2W
08/19/1999 22:51 1 0.16 0.01 Bay_4
84T 2W 90T 3W
08/19/1999 23:01 1 0.20 0.00 Bay_4
85T 2W

Monitor Serial Number 1360 Date 08/19/1999 Sampling Station 4

Date Time Port VX 68 TWAG

08/19/1999 23:11 1 0.16 0.00 Bay_4
84T 2W
08/19/1999 23:21 1 0.17 0.01 Bay_4
85T 2W 91T 2W
08/19/1999 23:31 1 0.14 0.00 Bay_4
85T 3W
08/19/1999 23:41 1 0.18 0.00 Bay_4
85T 2W
08/19/1999 23:51 1 0.13 0.00 Bay_4
85T 2W
08/20/1999 00:01 1 0.16 0.00 Bay_4
84T 2W
08/20/1999 00:11 1 0.10 0.00 Bay_4
84T 2W
08/20/1999 00:21 1 0.15 0.01 Bay_4

84T 2W 90T 2W
08/20/1999 00:41 1 0.18 0.00 Bay_4
84T 1W
08/20/1999 00:51 1 0.17 0.00 Bay_4
84T 2W
08/20/1999 01:01 1 0.17 0.01 Bay_4
84T 2W 90T 2W
08/20/1999 01:11 1 0.17 0.00 Bay_4
84T 2W
08/20/1999 01:21 1 0.13 0.00 Bay_4
84T 2W
08/20/1999 01:31 1 0.18 0.00 Bay_4
84T 2W
08/20/1999 01:41 1 0.13 0.00 Bay_4
84T 1W
08/20/1999 01:51 1 0.18 0.00 Bay_4
84T 1W
08/20/1999 02:01 1 0.19 0.00 Bay_4
84T 3W
08/20/1999 02:11 1 0.18 0.00 Bay_4
84T 3W
08/20/1999 02:21 1 0.17 0.01 Bay_4
83T 2W 90T 2W
08/20/1999 02:31 1 0.09 0.00 Bay_4
85T 2W
08/20/1999 02:41 1 0.17 0.00 Bay_4
84T 3W
08/20/1999 02:51 1 0.12 0.00 Bay_4
84T 2W
08/20/1999 03:01 1 0.17 0.00 Bay_4
85T 2W
08/20/1999 03:11 1 0.15 0.01 Bay_4
84T 2W 90T 2W
08/20/1999 03:21 1 0.15 0.00 Bay_4
84T 2W
08/20/1999 03:31 1 0.15 0.00 Bay_4
85T 2W
08/20/1999 03:40 1 0.13 0.00 Bay_4
84T 2W
08/20/1999 03:50 1 0.16 0.00 Bay_4
85T 1W
08/20/1999 04:01 1 0.00 0.01 Bay_4
90T 2W

Monitor Serial Number 1360 Date 08/20/1999 Sampling Station 4

Date Time Port VX SB TWAG

08/20/1999 04:11 1 0.19 0.00 Bay_4
84T 2W
08/20/1999 04:21 1 0.13 0.01 Bay_4
85T 2W 91T 1W
08/20/1999 04:30 1 0.16 0.00 Bay_4
85T 2W
08/20/1999 04:41 1 0.15 0.00 Bay_4
84T 2W
08/20/1999 04:50 1 0.14 0.01 Bay_4
84T 2W 90T 2W
08/20/1999 05:01 1 0.14 0.00 Bay_4
84T 3W
08/20/1999 05:10 1 0.16 0.01 Bay_4
84T 2W 90T 2W
08/20/1999 05:20 1 0.19 0.00 Bay_4

84T 2W
08/20/1999 05:41 1 0.13 0.01 Bay_4
84T 3W 89T 2W
08/20/1999 05:51 1 0.14 0.00 Bay_4
85T 2W
08/20/1999 06:00 1 0.13 0.00 Bay_4
83T 2W
08/20/1999 06:10 1 0.14 0.01 Bay_4
84T 2W 90T 2W
08/20/1999 06:20 1 0.17 0.01 Bay_4
84T 2W 89T 2W
08/20/1999 06:30 1 0.12 0.00 Bay_4
84T 1W
08/20/1999 06:40 1 0.00 0.00 Bay_4
08/20/1999 06:50 1 0.14 0.01 Bay_4
84T 2W 89T 2W
08/20/1999 07:00 1 0.00 0.00 Bay_4

08/13/1999 17:19 1 0.00 0.00 Bay_5 CAL
CALIBRATION VX GB
AVERAGE 132H 2491H
08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 17:20

S/N 1357 CHECK STATION 5

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 30	± 15
	Inlet	s 50	a 49	± 15
	FPD Block	s150	a147	± 15
	FPD Flame	s225	a222	± 99
	Column		a 75	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a153	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 49	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 34	± 5
	Helium	s 40	a40.5	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 467	± 99
	Average flow rate		a 470	
	Volume, L		a3.76	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

CAL PCB

VOLTAGE, VDC: FPD photomultiplier s1080 a1099 ± 50

ELECTROMETER: FPD signal, nA 87 FPD zero, nA 392

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.00C	132H*	519A	83.2T	2.8W	b 81	e 87
GB	1 FPD	1.00C	2491H*	5324A	90.2T	1.8W	b 87	e 93

CALIBRATION DATA:

VX 1 @ 1.00 FPD	132H*	519A	83.2T	2.8W	08/13/1999	17:19
GB 1 @ 1.00 FPD	2491H*	5324A	90.2T	1.8W	08/13/1999	17:19

SAMPLING SEQUENCE:

ELAPSED TIME ********** 141 sec

Monitor Serial Number 1357 Date 08/13/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:29	1	1.64	1.93	Bay_5	CHE
	84T 2W	90T 2W				

Monitor Serial Number 1357 Date 08/13/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:35	1	0.69	1.08	Bay_5	CHE
	84T 2W	90T 2W				
08/13/1999	17:45	1	1.02	1.02	Bay_5	CHE
	83T 2W	90T 2W				

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 17:45

S/N 1357 CHECK STATION 5

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 32	± 15
	Inlet	s 50	a 50	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a226	± 99
	Column		a106	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a178	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 60	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a40.0	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 364	± 99
	Average flow rate		a 470	
	Volume, L		a3.76	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1080	a1094	± 50
ELECTROMETER:	FPD signal, nA	39	FPD zero, nA	411

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.02C	134H*	425A	83.2T	2.4W	b 81	e 87
GB	1 FPD	1.02C	2550H*	5556A	90.1T	1.9W	b 87	e 93

CALIBRATION DATA:

VX 1 @ 1.00 FPD	132H*	520A	83.2T	2.8W	08/13/1999	17:19
GB 1 @ 1.00 FPD	2491H*	5324A	90.2T	1.8W	08/13/1999	17:19

DC
RB

83T 3W 90T 2W
08/13/1999 22:45 1 0.87 0.02 Bay_5
81T 3W 90T 2W

Monitor Serial Number 1357 Date 08/13/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/13/1999	22:55	1	1.22	0.02	Bay_5	ALA
83T 2W	91T 2W					
08/13/1999	23:05	1	0.66	0.01	Bay_5	
84T 4W	90T 2W					
08/13/1999	23:15	1	1.13	0.00	Bay_5	ALA
82T 6W						
VXW						ERROR
08/13/1999	23:25	1	0.39	0.02	Bay_5	
83T 1W	90T 3W					
08/13/1999	23:35	1	0.60	0.00	Bay_5	
86T 2W						
08/13/1999	23:45	1	0.52	0.02	Bay_5	
84T 2W	90T 2W					
08/13/1999	23:55	1	1.43	0.02	Bay_5	ALA
84T 4W	91T 2W					
08/14/1999	00:05	1	0.00	0.02	Bay_5	
90T 2W						
08/14/1999	00:15	1	0.00	0.02	Bay_5	
90T 2W						
08/14/1999	00:25	1	0.00	0.01	Bay_5	
91T 2W						
08/14/1999	00:35	1	0.28	0.02	Bay_5	
81T 2W	91T 2W					
08/14/1999	00:45	1	0.78	0.02	Bay_5	
83T 1W	91T 2W					
08/14/1999	00:55	1	0.23	0.02	Bay_5	
84T 2W	90T 2W					
08/14/1999	01:05	1	0.37	0.02	Bay_5	
83T 1W	91T 2W					
08/14/1999	01:15	1	0.64	0.02	Bay_5	
83T 2W	90T 2W					
08/14/1999	01:25	1	0.00	0.02	Bay_5	
91T 2W						
08/14/1999	01:35	1	0.00	0.02	Bay_5	
91T 2W						
08/14/1999	01:45	1	0.57	0.01	Bay_5	
84T 4W	90T 2W					
08/14/1999	01:55	1	0.25	0.02	Bay_5	
84T 1W	91T 2W					
08/14/1999	02:05	1	0.37	0.01	Bay_5	
82T 2W	91T 2W					
08/14/1999	02:15	1	0.46	0.01	Bay_5	
83T 2W	90T 2W					
08/14/1999	02:25	1	0.25	0.02	Bay_5	
82T 1W	90T 3W					
08/14/1999	02:35	1	0.91	0.02	Bay_5	
83T 4W	90T 2W					
08/14/1999	02:45	1	0.20	0.02	Bay_5	
84T 3W	90T 2W					
08/14/1999	02:55	1	0.00	0.01	Bay_5	
90T 2W						
08/14/1999	03:05	1	0.00	0.02	Bay_5	
91T 2W						
08/14/1999	03:15	1	0.28	0.02	Bay_5	
83T 1W	90T 3W					

08/14/1999 03:35 1 0.00 0.00 Bay_5
08/14/1999 03:45 1 0.19 0.00 Bay_5
83T 1W

Monitor Serial Number 1357 Date 08/14/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/14/1999	03:55	1	0.00	0.02	Bay_5	
		90T 2W				
08/14/1999	04:05	1	0.25	0.02	Bay_5	
	84T 1W	90T 2W				
08/14/1999	04:15	1	0.41	0.02	Bay_5	
	83T 3W	91T 2W				
08/14/1999	04:25	1	0.16	0.02	Bay_5	
	83T 1W	90T 2W				
08/14/1999	04:35	1	0.62	0.02	Bay_5	
	83T 4W	91T 2W				
08/14/1999	04:45	1	0.58	0.01	Bay_5	
	83T 3W	90T 2W				
08/14/1999	04:55	1	0.64	0.02	Bay_5	
	83T 3W	90T 2W				
08/14/1999	05:05	1	0.70	0.01	Bay_5	
	83T 3W	91T 2W				
08/14/1999	05:15	1	0.36	0.00	Bay_5	
	83T 2W					
08/14/1999	05:25	1	0.00	0.00	Bay_5	
08/14/1999	05:35	1	0.32	0.01	Bay_5	
	82T 3W	91T 3W				
08/14/1999	05:45	1	0.00	0.02	Bay_5	
		91T 2W				
08/14/1999	05:55	1	0.00	0.02	Bay_5	
		91T 2W				
08/14/1999	06:05	1	0.23	0.01	Bay_5	
	83T 2W	90T 2W				
08/14/1999	06:15	1	0.00	0.01	Bay_5	
		90T 2W				
08/14/1999	06:25	1	0.10	0.02	Bay_5	
	83T 1W	91T 2W				
08/14/1999	06:35	1	0.56	0.02	Bay_5	
	84T 4W	91T 2W				
08/14/1999	06:45	1	0.38	0.01	Bay_5	
	84T 3W	91T 2W				
08/14/1999	06:55	1	0.18	0.02	Bay_5	
	83T 2W	91T 2W				
08/14/1999	07:05	1	0.35	0.01	Bay_5	
	83T 2W	90T 2W				
08/14/1999	07:15	1	0.19	0.02	Bay_5	
	83T 3W	91T 2W				
08/14/1999	07:25	1	0.26	0.01	Bay_5	
	85T 3W	90T 1W				
08/14/1999	07:35	1	0.47	0.02	Bay_5	
	83T 4W	91T 2W				
08/14/1999	07:45	1	0.69	0.01	Bay_5	
	84T 3W	90T 2W				
08/14/1999	07:55	1	0.25	0.01	Bay_5	
	83T 3W	91T 2W				
08/14/1999	08:05	1	0.46	0.01	Bay_5	
	84T 2W	91T 2W				
08/14/1999	08:15	1	0.37	0.01	Bay_5	
	84T 3W	91T 2W				
08/14/1999	08:25	1	0.00	0.01	Bay_5	
		90T 2W				

08/14/1999 08:45 1 0.30 0.01 Bay_5
83T 2W 90T 2W

Monitor Serial Number 1357 Date 08/14/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/14/1999 08:55 1 0.76 0.94 Bay_5
84T 3W 91T 2W

08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:56

S/N 1357 STATION 5

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 31	± 15
	Inlet	s 50	a 53	± 15
	FPD Block	s150	a153	± 15
	FPD Flame	s225	a222	± 99
	Column		a 77	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a178	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 34	± 5
	Helium	s 40	a40.5	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 450	± 99
	Average flow rate		a 470	
	Volume, L		a3.76	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

DC
KB

VOLTAGE, VDC: FPD photomultiplier s1080 a1089 ± 50

ELECTROMETER: FPD signal, nA 50 FPD zero, nA 428

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.76C	101H*	287A	83.5T	2.5W	b 81	e 87
GB	1 FPD	0.94C	2339H*	5132A	90.7T	2.0W	b 87	e 93

CALIBRATION DATA:

VX 1 @	1.00 FPD	132H*	520A	83.2T	2.8W	08/13/1999	17:19
GB 1 @	1.00 FPD	2491H*	5324A	90.2T	1.8W	08/13/1999	17:19

SAMPLING SEQUENCE:

A01 Bay_5

ELAPSED TIME ********** 145 sec

08/14/1999 09:05	1	0.00	0.03	Bay_5		
	91T 2W					
08/14/1999 09:15	1	0.26	0.01	Bay_5		
83T 2W	91T 2W					
08/14/1999 09:25	1	0.20	0.00	Bay_5		
83T 2W						
08/14/1999 09:35	1	0.32	0.01	Bay_5		
83T 1W	88T 2W					
08/14/1999 09:45	1	1.40	0.00	Bay_5		ALA
84T 3W						
08/14/1999 09:55	1	1.03	0.01	Bay_5		ALA
85T 2W	91T 2W					
08/14/1999 10:05	1	0.59	0.01	Bay_5		
84T 4W	90T 1W					
08/14/1999 10:15	1	1.13	0.00	Bay_5		ALA
83T 3W						
08/14/1999 10:25	1	1.42	0.01	Bay_5		ALA
84T 4W	90T 2W					
08/14/1999 10:35	1	0.41	0.01	Bay_5		
84T 2W	90T 2W					
08/14/1999 10:45	1	0.94	0.02	Bay_5		
85T 4W	90T 2W					
08/14/1999 10:55	1	0.98	0.01	Bay_5		
84T 4W	91T 2W					
08/14/1999 11:05	1	1.26	0.01	Bay_5		ALA
83T 3W	90T 2W					
08/14/1999 11:15	1	0.27	0.01	Bay_5		
82T 3W	90T 2W					
08/14/1999 11:25	1	1.05	0.01	Bay_5		ALA
84T 3W	91T 2W					
08/14/1999 11:35	1	0.00	0.00	Bay_5		
08/14/1999 11:45	1	0.21	0.00	Bay_5		
83T 1W						
08/14/1999 11:55	1	0.31	0.00	Bay_5		
84T 3W						
08/14/1999 12:05	1	0.31	0.01	Bay_5		
84T 2W	90T 2W					
08/14/1999 12:15	1	1.02	0.00	Bay_5		ALA
83T 3W						
08/14/1999 12:25	1	0.86	0.01	Bay_5		
84T 3W	90T 2W					
08/14/1999 12:35	1	0.58	0.01	Bay_5		
83T 2W	91T 2W					
08/14/1999 12:45	1	0.69	0.01	Bay_5		
82T 1W	91T 2W					
08/14/1999 12:55	1	0.17	0.01	Bay_5		
84T 2W	91T 2W					
08/14/1999 13:05	1	0.28	0.01	Bay_5		
85T 2W	91T 2W					
08/14/1999 13:15	1	0.24	0.01	Bay_5		
84T 1W	91T 2W					
08/14/1999 13:25	1	0.79	0.01	Bay_5		
83T 4W	91T 2W					
08/14/1999 13:35	1	0.00	0.01	Bay_5		
91T 3W						
08/14/1999 13:45	1	0.00	0.01	Bay_5		
91T 2W						
08/14/1999 13:55	1	0.20	0.01	Bay_5		
84T 4W	90T 1W					

08/14/1999 14:05 1 0.33 0.01 Bay_5
83T 3W 91T 1W
08/14/1999 14:15 1 0.00 0.01 Bay_5
91T 2W
08/14/1999 14:25 1 0.22 0.00 Bay_5
84T 2W
08/14/1999 14:35 1 0.00 0.01 Bay_5
91T 2W
08/14/1999 14:45 1 0.20 0.01 Bay_5
83T 1W 91T 3W
08/14/1999 14:55 1 0.15 0.01 Bay_5
83T 2W 90T 2W
08/14/1999 15:05 1 0.19 0.01 Bay_5
84T 1W 91T 2W
08/14/1999 15:15 1 0.00 0.01 Bay_5
90T 2W
08/14/1999 15:25 1 0.00 0.01 Bay_5
91T 2W
08/14/1999 15:35 1 0.32 0.01 Bay_5
81T 1W 91T 2W
08/14/1999 15:45 1 0.00 0.00 Bay_5
08/14/1999 15:55 1 0.26 0.01 Bay_5
83T 2W 91T 2W
08/14/1999 16:05 1 0.30 0.02 Bay_5
82T 2W 91T 2W
08/14/1999 16:15 1 0.75 0.01 Bay_5
82T 4W 90T 2W
08/14/1999 16:25 1 0.00 0.01 Bay_5
91T 2W
08/14/1999 16:35 1 0.53 0.01 Bay_5
84T 1W 91T 2W
08/14/1999 16:45 1 0.23 0.00 Bay_5
83T 2W
08/14/1999 16:55 1 0.41 0.01 Bay_5
84T 1W 91T 2W
08/14/1999 17:05 1 0.00 0.01 Bay_5
90T 2W
08/14/1999 17:15 1 0.00 0.02 Bay_5
91T 2W
08/14/1999 17:25 1 0.38 0.01 Bay_5
84T 1W 91T 1W
08/14/1999 17:35 1 0.26 0.01 Bay_5
84T 1W 91T 1W
08/14/1999 17:45 1 0.33 0.01 Bay_5
84T 2W 91T 2W
08/14/1999 17:55 1 0.72 0.01 Bay_5
83T 3W 91T 2W
08/14/1999 18:05 1 0.00 0.02 Bay_5
91T 2W
08/14/1999 18:15 1 0.32 0.00 Bay_5
83T 2W
08/14/1999 18:25 1 0.00 0.02 Bay_5
90T 3W
08/14/1999 18:35 1 0.00 0.01 Bay_5
90T 2W
08/14/1999 18:45 1 0.40 0.00 Bay_5
84T 3W
08/14/1999 18:55 1 0.38 0.00 Bay_5
82T 2W

Monitor Serial Number 1357 Date 08/14/1999 Sampling Station 5

Date Time Port VX GB TWAG

	81T 2W				
08/14/1999	19:15	1	0.00	0.02	Bay_5
		91T 2W			
08/14/1999	19:25	1	0.00	0.01	Bay_5
		91T 2W			
08/14/1999	19:35	1	0.33	0.01	Bay_5
	83T 2W	91T 3W			
08/14/1999	19:45	1	0.44	0.01	Bay_5
	84T 1W	91T 2W			
08/14/1999	19:55	1	0.38	0.01	Bay_5
	84T 2W	91T 2W			
08/14/1999	20:05	1	0.61	0.01	Bay_5
	84T 4W	91T 2W			
08/14/1999	20:15	1	0.00	0.01	Bay_5
		91T 2W			
08/14/1999	20:25	1	0.29	0.01	Bay_5
	83T 2W	91T 2W			
08/14/1999	20:35	1	0.22	0.01	Bay_5
	82T 1W	91T 2W			
08/14/1999	20:45	1	0.46	0.01	Bay_5
	83T 3W	91T 2W			
08/14/1999	20:55	1	0.00	0.01	Bay_5
		91T 2W			
08/14/1999	21:05	1	0.18	0.01	Bay_5
	82T 1W	91T 3W			
08/14/1999	21:15	1	0.27	0.01	Bay_5
	82T 2W	91T 2W			
08/14/1999	21:25	1	0.22	0.01	Bay_5
	83T 2W	91T 2W			
08/14/1999	21:35	1	0.22	0.01	Bay_5
	83T 3W	91T 2W			
08/14/1999	21:45	1	0.20	0.01	Bay_5
	84T 2W	91T 2W			
08/14/1999	21:55	1	0.09	0.01	Bay_5
	83T 2W	91T 3W			
08/14/1999	22:05	1	0.21	0.01	Bay_5
	83T 1W	90T 3W			
08/14/1999	22:15	1	0.21	0.01	Bay_5
	85T 1W	91T 1W			
08/14/1999	22:25	1	0.43	0.01	Bay_5
	84T 3W	91T 1W			
08/14/1999	22:35	1	0.13	0.01	Bay_5
	83T 3W	91T 2W			
08/14/1999	22:45	1	0.25	0.01	Bay_5
	83T 3W	91T 3W			
08/14/1999	22:55	1	0.00	0.01	Bay_5
		91T 2W			
08/14/1999	23:05	1	0.24	0.01	Bay_5
	83T 2W	91T 2W			
08/14/1999	23:15	1	0.00	0.01	Bay_5
		91T 1W			
08/14/1999	23:25	1	0.12	0.01	Bay_5
	82T 1W	91T 2W			
08/14/1999	23:35	1	0.00	0.01	Bay_5
		91T 2W			
08/14/1999	23:45	1	0.21	0.01	Bay_5
	83T 2W	91T 2W			
08/14/1999	23:55	1	0.00	0.01	Bay_5
		91T 2W			

Monitor Serial Number 1357 Date 08/15/1999 Sampling Station 5

Date	Time	Rep	UV	GP	TWAG

83T 1W
08/15/1999 00:15 1 0.17 0.00 Bay_5
84T 2W
08/15/1999 00:25 1 0.17 0.01 Bay_5
83T 3W 91T 2W
08/15/1999 00:35 1 0.32 0.01 Bay_5
84T 4W 91T 2W
08/15/1999 00:45 1 0.13 0.01 Bay_5
83T 1W 91T 2W
08/15/1999 00:55 1 0.22 0.01 Bay_5
84T 3W 91T 1W
08/15/1999 01:05 1 0.00 0.01 Bay_5
91T 2W
08/15/1999 01:15 1 0.32 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 01:25 1 0.16 0.00 Bay_5
81T 2W
08/15/1999 01:35 1 0.09 0.00 Bay_5
83T 1W
08/15/1999 01:45 1 0.48 0.01 Bay_5
83T 4W 91T 2W
08/15/1999 01:55 1 0.28 0.01 Bay_5
83T 3W 90T 2W
08/15/1999 02:05 1 0.26 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 02:15 1 0.09 0.01 Bay_5
81T 1W 91T 2W
08/15/1999 02:25 1 0.00 0.01 Bay_5
91T 1W
08/15/1999 02:35 1 0.10 0.01 Bay_5
84T 2W 92T 1W
08/15/1999 02:45 1 0.18 0.00 Bay_5
84T 1W
08/15/1999 02:55 1 0.00 0.00 Bay_5
08/15/1999 03:05 1 0.25 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 03:15 1 0.00 0.00 Bay_5
08/15/1999 03:25 1 0.16 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 03:35 1 0.23 0.01 Bay_5
83T 1W 92T 3W
08/15/1999 03:45 1 0.15 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 03:55 1 0.16 0.00 Bay_5
84T 2W
08/15/1999 04:05 1 0.19 0.00 Bay_5
84T 1W
08/15/1999 04:15 1 0.00 0.00 Bay_5
08/15/1999 04:25 1 0.32 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 04:35 1 0.11 0.01 Bay_5
84T 1W 91T 2W
08/15/1999 04:45 1 0.32 0.01 Bay_5
84T 4W 91T 1W
08/15/1999 04:55 1 0.09 0.01 Bay_5
86T 1W 91T 1W
08/15/1999 05:05 1 0.28 0.01 Bay_5
84T 2W 90T 3W

Monitor Serial Number 1357 Date 08/15/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/15/1999 05:25 1 0.15 0.01 Bay_5
84T 1W 91T 2W
08/15/1999 05:35 1 0.33 0.00 Bay_5
84T 4W
08/15/1999 05:45 1 0.20 0.00 Bay_5
84T 3W
08/15/1999 05:55 1 0.19 0.00 Bay_5
84T 1W
08/15/1999 06:05 1 0.13 0.01 Bay_5
83T 2W 91T 3W
08/15/1999 06:15 1 0.31 0.01 Bay_5
84T 4W 91T 1W
08/15/1999 06:25 1 0.00 0.01 Bay_5
90T 2W
08/15/1999 06:35 1 0.19 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 06:45 1 0.00 0.01 Bay_5
90T 2W
08/15/1999 06:55 1 0.14 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 07:05 1 0.07 0.00 Bay_5
85T 1W
08/15/1999 07:15 1 0.07 0.00 Bay_5
83T 2W
08/15/1999 07:25 1 0.15 0.01 Bay_5
84T 2W 90T 1W
08/15/1999 07:35 1 0.00 0.01 Bay_5
91T 2W
08/15/1999 07:45 1 0.17 0.00 Bay_5
83T 3W
08/15/1999 07:55 1 0.16 0.01 Bay_5
83T 4W 90T 1W
08/15/1999 08:05 1 0.15 0.01 Bay_5
83T 3W 90T 2W
08/15/1999 08:15 1 0.12 0.01 Bay_5
84T 2W 91T 1W
08/15/1999 08:25 1 0.21 0.00 Bay_5
83T 3W
08/15/1999 08:35 1 0.00 0.01 Bay_5
91T 2W
08/15/1999 08:45 1 0.10 0.01 Bay_5
83T 2W 91T 1W
08/15/1999 08:55 1 0.07 0.00 Bay_5
81T 2W

Monitor Serial Number 1357 Date 08/15/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:02	1	0.00	0.01	Bay_5	
		90T 1W				
08/15/1999	09:12	1	0.24	0.00	Bay_5	
		85T 2W				
08/15/1999	09:22	1	0.69	0.87	Bay_5	CHE
		84T 3W	91T 2W			
08/15/1999	09:32	1	1.18	0.91	Bay_5	CHE
		84T 2W	90T 2W			

08/15/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:33

S/N 1357 ALARM STATION 5

SOFTWARE: Version 02181999

	FPD Block	s150	a153	± 15
	FPD Flame	s225	a224	± 99
	Column		a 51	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a178	± 15
	Column rate, °C/min	s150	a149	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a40.6	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 454	± 99
	Average flow rate		a 457	
	Volume, L		a3.66	

DC
PCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1080 a1089 ± 50

ELECTROMETER: FPD signal, nA 54 FPD zero, nA 435

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.18C	156H*	570A	83.6T	2.0W	b 81	e 87
GB	1 FPD	0.91C	2274H*	5233A	90.4T	2.0W	b 87	e 93

CALIBRATION DATA:

VX 1 @	1.00 FPD	132H*	520A	83.2T	2.8W	08/13/1999	17:19
GB 1 @	1.00 FPD	2491H*	5324A	90.2T	1.8W	08/13/1999	17:19

SAMPLING SEQUENCE:

A01 Bay_5

ELAPSED TIME ********** 191 sec

Monitor Serial Number 1357 Date 08/15/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:42	1	0.20	0.03	Bay_5	
	83T 1W	90T 2W				
08/15/1999	09:52	1	0.23	0.00	Bay_5	
	83T 2W					
08/15/1999	10:02	1	0.00	0.01	Bay_5	
	91T 2W					
08/15/1999	10:12	1	0.14	0.00	Bay_5	
	84T 2W					
08/15/1999	10:22	1	0.00	0.00	Bay_5	
08/15/1999	10:31	1	0.20	0.01	Bay_5	
	83T 3W	91T 3W				
08/15/1999	10:42	1	0.00	0.01	Bay_5	
	90T 2W					
08/15/1999	10:52	1	0.41	0.00	Bay_5	
	85T 3W					

08/15/1999 11:12 1 0.44 0.01 Bay_5
84T 2W 90T 2W
08/15/1999 11:22 1 0.11 0.01 Bay_5
84T 4W 91T 2W
08/15/1999 11:31 1 0.16 0.01 Bay_5
83T 2W 92T 3W
08/15/1999 11:41 1 0.41 0.00 Bay_5
84T 3W
08/15/1999 11:51 1 0.34 0.01 Bay_5
84T 3W 91T 2W
08/15/1999 12:02 1 0.00 0.00 Bay_5
08/15/1999 12:11 1 0.12 0.00 Bay_5
84T 2W
08/15/1999 12:21 1 0.00 0.01 Bay_5
91T 2W
08/15/1999 12:31 1 0.29 0.01 Bay_5
84T 1W 91T 1W
08/15/1999 12:41 1 0.21 0.01 Bay_5
82T 1W 91T 2W
08/15/1999 12:51 1 0.31 0.01 Bay_5
83T 2W 90T 2W
08/15/1999 13:01 1 0.27 0.01 Bay_5
83T 2W 91T 3W
08/15/1999 13:11 1 0.62 0.00 Bay_5
85T 3W
08/15/1999 13:21 1 0.29 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 13:31 1 0.00 0.01 Bay_5
91T 1W
08/15/1999 13:41 1 0.48 0.00 Bay_5
84T 4W
08/15/1999 13:51 1 0.19 0.01 Bay_5
84T 2W 91T 1W
08/15/1999 14:01 1 0.51 0.01 Bay_5
85T 4W 90T 2W
08/15/1999 14:11 1 0.26 0.01 Bay_5
83T 3W 91T 2W
08/15/1999 14:21 1 0.46 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 14:31 1 0.00 0.00 Bay_5
08/15/1999 14:41 1 0.33 0.01 Bay_5
84T 2W 91T 2W

Monitor Serial Number 1357 Date 08/15/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/15/1999 14:51 1 0.42 0.00 Bay_5
84T 3W
08/15/1999 15:01 1 0.30 0.00 Bay_5
84T 2W
08/15/1999 15:11 1 0.00 0.00 Bay_5
08/15/1999 15:21 1 0.16 0.01 Bay_5
82T 1W 91T 1W
08/15/1999 15:31 1 0.68 0.01 Bay_5
83T 4W 90T 1W
08/15/1999 15:41 1 0.57 0.01 Bay_5
84T 3W 90T 2W
08/15/1999 15:51 1 0.00 0.01 Bay_5
91T 2W
08/15/1999 16:01 1 0.49 0.01 Bay_5
84T 3W 91T 2W
08/15/1999 16:11 1 0.00 0.01 Bay_5

85T 2W 90T 1W
08/15/1999 16:31 1 0.00 0.01 Bay_5
91T 1W
08/15/1999 16:41 1 0.64 0.01 Bay_5
84T 3W 90T 3W
08/15/1999 16:51 1 0.00 0.01 Bay_5
91T 1W
08/15/1999 17:01 1 0.41 0.01 Bay_5
84T 4W 91T 2W
08/15/1999 17:11 1 0.22 0.00 Bay_5
85T 3W
08/15/1999 17:21 1 0.43 0.01 Bay_5
83T 3W 91T 2W
08/15/1999 17:31 1 0.42 0.01 Bay_5
82T 2W 91T 2W
08/15/1999 17:41 1 0.40 0.01 Bay_5
84T 4W 91T 2W
08/15/1999 17:51 1 0.36 0.00 Bay_5
83T 3W
08/15/1999 18:01 1 0.26 0.00 Bay_5
83T 2W
08/15/1999 18:11 1 0.25 0.01 Bay_5
83T 1W 91T 2W
08/15/1999 18:21 1 0.00 0.01 Bay_5
90T 1W
08/15/1999 18:31 1 0.26 0.01 Bay_5
84T 1W 91T 1W
08/15/1999 18:41 1 0.00 0.01 Bay_5
90T 3W
08/15/1999 18:51 1 0.31 0.01 Bay_5
83T 3W 91T 2W
08/15/1999 19:01 1 0.17 0.01 Bay_5
84T 2W 90T 1W
08/15/1999 19:11 1 0.61 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 19:21 1 0.25 0.01 Bay_5
85T 1W 91T 2W
08/15/1999 19:31 1 0.21 0.01 Bay_5
84T 1W 90T 3W
08/15/1999 19:42 1 0.47 0.00 Bay_5
84T 3W

Monitor Serial Number 1357 Date 08/15/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/15/1999 19:51 1 0.20 0.01 Bay_5
84T 1W 91T 2W
08/15/1999 20:01 1 0.00 0.01 Bay_5
91T 2W
08/15/1999 20:11 1 0.16 0.01 Bay_5
82T 1W 91T 1W
08/15/1999 20:21 1 0.20 0.01 Bay_5
82T 2W 91T 2W
08/15/1999 20:31 1 0.00 0.01 Bay_5
91T 2W
08/15/1999 20:41 1 0.00 0.01 Bay_5
91T 1W
08/15/1999 20:51 1 0.23 0.00 Bay_5
83T 1W
08/15/1999 21:01 1 0.29 0.01 Bay_5
84T 2W 91T 2W
08/15/1999 21:11 1 0.00 0.01 Bay_5

84T 2W
08/15/1999 21:31 1 0.15 0.01 Bay_5
83T 1W 91T 3W
08/15/1999 21:41 1 0.32 0.00 Bay_5
82T 3W
08/15/1999 21:51 1 0.00 0.00 Bay_5
08/15/1999 22:01 1 0.34 0.00 Bay_5
84T 2W
08/15/1999 22:11 1 0.00 0.00 Bay_5
08/15/1999 22:21 1 0.19 0.00 Bay_5
84T 1W
08/15/1999 22:31 1 0.11 0.01 Bay_5
83T 1W 91T 2W
08/15/1999 22:41 1 0.56 0.00 Bay_5
84T 4W
08/15/1999 22:51 1 0.00 0.00 Bay_5
08/15/1999 23:01 1 0.00 0.00 Bay_5
08/15/1999 23:11 1 0.22 0.01 Bay_5
82T 2W 91T 2W
08/15/1999 23:21 1 0.20 0.01 Bay_5
82T 3W 90T 1W
08/15/1999 23:31 1 0.42 0.01 Bay_5
83T 4W 90T 2W
08/15/1999 23:41 1 0.00 0.00 Bay_5
08/15/1999 23:51 1 0.16 0.01 Bay_5
83T 2W 92T 2W
08/16/1999 00:01 1 0.26 0.01 Bay_5
84T 2W 91T 2W
08/16/1999 00:11 1 0.17 0.01 Bay_5
84T 2W 91T 1W
08/16/1999 00:21 1 0.24 0.00 Bay_5
84T 3W
08/16/1999 00:31 1 0.39 0.01 Bay_5
83T 4W 91T 3W
08/16/1999 00:41 1 0.00 0.01 Bay_5
91T 2W
08/16/1999 00:51 1 0.00 0.00 Bay_5
08/16/1999 01:01 1 0.00 0.01 Bay_5
90T 1W
08/16/1999 01:11 1 0.25 0.01 Bay_5
83T 4W 91T 2W

Monitor Serial Number 1357 Date 08/16/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/16/1999 01:21 1 0.29 0.00 Bay_5
84T 3W
08/16/1999 01:31 1 0.29 0.00 Bay_5
84T 3W
08/16/1999 01:41 1 0.16 0.01 Bay_5
83T 1W 90T 1W
08/16/1999 01:51 1 0.15 0.01 Bay_5
82T 1W 91T 2W
08/16/1999 02:01 1 0.26 0.01 Bay_5
83T 3W 90T 1W
08/16/1999 02:11 1 0.00 0.00 Bay_5
08/16/1999 02:21 1 0.24 0.01 Bay_5
84T 2W 91T 1W
08/16/1999 02:31 1 0.23 0.01 Bay_5
82T 3W 91T 3W
08/16/1999 02:41 1 0.27 0.01 Bay_5
84T 3W 90T 1W

08/16/1999	03:01	1	0.00	0.00	Bay_5
08/16/1999	03:11	1	0.00	0.00	Bay_5
08/16/1999	03:21	1	0.20	0.01	Bay_5
	82T 2W	91T 1W			
08/16/1999	03:31	1	0.32	0.00	Bay_5
	85T 4W				
08/16/1999	03:41	1	0.14	0.00	Bay_5
	83T 1W				
08/16/1999	03:51	1	0.34	0.01	Bay_5
	84T 3W	90T 1W			
08/16/1999	04:01	1	0.00	0.00	Bay_5
08/16/1999	04:11	1	0.22	0.01	Bay_5
	83T 1W	90T 3W			
08/16/1999	04:21	1	0.00	0.00	Bay_5
08/16/1999	04:31	1	0.30	0.00	Bay_5
	84T 4W				
08/16/1999	04:41	1	0.23	0.00	Bay_5
	84T 3W				
08/16/1999	04:51	1	0.37	0.01	Bay_5
	84T 4W	91T 1W			
08/16/1999	05:01	1	0.00	0.00	Bay_5
08/16/1999	05:11	1	0.12	0.01	Bay_5
	83T 1W	91T 1W			
08/16/1999	05:21	1	0.25	0.00	Bay_5
	83T 3W				
08/16/1999	05:31	1	0.21	0.00	Bay_5
	83T 2W				
08/16/1999	05:41	1	0.18	0.01	Bay_5
	84T 3W	90T 2W			
08/16/1999	05:51	1	0.00	0.00	Bay_5
08/16/1999	06:01	1	0.16	0.00	Bay_5
	85T 2W				
08/16/1999	06:11	1	0.00	0.01	Bay_5
		92T 2W			
08/16/1999	06:21	1	0.19	0.01	Bay_5
	83T 2W	91T 2W			
08/16/1999	06:31	1	0.11	0.00	Bay_5
	84T 1W				
08/16/1999	06:41	1	0.15	0.01	Bay_5
	84T 2W	89T 1W			

Monitor Serial Number 1357 Date 08/16/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/16/1999	06:51	1	0.18	0.00	Bay_5	
	84T 2W					
08/16/1999	07:01	1	0.32	0.01	Bay_5	
	83T 3W	91T 2W				
08/16/1999	07:11	1	0.24	0.00	Bay_5	
	84T 2W					
08/16/1999	07:21	1	0.00	0.01	Bay_5	
		91T 3W				
08/16/1999	07:31	1	0.00	0.01	Bay_5	
		90T 2W				
08/16/1999	07:41	1	0.19	0.01	Bay_5	
	83T 3W	91T 2W				
08/16/1999	07:51	1	0.13	0.01	Bay_5	
	83T 2W	90T 1W				
08/16/1999	08:01	1	0.29	0.00	Bay_5	
	84T 3W					
08/16/1999	08:11	1	0.28	0.01	Bay_5	
	84T 3W	90T 2W				

08/16/1999 08:31 1 0.92 0.88 Bay_5 CHE
84T 3W 91T 2W
08/16/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:33

S/N 1357 STATION 5

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 29	± 15
	Inlet	s 50	a 50	± 15
	FPD Block	s150	a152	± 15
	FPD Flame	s225	a223	± 99
	Column		a 54	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a40.5	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 454	± 99
	Average flow rate		a 460	
	Volume, L		a3.69	

DL 103

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1080 a1094 ± 50

ELECTROMETER: FPD signal, nA 55 FPD zero, nA 426

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.92C	121H*	444A	83.8T	2.8W	b 81	e 87
GB	1 FPD	0.88C	2190H*	5189A	90.7T	2.0W	b 87	e 93

CALIBRATION DATA:

VX 1 @ 1.00 FPD	132H*	520A	83.2T	2.8W	08/13/1999	17:19
GB 1 @ 1.00 FPD	2491H*	5324A	90.2T	1.8W	08/13/1999	17:19

SAMPLING SEQUENCE:

A01 Bay_5

ELAPSED TIME ********** 180 sec

Monitor Serial Number 1357 Date 08/16/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/16/1999	08:41	1	0.18	0.03	Bay_5	
	84T 3W	90T 3W				
08/16/1999	08:51	1	0.40	0.01	Bay_5	
	84T 4W	91T 2W				

MINI-NET COMMUNICATIONS OFFLINE

08/16/1999 09:11 1 0.32 0.01 Bay_5
84T 2W 91T 1W
08/16/1999 09:21 1 0.33 0.00 Bay_5
84T 3W
08/16/1999 09:31 1 0.22 0.01 Bay_5
84T 2W 91T 2W
08/16/1999 09:41 1 0.14 0.01 Bay_5
83T 2W 90T 1W
08/16/1999 09:51 1 0.21 0.00 Bay_5
83T 3W
08/16/1999 10:01 1 0.00 0.01 Bay_5
91T 2W
08/16/1999 10:11 1 0.14 0.01 Bay_5
84T 2W 91T 2W
08/16/1999 10:21 1 0.00 0.01 Bay_5
91T 1W
08/16/1999 10:31 1 0.00 0.00 Bay_5
08/16/1999 10:41 1 0.22 0.00 Bay_5
83T 3W
08/16/1999 10:51 1 0.23 0.01 Bay_5
84T 2W 91T 1W
08/16/1999 11:01 1 0.20 0.01 Bay_5
84T 3W 91T 1W
08/16/1999 11:11 1 0.17 0.01 Bay_5
84T 1W 91T 1W
08/16/1999 11:21 1 0.42 0.01 Bay_5
84T 3W 91T 3W
08/16/1999 11:31 1 0.32 0.00 Bay_5
84T 4W
08/16/1999 11:41 1 0.40 0.00 Bay_5
84T 4W
08/16/1999 11:51 1 0.00 0.01 Bay_5
91T 1W
08/16/1999 12:01 1 0.21 0.01 Bay_5
84T 2W 91T 2W
08/16/1999 12:11 1 0.31 0.01 Bay_5
84T 2W 91T 2W
08/16/1999 12:21 1 0.24 0.00 Bay_5
84T 2W
08/16/1999 12:31 1 0.18 0.01 Bay_5
85T 2W 90T 2W
MINI-NET COMMUNICATIONS ONLINE
08/16/1999 12:41 1 0.00 0.01 Bay_5
90T 2W
08/16/1999 12:51 1 0.00 0.00 Bay_5
08/16/1999 13:01 1 0.52 0.01 Bay_5
84T 4W 91T 2W
08/16/1999 13:11 1 0.18 0.01 Bay_5
84T 1W 91T 3W
08/16/1999 13:21 1 0.13 0.01 Bay_5
86T 1W 90T 1W
08/16/1999 13:31 1 0.21 0.01 Bay_5
83T 2W 90T 2W
08/16/1999 13:41 1 0.00 0.01 Bay_5
91T 2W

Monitor Serial Number 1357 Date 08/16/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/16/1999 13:51 1 0.47 0.00 Bay_5
84T 3W
08/16/1999 14:01 1 0.18 0.01 Bay_5

84T 4W 91T 3W
08/16/1999 14:21 1 0.35 0.00 Bay_5
84T 2W
08/16/1999 14:31 1 0.49 0.00 Bay_5
85T 2W
08/16/1999 14:41 1 0.00 0.00 Bay_5
08/16/1999 14:51 1 0.45 0.01 Bay_5
84T 3W 91T 1W
08/16/1999 15:01 1 0.62 0.01 Bay_5
85T 3W 91T 2W
08/16/1999 15:11 1 0.26 0.01 Bay_5
84T 1W 91T 1W
08/16/1999 15:21 1 0.78 0.01 Bay_5
85T 4W 90T 2W
08/16/1999 15:31 1 0.36 0.00 Bay_5
84T 1W
08/16/1999 15:41 1 0.54 0.00 Bay_5
84T 3W
08/16/1999 15:51 1 0.00 0.01 Bay_5
91T 2W
08/16/1999 16:01 1 0.60 0.00 Bay_5
84T 3W
08/16/1999 16:11 1 0.00 0.00 Bay_5
08/16/1999 16:21 1 0.00 0.01 Bay_5
90T 2W
08/16/1999 16:31 1 0.19 0.01 Bay_5
83T 2W 91T 2W
08/16/1999 16:41 1 0.60 0.00 Bay_5
84T 4W
08/16/1999 16:51 1 0.50 0.01 Bay_5
83T 3W 91T 2W
08/16/1999 17:01 1 0.00 0.01 Bay_5
91T 2W
08/16/1999 17:11 1 0.00 0.01 Bay_5
91T 2W
08/16/1999 17:21 1 0.00 0.01 Bay_5
90T 2W
08/16/1999 17:31 1 0.00 0.00 Bay_5
08/16/1999 17:41 1 0.61 0.00 Bay_5
83T 4W
08/16/1999 17:51 1 0.46 0.01 Bay_5
83T 4W 90T 2W
08/16/1999 18:01 1 0.21 0.01 Bay_5
81T 1W 91T 2W
08/16/1999 18:11 1 0.62 0.01 Bay_5
84T 2W 91T 2W
08/16/1999 18:21 1 0.46 0.01 Bay_5
83T 1W 90T 2W
08/16/1999 18:31 1 0.67 0.00 Bay_5
84T 4W
08/16/1999 18:41 1 0.56 0.00 Bay_5
84T 2W
08/16/1999 18:51 1 0.21 0.00 Bay_5
84T 2W

Monitor Serial Number 1357 Date 08/16/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/16/1999 19:01 1 0.19 0.01 Bay_5
84T 2W 91T 1W
08/16/1999 19:11 1 0.43 0.01 Bay_5
84T 4W 90T 2W

90T 2W
08/16/1999 19:41 1 0.17 0.00 Bay_5
84T 1W
08/16/1999 19:51 1 0.00 0.01 Bay_5
91T 2W
08/16/1999 20:01 1 0.12 0.01 Bay_5
83T 2W 91T 2W
08/16/1999 20:11 1 0.32 0.00 Bay_5
84T 2W
08/16/1999 20:21 1 0.58 0.01 Bay_5
84T 3W 90T 2W
08/16/1999 20:31 1 0.51 0.00 Bay_5
84T 3W
08/16/1999 20:41 1 0.25 0.01 Bay_5
83T 3W 91T 1W
08/16/1999 20:51 1 0.00 0.01 Bay_5
90T 2W
08/16/1999 21:01 1 0.17 0.00 Bay_5
85T 2W
08/16/1999 21:11 1 0.34 0.01 Bay_5
84T 3W 90T 1W
08/16/1999 21:21 1 0.00 0.01 Bay_5
91T 1W
08/16/1999 21:31 1 0.48 0.00 Bay_5
84T 3W
08/16/1999 21:41 1 0.00 0.00 Bay_5
08/16/1999 21:51 1 0.32 0.00 Bay_5
84T 3W
08/16/1999 22:01 1 0.16 0.00 Bay_5
83T 1W
08/16/1999 22:11 1 0.16 0.00 Bay_5
83T 1W
08/16/1999 22:21 1 0.21 0.00 Bay_5
85T 3W
08/16/1999 22:31 1 0.38 0.00 Bay_5
83T 1W
08/16/1999 22:41 1 0.00 0.01 Bay_5
90T 2W
08/16/1999 22:51 1 0.38 0.00 Bay_5
84T 2W
08/16/1999 23:01 1 0.00 0.00 Bay_5
08/16/1999 23:11 1 0.25 0.01 Bay_5
82T 1W 90T 2W
08/16/1999 23:21 1 0.18 0.01 Bay_5
83T 2W 90T 2W
08/16/1999 23:31 1 0.32 0.00 Bay_5
83T 2W
08/16/1999 23:41 1 0.00 0.01 Bay_5
91T 2W
08/16/1999 23:51 1 0.19 0.01 Bay_5
84T 1W 91T 2W
08/17/1999 00:01 1 0.23 0.00 Bay_5
84T 2W

Monitor Serial Number 1357 Date 08/17/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/17/1999 00:11 1 0.00 0.01 Bay_5
91T 1W
08/17/1999 00:21 1 0.57 0.01 Bay_5
83T 3W 91T 2W
08/17/1999 00:31 1 0.00 0.01 Bay_5

84T 1W 91T 3W
08/17/1999 00:51 1 0.22 0.01 Bay_5
83T 2W 91T 3W
08/17/1999 01:01 1 0.26 0.01 Bay_5
84T 3W 91T 2W
08/17/1999 01:11 1 0.31 0.00 Bay_5
85T 3W
08/17/1999 01:21 1 0.23 0.01 Bay_5
85T 2W 91T 2W
08/17/1999 01:31 1 0.00 0.01 Bay_5
91T 1W
08/17/1999 01:41 1 0.17 0.01 Bay_5
84T 2W 91T 2W
08/17/1999 01:51 1 0.29 0.01 Bay_5
84T 2W 88T 1W
08/17/1999 02:01 1 0.21 0.01 Bay_5
84T 2W 91T 2W
08/17/1999 02:11 1 0.34 0.00 Bay_5
84T 4W
08/17/1999 02:21 1 0.00 0.00 Bay_5
08/17/1999 02:31 1 0.42 0.00 Bay_5
84T 4W
08/17/1999 02:41 1 0.14 0.00 Bay_5
83T 1W
08/17/1999 02:51 1 0.00 0.00 Bay_5
08/17/1999 03:01 1 0.25 0.00 Bay_5
84T 2W
08/17/1999 03:11 1 0.08 0.00 Bay_5
83T 1W
08/17/1999 03:21 1 0.42 0.01 Bay_5
84T 4W 91T 2W
08/17/1999 03:31 1 0.45 0.01 Bay_5
84T 3W 90T 2W
08/17/1999 03:41 1 0.13 0.01 Bay_5
86T 2W 91T 1W
08/17/1999 03:51 1 0.00 0.00 Bay_5
08/17/1999 04:01 1 0.24 0.01 Bay_5
84T 2W 88T 1W
08/17/1999 04:11 1 0.12 0.00 Bay_5
84T 3W
08/17/1999 04:21 1 0.00 0.00 Bay_5
08/17/1999 04:31 1 0.24 0.01 Bay_5
83T 3W 90T 1W
08/17/1999 04:41 1 0.00 0.01 Bay_5
92T 2W
08/17/1999 04:51 1 0.34 0.00 Bay_5
85T 3W
08/17/1999 05:01 1 0.00 0.00 Bay_5
08/17/1999 05:11 1 0.31 0.01 Bay_5
83T 4W 91T 1W
08/17/1999 05:21 1 0.28 0.00 Bay_5
85T 4W

Monitor Serial Number 1357 Date 08/17/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/17/1999 05:31 1 0.30 0.00 Bay_5
84T 3W
08/17/1999 05:41 1 0.12 0.00 Bay_5
85T 1W
08/17/1999 05:51 1 0.31 0.01 Bay_5
84T 2W 90T 2W

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08/17/1999 06:11  1   0.24    0.00  Bay_5
          84T 3W
08/17/1999 06:21  1   0.00    0.00  Bay_5
08/17/1999 06:31  1   0.15    0.00  Bay_5
          85T 4W
08/17/1999 06:41  1   0.15    0.00  Bay_5
          84T 2W
08/17/1999 06:51  1   0.34    0.01  Bay_5
          84T 2W  91T 2W
08/17/1999 07:01  1   0.16    0.00  Bay_5
          85T 1W
08/17/1999 07:11  1   0.00    0.01  Bay_5
                 90T 2W
08/17/1999 07:21  1   0.13    0.00  Bay_5
          81T 2W
08/17/1999 07:31  1   0.00    0.00  Bay_5
08/17/1999 07:41  1   0.23    0.00  Bay_5
          84T 2W
08/17/1999 07:51  1   0.19    0.00  Bay_5
          84T 1W
08/17/1999 08:01  1   0.41    0.01  Bay_5
          85T 4W  90T 2W
08/17/1999 08:11  1   0.00    0.01  Bay_5
                 87T 1W
08/17/1999 08:21  1   0.19    0.01  Bay_5
          86T 1W  91T 2W
08/17/1999 08:31  1   0.81    0.81  Bay_5                                    CHE
          84T 3W  91T 2W
08/17/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:36

S/N 1357                                                STATION    5

SOFTWARE:                                             Version 02181999

TEMPERATURES, °C:  Ambient              s 40        a 31        ± 15
                   Inlet                s 50        a 53        ± 15
                   FPD Block            s150        a153        ± 15
                   FPD Flame            s225        a223        ± 99
                   Column                           a 41
                   Column, low          s 40        a 40        ± 15
                   Column, high         s180        a180        ± 15
                   Column rate, °C/min  s150        a151        ± 20
                   Column rate 2        s  0        a  0        ± 20
                   PCT heater                       a 51
                   PCT heater, low      s 50        a 51        ± 20
                   PCT heater, high     s235        a235        ± 30

PRESSURES, psi:    Air                  s 35        a 34        ±  5
                   Helium               s 40       a40.5        ±  5
                   Hydrogen             s 35        a 35        ±  5

SAMPLE:            Flow rate, ccm      s 450       a 454        ± 99
                   Average flow rate               a 450
                   Volume, L                       a3.61

TIMES, sec:        Purge          b  0   e120   Sample   b120   e600
                   Desorb         b  5   e 50   Column   b 40   e100
                   Column purge   b100   e100   Inject   b120   e130
                   FPD zero                On

VOLTAGE, VDC:      FPD photomultiplier s1080       a1084        ± 50

ELECTROMETER:      FPD signal, nA        106   FPD  zero, nA     411
```

DC
PCB

```
VX    1 FPD   0.81C    107H*    317A   84.0T  2.7W       b 81    e 87
GB    1 FPD   0.81C   2012H*   5007A   90.8T  2.1W       b 87    e 93

CALIBRATION DATA:

VX 1 @  1.00 FPD      132H*    520A   83.2T  2.8W 08/13/1999   17:19
GB 1 @  1.00 FPD     2491H*   5324A   90.2T  1.8W 08/13/1999   17:19

SAMPLING SEQUENCE:

  A01   Bay_5

ELAPSED TIME ********************************************** 347 sec


Monitor Serial Number 1357          Date 08/17/1999        Sampling Station    5

Date        Time  Port   VX      GB                                          TWAG

08/17/1999 08:41  1   0.38    0.03  Bay_5
          84T 3W  90T 3W
08/17/1999 08:51  1   0.24    0.01  Bay_5
          84T 2W  91T 2W
08/17/1999 09:01  1   0.24    0.00  Bay_5
          83T 2W
08/17/1999 09:11  1   0.39    0.01  Bay_5
          84T 3W  91T 2W
08/17/1999 09:21  1   0.22    0.01  Bay_5
          84T 1W  91T 1W
08/17/1999 09:31  1   0.24    0.00  Bay_5
          84T 2W
08/17/1999 09:41  1   0.25    0.00  Bay_5
          84T 1W
08/17/1999 09:51  1   0.11    0.01  Bay_5
          86T 1W  91T 1W
08/17/1999 10:01  1   0.28    0.00  Bay_5
          83T 3W
08/17/1999 10:11  1   0.50    0.00  Bay_5
          83T 4W
08/17/1999 10:21  1   0.33    0.00  Bay_5
          85T 2W
08/17/1999 10:31  1   0.00    0.00  Bay_5
08/17/1999 10:41  1   0.47    0.00  Bay_5
          84T 4W
08/17/1999 10:51  1   0.10    0.00  Bay_5
          83T 2W
08/17/1999 11:01  1   0.31    0.00  Bay_5
          84T 2W
08/17/1999 11:11  1   0.16    0.01  Bay_5
          83T 1W  91T 1W
08/17/1999 11:21  1   0.34    0.01  Bay_5
          84T 2W  90T 2W
08/17/1999 11:31  1   0.45    0.01  Bay_5
          85T 3W  91T 2W
08/17/1999 11:41  1   0.48    0.01  Bay_5
          83T 3W  91T 1W
08/17/1999 11:51  1   0.31    0.01  Bay_5
          84T 2W  91T 2W
08/17/1999 12:01  1   0.29    0.01  Bay_5
          84T 3W  91T 2W
08/17/1999 12:11  1   0.35    0.01  Bay_5
          84T 4W  90T 2W
08/17/1999 12:21  1   0.35    0.01  Bay_5
          84T 3W  90T 2W
```

08/17/1999 12:41 1 0.44 0.01 Bay_5
84T 3W 91T 3W
08/17/1999 12:51 1 0.34 0.01 Bay_5
84T 3W 91T 2W
08/17/1999 13:01 1 0.26 0.00 Bay_5
84T 2W
08/17/1999 13:11 1 0.00 0.01 Bay_5
91T 1W
08/17/1999 13:21 1 0.39 0.00 Bay_5
84T 2W
08/17/1999 13:31 1 0.00 0.01 Bay_5
91T 2W

Monitor Serial Number 1357 Date 08/17/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/17/1999	13:41	1	0.35	0.01	Bay_5	
	85T 3W	92T 2W				
08/17/1999	13:51	1	0.39	0.00	Bay_5	
	85T 2W					
08/17/1999	14:01	1	0.24	0.01	Bay_5	
	83T 2W	89T 1W				
08/17/1999	14:11	1	0.00	0.00	Bay_5	
08/17/1999	14:21	1	0.56	0.01	Bay_5	
	85T 4W	91T 1W				
08/17/1999	14:31	1	0.18	0.01	Bay_5	
	83T 2W	90T 2W				
08/17/1999	14:41	1	0.00	0.00	Bay_5	
08/17/1999	14:51	1	0.63	0.01	Bay_5	
	85T 3W	92T 2W				
08/17/1999	15:01	1	0.18	0.01	Bay_5	
	84T 1W	90T 2W				
08/17/1999	15:11	1	0.61	0.00	Bay_5	
	85T 3W					
08/17/1999	15:21	1	0.00	0.00	Bay_5	
08/17/1999	15:31	1	0.39	0.01	Bay_5	
	84T 2W	90T 2W				
08/17/1999	15:41	1	0.41	0.00	Bay_5	
	83T 4W					
08/17/1999	15:51	1	0.52	0.00	Bay_5	
	83T 4W					
08/17/1999	16:01	1	0.26	0.01	Bay_5	
	84T 2W	92T 2W				
08/17/1999	16:11	1	0.00	0.00	Bay_5	
08/17/1999	16:21	1	0.67	0.01	Bay_5	
	84T 2W	91T 2W				
08/17/1999	16:31	1	0.51	0.01	Bay_5	
	84T 4W	91T 1W				
08/17/1999	16:41	1	0.25	0.01	Bay_5	
	84T 2W	91T 2W				
08/17/1999	16:51	1	0.34	0.01	Bay_5	
	83T 3W	91T 2W				
08/17/1999	17:01	1	0.20	0.00	Bay_5	
	84T 2W					
08/17/1999	17:11	1	0.00	0.01	Bay_5	
	91T 1W					
08/17/1999	17:21	1	0.39	0.00	Bay_5	
	84T 4W					
08/17/1999	17:31	1	0.33	0.01	Bay_5	
	85T 2W	91T 2W				
08/17/1999	17:41	1	0.31	0.01	Bay_5	
	85T 3W	88T 1W				

08/17/1999 18:01 1 0.00 0.01 Bay_5
91T 2W
08/17/1999 18:11 1 0.41 0.01 Bay_5
84T 4W 91T 2W
08/17/1999 18:21 1 0.17 0.00 Bay_5
84T 2W
08/17/1999 18:31 1 0.24 0.00 Bay_5
83T 1W
08/17/1999 18:41 1 0.38 0.00 Bay_5
84T 2W
08/17/1999 18:51 1 0.00 0.00 Bay_5

Monitor Serial Number 1357 Date 08/17/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/17/1999	19:01	1	0.40	0.01	Bay_5	
84T 3W 88T 1W						
08/17/1999	19:11	1	0.00	0.01	Bay_5	
91T 2W						
08/17/1999	19:21	1	0.26	0.00	Bay_5	
83T 1W						
08/17/1999	19:31	1	0.33	0.00	Bay_5	
84T 2W						
08/17/1999	19:41	1	0.31	0.00	Bay_5	
85T 4W						
08/17/1999	19:51	1	0.38	0.00	Bay_5	
83T 4W						
08/17/1999	20:01	1	0.39	0.01	Bay_5	
84T 2W 88T 1W						
08/17/1999	20:11	1	0.00	0.01	Bay_5	
91T 1W						
08/17/1999	20:21	1	0.00	0.01	Bay_5	
91T 1W						
08/17/1999	20:31	1	0.46	0.00	Bay_5	
84T 3W						
08/17/1999	20:41	1	0.29	0.00	Bay_5	
84T 1W						
08/17/1999	20:51	1	0.00	0.01	Bay_5	
92T 2W						
08/17/1999	21:01	1	0.27	0.01	Bay_5	
84T 1W 91T 2W						
08/17/1999	21:11	1	0.25	0.00	Bay_5	
84T 2W						
08/17/1999	21:21	1	0.00	0.01	Bay_5	
91T 1W						
08/17/1999	21:31	1	0.35	0.01	Bay_5	
84T 4W 90T 1W						
08/17/1999	21:41	1	0.14	0.00	Bay_5	
84T 2W						
08/17/1999	21:51	1	0.00	0.00	Bay_5	
08/17/1999	22:01	1	0.00	0.00	Bay_5	
08/17/1999	22:11	1	0.37	0.01	Bay_5	
84T 3W 89T 1W						
08/17/1999	22:21	1	0.12	0.01	Bay_5	
83T 1W 91T 1W						
08/17/1999	22:31	1	0.14	0.00	Bay_5	
83T 1W						
08/17/1999	22:41	1	0.32	0.00	Bay_5	
84T 3W						
08/17/1999	22:51	1	0.16	0.01	Bay_5	
83T 1W 91T 1W						
08/17/1999	23:01	1	0.28	0.00	Bay_5	

84T 2W
08/17/1999 23:21 1 0.18 0.00 Bay_5
84T 2W
08/17/1999 23:31 1 0.06 0.00 Bay_5
86T 1W
08/17/1999 23:41 1 0.32 0.01 Bay_5
84T 3W 91T 2W
08/17/1999 23:51 1 0.16 0.00 Bay_5
84T 2W
08/18/1999 00:01 1 0.31 0.01 Bay_5
84T 4W 90T 2W

Monitor Serial Number 1357 Date 08/18/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/18/1999	00:11	1	0.15	0.00	Bay_5	
84T 2W						
08/18/1999	00:21	1	0.00	0.01	Bay_5	
89T 1W						
08/18/1999	00:31	1	0.24	0.00	Bay_5	
84T 2W						
08/18/1999	00:41	1	0.22	0.01	Bay_5	
85T 4W 90T 2W						
08/18/1999	00:51	1	0.17	0.00	Bay_5	
84T 2W						
08/18/1999	01:01	1	0.38	0.00	Bay_5	
84T 3W						
08/18/1999	01:11	1	0.12	0.00	Bay_5	
84T 1W						
08/18/1999	01:21	1	0.16	0.00	Bay_5	
84T 2W						
08/18/1999	01:31	1	0.20	0.00	Bay_5	
84T 2W						
08/18/1999	01:41	1	0.00	0.01	Bay_5	
90T 1W						
08/18/1999	01:51	1	0.26	0.00	Bay_5	
84T 2W						
08/18/1999	02:01	1	0.21	0.00	Bay_5	
84T 3W						
08/18/1999	02:11	1	0.13	0.00	Bay_5	
84T 1W						
08/18/1999	02:21	1	0.00	0.00	Bay_5	
08/18/1999	02:31	1	0.21	0.00	Bay_5	
84T 3W						
08/18/1999	02:41	1	0.19	0.00	Bay_5	
84T 2W						
08/18/1999	02:51	1	0.00	0.00	Bay_5	
08/18/1999	03:01	1	0.21	0.00	Bay_5	
85T 2W						
08/18/1999	03:11	1	0.19	0.01	Bay_5	
84T 2W 91T 2W						
08/18/1999	03:21	1	0.21	0.01	Bay_5	
85T 3W 91T 1W						
08/18/1999	03:31	1	0.00	0.00	Bay_5	
08/18/1999	03:41	1	0.23	0.00	Bay_5	
84T 3W						
08/18/1999	03:51	1	0.13	0.00	Bay_5	
85T 2W						
08/18/1999	04:01	1	0.00	0.01	Bay_5	
92T 2W						
08/18/1999	04:11	1	0.24	0.00	Bay_5	
85T 3W						

08/18/1999 04:31 1 0.19 0.01 Bay_5
84T 4W 90T 1W
08/18/1999 04:41 1 0.10 0.00 Bay_5
87T 1W
08/18/1999 04:51 1 0.22 0.01 Bay_5
83T 3W 90T 1W
08/18/1999 05:01 1 0.23 0.00 Bay_5
84T 3W
08/18/1999 05:11 1 0.30 0.00 Bay_5
83T 4W

Monitor Serial Number 1357 Date 08/18/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/18/1999	05:21	1	0.11	0.00	Bay_5	
84T 3W						
08/18/1999	05:31	1	0.00	0.01	Bay_5	
90T 1W						
08/18/1999	05:41	1	0.11	0.01	Bay_5	
84T 1W 93T 1W						
08/18/1999	05:51	1	0.00	0.00	Bay_5	
08/18/1999	06:01	1	0.12	0.00	Bay_5	
84T 1W						
08/18/1999	06:11	1	0.16	0.01	Bay_5	
84T 2W 91T 1W						
08/18/1999	06:21	1	0.26	0.01	Bay_5	
84T 2W 91T 1W						
08/18/1999	06:31	1	0.16	0.01	Bay_5	
84T 3W 90T 2W						
08/18/1999	06:41	1	0.34	0.00	Bay_5	
84T 4W						
08/18/1999	06:51	1	0.00	0.00	Bay_5	
08/18/1999	07:01	1	0.16	0.01	Bay_5	
84T 2W 90T 2W						
08/18/1999	07:11	1	0.24	0.00	Bay_5	
84T 3W						
08/18/1999	07:21	1	0.14	0.00	Bay_5	
85T 1W						
08/18/1999	07:31	1	0.14	0.00	Bay_5	
83T 1W						
08/18/1999	07:41	1	0.20	0.00	Bay_5	
83T 2W						
08/18/1999	07:51	1	0.00	0.00	Bay_5	
08/18/1999	08:01	1	0.00	0.00	Bay_5	
08/18/1999	08:11	1	0.11	0.00	Bay_5	
85T 1W						
08/18/1999	08:21	1	0.00	0.01	Bay_5	
90T 1W						
08/18/1999	08:31	1	0.00	0.01	Bay_5	
90T 2W						
08/18/1999	08:41	1	0.08	0.00	Bay_5	
83T 1W						
08/18/1999	08:51	1	0.82	0.91	Bay_5	CAL
84T 3W 91T 2W						
CALIBRATION	VX		GB			
AVERAGE	108H		2263H			
08/18/1999	09:01	1	1.94	2.02	Bay_5	CHE
84T 3W 91T 2W						
08/18/1999	09:11	1	1.26	1.08	Bay_5	CHE
84T 3W 91T 2W						
08/18/1999	09:21	1	1.04	1.06	Bay_5	CHE
84T 3W 91T 2W						

S/N 1357 ALARM STATION 5

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 30	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a225	± 99
	Column		a 41	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 34	± 5
	Helium	s 40	a41.1	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 452	± 99
	Average flow rate		a 464	
	Volume, L		a3.72	

PC
PCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1080 a1094 ± 50

ELECTROMETER: FPD signal, nA 55 FPD zero, nA 425

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.04C	112H*	361A	83.6T	2.8W	b 81	e 87
GB	1 FPD	1.06C	2388H*	5740A	90.7T	2.1W	b 87	e 93

CALIBRATION DATA:

VX 1 @ 1.00 FPD	108H*	319A	84.3T	2.7W	08/18/1999	08:51
GB 1 @ 1.00 FPD	2263H*	5528A	90.8T	2.1W	08/18/1999	08:51

SAMPLING SEQUENCE:

A01 Bay_5

ELAPSED TIME ********** 294 sec

Monitor Serial Number 1357 Date 08/18/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/18/1999	09:31	1	0.00	0.04	Bay_5	
		91T 3W				
08/18/1999	09:41	1	0.43	0.01	Bay_5	
	84T 2W	91T 3W				
08/18/1999	09:51	1	0.35	0.01	Bay_5	
	83T 4W	90T 2W				
08/18/1999	10:01	1	0.25	0.01	Bay_5	
	83T 3W	91T 3W				
08/18/1999	10:11	1	0.00	0.00	Bay_5	

08/18/1999 10:31 1 0.26 0.01 Bay_5
83T 4W 90T 1W
08/18/1999 10:41 1 0.18 0.00 Bay_5
83T 2W
08/18/1999 10:51 1 0.25 0.01 Bay_5
84T 2W 91T 3W
08/18/1999 11:01 1 0.00 0.00 Bay_5
08/18/1999 11:11 1 0.31 0.01 Bay_5
84T 1W 91T 2W
08/18/1999 11:21 1 0.38 0.01 Bay_5
82T 3W 90T 1W
08/18/1999 11:31 1 0.24 0.00 Bay_5
84T 2W
08/18/1999 11:41 1 0.46 0.01 Bay_5
84T 4W 91T 2W
08/18/1999 11:51 1 0.40 0.01 Bay_5
83T 2W 90T 2W
08/18/1999 12:01 1 0.27 0.01 Bay_5
84T 2W 91T 2W
08/18/1999 12:11 1 0.45 0.00 Bay_5
84T 2W
08/18/1999 12:21 1 0.24 0.01 Bay_5
84T 2W 91T 1W
08/18/1999 12:31 1 0.00 0.00 Bay_5
08/18/1999 12:41 1 0.36 0.01 Bay_5
83T 2W 90T 2W
08/18/1999 12:51 1 0.24 0.00 Bay_5
84T 1W
08/18/1999 13:01 1 0.40 0.01 Bay_5
84T 3W 91T 1W
08/18/1999 13:11 1 0.32 0.00 Bay_5
84T 3W
08/18/1999 13:21 1 0.39 0.01 Bay_5
84T 4W 90T 3W
08/18/1999 13:31 1 0.00 0.00 Bay_5
08/18/1999 13:41 1 0.48 0.01 Bay_5
84T 3W 91T 2W
08/18/1999 13:51 1 0.48 0.01 Bay_5
84T 3W 91T 2W
08/18/1999 14:01 1 0.24 0.01 Bay_5
84T 2W 91T 3W
08/18/1999 14:11 1 0.32 0.00 Bay_5
84T 2W
08/18/1999 14:21 1 0.00 0.01 Bay_5
90T 1W
08/18/1999 14:31 1 0.15 0.01 Bay_5
84T 1W 90T 2W
08/18/1999 14:41 1 0.56 0.01 Bay_5
84T 4W 91T 3W

Monitor Serial Number 1357 Date 08/18/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/18/1999 14:51 1 0.39 0.00 Bay_5
84T 2W
08/18/1999 15:01 1 0.55 0.01 Bay_5
84T 3W 91T 2W
08/18/1999 15:11 1 0.53 0.01 Bay_5
84T 2W 90T 2W
08/18/1999 15:21 1 0.37 0.01 Bay_5
84T 4W 90T 1W
08/18/1999 15:31 1 0.15 0.01 Bay_5

84T 2W
08/18/1999 15:51 1 0.35 0.01 Bay_5
85T 3W 90T 1W
08/18/1999 16:01 1 0.44 0.00 Bay_5
84T 3W
08/18/1999 16:11 1 0.00 0.01 Bay_5
90T 1W
08/18/1999 16:21 1 0.39 0.01 Bay_5
83T 2W 91T 3W
08/18/1999 16:31 1 0.61 0.01 Bay_5
84T 3W 90T 1W
08/18/1999 16:41 1 0.35 0.01 Bay_5
84T 3W 91T 2W
08/18/1999 16:51 1 0.57 0.01 Bay_5
85T 3W 91T 3W
08/18/1999 17:01 1 0.00 0.00 Bay_5
08/18/1999 17:11 1 0.23 0.01 Bay_5
83T 1W 90T 2W
08/18/1999 17:21 1 0.26 0.01 Bay_5
83T 2W 90T 2W
08/18/1999 17:31 1 0.00 0.01 Bay_5
88T 2W
08/18/1999 17:41 1 0.20 0.01 Bay_5
84T 3W 90T 2W
08/18/1999 17:51 1 0.00 0.01 Bay_5
91T 1W
08/18/1999 18:01 1 0.16 0.00 Bay_5
86T 4W
08/18/1999 18:11 1 0.31 0.01 Bay_5
84T 2W 91T 2W
08/18/1999 18:21 1 0.20 0.00 Bay_5
83T 2W
08/18/1999 18:31 1 0.25 0.01 Bay_5
84T 2W 90T 1W
08/18/1999 18:41 1 0.00 0.01 Bay_5
90T 2W
08/18/1999 18:51 1 0.34 0.00 Bay_5
83T 2W
08/18/1999 19:01 1 0.00 0.01 Bay_5
90T 2W
08/18/1999 19:11 1 0.25 0.00 Bay_5
84T 2W
08/18/1999 19:21 1 0.27 0.00 Bay_5
83T 2W
08/18/1999 19:31 1 0.42 0.00 Bay_5
84T 3W
08/18/1999 19:41 1 0.23 0.01 Bay_5
83T 2W 91T 2W

Monitor Serial Number 1357 Date 08/18/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/18/1999 19:51 1 0.66 0.00 Bay_5
84T 3W
08/18/1999 20:01 1 0.38 0.00 Bay_5
84T 4W
08/18/1999 20:11 1 0.52 0.00 Bay_5
84T 3W
08/18/1999 20:21 1 0.32 0.00 Bay_5
83T 2W
08/18/1999 20:31 1 0.27 0.01 Bay_5
84T 4W 91T 2W

08/18/1999 20:51 1 0.32 0.01 Bay_5
84T 3W 89T 1W
08/18/1999 21:01 1 0.00 0.00 Bay_5
08/18/1999 21:11 1 0.40 0.01 Bay_5
84T 3W 90T 1W
08/18/1999 21:21 1 0.19 0.00 Bay_5
83T 2W
08/18/1999 21:31 1 0.29 0.00 Bay_5
84T 2W
08/18/1999 21:41 1 0.42 0.00 Bay_5
84T 3W
08/18/1999 21:51 1 0.10 0.01 Bay_5
84T 2W 90T 3W
08/18/1999 22:01 1 0.14 0.01 Bay_5
86T 3W 91T 1W
08/18/1999 22:11 1 0.27 0.00 Bay_5
85T 3W
08/18/1999 22:21 1 0.00 0.00 Bay_5
08/18/1999 22:31 1 0.24 0.01 Bay_5
84T 2W 90T 2W
08/18/1999 22:41 1 0.16 0.01 Bay_5
85T 2W 92T 2W
08/18/1999 22:51 1 0.00 0.00 Bay_5
08/18/1999 23:01 1 0.27 0.01 Bay_5
84T 3W 91T 3W
08/18/1999 23:11 1 0.21 0.01 Bay_5
83T 1W 92T 1W
08/18/1999 23:21 1 0.19 0.01 Bay_5
84T 2W 90T 2W
08/18/1999 23:31 1 0.33 0.01 Bay_5
84T 4W 90T 2W
08/18/1999 23:41 1 0.17 0.00 Bay_5
83T 1W
08/18/1999 23:51 1 0.21 0.01 Bay_5
84T 3W 90T 2W
08/19/1999 00:01 1 0.15 0.00 Bay_5
84T 2W
08/19/1999 00:11 1 0.28 0.01 Bay_5
84T 4W 91T 2W
08/19/1999 00:21 1 0.00 0.01 Bay_5
91T 2W
08/19/1999 00:31 1 0.23 0.00 Bay_5
83T 1W
08/19/1999 00:41 1 0.17 0.00 Bay_5
83T 2W
08/19/1999 00:51 1 0.21 0.00 Bay_5
83T 2W

Monitor Serial Number 1357 Date 08/19/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/19/1999 01:01 1 0.26 0.00 Bay_5
84T 2W
08/19/1999 01:11 1 0.00 0.01 Bay_5
91T 2W
08/19/1999 01:21 1 0.00 0.00 Bay_5
08/19/1999 01:31 1 0.18 0.00 Bay_5
84T 3W
08/19/1999 01:41 1 0.25 0.01 Bay_5
84T 2W 92T 2W
08/19/1999 01:51 1 0.19 0.00 Bay_5
85T 3W

08/19/1999 02:11 1 0.12 0.00 Bay_5
86T 1W
08/19/1999 02:21 1 0.27 0.00 Bay_5
85T 4W
08/19/1999 02:31 1 0.18 0.00 Bay_5
83T 1W
08/19/1999 02:41 1 0.00 0.01 Bay_5
91T 1W
08/19/1999 02:51 1 0.17 0.01 Bay_5
84T 3W 91T 2W
08/19/1999 03:01 1 0.30 0.01 Bay_5
84T 3W 88T 1W
08/19/1999 03:11 1 0.30 0.00 Bay_5
84T 3W
08/19/1999 03:21 1 0.00 0.01 Bay_5
90T 2W
08/19/1999 03:31 1 0.00 0.00 Bay_5
08/19/1999 03:41 1 0.14 0.01 Bay_5
84T 2W 90T 2W
08/19/1999 03:51 1 0.00 0.00 Bay_5
08/19/1999 04:01 1 0.16 0.01 Bay_5
85T 1W 89T 1W
08/19/1999 04:11 1 0.11 0.00 Bay_5
84T 1W
08/19/1999 04:21 1 0.21 0.00 Bay_5
84T 3W
08/19/1999 04:31 1 0.00 0.00 Bay_5
08/19/1999 04:41 1 0.16 0.00 Bay_5
84T 3W
08/19/1999 04:51 1 0.16 0.01 Bay_5
86T 3W 92T 2W
08/19/1999 05:01 1 0.00 0.00 Bay_5
08/19/1999 05:11 1 0.00 0.00 Bay_5
08/19/1999 05:21 1 0.24 0.00 Bay_5
85T 3W
08/19/1999 05:31 1 0.20 0.00 Bay_5
84T 1W
08/19/1999 05:41 1 0.00 0.00 Bay_5
08/19/1999 05:51 1 0.14 0.00 Bay_5
86T 1W
08/19/1999 06:01 1 0.21 0.00 Bay_5
83T 2W
08/19/1999 06:11 1 0.15 0.00 Bay_5
84T 1W
08/19/1999 06:21 1 0.00 0.00 Bay_5
08/19/1999 06:31 1 0.63 0.00 Bay_5
86T 1W

Monitor Serial Number 1357 Date 08/19/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/19/1999 06:41 1 0.25 0.00 Bay_5
83T 4W
08/19/1999 06:51 1 0.00 0.01 Bay_5
91T 2W
08/19/1999 07:01 1 0.09 0.00 Bay_5
84T 1W
08/19/1999 07:11 1 0.12 0.01 Bay_5
84T 2W 91T 1W
08/19/1999 07:21 1 0.17 0.01 Bay_5
84T 2W 89T 1W
08/19/1999 07:31 1 0.24 0.00 Bay_5

08/19/1999 07:51 1 0.98 0.95 Bay_5 CHE
84T 3W 91T 2W
08/19/1999 ********** MINICAMS OPERATING PARAMETERS ********** 07:52

S/N 1357 CHECK STATION 5

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 30	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a154	± 15
	FPD Flame	s225	a223	± 99
	Column		a 75	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 52	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 34	± 5
	Helium	s 40	a40.7	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 452	± 99
	Average flow rate		a 451	
	Volume, L		a3.61	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 40	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1080 a1089 ± 50

ELECTROMETER: FPD signal, nA 85 FPD zero, nA 379

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.98C	106H*	328A	83.5T	2.9W	b 81	e 87
GB	1 FPD	0.95C	2148H*	5211A	90.5T	2.1W	b 87	e 93

CALIBRATION DATA:

VX 1 @ 1.00 FPD	108H*	319A	84.3T	2.7W	08/18/1999	08:51
GB 1 @ 1.00 FPD	2263H*	5528A	90.8T	2.1W	08/18/1999	08:51

SAMPLING SEQUENCE:

A01 Bay_5

ELAPSED TIME ********** 147 sec

Monitor Serial Number 1357 Date 08/19/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/19/1999	08:01	1	0.25	0.05	Bay_5	
	84T 3W	91T 3W				
08/19/1999	08:11	1	0.00	0.01	Bay_5	
		91T 2W				
08/19/1999	08:21	1	0.23	0.01	Bay_5	

84T 4W
08/19/1999 08:41 1 0.00 0.00 Bay_5
08/19/1999 08:51 1 0.21 0.00 Bay_5
84T 3W
08/19/1999 09:01 1 0.27 0.01 Bay_5
85T 4W 89T 1W
08/19/1999 09:11 1 0.15 0.01 Bay_5
83T 3W 92T 3W
08/19/1999 09:21 1 0.00 0.01 Bay_5
91T 2W
08/19/1999 09:31 1 0.30 0.00 Bay_5
83T 2W
08/19/1999 09:41 1 0.22 0.01 Bay_5
84T 2W 88T 1W
08/19/1999 09:51 1 0.16 0.00 Bay_5
84T 2W
08/19/1999 10:01 1 0.27 0.01 Bay_5
84T 3W 92T 1W
08/19/1999 10:11 1 0.23 0.01 Bay_5
84T 2W 89T 2W
08/19/1999 10:21 1 0.00 0.00 Bay_5
08/19/1999 10:31 1 0.26 0.01 Bay_5
83T 2W 91T 2W
08/19/1999 10:41 1 0.31 0.00 Bay_5
84T 2W
08/19/1999 10:51 1 0.32 0.01 Bay_5
84T 2W 88T 2W
08/19/1999 11:01 1 0.21 0.01 Bay_5
84T 2W 89T 1W
08/19/1999 11:11 1 0.00 0.01 Bay_5
90T 1W
08/19/1999 11:21 1 0.00 0.01 Bay_5
89T 2W
08/19/1999 11:31 1 0.28 0.00 Bay_5
84T 2W
08/19/1999 11:41 1 0.00 0.01 Bay_5
91T 1W
08/19/1999 11:51 1 0.28 0.01 Bay_5
84T 3W 91T 2W
08/19/1999 12:01 1 0.31 0.00 Bay_5
85T 3W
08/19/1999 12:11 1 0.28 0.01 Bay_5
85T 2W 91T 2W
08/19/1999 12:21 1 0.00 0.01 Bay_5
91T 2W
08/19/1999 12:31 1 0.37 0.00 Bay_5
84T 2W
08/19/1999 12:41 1 0.40 0.01 Bay_5
84T 4W 90T 2W
08/19/1999 12:51 1 0.33 0.01 Bay_5
83T 2W 91T 2W
08/19/1999 13:01 1 0.26 0.01 Bay_5
83T 2W 90T 3W

Monitor Serial Number 1357 Date 08/19/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/19/1999 13:11 1 0.39 0.01 Bay_5
84T 4W 90T 2W
08/19/1999 13:21 1 0.47 0.00 Bay_5
84T 3W
08/19/1999 13:31 1 0.39 0.01 Bay_5

84T 2W 87T 1W
08/19/1999 13:51 1 0.31 0.01 Bay_5
84T 2W 91T 2W
08/19/1999 14:01 1 0.27 0.01 Bay_5
84T 2W 91T 3W
08/19/1999 14:11 1 0.49 0.00 Bay_5
83T 3W
08/19/1999 14:21 1 0.40 0.00 Bay_5
84T 3W
08/19/1999 14:31 1 0.24 0.01 Bay_5
84T 3W 89T 2W
08/19/1999 14:41 1 0.00 0.00 Bay_5
08/19/1999 14:51 1 0.30 0.01 Bay_5
84T 3W 91T 3W
08/19/1999 15:01 1 0.38 0.01 Bay_5
84T 3W 91T 2W
08/19/1999 15:11 1 0.18 0.00 Bay_5
85T 1W
08/19/1999 15:21 1 0.24 0.01 Bay_5
86T 2W 90T 2W
08/19/1999 15:31 1 0.00 0.00 Bay_5
08/19/1999 15:41 1 0.00 0.01 Bay_5
91T 2W
08/19/1999 15:51 1 0.30 0.00 Bay_5
84T 3W
08/19/1999 16:01 1 0.16 0.00 Bay_5
83T 1W
08/19/1999 16:11 1 0.00 0.01 Bay_5
90T 2W
08/19/1999 16:21 1 0.00 0.00 Bay_5
08/19/1999 16:31 1 0.00 0.01 Bay_5
91T 2W
08/19/1999 16:41 1 0.40 0.00 Bay_5
83T 3W
08/19/1999 16:51 1 0.17 0.01 Bay_5
84T 2W 91T 3W
08/19/1999 17:01 1 0.00 0.01 Bay_5
90T 2W
08/19/1999 17:11 1 0.00 0.01 Bay_5
90T 1W
08/19/1999 17:21 1 0.31 0.00 Bay_5
83T 2W
08/19/1999 17:31 1 0.39 0.01 Bay_5
84T 2W 91T 1W
08/19/1999 17:41 1 0.35 0.00 Bay_5
84T 2W
08/19/1999 17:51 1 0.46 0.01 Bay_5
84T 2W 89T 1W
08/19/1999 18:01 1 0.37 0.01 Bay_5
84T 2W 90T 1W
08/19/1999 18:11 1 0.00 0.01 Bay_5
91T 3W

Monitor Serial Number 1357 Date 08/19/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/19/1999 18:21 1 0.32 0.01 Bay_5
84T 3W 91T 1W
08/19/1999 18:31 1 0.00 0.01 Bay_5
90T 3W
08/19/1999 18:41 1 0.16 0.01 Bay_5
85T 3W 91T 3W

08/19/1999 19:01 1 0.00 0.01 Bay_5
90T 2W
08/19/1999 19:11 1 0.31 0.00 Bay_5
85T 3W
08/19/1999 19:21 1 0.23 0.00 Bay_5
84T 2W
08/19/1999 19:31 1 0.32 0.00 Bay_5
84T 2W
08/19/1999 19:41 1 0.39 0.01 Bay_5
84T 3W 91T 2W
08/19/1999 19:51 1 0.00 0.00 Bay_5
08/19/1999 20:01 1 0.15 0.00 Bay_5
85T 3W
08/19/1999 20:11 1 0.27 0.00 Bay_5
84T 3W
08/19/1999 20:21 1 0.20 0.00 Bay_5
85T 4W
08/19/1999 20:31 1 0.31 0.00 Bay_5
84T 2W
08/19/1999 20:41 1 0.29 0.01 Bay_5
84T 2W 91T 2W
08/19/1999 20:51 1 0.30 0.01 Bay_5
84T 3W 88T 1W
08/19/1999 21:01 1 0.26 0.00 Bay_5
84T 3W
08/19/1999 21:11 1 0.24 0.01 Bay_5
84T 2W 91T 2W
08/19/1999 21:21 1 0.29 0.01 Bay_5
84T 2W 90T 2W
08/19/1999 21:31 1 0.26 0.00 Bay_5
84T 3W
08/19/1999 21:41 1 0.00 0.00 Bay_5
08/19/1999 21:51 1 0.24 0.01 Bay_5
83T 3W 91T 1W
08/19/1999 22:01 1 0.19 0.01 Bay_5
86T 3W 92T 1W
08/19/1999 22:11 1 0.27 0.01 Bay_5
85T 3W 90T 2W
08/19/1999 22:21 1 0.16 0.01 Bay_5
84T 1W 92T 1W
08/19/1999 22:31 1 0.31 0.00 Bay_5
84T 2W
08/19/1999 22:41 1 0.00 0.00 Bay_5
08/19/1999 22:51 1 0.00 0.00 Bay_5
08/19/1999 23:01 1 0.00 0.00 Bay_5
08/19/1999 23:11 1 0.20 0.00 Bay_5
84T 2W
08/19/1999 23:21 1 0.12 0.01 Bay_5
84T 2W 91T 1W
08/19/1999 23:31 1 0.00 0.00 Bay_5
08/19/1999 23:41 1 0.23 0.00 Bay_5
84T 3W

Monitor Serial Number 1357 Date 08/19/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/19/1999	23:51	1	0.18	0.01	Bay_5	
	83T 4W	91T 2W				
08/20/1999	00:01	1	0.22	0.00	Bay_5	
	84T 3W					
08/20/1999	00:11	1	0.00	0.00	Bay_5	
08/20/1999	00:21	1	0.15	0.00	Bay_5	

08/20/1999 00:41 1 0.20 0.00 Bay_5
85T 4W
08/20/1999 00:51 1 0.21 0.00 Bay_5
84T 3W
08/20/1999 01:01 1 0.26 0.01 Bay_5
84T 3W 91T 1W
08/20/1999 01:11 1 0.23 0.00 Bay_5
85T 3W
08/20/1999 01:21 1 0.21 0.00 Bay_5
84T 4W
08/20/1999 01:31 1 0.20 0.00 Bay_5
83T 2W
08/20/1999 01:41 1 0.21 0.00 Bay_5
84T 2W
08/20/1999 01:51 1 0.00 0.00 Bay_5
08/20/1999 02:01 1 0.24 0.01 Bay_5
84T 3W 91T 1W
08/20/1999 02:11 1 0.27 0.01 Bay_5
84T 3W 91T 1W
08/20/1999 02:21 1 0.00 0.00 Bay_5
08/20/1999 02:31 1 0.26 0.01 Bay_5
84T 3W 91T 2W
08/20/1999 02:41 1 0.20 0.01 Bay_5
83T 3W 87T 1W
08/20/1999 02:51 1 0.00 0.00 Bay_5
08/20/1999 03:01 1 0.00 0.00 Bay_5
08/20/1999 03:11 1 0.20 0.00 Bay_5
84T 2W
08/20/1999 03:21 1 0.34 0.00 Bay_5
85T 4W
08/20/1999 03:31 1 0.22 0.00 Bay_5
84T 2W
08/20/1999 03:41 1 0.13 0.01 Bay_5
84T 1W 91T 2W
08/20/1999 03:51 1 0.18 0.00 Bay_5
84T 2W
08/20/1999 04:01 1 0.19 0.01 Bay_5
84T 2W 92T 3W
08/20/1999 04:11 1 0.24 0.01 Bay_5
84T 3W 91T 1W
08/20/1999 04:21 1 0.18 0.00 Bay_5
84T 3W
08/20/1999 04:31 1 0.25 0.00 Bay_5
84T 2W
08/20/1999 04:41 1 0.24 0.00 Bay_5
84T 2W
08/20/1999 04:51 1 0.23 0.00 Bay_5
84T 3W
08/20/1999 05:01 1 0.00 0.01 Bay_5
91T 1W
08/20/1999 05:11 1 0.15 0.01 Bay_5
83T 3W 90T 1W

Monitor Serial Number 1357 Date 08/20/1999 Sampling Station 5

Date Time Port VX GB TWAG

08/20/1999 05:21 1 0.23 0.00 Bay_5
84T 2W
08/20/1999 05:31 1 0.25 0.01 Bay_5
83T 2W 91T 2W
08/20/1999 05:41 1 0.17 0.01 Bay_5
85T 3W 91T 2W

```
08/20/1999 06:01  1   0.20    0.00  Bay_5
           84T 1W
08/20/1999 06:11  1   0.00    0.00  Bay_5
08/20/1999 06:21  1   0.19    0.01  Bay_5
           84T 2W  88T 1W
08/20/1999 06:31  1   0.21    0.01  Bay_5
           85T 3W  88T 1W
08/20/1999 06:41  1   0.21    0.00  Bay_5
           84T 1W
08/20/1999 06:51  1   0.12    0.00  Bay_5
           82T 1W
08/20/1999 07:01  1   0.00    0.01  Bay_5
                 91T 1W
```

A01 Bay_5

ELAPSED TIME ********** 119 sec

Monitor Serial Number 1357 Date 08/13/1999 Sampling Station 5

Date	Time	Port	VX	GB		TWAG
08/13/1999	17:55	1	0.47	0.19	Bay_5	
	83T 3W	90T 2W				
08/13/1999	18:05	1	0.59	0.07	Bay_5	
	83T 2W	90T 2W				
08/13/1999	18:15	1	3.00	0.05	Bay_5	ALA
	83T 4W	90T 2W				
08/13/1999	18:25	1	3.75	0.05	Bay_5	ALA
	83T 4W	90T 2W				
08/13/1999	18:35	1	3.69	0.04	Bay_5	ALA
	84T 4W	90T 2W				
08/13/1999	18:45	1	2.35	0.04	Bay_5	ALA
	83T 3W	91T 2W				
08/13/1999	18:55	1	8.55	0.00	Bay_5	ALA
	82T 3W					
08/13/1999	19:05	1	3.55	0.00	Bay_5	ALA
	83T 1W					
08/13/1999	19:15	1	12.1	0.05	Bay_5	ALA
	82T 5W	91T 2W				
VXW						ERROR
08/13/1999	19:25	1	0.00	0.00	Bay_5	
08/13/1999	19:35	1	0.00	0.00	Bay_5	
08/13/1999	19:45	1	1.18	0.00	Bay_5	ALA
	83T 2W					
08/13/1999	19:55	1	1.30	0.04	Bay_5	ALA
	82T 2W	90T 2W				
08/13/1999	20:05	1	0.00	0.03	Bay_5	
		91T 2W				
08/13/1999	20:15	1	3.54	0.03	Bay_5	ALA
	83T 4W	91T 2W				
08/13/1999	20:25	1	0.00	0.02	Bay_5	
		91T 2W				
08/13/1999	20:35	1	3.25	0.03	Bay_5	ALA
	84T 4W	91T 2W				
08/13/1999	20:45	1	0.00	0.03	Bay_5	
		91T 2W				
08/13/1999	20:55	1	0.57	0.02	Bay_5	
	83T 1W	90T 2W				
08/13/1999	21:05	1	0.89	0.02	Bay_5	
	84T 2W	91T 2W				
08/13/1999	21:15	1	1.35	0.02	Bay_5	ALA
	83T 3W	90T 1W				
08/13/1999	21:25	1	1.13	0.02	Bay_5	ALA
	83T 4W	90T 2W				
08/13/1999	21:35	1	1.34	0.01	Bay_5	ALA
	83T 4W	90T 2W				
08/13/1999	21:45	1	0.92	0.02	Bay_5	
	82T 3W	90T 2W				
08/13/1999	21:55	1	0.00	0.01	Bay_5	
		90T 2W				
08/13/1999	22:05	1	1.75	0.01	Bay_5	ALA
	83T 3W	90T 1W				
08/13/1999	22:15	1	0.41	0.02	Bay_5	
	84T 2W	90T 2W				
08/13/1999	22:25	1	0.00	0.03	Bay_5	

BAY 6
BAY 8
BAY 9

Monitor Serial Number 1359 Date 08/13/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/13/1999	19:10	2	0.00	0.00	Bay_9	CAL

CALIBRATION VX GB
AVERAGE 109H 2224H
08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 19:10

S/N 1359 CHECK STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 29	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a150	± 15
	FPD Flame	s225	a212	± 99
	Column		a 48	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a152	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 52	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a41.1	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 452	± 99
	Average flow rate		a 446	
	Volume, L		a3.57	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1115 a1123 ± 50

ELECTROMETER: FPD signal, nA 150 FPD zero, nA 757

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	2 FPD	1.00C	109H*	275A	88.2T	2.0W	b 85	e 91
GB	2 FPD	1.00C	2224H*	5841A	97.6T	2.3W	b 94	e100

CALIBRATION DATA:

VX 1 @ 1.00 FPD

GB 1 @ 1.00 FPD 2224H* 5841A 97.6T 2.3W 08/13/1999 19:10

SAMPLING SEQUENCE:

1 2

ELAPSED TIME ********** 132 sec

Monitor Serial Number 1359 Date 08/13/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/13/1999	19:20	1	1.54	1.84	Bay_8	CHE
	88T 2W	98T 2W				
08/13/1999	19:30	2	0.81	0.97	Bay_9	CHE
	89T 2W	98T 2W				

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 19:32

S/N 1359 STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 28	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a209	± 99
	Column		a 40	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a41.3	± 5
	Hydrogen	s 35	a 35	± 5
SAMPLE:	Flow rate, ccm	s 450	a 454	± 99
	Average flow rate		a 445	
	Volume, L		a3.57	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1115	a1118	± 50

ELECTROMETER:	FPD signal, nA	88	FPD zero, nA	767

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	2 FPD	0.81C	89H*	212A	88.5T	1.9W	b 85	e 91
GB	2 FPD	0.97C	2147H*	5840A	98.0T	2.3W	b 94	e100

CALIBRATION DATA:

VX	1 @	1.00 FPD	109H*	275A	88.2T	2.0W	08/13/1999	19:10
GB	1 @	1.00 FPD	2224H*	5841A	97.6T	2.3W	08/13/1999	19:10

DC
JJ

ELAPSED TIME ********** 250 sec

Monitor Serial Number 1359 Date 08/13/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/13/1999	19:40	1	0.22	0.10	Bay_8	
	86T 2W	98T 2W				
08/13/1999	19:50	2	0.00	0.06	Bay_9	
		98T 2W				
08/13/1999	20:00	1	0.00	0.04	Bay_8	
		98T 2W				
08/13/1999	20:10	2	0.12	0.04	Bay_9	
	86T 1W	98T 2W				
08/13/1999	20:20	1	0.11	0.03	Bay_8	
	88T 2W	98T 2W				
08/13/1999	20:30	2	0.10	0.03	Bay_9	
	90T 2W	98T 2W				
08/13/1999	20:40	1	0.15	0.03	Bay_8	
	86T 1W	98T 2W				
08/13/1999	20:50	2	0.10	0.03	Bay_9	
	89T 2W	98T 2W				
08/13/1999	21:00	1	0.14	0.03	Bay_8	
	90T 2W	98T 2W				
08/13/1999	21:10	2	0.00	0.03	Bay_9	
		99T 3W				
08/13/1999	21:20	1	0.00	0.03	Bay_8	
		98T 2W				
08/13/1999	21:30	2	0.13	0.03	Bay_9	
	90T 2W	98T 2W				
08/13/1999	21:40	1	0.00	0.02	Bay_8	
		98T 3W				
08/13/1999	21:50	2	0.00	0.03	Bay_9	
		99T 2W				
08/13/1999	22:00	1	0.00	0.02	Bay_8	
		98T 2W				
08/13/1999	22:10	2	0.10	0.02	Bay_9	
	90T 1W	98T 2W				
08/13/1999	22:20	1	0.00	0.02	Bay_8	
		99T 2W				
08/13/1999	22:30	2	0.00	0.02	Bay_9	
		98T 3W				
08/13/1999	22:40	1	0.13	0.02	Bay_8	
	87T 1W	98T 2W				
08/13/1999	22:50	2	0.07	0.02	Bay_9	
	87T 1W	98T 3W				
08/13/1999	23:00	1	0.09	0.02	Bay_8	
	86T 2W	98T 2W				
08/13/1999	23:10	2	0.00	0.02	Bay_9	
		98T 2W				
08/13/1999	23:20	1	0.00	0.02	Bay_8	
		98T 2W				
08/13/1999	23:30	2	0.00	0.02	Bay_9	
		99T 2W				
08/13/1999	23:40	1	0.11	0.02	Bay_8	
	90T 1W	98T 2W				
08/13/1999	23:50	2	0.00	0.02	Bay_9	
		99T 2W				
08/14/1999	00:00	1	0.14	0.02	Bay_8	
	89T 1W	99T 2W				
08/14/1999	00:10	2	0.00	0.02	Bay_9	
		98T 3W				

08/14/1999 00:30 2 0.09 0.02 Bay_9
91T 1W 98T 3W

Monitor Serial Number 1359 Date 08/14/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/14/1999	00:40	1	0.10	0.02	Bay_8	
	86T 1W	98T 3W				
08/14/1999	00:50	2	0.12	0.00	Bay_9	
	86T 1W					
08/14/1999	01:00	1	0.00	0.02	Bay_8	
		98T 2W				
08/14/1999	01:10	2	0.07	0.02	Bay_9	
	90T 1W	98T 2W				
08/14/1999	01:20	1	0.00	0.02	Bay_8	
		98T 3W				
08/14/1999	01:30	2	0.00	0.01	Bay_9	
		99T 2W				
08/14/1999	01:40	1	0.00	0.02	Bay_8	
		99T 2W				
08/14/1999	01:50	2	0.00	0.02	Bay_9	
		99T 2W				
08/14/1999	02:00	1	0.00	0.01	Bay_8	
		98T 2W				
08/14/1999	02:10	2	0.00	0.02	Bay_9	
		99T 2W				
08/14/1999	02:20	1	0.00	0.01	Bay_8	
		98T 2W				
08/14/1999	02:30	2	0.00	0.02	Bay_9	
		99T 2W				
08/14/1999	02:40	1	0.14	0.02	Bay_8	
	86T 1W	98T 2W				
08/14/1999	02:50	2	0.00	0.02	Bay_9	
		99T 2W				
08/14/1999	03:00	1	0.09	0.02	Bay_8	
	90T 1W	98T 2W				
08/14/1999	03:10	2	0.00	0.02	Bay_9	
		98T 3W				
08/14/1999	03:20	1	0.14	0.02	Bay_8	
	88T 1W	98T 3W				
08/14/1999	03:30	2	0.00	0.02	Bay_9	
		98T 2W				
08/14/1999	03:40	1	0.00	0.02	Bay_8	
		99T 2W				
08/14/1999	03:50	2	0.00	0.02	Bay_9	
		98T 2W				
08/14/1999	04:00	1	0.00	0.01	Bay_8	
		99T 2W				
08/14/1999	04:10	2	0.00	0.02	Bay_9	
		99T 2W				
08/14/1999	04:20	1	0.11	0.02	Bay_8	
	91T 1W	98T 3W				
08/14/1999	04:30	2	0.00	0.00	Bay_9	
08/14/1999	04:40	1	0.10	0.01	Bay_8	
	90T 3W	98T 3W				
08/14/1999	04:50	2	0.12	0.01	Bay_9	
	87T 1W	98T 1W				
08/14/1999	05:00	1	0.00	0.02	Bay_8	
		98T 3W				
08/14/1999	05:10	2	0.00	0.02	Bay_9	
		98T 3W				

98T 1W

Monitor Serial Number 1359 Date 08/14/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/14/1999	05:50	2	0.00	0.02	Bay_9	
		99T 2W				
08/14/1999	06:00	1	0.00	0.02	Bay_8	
		98T 3W				
08/14/1999	06:10	2	0.00	0.02	Bay_9	
		99T 3W				
08/14/1999	06:20	1	0.00	0.02	Bay_8	
		99T 3W				
08/14/1999	06:30	2	0.00	0.00	Bay_9	
08/14/1999	06:40	1	0.00	0.03	Bay_8	
		99T 3W				
08/14/1999	06:50	2	0.00	0.00	Bay_9	
08/14/1999	07:00	1	0.00	0.01	Bay_8	
		99T 3W				
08/14/1999	07:10	2	0.00	0.01	Bay_9	
		98T 2W				
08/14/1999	07:20	1	0.09	0.01	Bay_8	
	88T 1W	99T 2W				
08/14/1999	07:30	2	0.00	0.01	Bay_9	
		99T 3W				
08/14/1999	07:40	3	0.44	0.52	-	
	89T 3W	99T 2W				
08/14/1999	07:50	1	0.00	0.03	Bay_8	
		98T 3W				
08/14/1999	08:00	2	0.00	0.00	Bay_9	
08/14/1999	08:10	3	0.00	0.46	-	
		98T 3W				
08/14/1999	08:20	1	0.00	0.04	Bay_8	
		98T 2W				
08/14/1999	08:30	2	2.54	0.00	Bay_9	ALA
	89T 1W					
08/14/1999	08:40	3	0.68	0.42	-	
	85T 2W	98T 2W				
08/14/1999	08:50	1	1.06	0.95	Bay_8	ALA
	89T 3W	98T 2W				

08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:51

S/N 1359 ALARM STATION 8

SOFTWARE: Version 02181999

PC RTB

TEMPERATURES, °C:	Ambient	s 40	a 30	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a210	± 99
	Column		a 41	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium			

PAPER JAM RTB

08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:58

S/N 1359 ALARM STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 28	± 15
	Inlet	s 50	a 51	± 15
	FPD Flame	s225	a210	± 99
	FPD Block	s150	a149	± 15
	Column		a 40	
	Column, low	s 40		
			a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a151	
	Column rate Z	s 0	a 0	± 20
	PCT heater		a 52	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5

08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:58

S/N 1359 ALARM STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 28	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a147	± 15
	FPD Flame	s225	a209	± 99
	Column		a 40	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate Z	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a41.0	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 454	± 99
	Average flow rate		a 448	
	Volume, L		a3.59	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1115	a1118	± 50
ELECTROMETER:	FPD signal, nA	114	FPD zero, nA	717

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX i FPD 1.08C 118H* 361A 88.5T 2.5W b 85 e 91

DC
RB

BAY 6 ☆
BAY 8
BAY 9

CALIBRATION DATA:

```
VX 1 @  1.00 FPD      109H*    275A   88.2T  2.0W 08/13/1999   19:10
GB 1 @  1.00 FPD     2224H*   5841A   97.6T  2.3W 08/13/1999   19:10
```

SAMPLING SEQUENCE:

1 2 3

ELAPSED TIME ********** 559 sec

Monitor Serial Number 1359 Date 08/14/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/14/1999	09:01	2	0.00	0.04	Bay_9	
		98T 2W				
08/14/1999	09:11	3	0.00	0.43	-	
		98T 2W				
08/14/1999	09:21	1	0.00	0.00	Bay_8	
08/14/1999	09:31	2	0.00	0.04	Bay_9	
		94T 1W				
08/14/1999	09:41	3	1.57	0.41	-	ALA
	85T 3W	98T 2W				
VXW						ERROR
08/14/1999	09:51	1	0.24	0.02	Bay_8	
	87T 2W	98T 2W				
08/14/1999	10:01	2	1.58	0.00	Bay_9	ALA
	89T 1W					
08/14/1999	10:11	3	0.73	0.10	-	
	86T 2W	98T 3W				
08/14/1999	10:21	1	0.49	0.01	Bay_8	
	90T 2W	98T 3W				
08/14/1999	10:31	2	0.42	0.00	Bay_9	
	86T 1W					
08/14/1999	10:41	3	1.32	0.35	-	ALA
	88T 4W	98T 2W				
VXW						ERROR
08/14/1999	10:51	1	0.29	0.02	Bay_8	
	90T 2W	98T 2W				
08/14/1999	11:01	2	0.43	0.00	Bay_9	
	88T 1W					
08/14/1999	11:11	3	1.64	0.46	-	ALA
	89T 7W	98T 2W				
VXW						ERROR
08/14/1999	11:21	1	0.37	0.04	Bay_8	
	91T 2W	99T 2W				
08/14/1999	11:31	2	0.00	0.07	Bay_9	
		99T 2W				
08/14/1999	11:41	3	1.16	0.49	-	ALA
	88T 1W	98T 2W				
08/14/1999	11:51	1	0.69	0.03	Bay_8	
	91T 1W	98T 2W				
08/14/1999	12:01	2	0.00	0.00	Bay_9	
08/14/1999	12:11	3	0.68	0.50	-	
	89T 1W	98T 2W				
08/14/1999	12:21	1	0.72	0.00	Bay_8	
	91T 2W					
08/14/1999	12:31	2	4.87	0.00	Bay_9	ALA
	85T 2W					
08/14/1999	12:41	3	0.00	0.49	-	
		98T 2W				
08/14/1999	12:51	1	0.43	0.00	Bay_8	

```
          89T 1W
08/14/1999 13:11  3   2.04    0.46  -                                    ALA
          85T 6W  98T 2W
VXW                                                                      ERROR
08/14/1999 13:21  1   0.33    0.00  Bay_8
          86T 2W
08/14/1999 13:31  2   3.95    0.00  Bay_9                                ALA
          89T 3W
VXW                                                                      ERROR
```

Monitor Serial Number 1359 Date 08/14/1999 Sampling Station 8

```
Date        Time  Port   VX      GB                                     TWAG

08/14/1999 13:41  3   0.93    0.46  -
          88T 2W  98T 2W
08/14/1999 13:51  1   0.00    0.03  Bay_8
                  98T 2W
08/14/1999 14:01  2   4.10    0.09  Bay_9                                ALA
          88T 4W  95T 1W
VXW                                                                      ERROR
08/14/1999 14:11  3   0.96    0.42  -
          90T 2W  98T 2W
08/14/1999 14:21  1   0.38    0.05  Bay_8
          90T 2W  99T 3W
08/14/1999 14:31  2   3.33    0.00  Bay_9                                ALA
          88T 2W
08/14/1999 14:41  3   0.86    0.44  -
          88T 3W  98T 2W
08/14/1999 14:51  1   0.00    0.04  Bay_8
                  98T 3W
08/14/1999 15:01  2   3.87    0.03  Bay_9                                ALA
          88T 2W  95T 1W
08/14/1999 15:11  3   1.25    0.40  -                                    ALA
          86T 4W  98T 2W
VXW                                                                      ERROR
08/14/1999 15:21  1   0.35    0.04  Bay_8
          90T 3W  98T 2W
08/14/1999 15:31  2   1.40    0.02  Bay_9                                ALA
          88T 2W  95T 1W
08/14/1999 15:41  3   0.00    0.40  -
                  98T 2W
08/14/1999 15:51  1   0.11    0.03  Bay_8
          88T 1W  99T 3W
08/14/1999 16:01  2   1.61    0.05  Bay_9                                ALA
          90T 2W  98T 1W
08/14/1999 16:11  3   0.52    0.37  -
          87T 3W  98T 2W
08/14/1999 16:21  1   0.00    0.00  Bay_8
08/14/1999 16:31  2   0.85    0.04  Bay_9
          89T 2W  99T 2W
08/14/1999 16:41  3   0.49    0.36  -
          86T 1W  98T 2W
08/14/1999 16:51  1   0.34    0.03  Bay_8
          91T 2W  98T 3W
08/14/1999 17:01  2   1.40    0.00  Bay_9                                ALA
          88T 2W
08/14/1999 17:11  3   0.00    0.35  -
                  99T 2W
08/14/1999 17:21  1   0.37    0.03  Bay_8
          86T 2W  98T 2W
08/14/1999 17:31  2   2.23    0.00  Bay_9                                ALA
          85T 4W
```

98T 2W
08/14/1999 17:51 1 0.19 0.03 Bay_8
85T 1W 99T 3W
08/14/1999 18:01 2 0.83 0.00 Bay_9
86T 2W
08/14/1999 18:11 3 0.00 0.30 -
98T 2W
08/14/1999 18:21 1 0.29 0.03 Bay_8
87T 2W 98T 2W

Monitor Serial Number 1359 Date 08/14/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/14/1999	18:31	2	0.58	0.06	Bay_9	
88T 1W 99T 2W						
08/14/1999	18:41	3	1.37	0.27	-	ALA
89T 7W 99T 2W						
VXW						ERROR
08/14/1999	18:51	1	0.26	0.03	Bay_8	
91T 1W 98T 2W						
08/14/1999	19:01	2	0.86	0.00	Bay_9	
90T 1W						
08/14/1999	19:11	3	1.38	0.25	-	ALA
90T 9W 98T 2W						
VXW						ERROR
08/14/1999	19:21	1	0.32	0.02	Bay_8	
91T 2W 98T 2W						
08/14/1999	19:31	2	1.86	0.00	Bay_9	ALA
90T 2W						
08/14/1999	19:41	3	0.00	0.23	-	
98T 2W						
08/14/1999	19:51	1	0.00	0.03	Bay_8	
99T 3W						
08/14/1999	20:01	2	1.42	0.00	Bay_9	ALA
85T 3W						
08/14/1999	20:11	3	0.00	0.22	-	
98T 2W						
08/14/1999	20:21	1	0.18	0.02	Bay_8	
87T 3W 99T 2W						
08/14/1999	20:31	2	0.78	0.00	Bay_9	
91T 1W						
08/14/1999	20:41	3	0.00	0.17	-	
99T 2W						
08/14/1999	20:51	1	0.00	0.02	Bay_8	
98T 2W						
08/14/1999	21:01	2	0.34	0.00	Bay_9	
89T 2W						
08/14/1999	21:11	3	0.00	0.17	-	
98T 2W						
08/14/1999	21:21	1	0.00	0.00	Bay_8	
08/14/1999	21:31	2	0.00	0.00	Bay_9	
08/14/1999	21:41	3	0.00	0.17	-	
98T 2W						
08/14/1999	21:51	1	0.00	0.02	Bay_8	
99T 3W						
08/14/1999	22:01	2	0.56	0.00	Bay_9	
86T 2W						
08/14/1999	22:11	3	0.00	0.15	-	
98T 2W						
08/14/1999	22:21	1	0.00	0.01	Bay_8	
99T 2W						
08/14/1999	22:31	2	0.46	0.02	Bay_9	

```
                    99T 2W
08/14/1999 22:51  1   0.00    0.02  Bay_8
                    99T 3W
08/14/1999 23:01  2   0.91    0.02  Bay_9
          91T 3W  96T 3W
08/14/1999 23:11  3   0.00    0.14  -
                    98T 2W
08/14/1999 23:21  1   0.00    0.01  Bay_8
                    99T 2W
```

Monitor Serial Number 1359 Date 08/14/1999 Sampling Station 8

```
Date        Time  Port   VX      GB                                    TWAG

08/14/1999 23:31  2   0.71    0.00  Bay_9
          85T 2W
08/14/1999 23:41  3   0.00    0.12  -
                    99T 2W
08/14/1999 23:51  1   0.00    0.01  Bay_8
                    99T 2W
08/15/1999 00:01  2   0.55    0.02  Bay_9
          91T 2W  98T 2W
08/15/1999 00:11  3   0.00    0.12  -
                    99T 3W
08/15/1999 00:21  1   0.00    0.02  Bay_8
                    99T 2W
08/15/1999 00:31  2   0.00    0.00  Bay_9
08/15/1999 00:41  3   0.00    0.12  -
                    98T 2W
08/15/1999 00:51  1   0.00    0.00  Bay_8
08/15/1999 01:01  2   0.45    0.00  Bay_9
          86T 2W
08/15/1999 01:11  3   0.00    0.12  -
                    99T 3W
08/15/1999 01:21  1   0.00    0.02  Bay_8
                    98T 2W
08/15/1999 01:31  2   0.51    0.00  Bay_9
          91T 3W
08/15/1999 01:41  3   0.00    0.11  -
                    98T 2W
08/15/1999 01:51  1   0.00    0.02  Bay_8
                    98T 2W
08/15/1999 02:01  2   0.41    0.01  Bay_9
          87T 2W  98T 1W
08/15/1999 02:11  3   0.00    0.10  -
                    98T 2W
08/15/1999 02:21  1   0.00    0.01  Bay_8
                    99T 2W
08/15/1999 02:31  2   1.31    0.01  Bay_9                                 ALA
          91T10W  98T 2W
VXW                                                                       ERROR
08/15/1999 02:41  3   0.30    0.09  -
          89T 2W  98T 2W
08/15/1999 02:51  1   0.00    0.01  Bay_8
                    98T 1W
08/15/1999 03:01  2   1.19    0.01  Bay_9                                 ALA
          89T 9W  97T 3W
VXW                                                                       ERROR
08/15/1999 03:11  3   0.27    0.10  -
          89T 3W  98T 3W
08/15/1999 03:21  1   0.21    0.01  Bay_8
          91T 2W  99T 3W
08/15/1999 03:31  2   0.00    0.01  Bay_9
```

98T 2W
08/15/1999 03:51 1 0.00 0.01 Bay_8
99T 2W
08/15/1999 04:01 2 0.52 0.00 Bay_9
86T 2W
08/15/1999 04:11 3 0.00 0.10 -
98T 3W
08/15/1999 04:21 1 0.00 0.01 Bay_8
98T 2W

Monitor Serial Number 1359 Date 08/15/1999 Sampling Station 8

Date	Time	Port	VX	GB	TWAG
08/15/1999	04:31	2	0.33	0.01	Bay_9
91T 2W	98T 3W				
08/15/1999	04:41	3	0.00	0.09	-
99T 2W					
08/15/1999	04:51	1	0.11	0.01	Bay_8
91T 1W	99T 1W				
08/15/1999	05:01	2	0.00	0.00	Bay_9
08/15/1999	05:11	3	0.23	0.09	-
89T 3W	98T 3W				
08/15/1999	05:21	1	0.00	0.00	Bay_8
08/15/1999	05:31	2	0.00	0.01	Bay_9
99T 2W					
08/15/1999	05:41	3	0.00	0.08	-
98T 2W					
08/15/1999	05:51	1	0.13	0.01	Bay_8
90T 1W	99T 3W				
08/15/1999	06:01	2	0.22	0.00	Bay_9
91T 1W					
08/15/1999	06:11	3	0.00	0.08	-
98T 2W					
08/15/1999	06:21	1	0.13	0.01	Bay_8
87T 3W	98T 2W				
08/15/1999	06:31	2	0.00	0.00	Bay_9
08/15/1999	06:41	3	0.00	0.08	-
98T 2W					
08/15/1999	06:51	1	0.11	0.00	Bay_8
90T 1W					
08/15/1999	07:01	2	0.32	0.00	Bay_9
87T 3W					
08/15/1999	07:11	3	0.00	0.08	-
98T 2W					
08/15/1999	07:21	1	0.00	0.01	Bay_8
98T 2W					
08/15/1999	07:31	2	0.00	0.00	Bay_9
08/15/1999	07:41	3	0.00	0.07	-
99T 2W					
08/15/1999	07:51	1	0.00	0.01	Bay_8
99T 2W					
08/15/1999	08:01	2	0.34	0.01	Bay_9
90T 1W	99T 1W				
08/15/1999	08:11	3	0.00	0.08	-
98T 2W					
08/15/1999	08:21	1	0.16	0.01	Bay_8
87T 1W	99T 3W				
08/15/1999	08:31	2	0.00	0.00	Bay_9
08/15/1999	08:41	3	0.27	0.09	-
89T 1W	98T 2W				
08/15/1999	08:51	1	0.00	0.02	Bay_8
99T 2W					

Monitor Serial Number 1359 Date 08/15/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:05	3	0.00	0.02	-	
		98T 2W				
08/15/1999	09:15	1	0.13	0.00	Bay_8	
	91T 2W					
08/15/1999	09:25	2	0.00	0.86	Bay_9	CHE
		98T 3W				

Monitor Serial Number 1359 Date 08/15/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:35	3	1.01	0.91	-	CHE
	89T 3W	98T 2W				

08/15/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:36

S/N 1359 ALARM STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 29	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a212	± 99
	Column		a 43	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a41.1	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 458	± 99
	Average flow rate		a 436	
	Volume, L		a3.49	

DC
RCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1115 a1118 ± 50

ELECTROMETER: FPD signal, nA 137 FPD zero, nA 710

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	3 FPD	1.01C	111H*	363A	88.7T	2.7W	b 87	e 93
GB	3 FPD	0.91C	2024H*	5857A	98.1T	2.4W	b 94	e100

CALIBRATION DATA:

VX	@ 1.00 FPD	109H*	275A	88.2T	2.0W	08/13/1999	19:10
GB	@ 1.00 FPD	2224H*	5841A	97.8T	2.3W	08/13/1999	19:10

1 2 3

ELAPSED TIME ********** 180 sec

Monitor Serial Number 1359 Date 08/15/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:45	1	0.13	0.05	Bay_8	
	91T 2W	98T 2W				
08/15/1999	09:55	2	0.00	0.01	Bay_9	
		99T 2W				
08/15/1999	10:05	3	0.00	0.24	-	
		99T 2W				
08/15/1999	10:15	1	0.08	0.01	Bay_8	
	93T 2W	99T 1W				
08/15/1999	10:25	2	0.00	0.00	Bay_9	
08/15/1999	10:35	3	0.00	0.22	-	
		99T 2W				
08/15/1999	10:45	1	0.16	0.02	Bay_8	
	91T 2W	99T 2W				
08/15/1999	10:55	2	0.30	0.00	Bay_9	
	89T 1W					
08/15/1999	11:05	3	0.00	0.21	-	
		99T 3W				
08/15/1999	11:15	1	0.13	0.02	Bay_8	
	91T 2W	98T 3W				
08/15/1999	11:25	2	1.02	0.01	Bay_9	ALA
	91T 4W	96T 1W				
VXW						ERROR
08/15/1999	11:35	3	0.00	0.22	-	
		98T 2W				
08/15/1999	11:45	1	0.18	0.02	Bay_8	
	91T 2W	98T 3W				
08/15/1999	11:55	2	0.00	0.00	Bay_9	
08/15/1999	12:05	3	0.44	0.24	-	
	89T 3W	98T 2W				
08/15/1999	12:15	1	0.00	0.02	Bay_8	
		98T 2W				
08/15/1999	12:25	2	0.38	0.00	Bay_9	
	91T 1W					
08/15/1999	12:35	3	0.28	0.25	-	
	91T 2W	98T 3W				
08/15/1999	12:45	1	0.28	0.01	Bay_8	
	91T 2W	99T 2W				
08/15/1999	12:55	2	0.42	0.00	Bay_9	
	91T 1W					
08/15/1999	13:05	3	0.00	0.27	-	
		98T 2W				
08/15/1999	13:15	1	0.00	0.03	Bay_8	
		98T 2W				
08/15/1999	13:25	2	0.39	0.00	Bay_9	
	90T 1W					
08/15/1999	13:35	3	0.22	0.27	-	
	89T 1W	99T 2W				
08/15/1999	13:45	1	0.20	0.03	Bay_8	
	92T 2W	98T 2W				
08/15/1999	13:55	2	0.00	0.00	Bay_9	
08/15/1999	14:05	3	0.00	0.29	-	
		98T 2W				
08/15/1999	14:15	1	0.38	0.02	Bay_8	
	92T 2W	98T 2W				

90T 5W 98T 2W
VXW ERROR
08/15/1999 14:45 1 0.32 0.02 Bay_8
91T 2W 99T 2W

Monitor Serial Number 1359 Date 08/15/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/15/1999	14:55	2	0.00	0.01	Bay_9	
		98T 2W				
08/15/1999	15:05	3	0.00	0.31	-	
		98T 2W				
08/15/1999	15:15	1	0.27	0.03	Bay_8	
		91T 3W	99T 3W			
08/15/1999	15:25	2	0.00	0.02	Bay_9	
		94T 1W				
08/15/1999	15:35	3	0.00	0.30	-	
		99T 2W				
08/15/1999	15:45	1	0.27	0.02	Bay_8	
		91T 2W	99T 2W			
08/15/1999	15:55	2	1.62	0.02	Bay_9	ALA
		91T 8W	99T 3W			
VXW						ERROR
08/15/1999	16:05	3	0.00	0.31	-	
		98T 2W				
08/15/1999	16:15	1	0.23	0.03	Bay_8	
		91T 2W	99T 3W			
08/15/1999	16:25	2	0.47	0.00	Bay_9	
		91T 2W				
08/15/1999	16:35	3	0.00	0.30	-	
		98T 3W				
08/15/1999	16:45	1	0.30	0.02	Bay_8	
		91T 3W	99T 2W			
08/15/1999	16:55	2	0.00	0.00	Bay_9	
08/15/1999	17:05	3	0.23	0.29	-	
		89T 1W	99T 2W			
08/15/1999	17:15	1	0.15	0.02	Bay_8	
		91T 2W	99T 2W			
08/15/1999	17:25	2	0.00	0.01	Bay_9	
		98T 2W				
08/15/1999	17:35	3	0.00	0.28	-	
		98T 2W				
08/15/1999	17:45	1	0.16	0.02	Bay_8	
		92T 2W	99T 3W			
08/15/1999	17:55	2	1.15	0.01	Bay_9	ALA
		92T 4W	99T 1W			
VXW						ERROR
08/15/1999	18:05	3	0.00	0.30	-	
		98T 3W				
08/15/1999	18:15	1	0.15	0.03	Bay_8	
		93T 2W	99T 3W			
08/15/1999	18:25	2	0.75	0.02	Bay_9	
		89T 1W	97T 2W			
08/15/1999	18:35	3	0.29	0.27	-	
		89T 1W	99T 3W			
08/15/1999	18:45	1	0.18	0.03	Bay_8	
		91T 2W	98T 2W			
08/15/1999	18:55	2	0.74	0.00	Bay_9	
		92T 1W				
08/15/1999	19:05	3	0.00	0.27	-	
		98T 2W				
08/15/1999	19:15	1	0.23	0.03	Bay_8	

08/15/1999 19:35 3 0.19 0.27 -
91T 2W 98T 2W
08/15/1999 19:45 1 0.00 0.02 Bay_8
99T 3W

Monitor Serial Number 1359 Date 08/15/1999 Sampling Station 8

Date	Time	Port	VX	GB	TWAG
08/15/1999	19:55	2	0.49	0.00	Bay_9
92T 3W					
08/15/1999	20:05	3	0.26	0.23	-
89T 1W 99T 3W					
08/15/1999	20:15	1	0.22	0.02	Bay_8
91T 2W 99T 2W					
08/15/1999	20:25	2	0.73	0.02	Bay_9
91T 3W 99T 2W					
08/15/1999	20:35	3	0.00	0.21	-
98T 2W					
08/15/1999	20:45	1	0.00	0.00	Bay_8
08/15/1999	20:55	2	0.00	0.00	Bay_9
08/15/1999	21:05	3	0.21	0.18	-
88T 1W 98T 3W					
08/15/1999	21:15	1	0.14	0.02	Bay_8
91T 2W 99T 3W					
08/15/1999	21:25	2	0.00	0.01	Bay_9
99T 1W					
08/15/1999	21:35	3	0.00	0.18	-
99T 3W					
08/15/1999	21:45	1	0.24	0.02	Bay_8
91T 3W 98T 3W					
08/15/1999	21:55	2	0.23	0.02	Bay_9
91T 2W 99T 3W					
08/15/1999	22:05	3	0.00	0.17	-
98T 2W					
08/15/1999	22:15	1	0.00	0.01	Bay_8
98T 3W					
08/15/1999	22:25	2	0.43	0.00	Bay_9
90T 3W					
08/15/1999	22:35	3	0.00	0.15	-
99T 3W					
08/15/1999	22:45	1	0.12	0.02	Bay_8
92T 1W 98T 2W					
08/15/1999	22:55	2	0.00	0.01	Bay_9
96T 2W					
08/15/1999	23:05	3	0.00	0.14	-
99T 2W					
08/15/1999	23:15	1	0.00	0.02	Bay_8
98T 2W					
08/15/1999	23:25	2	0.00	0.00	Bay_9
08/15/1999	23:35	3	0.17	0.15	-
89T 2W 99T 3W					
08/15/1999	23:45	1	0.00	0.01	Bay_8
99T 1W					
08/15/1999	23:55	2	0.31	0.01	Bay_9
91T 3W 98T 2W					
08/16/1999	00:05	3	0.00	0.14	-
98T 3W					
08/16/1999	00:15	1	0.00	0.01	Bay_8
99T 2W					
08/16/1999	00:25	2	0.00	0.01	Bay_9
99T 1W					
08/16/1999	00:35	3	0.00	0.13	-

92T 2W 99T 2W
08/16/1999 00:55 2 0.00 0.01 Bay_9
96T 2W

Monitor Serial Number 1359 Date 08/16/1999 Sampling Station 8

Date	Time	Port	VX	GB	TWAG
08/16/1999	01:05	3	0.00	0.14	-
		99T 2W			
08/16/1999	01:15	1	0.12	0.02	Bay_8
		91T 1W 99T 2W			
08/16/1999	01:25	2	0.42	0.01	Bay_9
		91T 2W 97T 2W			
08/16/1999	01:35	3	0.00	0.12	-
		98T 3W			
08/16/1999	01:45	1	0.08	0.01	Bay_8
		90T 1W 99T 3W			
08/16/1999	01:55	2	0.16	0.00	Bay_9
		92T 1W			
08/16/1999	02:05	3	0.24	0.12	-
		89T 2W 98T 3W			
08/16/1999	02:15	1	0.00	0.01	Bay_8
		99T 2W			
08/16/1999	02:25	2	0.00	0.00	Bay_9
08/16/1999	02:35	3	0.22	0.12	-
		89T 1W 99T 2W			
08/16/1999	02:45	1	0.13	0.02	Bay_8
		91T 2W 99T 2W			
08/16/1999	02:55	2	0.19	0.01	Bay_9
		90T 2W 98T 1W			
08/16/1999	03:05	3	0.30	0.11	-
		89T 3W 98T 2W			
08/16/1999	03:15	1	0.00	0.02	Bay_8
		99T 3W			
08/16/1999	03:25	2	0.00	0.00	Bay_9
08/16/1999	03:35	3	0.00	0.11	-
		98T 2W			
08/16/1999	03:45	1	0.00	0.01	Bay_8
		99T 2W			
08/16/1999	03:55	2	0.00	0.00	Bay_9
08/16/1999	04:05	3	0.00	0.11	-
		99T 2W			
08/16/1999	04:15	1	0.11	0.01	Bay_8
		90T 2W 99T 1W			
08/16/1999	04:25	2	0.12	0.01	Bay_9
		92T 1W 98T 1W			
08/16/1999	04:35	3	0.00	0.11	-
		98T 3W			
08/16/1999	04:45	1	0.00	0.01	Bay_8
		99T 3W			
08/16/1999	04:55	2	0.20	0.01	Bay_9
		89T 3W 95T 2W			
08/16/1999	05:05	3	0.00	0.11	-
		98T 3W			
08/16/1999	05:15	1	0.00	0.00	Bay_8
08/16/1999	05:25	2	0.28	0.00	Bay_9
		91T 2W			
08/16/1999	05:35	3	0.20	0.11	-
		90T 2W 99T 3W			
08/16/1999	05:45	1	0.08	0.01	Bay_8
		91T 1W 99T 2W			
08/16/1999	05:55	2	0.27	0.01	Bay_9

98T 3W
08/16/1999 06:15 1 0.00 0.00 Bay_8

Monitor Serial Number 1359 Date 08/16/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/16/1999	06:25	2	0.17	0.00	Bay_9	
89T 1W						
08/16/1999	06:35	3	0.15	0.10	-	
90T 3W 98T 2W						
08/16/1999	06:45	1	0.00	0.00	Bay_8	
08/16/1999	06:55	2	0.00	0.01	Bay_9	
98T 2W						
08/16/1999	07:05	3	0.22	0.10	-	
89T 3W 99T 3W						
08/16/1999	07:15	1	0.00	0.01	Bay_8	
99T 3W						
08/16/1999	07:25	2	0.00	0.00	Bay_9	
08/16/1999	07:35	3	0.00	0.11	-	
99T 3W						
08/16/1999	07:45	1	0.09	0.01	Bay_8	
88T 2W 99T 2W						
08/16/1999	07:55	2	0.00	0.01	Bay_9	
98T 2W						
08/16/1999	08:05	3	0.15	0.11	-	
88T 1W 98T 2W						
08/16/1999	08:15	1	0.11	0.00	Bay_8	
88T 1W						
08/16/1999	08:25	2	1.04	0.84	Bay_9	CHE
89T 4W 98T 2W						

VXW ERROR

08/16/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:29

S/N 1359 ALARM ERROR STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 28	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a210	± 99
	Column		a 43	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a40.9	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 456	± 99
	Average flow rate		a 461	
	Volume, L		a3.69	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

DC
KB

ELECTROMETER: FPD signal, nA 78 FPD zero, nA 672

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	2 FPD	1.04C	113H*	441A	88.8T	3.5W	b 87	e 93
GB	2 FPD	0.84C	1867H*	5305A	98.3T	2.4W	b 94	e100

CALIBRATION DATA:

VX 1 @	1.00 FPD	109H*	275A	88.2T	2.0W	08/13/1999	19:10
GB 1 @	1.00 FPD	2224H*	5841A	97.6T	2.3W	08/13/1999	19:10

SAMPLING SEQUENCE:

1 2 3

ERRORS: VXW

ELAPSED TIME ********** 329 sec

Monitor Serial Number 1359 Date 08/16/1999 Sampling Station 8

Date	Time	Port	VX	GB	TWAG
08/16/1999	08:35	3	0.00	0.12	-
		98T 2W			
08/16/1999	08:45	1	0.00	0.01	Bay_8
		97T 2W			
08/16/1999	08:55	2	0.00	0.01	Bay_9
		100T 1W			
MINI-NET COMMUNICATIONS OFFLINE					
08/16/1999	09:05	3	0.37	0.13	-
	89T 3W	98T 3W			
08/16/1999	09:15	1	0.00	0.01	Bay_8
		100T 3W			
08/16/1999	09:25	2	0.00	0.01	Bay_9
		98T 1W			
08/16/1999	09:35	3	0.18	0.14	-
	89T 2W	98T 3W			
08/16/1999	09:45	1	0.00	0.00	Bay_8
08/16/1999	09:55	2	0.00	0.01	Bay_9
		96T 1W			
08/16/1999	10:05	3	0.22	0.13	-
	89T 1W	99T 3W			
08/16/1999	10:15	1	0.17	0.01	Bay_8
	91T 1W	98T 2W			
08/16/1999	10:25	2	0.33	0.01	Bay_9
	91T 3W	97T 2W			
08/16/1999	10:35	3	0.00	0.15	-
		98T 3W			
08/16/1999	10:45	1	0.00	0.00	Bay_8
08/16/1999	10:55	2	0.00	0.01	Bay_9
		97T 2W			
08/16/1999	11:05	3	0.00	0.15	-
		98T 2W			
08/16/1999	11:15	1	0.00	0.01	Bay_8
		100T 3W			
08/16/1999	11:25	2	0.20	0.01	Bay_9
	91T 2W	96T 1W			
08/16/1999	11:35	3	0.00	0.16	-
		99T 2W			
08/16/1999	11:45	1	0.13	0.01	Bay_8

```
                    96T 1W
08/16/1999 12:05  3   0.00    0.18  -
                    99T 2W
08/16/1999 12:15  1   0.20    0.02  Bay_8
          92T 3W  98T 3W
08/16/1999 12:25  2   0.36    0.01  Bay_9
          91T 2W  97T 2W
08/16/1999 12:35  3   0.00    0.19  -
                    98T 3W
MINI-NET COMMUNICATIONS ONLINE
08/16/1999 12:45  1   0.18    0.01  Bay_8                                    CHE
          91T 1W  99T 1W
08/16/1999 12:55  2   0.39    0.01  Bay_9
          89T 2W  96T 2W
08/16/1999 13:05  3   0.00    0.20  -
                    98T 3W
08/16/1999 13:15  1   0.16    0.01  Bay_8
          91T 2W  99T 2W
08/16/1999 13:25  2   0.26    0.01  Bay_9
          91T 1W  99T 2W
08/16/1999 13:35  3   0.00    0.21  -
                    98T 3W


Monitor Serial Number 1359          Date 08/16/1999        Sampling Station    8

Date        Time  Port   VX      GB                                          TWAG

08/16/1999 13:45  1   0.17    0.02  Bay_8
          91T 2W  99T 3W
08/16/1999 13:55  2   0.41    0.00  Bay_9
          91T 2W
08/16/1999 14:05  3   0.00    0.22  -
                    99T 3W
08/16/1999 14:15  1   0.11    0.00  Bay_8
          88T 1W
08/16/1999 14:25  2   0.38    0.00  Bay_9
          90T 2W
08/16/1999 14:35  3   0.00    0.24  -
                    99T 3W
08/16/1999 14:45  1   0.16    0.02  Bay_8
          91T 1W  98T 3W
08/16/1999 14:55  2   0.32    0.01  Bay_9
          90T 2W  95T 1W
08/16/1999 15:05  3   0.29    0.26  -
          89T 1W  99T 2W
08/16/1999 15:15  1   0.20    0.02  Bay_8
          92T 3W  99T 3W
08/16/1999 15:25  2   0.78    0.01  Bay_9
          91T 3W  98T 3W
08/16/1999 15:35  3   0.00    0.27  -
                    98T 3W
08/16/1999 15:45  1   0.23    0.02  Bay_8
          92T 2W  99T 2W
08/16/1999 15:55  2   0.00    0.01  Bay_9
                    98T 2W
08/16/1999 16:05  3   0.29    0.26  -
          91T 2W  98T 2W
08/16/1999 16:15  1   0.27    0.03  Bay_8
          91T 2W  99T 3W
08/16/1999 16:25  2   0.43    0.00  Bay_9
          91T 2W
08/16/1999 16:35  3   0.00    0.25  -
                    99T 3W
```

08/16/1999 16:55 2 0.79 0.02 Bay_9
91T 3W 96T 3W
08/16/1999 17:05 3 0.00 0.26 -
99T 2W
08/16/1999 17:15 1 0.14 0.03 Bay_8
91T 2W 99T 3W
08/16/1999 17:25 2 0.38 0.01 Bay_9
89T 2W 98T 1W
08/16/1999 17:35 3 0.00 0.27 -
99T 2W
08/16/1999 17:45 1 0.28 0.02 Bay_8
91T 2W 99T 3W
08/16/1999 17:55 2 0.00 0.00 Bay_9
08/16/1999 18:05 3 0.00 0.25 -
99T 2W
08/16/1999 18:15 1 0.00 0.02 Bay_8
99T 2W
08/16/1999 18:25 2 0.00 0.01 Bay_9
99T 2W
08/16/1999 18:35 3 0.00 0.24 -
99T 3W

Monitor Serial Number 1359 Date 08/16/1999 Sampling Station 8

Date Time Port VX GB TWAG

08/16/1999 18:45 1 0.27 0.02 Bay_8
91T 3W 99T 3W
08/16/1999 18:55 2 0.47 0.01 Bay_9
92T 3W 97T 2W
08/16/1999 19:05 3 0.27 0.22 -
89T 1W 99T 2W
08/16/1999 19:15 1 0.25 0.02 Bay_8
92T 1W 99T 2W
08/16/1999 19:25 2 0.29 0.00 Bay_9
92T 2W
08/16/1999 19:35 3 0.00 0.21 -
99T 2W
08/16/1999 19:45 1 0.34 0.02 Bay_8
91T 2W 99T 2W
08/16/1999 19:55 2 0.00 0.01 Bay_9
98T 2W
08/16/1999 20:05 3 0.00 0.20 -
99T 3W
08/16/1999 20:15 1 0.11 0.00 Bay_8
87T 2W
08/16/1999 20:25 2 0.22 0.00 Bay_9
90T 1W
08/16/1999 20:35 3 0.00 0.19 -
99T 2W
08/16/1999 20:45 1 0.00 0.02 Bay_8
99T 3W
08/16/1999 20:55 2 0.42 0.01 Bay_9
92T 2W 100T 1W
08/16/1999 21:05 3 0.00 0.16 -
98T 2W
08/16/1999 21:15 1 0.14 0.01 Bay_8
92T 2W 99T 2W
08/16/1999 21:25 2 0.19 0.00 Bay_9
92T 2W
08/16/1999 21:35 3 0.00 0.15 -
99T 2W
08/16/1999 21:45 1 0.25 0.00 Bay_8

08/16/1999 22:05 3 0.29 0.15 -
90T 2W 99T 2W
08/16/1999 22:15 1 0.13 0.01 Bay_8
92T 1W 100T 2W
08/16/1999 22:25 2 0.31 0.01 Bay_9
92T 2W 99T 1W
08/16/1999 22:35 3 0.00 0.14 -
99T 3W
08/16/1999 22:45 1 0.19 0.00 Bay_8
92T 1W
08/16/1999 22:55 2 0.00 0.01 Bay_9
99T 1W
08/16/1999 23:05 3 0.18 0.14 -
91T 2W 98T 2W
08/16/1999 23:15 1 0.00 0.01 Bay_8
99T 3W
08/16/1999 23:25 2 0.39 0.00 Bay_9
91T 3W
08/16/1999 23:35 3 0.00 0.13 -
99T 3W

Monitor Serial Number 1359 Date 08/16/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/16/1999	23:45	1	0.12	0.01	Bay_8	
	92T 1W	99T 2W				
08/16/1999	23:55	2	0.33	0.00	Bay_9	
	92T 1W					
08/17/1999	00:05	3	0.00	0.12	-	
	99T 3W					
08/17/1999	00:15	1	0.08	0.01	Bay_8	
	93T 1W	99T 2W				
08/17/1999	00:25	2	0.00	0.00	Bay_9	
08/17/1999	00:35	3	0.00	0.12	-	
	99T 3W					
08/17/1999	00:45	1	0.08	0.01	Bay_8	
	89T 1W	98T 2W				
08/17/1999	00:55	2	0.00	0.01	Bay_9	
	98T 3W					
08/17/1999	01:05	3	0.00	0.11	-	
	99T 3W					
08/17/1999	01:15	1	0.17	0.02	Bay_8	
	92T 2W	99T 3W				
08/17/1999	01:25	2	0.00	0.00	Bay_9	
08/17/1999	01:35	3	0.00	0.11	-	
	99T 3W					
08/17/1999	01:45	1	0.00	0.01	Bay_8	
	99T 1W					
08/17/1999	01:55	2	0.23	0.01	Bay_9	
	92T 1W	99T 2W				
08/17/1999	02:05	3	0.31	0.11	-	
	89T 3W	99T 3W				
08/17/1999	02:15	1	0.00	0.01	Bay_8	
	99T 2W					
08/17/1999	02:25	2	0.38	0.00	Bay_9	
	92T 2W					
08/17/1999	02:35	3	0.00	0.11	-	
	99T 2W					
08/17/1999	02:45	1	0.00	0.01	Bay_8	
	99T 2W					
08/17/1999	02:55	2	0.16	0.00	Bay_9	
	93T 1W					

08/17/1999 03:15 1 0.00 0.00 Bay_8
08/17/1999 03:25 2 0.00 0.00 Bay_9
08/17/1999 03:35 3 0.29 0.10 -
89T 3W 99T 3W
08/17/1999 03:45 1 0.00 0.01 Bay_8
99T 2W
08/17/1999 03:55 2 0.29 0.01 Bay_9
91T 3W 98T 2W
08/17/1999 04:05 3 0.00 0.10 -
99T 3W
08/17/1999 04:15 1 0.14 0.00 Bay_8
92T 2W
08/17/1999 04:25 2 0.00 0.00 Bay_9
08/17/1999 04:35 3 0.00 0.10 -
99T 3W
08/17/1999 04:45 1 0.00 0.01 Bay_8
99T 3W
08/17/1999 04:55 2 0.00 0.01 Bay_9
99T 1W

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date Time Port VX GB TWAG

08/17/1999 05:05 3 0.25 0.10 -
89T 1W 99T 3W
08/17/1999 05:15 1 0.14 0.01 Bay_8
91T 1W 99T 2W
08/17/1999 05:25 2 0.30 0.00 Bay_9
92T 2W
08/17/1999 05:35 3 0.12 0.10 -
89T 1W 99T 3W
08/17/1999 05:45 1 0.10 0.00 Bay_8
93T 1W
08/17/1999 05:55 2 0.19 0.01 Bay_9
92T 2W 97T 3W
08/17/1999 06:05 3 0.18 0.09 -
89T 2W 99T 3W
08/17/1999 06:15 1 0.17 0.00 Bay_8
91T 3W
08/17/1999 06:25 2 0.16 0.00 Bay_9
92T 2W
08/17/1999 06:35 3 0.14 0.10 -
89T 1W 99T 2W
08/17/1999 06:45 1 0.11 0.00 Bay_8
92T 1W
08/17/1999 06:55 2 0.12 0.00 Bay_9
92T 1W
08/17/1999 07:05 3 0.00 0.09 -
99T 3W
08/17/1999 07:15 1 0.00 0.01 Bay_8
99T 2W
08/17/1999 07:25 2 0.00 0.00 Bay_9
08/17/1999 07:35 3 0.00 0.09 -
98T 3W
08/17/1999 07:45 1 0.17 0.01 Bay_8
93T 2W 99T 3W
08/17/1999 07:55 2 0.11 0.01 Bay_9
92T 2W 99T 2W
08/17/1999 08:05 3 0.00 0.06 -
98T 2W
08/17/1999 08:15 1 0.21 0.00 Bay_8
89T 3W

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/17/1999	08:35	3	0.13	0.81	-	CHE
	94T 1W	98T 3W				

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/17/1999	08:45	1	0.09	0.04	Bay_8	CHE
	93T 1W	98T 2W				
08/17/1999	08:55	2	0.00	0.79	Bay_9	CAL
		98T 3W				
08/17/1999	09:05	3	0.00	1.65	-	SERVI
		98T 2W				
08/17/1999	09:15	1	0.05	0.07	Bay_8	SERVI
	93T 1W	98T 3W				
08/17/1999	09:25	2	0.00	0.02	Bay_9	SERVI
		98T 3W				
08/17/1999	09:35	3	0.09	0.01	-	SERVI
	91T 1W	98T 2W				
08/17/1999	09:45	1	0.00	0.01	Bay_8	SERVI
		100T 1W				

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/17/1999	09:53	2	0.17	0.01	Bay_9	SERVI
	91T 1W	98T 3W				
08/17/1999	10:03	3	0.00	0.82	-	CHE
		97T 3W				

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/17/1999	10:13	1	1.00	0.87	Bay_8	CHE
	88T 2W	98T 2W				

08/17/1999 ********** MINICAMS OPERATING PARAMETERS ********** 10:15

S/N 1359 ALARM STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 28	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a212	± 99
	Column		a 40	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30

	Helium	s 40	a41.2	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 458	± 99
	Average flow rate		a 465	
	Volume, L		a3.73	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1115 a1118 ± 50

ELECTROMETER: FPD signal, nA 161 FPD zero, nA 661

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.00C	110H*	304A	88.3T	2.3W	b 84	e 90
GB	1 FPD	0.87C	1927H*	5407A	97.8T	2.4W	b 94	e100

CALIBRATION DATA:

VX 1 @	1.00 FPD	109H*	275A	88.2T	2.0W	08/13/1999	19:10
GB 1 @	1.00 FPD	2224H*	5841A	97.6T	2.3W	08/13/1999	19:10

SAMPLING SEQUENCE:

1 2 3

ELAPSED TIME ********** 214 sec

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/17/1999	10:23	2	0.00	0.05	Bay_9	
		99T 3W				
08/17/1999	10:33	3	0.00	0.25	-	
		99T 3W				
08/17/1999	10:43	1	0.11	0.03	Bay_8	
	86T 1W	99T 3W				
08/17/1999	10:53	2	0.00	0.00	Bay_9	
08/17/1999	11:03	3	0.00	0.18	-	
		99T 3W				
08/17/1999	11:13	1	0.00	0.01	Bay_8	
		99T 3W				
08/17/1999	11:23	2	0.27	0.01	Bay_9	
	87T 2W	96T 2W				
08/17/1999	11:33	3	0.00	0.17	-	
		99T 3W				
08/17/1999	11:43	1	0.00	0.02	Bay_8	
		99T 3W				
08/17/1999	11:53	2	0.58	0.01	Bay_9	
	86T 1W	98T 1W				
08/17/1999	12:03	3	0.00	0.17	-	
		98T 2W				
08/17/1999	12:13	1	0.00	0.01	Bay_8	
		99T 2W				
08/17/1999	12:23	2	0.42	0.01	Bay_9	
	86T 1W	96T 1W				
08/17/1999	12:33	3	0.22	0.18	-	
	89T 2W	98T 3W				

08/17/1999 12:53 2 0.00 0.01 Bay_9
99T 1W
08/17/1999 13:03 3 0.00 0.17 -
99T 3W
08/17/1999 13:13 1 0.00 0.02 Bay_8
100T 3W
08/17/1999 13:23 2 0.36 0.03 Bay_9
89T 1W 99T 3W
08/17/1999 13:33 3 0.00 0.17 -
99T 2W
08/17/1999 13:43 1 0.00 0.02 Bay_8
99T 2W
08/17/1999 13:53 2 0.00 0.02 Bay_9
99T 2W
08/17/1999 14:03 3 0.00 0.18 -
99T 2W
08/17/1999 14:13 1 0.18 0.02 Bay_8
86T 2W 99T 3W
08/17/1999 14:23 2 0.44 0.01 Bay_9
89T 2W 96T 1W
08/17/1999 14:33 3 0.00 0.19 -
98T 2W
08/17/1999 14:43 1 0.00 0.01 Bay_8
99T 1W
08/17/1999 14:53 2 0.00 0.00 Bay_9
08/17/1999 15:03 3 0.00 0.19 -
99T 3W
08/17/1999 15:13 1 0.00 0.02 Bay_8
99T 3W
08/17/1999 15:23 2 0.15 0.02 Bay_9
87T 1W 99T 3W

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/17/1999	15:33	3	0.00	0.18	-	
		99T 3W				
08/17/1999	15:43	1	0.00	0.02	Bay_8	
		99T 2W				
08/17/1999	15:53	2	0.35	0.01	Bay_9	
		86T 2W 96T 2W				
08/17/1999	16:03	3	0.00	0.18	-	
		99T 2W				
08/17/1999	16:13	1	0.21	0.02	Bay_8	
		85T 2W 99T 2W				
08/17/1999	16:23	2	0.00	0.01	Bay_9	
		95T 2W				
08/17/1999	16:33	3	0.00	0.19	-	
		99T 2W				
08/17/1999	16:43	1	0.16	0.00	Bay_8	
		86T 1W				
08/17/1999	16:53	2	0.36	0.00	Bay_9	
		87T 2W				
08/17/1999	17:03	3	0.00	0.18	-	
		98T 2W				
08/17/1999	17:13	1	0.00	0.01	Bay_8	
		99T 2W				
08/17/1999	17:23	2	0.51	0.01	Bay_9	
		86T 2W 99T 1W				
08/17/1999	17:33	3	0.00	0.18	-	
		99T 3W				
08/17/1999	17:43	1	0.00	0.00	Bay_8	

08/17/1999 18:03 3 0.00 0.17 -
99T 3W
08/17/1999 18:13 1 0.19 0.01 Bay_8
85T 3W 99T 2W
08/17/1999 18:23 2 0.00 0.01 Bay_9
95T 2W
08/17/1999 18:33 3 0.00 0.16 -
99T 3W
08/17/1999 18:43 1 0.00 0.02 Bay_8
99T 3W
08/17/1999 18:53 2 0.00 0.01 Bay_9
99T 1W
08/17/1999 19:03 3 0.00 0.15 -
99T 3W
08/17/1999 19:13 1 0.00 0.02 Bay_8
99T 3W
08/17/1999 19:23 2 0.00 0.01 Bay_9
100T 2W
08/17/1999 19:33 3 0.00 0.15 -
99T 3W
08/17/1999 19:43 1 0.00 0.00 Bay_8
08/17/1999 19:53 2 0.00 0.02 Bay_9
95T 2W
08/17/1999 20:03 3 0.25 0.13 -
90T 2W 98T 2W
08/17/1999 20:13 1 0.00 0.01 Bay_8
99T 1W
08/17/1999 20:23 2 0.00 0.01 Bay_9
96T 2W
08/17/1999 20:33 3 0.00 0.12 -
98T 3W

Monitor Serial Number 1359 Date 08/17/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/17/1999	20:43	1	0.00	0.01	Bay_8	
		99T 2W				
08/17/1999	20:53	2	0.00	0.01	Bay_9	
		99T 2W				
08/17/1999	21:03	3	0.00	0.10	-	
		99T 2W				
08/17/1999	21:13	1	0.00	0.02	Bay_8	
		99T 3W				
08/17/1999	21:23	2	0.00	0.01	Bay_9	
		99T 1W				
08/17/1999	21:33	3	0.00	0.09	-	
		99T 2W				
08/17/1999	21:43	1	0.00	0.00	Bay_8	
08/17/1999	21:53	2	0.00	0.01	Bay_9	
		100T 3W				
08/17/1999	22:03	3	0.00	0.10	-	
		99T 3W				
08/17/1999	22:13	1	0.11	0.00	Bay_8	
		87T 1W				
08/17/1999	22:23	2	0.00	0.01	Bay_9	
		98T 3W				
08/17/1999	22:33	3	0.23	0.09	-	
		89T 3W 99T 3W				
08/17/1999	22:43	1	0.07	0.00	Bay_8	
		87T 1W				
08/17/1999	22:53	2	0.00	0.01	Bay_9	
		99T 2W				

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08/17/1999 23:13  1   0.00    0.01  Bay_8
                 100T 2W
08/17/1999 23:23  2   0.00    0.00  Bay_9
08/17/1999 23:33  3   0.00    0.09  -
                  99T 3W
08/17/1999 23:43  1   0.00    0.01  Bay_8
                  99T 2W
08/17/1999 23:53  2   0.00    0.01  Bay_9
                  99T 3W
08/18/1999 00:03  3   0.00    0.08  -
                  99T 3W
08/18/1999 00:13  1   0.00    0.01  Bay_8
                 100T 2W
08/18/1999 00:23  2   0.00    0.01  Bay_9
                  99T 2W
08/18/1999 00:33  3   0.00    0.08  -
                  99T 3W
08/18/1999 00:43  1   0.00    0.01  Bay_8
                  99T 3W
08/18/1999 00:53  2   0.00    0.00  Bay_9
08/18/1999 01:03  3   0.20    0.07  -
          89T 1W  99T 3W
08/18/1999 01:13  1   0.00    0.01  Bay_8
                  99T 1W
08/18/1999 01:23  2   0.00    0.00  Bay_9
08/18/1999 01:33  3   0.00    0.07  -
                  99T 3W
08/18/1999 01:43  1   0.14    0.01  Bay_8
          84T 2W  99T 1W
08/18/1999 01:53  2   0.00    0.00  Bay_9
```

Monitor Serial Number 1359 Date 08/18/1999 Sampling Station 8

```
Date        Time  Port   VX      GB                                    TWAG

08/18/1999 02:03  3   0.00    0.06  -
                  99T 2W
08/18/1999 02:13  1   0.00    0.01  Bay_8
                  99T 1W
08/18/1999 02:23  2   0.00    0.00  Bay_9
08/18/1999 02:33  3   0.00    0.07  -
                  98T 3W
08/18/1999 02:43  1   0.13    0.01  Bay_8
          88T 1W  99T 2W
08/18/1999 02:53  2   0.00    0.01  Bay_9
                  98T 1W
08/18/1999 03:03  3   0.00    0.07  -
                  99T 3W
08/18/1999 03:13  1   0.00    0.01  Bay_8
                 100T 1W
08/18/1999 03:23  2   0.00    0.00  Bay_9
08/18/1999 03:33  3   0.00    0.06  -
                  99T 2W
08/18/1999 03:43  1   0.00    0.00  Bay_8
08/18/1999 03:53  2   0.00    0.00  Bay_9
08/18/1999 04:03  3   0.00    0.06  -
                  98T 3W
08/18/1999 04:13  1   0.07    0.01  Bay_8
          84T 1W  99T 1W
08/18/1999 04:23  2   0.00    0.01  Bay_9
                  97T 2W
08/18/1999 04:33  3   0.00    0.06  -
                  99T 2W
```

```
                    99T 2W
08/18/1999 05:03  3   0.26    0.07  -
          90T 2W  99T 3W
08/18/1999 05:13  1   0.00    0.01  Bay_8
                  99T 3W
08/18/1999 05:23  2   0.00    0.00  Bay_9
08/18/1999 05:33  3   0.26    0.07  -
          89T 2W  99T 3W
08/18/1999 05:43  1   0.00    0.01  Bay_8
                  98T 2W
08/18/1999 05:53  2   0.00    0.00  Bay_9
08/18/1999 06:03  3   0.26    0.06  -
          90T 3W  99T 3W
08/18/1999 06:13  1   0.00    0.01  Bay_8
                  99T 3W
08/18/1999 06:23  2   0.00    0.00  Bay_9
08/18/1999 06:33  3   0.00    0.06  -
                  99T 2W
08/18/1999 06:43  1   0.14    0.01  Bay_8
          88T 1W  98T 3W
08/18/1999 06:53  2   0.00    0.00  Bay_9
08/18/1999 07:03  3   0.00    0.06  -
                  98T 3W
08/18/1999 07:13  1   0.00    0.01  Bay_8
                  98T 3W
08/18/1999 07:23  2   0.10    0.01  Bay_9
          87T 1W  98T 1W
08/18/1999 07:33  3   0.00    0.06  -
                  98T 3W


Monitor Serial Number 1359          Date 08/18/1999        Sampling Station    8

Date        Time  Port   VX      GB                                          TWAG

08/18/1999 07:43  1   0.19    0.00  Bay_8
          89T 3W
08/18/1999 07:53  2   0.00    0.00  Bay_9
08/18/1999 08:03  3   0.00    0.00  -
08/18/1999 08:13  1   0.00    0.01  Bay_8
                  95T 1W
08/18/1999 08:23  2   0.00    0.00  Bay_9
08/18/1999 08:33  3   0.00    0.00  -
08/18/1999 08:43  1   0.15    0.00  Bay_8
          85T 1W
08/18/1999 08:53  2   0.80    0.84  Bay_9                                     CAL
          89T 3W  98T 3W
CALIBRATION  VX      GB
AVERAGE     87H   1872H
08/18/1999 09:03  3   2.09    2.02  -                                         CHE
          89T 3W  98T 3W
08/18/1999 09:13  1   1.25    1.12  Bay_8                                     CHE
          90T 3W  99T 3W
08/18/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:17

S/N 1359            ALARM                                STATION    8

SOFTWARE:                                            Version 02181999

TEMPERATURES, °C:  Ambient              s 40        a 27        ± 15
                   Inlet                s 50        a 50        ± 15
                   FPD Block            s150        a151        ± 15
                   FPD Flame            s225        a211        ± 99
                   Column                           a 41
```

	Column rate, °C/min	s150	a152	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a41.3	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 456	± 99
	Average flow rate		a 458	
	Volume, L		a3.67	

DC
RB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1115	a1118	± 50

ELECTROMETER:	FPD signal, nA	123	FPD zero, nA	652

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1	FPD	1.25C	109H*	326A	89.7T	2.6W	b 84	e 90
GB	1	FPD	1.12C	2091H*	6240A	98.9T	2.5W	b 94	e100

CALIBRATION DATA:

VX	1 @	1.00	FPD	87H*	290A	88.8T	3.0W	08/18/1999 08:54
GB	1 @	1.00	FPD	1872H*	5736A	98.2T	2.7W	08/18/1999 08:54

SAMPLING SEQUENCE:

1 2 3

ELAPSED TIME ********** 345 sec

Monitor Serial Number 1359 Date 08/18/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/18/1999	09:23	2	0.00	0.06	Bay_9	
		99T 3W				
08/18/1999	09:33	3	0.41	0.16	-	
	89T 2W	99T 2W				
08/18/1999	09:43	1	0.13	0.02	Bay_8	
	87T 1W	99T 2W				
08/18/1999	09:53	2	0.00	0.00	Bay_9	
08/18/1999	10:03	3	0.00	0.12	-	
		99T 3W				
08/18/1999	10:13	1	0.00	0.02	Bay_8	
		99T 3W				
08/18/1999	10:23	2	0.00	0.01	Bay_9	
		99T 1W				
08/18/1999	10:33	3	0.00	0.11	-	
		99T 3W				
08/18/1999	10:43	1	0.00	0.01	Bay_8	
		99T 1W				
08/18/1999	10:53	2	0.00	0.01	Bay_9	
		97T 1W				
08/18/1999	11:03	3	0.64	0.11	-	

99T 2W
08/18/1999 11:23 2 0.00 0.01 Bay_9
97T 2W
08/18/1999 11:33 3 0.50 0.12 -
89T 4W 99T 3W
08/18/1999 11:43 1 0.00 0.01 Bay_8
100T 2W
08/18/1999 11:53 2 0.22 0.01 Bay_9
87T 1W 96T 2W
08/18/1999 12:03 3 0.00 0.12 -
99T 2W
08/18/1999 12:13 1 0.17 0.01 Bay_8
86T 2W 99T 2W
08/18/1999 12:23 2 0.00 0.02 Bay_9
100T 3W
08/18/1999 12:33 3 0.67 0.13 -
90T 4W 99T 3W
08/18/1999 12:43 1 0.00 0.01 Bay_8
99T 1W
08/18/1999 12:53 2 0.00 0.01 Bay_9
100T 2W
08/18/1999 13:03 3 0.00 0.14 -
99T 3W
08/18/1999 13:13 1 0.00 0.02 Bay_8
99T 3W
08/18/1999 13:23 2 0.00 0.01 Bay_9
99T 1W
08/18/1999 13:33 3 0.81 0.14 -
89T 4W 99T 3W
08/18/1999 13:43 1 0.00 0.01 Bay_8
100T 2W
08/18/1999 13:53 2 0.00 0.01 Bay_9
99T 2W
08/18/1999 14:03 3 0.54 0.15 -
90T 4W 99T 3W
08/18/1999 14:13 1 0.17 0.00 Bay_8
85T 1W

Monitor Serial Number 1359 Date 08/18/1999 Sampling Station 8

Date Time Port VX GB TWAG

08/18/1999 14:23 2 0.24 0.02 Bay_9
86T 2W 100T 3W
08/18/1999 14:33 3 0.69 0.13 -
90T 4W 99T 2W
08/18/1999 14:43 1 0.00 0.02 Bay_8
99T 3W
08/18/1999 14:53 2 0.00 0.01 Bay_9
99T 2W
08/18/1999 15:03 3 0.00 0.15 -
99T 3W
08/18/1999 15:13 1 0.00 0.02 Bay_8
99T 2W
08/18/1999 15:23 2 0.00 0.00 Bay_9
08/18/1999 15:33 3 0.76 0.15 -
90T 4W 99T 3W
08/18/1999 15:43 1 0.00 0.01 Bay_8
100T 2W
08/18/1999 15:53 2 0.00 0.01 Bay_9
100T 1W
08/18/1999 16:03 3 0.00 0.16 -
99T 3W

08/18/1999 16:23 2 0.41 0.01 Bay_9
89T 2W 99T 1W
08/18/1999 16:33 3 0.00 0.14 -
99T 2W
08/18/1999 16:43 1 0.00 0.01 Bay_8
98T 2W
08/18/1999 16:53 2 0.30 0.00 Bay_9
89T 2W
08/18/1999 17:03 3 0.00 0.15 -
99T 3W
08/18/1999 17:13 1 0.00 0.02 Bay_8
99T 2W
08/18/1999 17:23 2 0.45 0.01 Bay_9
86T 2W 96T 2W
08/18/1999 17:33 3 0.00 0.15 -
99T 3W
08/18/1999 17:43 1 0.19 0.01 Bay_8
84T 1W 99T 2W
08/18/1999 17:53 2 0.42 0.01 Bay_9
86T 2W 99T 1W
08/18/1999 18:03 3 0.85 0.14 -
89T 4W 99T 3W
08/18/1999 18:13 1 0.10 0.02 Bay_8
86T 1W 99T 3W
08/18/1999 18:23 2 0.00 0.00 Bay_9
08/18/1999 18:33 3 0.00 0.14 -
99T 2W
08/18/1999 18:43 1 0.13 0.01 Bay_8
87T 1W 99T 2W
08/18/1999 18:53 2 0.00 0.00 Bay_9
08/18/1999 19:03 3 0.58 0.14 -
90T 4W 99T 3W
08/18/1999 19:13 1 0.00 0.01 Bay_8
99T 2W
08/18/1999 19:23 2 0.00 0.01 Bay_9
98T 1W

Monitor Serial Number 1359 Date 08/18/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/18/1999	19:33	3	0.67	0.13	-	
	90T 4W	99T 3W				
08/18/1999	19:43	1	0.00	0.01	Bay_8	
	99T 2W					
08/18/1999	19:53	2	0.00	0.01	Bay_9	
	99T 2W					
08/18/1999	20:03	3	0.00	0.12	-	
	98T 3W					
08/18/1999	20:13	1	0.00	0.02	Bay_8	
	99T 2W					
08/18/1999	20:23	2	0.00	0.00	Bay_9	
08/18/1999	20:33	3	0.00	0.10	-	
	99T 3W					
08/18/1999	20:43	1	0.00	0.01	Bay_8	
	99T 1W					
08/18/1999	20:53	2	0.00	0.01	Bay_9	
	99T 2W					
08/18/1999	21:03	3	0.42	0.09	-	
	90T 3W	99T 3W				
08/18/1999	21:13	1	0.17	0.01	Bay_8	
	87T 2W	99T 2W				
08/18/1999	21:23	2	0.00	0.01	Bay_9	

```
                    99T 3W
08/18/1999 21:43  1   0.00    0.01  Bay_8
                    99T 2W
08/18/1999 21:53  2   0.00    0.00  Bay_9
08/18/1999 22:03  3   0.36    0.08  -
          89T 2W  99T 3W
08/18/1999 22:13  1   0.00    0.00  Bay_8
08/18/1999 22:23  2   0.00    0.01  Bay_9
                    99T 3W
08/18/1999 22:33  3   0.38    0.08  -
          90T 4W  99T 2W
08/18/1999 22:43  1   0.15    0.01  Bay_8
          87T 1W  99T 1W
08/18/1999 22:53  2   0.00    0.00  Bay_9
08/18/1999 23:03  3   0.46    0.07  -
          89T 5W  99T 3W
08/18/1999 23:13  1   0.00    0.01  Bay_8
                    99T 2W
08/18/1999 23:23  2   0.00    0.01  Bay_9
                    99T 2W
08/18/1999 23:33  3   0.00    0.08  -
                    98T 3W
08/18/1999 23:43  1   0.00    0.01  Bay_8
                    99T 2W
08/18/1999 23:53  2   0.00    0.01  Bay_9
                    98T 2W
08/19/1999 00:03  3   0.00    0.07  -
                    98T 3W
08/19/1999 00:13  1   0.00    0.00  Bay_8
08/19/1999 00:23  2   0.17    0.00  Bay_9
          88T 1W
08/19/1999 00:33  3   0.00    0.07  -
                    99T 3W
08/19/1999 00:43  1   0.00    0.01  Bay_8
                    99T 2W


Monitor Serial Number 1359          Date 08/19/1999        Sampling Station    8

Date        Time  Port   VX      GB                                          TWAG

08/19/1999 00:53  2   0.00    0.00  Bay_9
08/19/1999 01:03  3   0.36    0.07  -
          89T 4W  99T 3W
08/19/1999 01:13  1   0.14    0.00  Bay_8
          84T 2W
08/19/1999 01:23  2   0.00    0.00  Bay_9
08/19/1999 01:33  3   0.34    0.07  -
          89T 4W  99T 3W
08/19/1999 01:43  1   0.00    0.01  Bay_8
                   100T 1W
08/19/1999 01:53  2   0.00    0.01  Bay_9
                    99T 1W
08/19/1999 02:03  3   0.13    0.07  -
          86T 1W  99T 3W
08/19/1999 02:13  1   0.00    0.01  Bay_8
                    99T 2W
08/19/1999 02:23  2   0.00    0.00  Bay_9
08/19/1999 02:33  3   0.28    0.06  -
          89T 3W  99T 2W
08/19/1999 02:43  1   0.00    0.00  Bay_8
08/19/1999 02:53  2   0.00    0.00  Bay_9
08/19/1999 03:03  3   0.00    0.06  -
                    99T 3W
```

08/19/1999 03:23 2 0.00 0.00 Bay_9
08/19/1999 03:33 3 0.00 0.06 -
99T 2W
08/19/1999 03:43 1 0.00 0.00 Bay_8
08/19/1999 03:53 2 0.09 0.01 Bay_9
87T 1W 98T 2W
08/19/1999 04:03 3 0.00 0.05 -
99T 3W
08/19/1999 04:13 1 0.00 0.01 Bay_8
99T 3W
08/19/1999 04:23 2 0.00 0.01 Bay_9
96T 2W
08/19/1999 04:33 3 0.00 0.05 -
99T 3W
08/19/1999 04:43 1 0.14 0.01 Bay_8
88T 2W 95T 1W
08/19/1999 04:53 2 0.00 0.00 Bay_9
08/19/1999 05:03 3 0.30 0.05 -
89T 4W 99T 2W
08/19/1999 05:13 1 0.12 0.00 Bay_8
89T 1W
08/19/1999 05:23 2 0.00 0.00 Bay_9
08/19/1999 05:33 3 0.33 0.05 -
90T 3W 99T 3W
08/19/1999 05:43 1 0.00 0.00 Bay_8
08/19/1999 05:53 2 0.16 0.00 Bay_9
88T 1W
08/19/1999 06:03 3 0.00 0.05 -
99T 3W
08/19/1999 06:13 1 0.18 0.01 Bay_8
88T 2W 100T 2W
08/19/1999 06:23 2 0.11 0.00 Bay_9
87T 1W
08/19/1999 06:33 3 0.32 0.05 -
89T 3W 99T 2W

Monitor Serial Number 1359 Date 08/19/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/19/1999	06:43	1	0.00	0.00	Bay_8	
08/19/1999	06:53	2	0.00	0.00	Bay_9	
08/19/1999	07:03	3	0.13	0.05	-	
	85T 1W		99T 3W			
08/19/1999	07:13	1	0.00	0.01	Bay_8	
			99T 1W			
08/19/1999	07:23	2	0.00	0.00	Bay_9	
08/19/1999	07:33	3	0.37	0.06	-	
	89T 4W		98T 3W			
08/19/1999	07:43	1	0.09	0.00	Bay_8	
	89T 1W					
08/19/1999	07:53	2	1.25	1.02	Bay_9	CHE
	89T 3W		99T 3W			

08/19/1999 ********** MINICAMS OPERATING PARAMETERS ********** 07:56

S/N 1359 ALARM STATION 8

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 29	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a150	± 15
	FPD Flame	s225	a210	± 39

	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 35	a 35	± 5
	Helium	s 40	a41.1	± 5
	Hydrogen	s 35	a 34	± 5
SAMPLE:	Flow rate, ccm	s 450	a 452	± 99
	Average flow rate		a 452	
	Volume, L		a3.62	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1115	a1118	± 50
ELECTROMETER:	FPD signal, nA	78	FPD zero, nA	600

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	2 FPD	1.25C	109H*	389A	89.1T	3.1W	b 84	e 90
GB	2 FPD	1.02C	1901H*	5704A	98.7T	2.5W	b 94	e100

CALIBRATION DATA:

VX	1 @	1.00 FPD	87H*	290A	88.8T	3.0W	08/18/1999	08:54
GB	1 @	1.00 FPD	1872H*	5736A	98.2T	2.7W	08/18/1999	08:54

SAMPLING SEQUENCE:

1 2 3

ELAPSED TIME ********** 297 sec

Monitor Serial Number 1359 Date 08/19/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/19/1999	08:03	3	0.40	0.09	-	
	89T 3W	99T 3W				
08/19/1999	08:13	1	0.00	0.02	Bay_8	
	99T 2W					
08/19/1999	08:23	2	0.00	0.01	Bay_9	
	99T 3W					
08/19/1999	08:33	3	0.30	0.06	-	
	90T 4W	99T 3W				
08/19/1999	08:43	1	0.00	0.01	Bay_8	
	100T 2W					
08/19/1999	08:53	2	0.00	0.00	Bay_9	
08/19/1999	09:03	3	0.33	0.06	-	
	89T 3W	98T 3W				
08/19/1999	09:13	1	0.15	0.01	Bay_8	
	89T 1W	99T 2W				
08/19/1999	09:23	2	0.00	0.01	Bay_9	
	97T 2W					
08/19/1999	09:33	3	0.00	0.06	-	
	99T 2W					

08/19/1999 09:53 2 0.00 0.00 Bay_9
08/19/1999 10:03 3 0.00 0.07 -
99T 3W
08/19/1999 10:13 1 0.00 0.01 Bay_8
98T 2W
08/19/1999 10:23 2 0.00 0.01 Bay_9
100T 1W
08/19/1999 10:33 3 0.42 0.08 -
89T 4W 99T 3W
08/19/1999 10:43 1 0.00 0.00 Bay_8
08/19/1999 10:53 2 0.00 0.01 Bay_9
99T 1W
08/19/1999 11:03 3 0.16 0.08 -
89T 1W 99T 3W
08/19/1999 11:13 1 0.00 0.01 Bay_8
99T 3W
08/19/1999 11:23 2 0.00 0.00 Bay_9
08/19/1999 11:33 3 0.51 0.09 -
89T 4W 99T 3W
08/19/1999 11:43 1 0.00 0.01 Bay_8
99T 3W
08/19/1999 11:53 2 0.00 0.01 Bay_9
99T 2W
08/19/1999 12:03 3 0.00 0.10 -
99T 3W
08/19/1999 12:13 1 0.00 0.01 Bay_8
99T 1W
08/19/1999 12:23 2 0.00 0.00 Bay_9
08/19/1999 12:33 3 0.00 0.10 -
99T 2W
08/19/1999 12:43 1 0.13 0.02 Bay_8
86T 1W 99T 3W
08/19/1999 12:53 2 0.00 0.01 Bay_9
99T 2W
08/19/1999 13:03 3 0.51 0.10 -
89T 4W 99T 3W
08/19/1999 13:13 1 0.00 0.01 Bay_8
99T 3W

Monitor Serial Number 1359 Date 08/19/1999 Sampling Station 8

Date Time Port VX GB TWAG

08/19/1999 13:23 2 0.00 0.00 Bay_9
08/19/1999 13:33 3 0.55 0.11 -
89T 4W 99T 3W
08/19/1999 13:43 1 0.12 0.02 Bay_8
84T 1W 99T 2W
08/19/1999 13:53 2 0.26 0.00 Bay_9
87T 2W
08/19/1999 14:03 3 0.00 0.10 -
99T 3W
08/19/1999 14:13 1 0.09 0.01 Bay_8
88T 1W 99T 2W
08/19/1999 14:23 2 0.00 0.00 Bay_9
08/19/1999 14:33 3 0.00 0.10 -
99T 3W
08/19/1999 14:43 1 0.15 0.01 Bay_8
86T 2W 99T 2W
08/19/1999 14:53 2 0.00 0.01 Bay_9
99T 1W
08/19/1999 15:03 3 0.00 0.10 -
99T 2W

08/19/1999 15:23 2 0.00 0.01 Bay_9
99T 1W
08/19/1999 15:33 3 0.52 0.11 -
90T 4W 99T 3W
08/19/1999 15:43 1 0.00 0.01 Bay_8
100T 3W
08/19/1999 15:53 2 0.00 0.01 Bay_9
99T 2W
08/19/1999 16:03 3 0.00 0.11 -
99T 3W
08/19/1999 16:13 1 0.00 0.02 Bay_8
99T 3W
08/19/1999 16:23 2 0.00 0.01 Bay_9
98T 1W
08/19/1999 16:33 3 0.00 0.10 -
99T 3W
08/19/1999 16:43 1 0.16 0.02 Bay_8
87T 1W 99T 3W
08/19/1999 16:53 2 0.00 0.01 Bay_9
99T 1W
08/19/1999 17:03 3 0.00 0.10 -
99T 2W
08/19/1999 17:13 1 0.00 0.02 Bay_8
99T 3W
08/19/1999 17:23 2 0.00 0.01 Bay_9
99T 3W
08/19/1999 17:33 3 0.61 0.10 -
90T 3W 99T 3W
08/19/1999 17:43 1 0.00 0.01 Bay_8
99T 2W
08/19/1999 17:53 2 0.16 0.02 Bay_9
86T 1W 99T 2W
08/19/1999 18:03 3 0.50 0.10 -
89T 4W 99T 3W
08/19/1999 18:13 1 0.00 0.00 Bay_8
08/19/1999 18:23 2 0.00 0.01 Bay_9
99T 2W

Monitor Serial Number 1359 Date 08/19/1999 Sampling Station 8

Date	Time	Port	VX	GB	TWAG
08/19/1999	18:33	3	0.00	0.10	-
		99T 3W			
08/19/1999	18:43	1	0.00	0.01	Bay_8
		99T 2W			
08/19/1999	18:53	2	0.00	0.00	Bay_9
08/19/1999	19:03	3	0.00	0.08	-
		99T 2W			
08/19/1999	19:13	1	0.00	0.01	Bay_8
		100T 2W			
08/19/1999	19:23	2	0.00	0.01	Bay_9
		99T 2W			
08/19/1999	19:33	3	0.00	0.08	-
		99T 3W			
08/19/1999	19:43	1	0.00	0.01	Bay_8
		99T 2W			
08/19/1999	19:53	2	0.00	0.00	Bay_9
08/19/1999	20:03	3	0.00	0.07	-
		99T 3W			
08/19/1999	20:13	1	0.00	0.00	Bay_8
08/19/1999	20:23	2	0.00	0.00	Bay_9
08/19/1999	20:33	3	0.00	0.08	-

```
                    99T 3W
08/19/1999 20:53  2   0.00    0.00  Bay_9
08/19/1999 21:03  3   0.00    0.07  -
                    99T 3W
08/19/1999 21:13  1   0.00    0.01  Bay_8
                    99T 3W
08/19/1999 21:23  2   0.00    0.01  Bay_9
                   100T 2W
08/19/1999 21:33  3   0.16    0.07  -
          84T 1W  99T 3W
08/19/1999 21:43  1   0.00    0.01  Bay_8
                   100T 2W
08/19/1999 21:53  2   0.00    0.00  Bay_9
08/19/1999 22:03  3   0.00    0.07  -
                    99T 3W
08/19/1999 22:13  1   0.00    0.00  Bay_8
08/19/1999 22:23  2   0.00    0.00  Bay_9
08/19/1999 22:33  3   0.00    0.07  -
                    99T 3W
08/19/1999 22:43  1   0.00    0.01  Bay_8
                    99T 1W
08/19/1999 22:53  2   0.00    0.01  Bay_9
                    98T 2W
08/19/1999 23:03  3   0.40    0.05  -
          90T 4W  99T 3W
08/19/1999 23:13  1   0.10    0.01  Bay_8
          85T 1W 100T 2W
08/19/1999 23:23  2   0.00    0.00  Bay_9
08/19/1999 23:33  3   0.00    0.06  -
                   99T 3W
08/19/1999 23:43  1   0.10    0.00  Bay_8
          87T 1W
08/19/1999 23:53  2   0.00    0.00  Bay_9
08/20/1999 00:03  3   0.12    0.05  -
          87T 1W  99T 3W
08/20/1999 00:13  1   0.00    0.00  Bay_8
```

Monitor Serial Number 1359 Date 08/20/1999 Sampling Station 8

```
Date        Time  Port   VX      GB                                    TWAG

08/20/1999 00:23  2   0.00    0.00  Bay_9
08/20/1999 00:33  3   0.00    0.06  -
                   99T 3W
08/20/1999 00:43  1   0.00    0.01  Bay_8
                  100T 3W
08/20/1999 00:53  2   0.00    0.00  Bay_9
08/20/1999 01:03  3   0.28    0.05  -
          89T 3W  99T 3W
08/20/1999 01:13  1   0.13    0.00  Bay_8
          84T 2W
08/20/1999 01:23  2   0.00    0.00  Bay_9
08/20/1999 01:33  3   0.19    0.05  -
          90T 1W  99T 3W
08/20/1999 01:43  1   0.11    0.00  Bay_8
          87T 2W
08/20/1999 01:53  2   0.00    0.01  Bay_9
                   99T 2W
08/20/1999 02:03  3   0.00    0.05  -
                   99T 3W
08/20/1999 02:13  1   0.00    0.01  Bay_8
                  100T 2W
08/20/1999 02:23  2   0.12    0.00  Bay_9
```

		99T 3W			
08/20/1999	02:43	1	0.00	0.00	Bay_8
08/20/1999	02:53	2	0.00	0.00	Bay_9
08/20/1999	03:03	3	0.00	0.05	-
		99T 3W			
08/20/1999	03:13	1	0.10	0.00	Bay_8
	86T 1W				
08/20/1999	03:23	2	0.00	0.01	Bay_9
		99T 1W			
08/20/1999	03:33	3	0.39	0.06	-
	90T 4W	99T 3W			
08/20/1999	03:43	1	0.00	0.01	Bay_8
		99T 3W			
08/20/1999	03:53	2	0.00	0.01	Bay_9
		99T 2W			
08/20/1999	04:03	3	0.00	0.06	-
		98T 2W			
08/20/1999	04:13	1	0.00	0.01	Bay_8
		99T 2W			
08/20/1999	04:23	2	0.00	0.01	Bay_9
		98T 2W			
08/20/1999	04:33	3	0.00	0.06	-
		99T 3W			
08/20/1999	04:43	1	0.00	0.01	Bay_8
		100T 1W			
08/20/1999	04:53	2	0.00	0.00	Bay_9
08/20/1999	05:03	3	0.37	0.05	-
	90T 3W	99T 3W			
08/20/1999	05:13	1	0.14	0.00	Bay_8
	86T 1W				
08/20/1999	05:23	2	0.00	0.00	Bay_9
08/20/1999	05:33	3	0.14	0.05	-
	85T 1W	99T 3W			
08/20/1999	05:43	1	0.14	0.00	Bay_8
	88T 1W				

Monitor Serial Number 1359 Date 08/20/1999 Sampling Station 8

Date	Time	Port	VX	GB		TWAG
08/20/1999	05:53	2	0.00	0.00	Bay_9	
08/20/1999	06:03	3	0.00	0.06	-	
		99T 3W				
08/20/1999	06:13	1	0.00	0.01	Bay_8	
		99T 2W				
08/20/1999	06:23	2	0.00	0.01	Bay_9	
		96T 1W				
08/20/1999	06:33	3	0.00	0.05	-	
		99T 3W				
08/20/1999	06:43	1	0.00	0.01	Bay_8	
		99T 2W				
08/20/1999	06:53	2	0.00	0.00	Bay_9	
08/20/1999	07:03	3	0.33	0.05	-	
	89T 4W	99T 3W				
08/20/1999	07:13	1	0.10	0.00	Bay_8	
	88T 1W					

Monitor Serial Number 1361 Date 08/13/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/13/1999	18:21	1	0.00	0.00	Bay 7	CAL

Monitor Serial Number 1361 Date 08/13/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/13/1999	18:29	1	0.00	0.00	Bay 7	CAL

Monitor Serial Number 1361 Date 08/13/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/13/1999	18:37	1	0.00	0.00	Bay 7	CAL

CALIBRATION	VX	GB
AVERAGE	190H	4421H

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 18:39

S/N 1361 CHECK STATION 7

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 33	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a209	± 99
	Column		a 53	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 40	a 40	± 5
	Helium	s 40	a40.3	± 5

SAMPLE:	Flow rate, ccm	s 450	a 484	± 99
	Average flow rate		a 483	
	Volume, L		a3.86	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1000	a1006	± 50

ELECTROMETER:	FPD signal, nA	150	FPD zero, nA	427

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.00C	190H*	397A	78.0T	1.8W	b 75	e 81
GB	1 FPD	1.00C	4421H*	8857A	85.1T	1.7W	b 81	e 87

CALIBRATION DATA:

VX	1 @	1.00 FPD	190H*	397A	78.0T	1.8W	08/13/1999	18:37
GB	1 @	1.00 FPD	4421H*	8857A	85.1T	1.7W	08/13/1999	18:37

SAMPLING SEQUENCE:

A01 Bay 7

ELAPSED TIME ********** 194 sec

Monitor Serial Number 1361 Date 08/13/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/13/1999	18:47	1	1.79	1.87	Bay 7	CHE
	79T 2W		86T 2W			
08/13/1999	18:57	1	0.91	0.99	Bay 7	CHE
	79T 2W		86T 2W			

08/13/1999 ********** MINICAMS OPERATING PARAMETERS ********** 18:59

S/N 1361 STATION 7

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 32	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a151	± 15
	FPD Flame	s225	a210	± 99
	Column		a 46	
	Column, low	s 40	a 41	± 15
	Column, high	s180	a180	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 52	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a236	± 30

PRESSURES, psi:	Air	s 40	a 40	± 5
	Helium	s 40	a40.4	± 5
	Hydrogen	s 40	a 39	± 5

SAMPLE:	Flow rate, ccm	s 450	a 452	± 99
	Average flow rate		a 485	

	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1000 a1001 ± 50

ELECTROMETER: FPD signal, nA 149 FPD zero, nA 424

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	0.91C	173H*	347A	78.8T	1.7W	b 75	e 81
GB	1 FPD	0.99C	4374H*	8873A	85.6T	1.8W	b 81	e 87

CALIBRATION DATA:

VX 1 @ 1.00 FPD	190H*	397A	78.0T	1.8W	08/13/1999	18:37
GB 1 @ 1.00 FPD	4421H*	8857A	85.1T	1.7W	08/13/1999	18:37

SAMPLING SEQUENCE:

A01 Bay 7

ELAPSED TIME ********** 223 sec

Monitor Serial Number 1361 Date 08/13/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/13/1999	19:07	1	0.13	0.05	Bay 7	
	78T 2W	86T 2W				
08/13/1999	19:17	1	0.00	0.02	Bay 7	
		86T 2W				
08/13/1999	19:27	1	0.00	0.02	Bay 7	
		86T 2W				
08/13/1999	19:37	1	0.11	0.02	Bay 7	
	79T 1W	86T 2W				
08/13/1999	19:47	1	0.09	0.02	Bay 7	
	79T 2W	86T 2W				
08/13/1999	19:57	1	0.07	0.02	Bay 7	
	79T 1W	86T 2W				
08/13/1999	20:07	1	0.00	0.02	Bay 7	
		85T 2W				
08/13/1999	20:17	1	0.06	0.02	Bay 7	
	79T 2W	86T 2W				
08/13/1999	20:27	1	0.00	0.02	Bay 7	
		86T 2W				
08/13/1999	20:37	1	0.13	0.02	Bay 7	
	79T 1W	86T 2W				
08/13/1999	20:47	1	0.00	0.02	Bay 7	
		86T 2W				
08/13/1999	20:57	1	0.00	0.02	Bay 7	
		86T 2W				
08/13/1999	21:07	1	0.00	0.02	Bay 7	
		86T 2W				
08/13/1999	21:17	1	0.00	0.02	Bay 7	
		86T 2W				
08/13/1999	21:27	1	0.09	0.02	Bay 7	
	78T 2W	86T 2W				
08/13/1999	21:37	1	0.09	0.02	Bay 7	
	81T 1W	85T 2W				
08/13/1999	21:47	1	0.00	0.01	Bay 7	
		86T 2W				
08/13/1999	21:57	1	0.00	0.02	Bay 7	

85T 2W
08/13/1999 22:17 1 0.08 0.01 Bay 7
79T 2W 86T 2W
08/13/1999 22:27 1 0.05 0.02 Bay 7
80T 1W 86T 2W
08/13/1999 22:37 1 0.06 0.01 Bay 7
78T 1W 85T 2W
08/13/1999 22:47 1 0.04 0.01 Bay 7
75T 1W 86T 2W
08/13/1999 22:57 1 0.08 0.02 Bay 7
76T 2W 86T 2W
08/13/1999 23:07 1 0.00 0.02 Bay 7
85T 1W
08/13/1999 23:17 1 0.07 0.01 Bay 7
76T 1W 86T 2W
08/13/1999 23:27 1 0.06 0.01 Bay 7
79T 1W 86T 2W
08/13/1999 23:37 1 0.00 0.01 Bay 7
85T 2W
08/13/1999 23:47 1 0.00 0.01 Bay 7
86T 2W
08/13/1999 23:57 1 0.00 0.01 Bay 7
85T 1W

Monitor Serial Number 1361 Date 08/14/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/14/1999	00:07	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	00:17	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	00:27	1	0.09	0.01	Bay 7	
		77T 1W	85T 2W			
08/14/1999	00:37	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	00:47	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	00:57	1	0.07	0.01	Bay 7	
		79T 1W	85T 2W			
08/14/1999	01:07	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	01:17	1	0.00	0.01	Bay 7	
		84T 2W				
08/14/1999	01:27	1	0.00	0.01	Bay 7	
		86T 1W				
08/14/1999	01:37	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	01:47	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	01:57	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	02:07	1	0.07	0.01	Bay 7	
		79T 1W	85T 2W			
08/14/1999	02:17	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	02:27	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	02:37	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	02:47	1	0.00	0.01	Bay 7	
		86T 2W				

80T 1W 85T 2W
08/14/1999 03:17 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 03:27 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 03:37 1 0.08 0.01 Bay 7
75T 1W 85T 2W
08/14/1999 03:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 03:57 1 0.00 0.01 Bay 7
84T 2W
08/14/1999 04:07 1 0.05 0.01 Bay 7
77T 1W 85T 2W
08/14/1999 04:17 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 04:27 1 0.06 0.01 Bay 7
77T 2W 85T 2W
08/14/1999 04:37 1 0.05 0.01 Bay 7
76T 1W 85T 2W
08/14/1999 04:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 04:57 1 0.10 0.01 Bay 7
78T 3W 85T 1W

Monitor Serial Number 1361 Date 08/14/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/14/1999	05:07	1	0.00	0.00	Bay 7	
08/14/1999	05:17	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	05:27	1	0.09	0.01	Bay 7	
		77T 2W	85T 2W			
08/14/1999	05:37	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	05:47	1	0.09	0.01	Bay 7	
		79T 1W	85T 2W			
08/14/1999	05:57	1	0.06	0.01	Bay 7	
		79T 1W	86T 2W			
08/14/1999	06:07	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	06:17	1	0.00	0.01	Bay 7	
		85T 1W				
08/14/1999	06:27	1	0.07	0.01	Bay 7	
		76T 2W	85T 2W			
08/14/1999	06:37	1	0.07	0.01	Bay 7	
		79T 1W	85T 2W			
08/14/1999	06:47	1	0.18	0.01	Bay 7	
		79T 2W	85T 2W			
08/14/1999	06:57	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	07:07	1	0.00	0.01	Bay 7	
		85T 2W				
08/14/1999	07:17	1	0.00	0.01	Bay 7	
		86T 2W				
08/14/1999	07:27	1	0.06	0.00	Bay 7	
		79T 1W				
08/14/1999	07:37	1	0.12	0.00	Bay 7	
		80T 1W				
08/14/1999	07:47	1	0.10	0.01	Bay 7	
		80T 3W	85T 2W			
08/14/1999	07:57	1	0.06	0.01	Bay 7	
		78T 1W	85T 2W			

```
08/14/1999 08:17  1   ----   ----  ---
         79T 1W
08/14/1999 08:27  1   0.06    0.01  Bay 7
         78T 1W  86T 1W
08/14/1999 08:37  1   0.08    0.01  Bay 7
         76T 1W  86T 2W
08/14/1999 08:47  1   1.10    0.93  Bay 7                                    ALA
         79T 2W  86T 2W
08/14/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:48

S/N 1361            ALARM                                STATION    7

SOFTWARE:                                              Version 02181999

TEMPERATURES, °C:   Ambient              s 40        a 33        ± 15
                    Inlet                s 50        a 51        ± 15
                    FPD Block            s150        a150        ± 15
                    FPD Flame            s225        a209        ± 99
                    Column                           a 65
                    Column, low          s 40        a 40        ± 15
                    Column, high         s180        a179        ± 15
                    Column rate, °C/min  s150        a150        ± 20
                    Column rate 2        s  0        a  0        ± 20
                    PCT heater                       a 50
                    PCT heater, low      s 50        a 51        ± 20
                    PCT heater, high     s235        a236        ± 30

PRESSURES, psi:     Air                  s 40        a 40        ±  5
                    Helium               s 40       a40.2        ±  5
                    Hydrogen             s 40        a 39        ±  5

SAMPLE:             Flow rate, ccm      s 450        a 463       ± 99
                    Average flow rate                a 462
                    Volume, L                       a3.70

TIMES, sec:         Purge        b  0   e120   Sample   b120   e600
                    Desorb       b  5   e 50   Column   b 30   e100
                    Column purge b100   e100   Inject   b120   e130
                    FPD zero              On

VOLTAGE, VDC:       FPD photomultiplier s1000       a1006       ± 50

ELECTROMETER:       FPD signal, nA        151   FPD  zero, nA     413

CONCENTRATION REPORTS:                   Alarm setpoint, TWAG    1.00

VX   1 FPD   1.10C    209H*    493A   78.7T  1.9W       b 75    e 81
GB   1 FPD   0.93C   4099H*   8448A   85.5T  1.7W       b 81    e 87

CALIBRATION DATA:

VX 1 @  1.00 FPD      190H*    397A   78.0T  1.8W 08/13/1999   18:37
GB 1 @  1.00 FPD     4421H*   8857A   85.1T  1.7W 08/13/1999   18:37

SAMPLING SEQUENCE:

  A01   Bay 7

ELAPSED TIME ********************************************** 167 sec

Monitor Serial Number 1361          Date 08/14/1999        Sampling Station    7

Date        Time  Port   VX      GB                                        TWAG
```

DC
RCB

08/14/1999 09:07 1 0.10 0.01 Bay 7
79T 2W 86T 2W
08/14/1999 09:17 1 0.11 0.01 Bay 7
77T 2W 85T 2W
08/14/1999 09:27 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 09:37 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 09:47 1 0.00 0.01 Bay 7
85T 1W
08/14/1999 09:57 1 0.07 0.00 Bay 7
79T 1W
08/14/1999 10:07 1 0.00 0.00 Bay 7
08/14/1999 10:17 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 10:27 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 10:37 1 0.00 0.00 Bay 7
08/14/1999 10:47 1 0.00 0.01 Bay 7
86T 1W
08/14/1999 10:57 1 0.06 0.01 Bay 7
80T 2W 86T 2W
08/14/1999 11:07 1 0.00 0.01 Bay 7
85T 1W
08/14/1999 11:17 1 0.00 0.01 Bay 7
86T 1W
08/14/1999 11:27 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 11:37 1 0.09 0.00 Bay 7
75T 2W
08/14/1999 11:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 11:57 1 0.08 0.01 Bay 7
80T 2W 86T 2W
08/14/1999 12:07 1 0.07 0.00 Bay 7
79T 2W
08/14/1999 12:17 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 12:27 1 0.07 0.01 Bay 7
80T 1W 85T 2W
08/14/1999 12:37 1 0.00 0.00 Bay 7
08/14/1999 12:47 1 0.08 0.01 Bay 7
76T 1W 85T 2W
08/14/1999 12:57 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 13:07 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 13:17 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 13:27 1 0.06 0.01 Bay 7
79T 1W 87T 2W
08/14/1999 13:37 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 13:47 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 13:57 1 0.00 0.01 Bay 7
86T 2W

Monitor Serial Number 1361 Date 08/14/1999 Sampling Station 7

Date Time Port VX GB TWAG

08/14/1999 14:07 1 0.00 0.01 Bay 7

85T 3W
08/14/1999 14:27 1 0.00 0.01 Bay 7
86T 1W
08/14/1999 14:37 1 0.00 0.01 Bay 7
85T 1W
08/14/1999 14:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 14:57 1 0.05 0.00 Bay 7
78T 1W
08/14/1999 15:07 1 0.00 0.01 Bay 7
86T 1W
08/14/1999 15:17 1 0.00 0.00 Bay 7
08/14/1999 15:27 1 0.00 0.01 Bay 7
87T 2W
08/14/1999 15:37 1 0.12 0.01 Bay 7
80T 1W 86T 2W
08/14/1999 15:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 15:57 1 0.08 0.01 Bay 7
79T 2W 85T 2W
08/14/1999 16:07 1 0.08 0.00 Bay 7
78T 1W
08/14/1999 16:17 1 0.00 0.01 Bay 7
86T 2W
08/14/1999 16:27 1 0.07 0.01 Bay 7
79T 2W 86T 1W
08/14/1999 16:37 1 0.00 0.01 Bay 7
84T 2W
08/14/1999 16:47 1 0.08 0.00 Bay 7
75T 1W
08/14/1999 16:57 1 0.09 0.00 Bay 7
79T 1W
08/14/1999 17:07 1 0.09 0.01 Bay 7
78T 1W 85T 2W
08/14/1999 17:17 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 17:27 1 0.06 0.01 Bay 7
79T 1W 86T 2W
08/14/1999 17:37 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 17:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 17:57 1 0.00 0.00 Bay 7
08/14/1999 18:07 1 0.06 0.00 Bay 7
76T 2W
08/14/1999 18:17 1 0.05 0.01 Bay 7
80T 1W 85T 1W
08/14/1999 18:27 1 0.00 0.00 Bay 7
08/14/1999 18:37 1 0.07 0.01 Bay 7
80T 1W 85T 2W
08/14/1999 18:47 1 0.00 0.00 Bay 7
08/14/1999 18:57 1 0.06 0.01 Bay 7
78T 1W 86T 1W
08/14/1999 19:07 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 19:17 1 0.00 0.01 Bay 7
85T 2W

Monitor Serial Number 1361 Date 08/14/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/14/1999	19:27	1	0.08	0.00	Bay 7	

08/14/1999 19:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 19:57 1 0.08 0.01 Bay 7
79T 1W 85T 2W
08/14/1999 20:07 1 0.00 0.00 Bay 7
08/14/1999 20:17 1 0.00 0.00 Bay 7
08/14/1999 20:27 1 0.08 0.01 Bay 7
75T 1W 85T 2W
08/14/1999 20:37 1 0.00 0.00 Bay 7
08/14/1999 20:47 1 0.00 0.01 Bay 7
86T 1W
08/14/1999 20:57 1 0.00 0.00 Bay 7
08/14/1999 21:07 1 0.00 0.00 Bay 7
08/14/1999 21:17 1 0.05 0.00 Bay 7
80T 2W
08/14/1999 21:27 1 0.06 0.00 Bay 7
79T 1W
08/14/1999 21:37 1 0.06 0.00 Bay 7
76T 1W
08/14/1999 21:47 1 0.09 0.00 Bay 7
79T 1W
08/14/1999 21:57 1 0.00 0.00 Bay 7
08/14/1999 22:07 1 0.00 0.00 Bay 7
08/14/1999 22:17 1 0.00 0.01 Bay 7
84T 2W
08/14/1999 22:27 1 0.08 0.00 Bay 7
75T 1W
08/14/1999 22:37 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 22:47 1 0.00 0.01 Bay 7
85T 2W
08/14/1999 22:57 1 0.00 0.00 Bay 7
08/14/1999 23:07 1 0.00 0.00 Bay 7
08/14/1999 23:17 1 0.00 0.00 Bay 7
08/14/1999 23:27 1 0.06 0.00 Bay 7
78T 1W
08/14/1999 23:37 1 0.04 0.00 Bay 7
79T 1W
08/14/1999 23:47 1 0.00 0.00 Bay 7
08/14/1999 23:57 1 0.00 0.00 Bay 7
08/15/1999 00:07 1 0.00 0.00 Bay 7
08/15/1999 00:17 1 0.00 0.00 Bay 7
08/15/1999 00:27 1 0.06 0.00 Bay 7
80T 1W
08/15/1999 00:37 1 0.05 0.01 Bay 7
78T 1W 84T 2W
08/15/1999 00:47 1 0.08 0.00 Bay 7
78T 2W
08/15/1999 00:57 1 0.00 0.00 Bay 7
08/15/1999 01:07 1 0.08 0.00 Bay 7
76T 1W
08/15/1999 01:17 1 0.00 0.01 Bay 7
85T 1W
08/15/1999 01:27 1 0.00 0.00 Bay 7
08/15/1999 01:37 1 0.06 0.01 Bay 7
79T 1W 85T 2W

Monitor Serial Number 1361 Date 08/15/1999 Sampling Station 7

Date Time Port VX GB TWAG

08/15/1999 01:47 1 0.07 0.00 Bay 7
76T 1W

76T 1W

08/15/1999 02:17	1	0.00	0.00	Bay 7	
08/15/1999 02:27	1	0.00	0.00	Bay 7	
08/15/1999 02:37	1	0.00	0.00	Bay 7	
08/15/1999 02:47	1	0.06	0.00	Bay 7	
80T 1W					
08/15/1999 02:57	1	0.00	0.00	Bay 7	
08/15/1999 03:07	1	0.07	0.00	Bay 7	
79T 1W					
08/15/1999 03:17	1	0.00	0.00	Bay 7	
08/15/1999 03:27	1	0.00	0.00	Bay 7	
08/15/1999 03:37	1	0.00	0.00	Bay 7	
08/15/1999 03:47	1	0.07	0.00	Bay 7	
77T 2W					
08/15/1999 03:57	1	0.00	0.00	Bay 7	
08/15/1999 04:07	1	0.00	0.00	Bay 7	
08/15/1999 04:17	1	0.00	0.00	Bay 7	
08/15/1999 04:27	1	0.00	0.00	Bay 7	
08/15/1999 04:37	1	0.07	0.00	Bay 7	
79T 1W					
08/15/1999 04:47	1	0.07	0.00	Bay 7	
78T 2W					
08/15/1999 04:57	1	0.08	0.00	Bay 7	
79T 1W					
08/15/1999 05:07	1	0.07	0.00	Bay 7	
78T 1W					
08/15/1999 05:17	1	0.00	0.00	Bay 7	
08/15/1999 05:27	1	0.06	0.00	Bay 7	
75T 1W					
08/15/1999 05:37	1	0.09	0.00	Bay 7	
81T 1W					
08/15/1999 05:47	1	0.00	0.00	Bay 7	
08/15/1999 05:57	1	0.00	0.00	Bay 7	
SAM					ERROR
08/15/1999 06:07	1	0.00	0.00	Bay 7	
SAM					ERROR
08/15/1999 06:17	1	0.00	0.00	Bay 7	
SAM					ERROR
08/15/1999 06:27	1	0.06	0.00	Bay 7	
80T 1W					
SAM					ERROR
08/15/1999 06:37	1	0.06	0.00	Bay 7	
78T 1W					
SAM					ERROR
08/15/1999 06:47	1	0.00	0.00	Bay 7	
SAM					ERROR
08/15/1999 06:57	1	0.00	0.00	Bay 7	
08/15/1999 07:07	1	0.00	0.00	Bay 7	
08/15/1999 07:17	1	0.00	0.00	Bay 7	
08/15/1999 07:27	1	0.06	0.00	Bay 7	
78T 2W					
08/15/1999 07:37	1	0.07	0.00	Bay 7	
76T 1W					
08/15/1999 07:47	1	0.00	0.00	Bay 7	
08/15/1999 07:57	1	0.08	0.00	Bay 7	
78T 1W					

Monitor Serial Number 1361 Date 08/15/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/15/1999	08:07	1	0.07	0.00	Bay 7	
76T 1W						

08/15/1999 08:37	1	0.09	0.00	Bay 7	
78T 1W					
08/15/1999 08:47	1	0.09	0.00	Bay 7	
77T 2W					
08/15/1999 08:57	1	0.07	0.00	Bay 7	
79T 1W					

Monitor Serial Number 1361 Date 08/15/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/15/1999 09:01		1	0.00	0.00	Bay 7	
08/15/1999 09:11		1	0.07	0.00	Bay 7	
77T 1W						
08/15/1999 09:21		1	1.09	0.90	Bay 7	CHE
78T 2W 85T 2W						

08/15/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:22

S/N 1361 ALARM STATION 7

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 32	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a149	± 15
	FPD Flame	s225	a210	± 99
	Column		a 71	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a150	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 52	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 40	a 40	± 5
	Helium	s 40	a40.5	± 5
	Hydrogen	s 40	a 39	± 5
SAMPLE:	Flow rate, ccm	s 450	a 450	± 99
	Average flow rate		a 459	
	Volume, L		a3.68	

DC
VCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1000 a1006 ± 50

ELECTROMETER: FPD signal, nA 141 FPD zero, nA 400

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.09C	207H*	472A	78.4T	2.0W	b 75	e 81
GB	1 FPD	0.90C	3971H*	8431A	85.4T	1.8W	b 81	e 87

CALIBRATION DATA:

VX 1 @ 1.00 FPD	190H*	397A	78.0T	1.8W	08/13/1999	18:37
GB 1 @ 1.00 FPD	4421H*	8857A	85.1T	1.7W	08/13/1999	18:37

SAMPLING SEQUENCE:

ELAPSED TIME ********** 158 sec

Monitor Serial Number 1361 Date 08/15/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/15/1999	09:31	1	0.05	0.02	Bay 7	
	78T 1W	85T 2W				
08/15/1999	09:41	1	0.00	0.00	Bay 7	
08/15/1999	09:51	1	0.00	0.01	Bay 7	
		86T 2W				
08/15/1999	10:01	1	0.00	0.00	Bay 7	
08/15/1999	10:11	1	0.00	0.00	Bay 7	
08/15/1999	10:21	1	0.06	0.01	Bay 7	
	79T 2W	85T 1W				
08/15/1999	10:31	1	0.00	0.00	Bay 7	
08/15/1999	10:41	1	0.00	0.00	Bay 7	
08/15/1999	10:51	1	0.07	0.00	Bay 7	
	80T 1W					
08/15/1999	11:01	1	0.08	0.00	Bay 7	
	78T 2W					
08/15/1999	11:11	1	0.00	0.01	Bay 7	
		86T 2W				
08/15/1999	11:21	1	0.07	0.00	Bay 7	
	80T 1W					
08/15/1999	11:31	1	0.00	0.00	Bay 7	
08/15/1999	11:41	1	0.00	0.00	Bay 7	
08/15/1999	11:51	1	0.06	0.00	Bay 7	
	79T 1W					
08/15/1999	12:01	1	0.00	0.01	Bay 7	
		84T 1W				
08/15/1999	12:11	1	0.00	0.00	Bay 7	
08/15/1999	12:21	1	0.00	0.00	Bay 7	
08/15/1999	12:31	1	0.07	0.00	Bay 7	
	80T 2W					
08/15/1999	12:41	1	0.00	0.01	Bay 7	
		86T 1W				
08/15/1999	12:51	1	0.08	0.00	Bay 7	
	78T 1W					
08/15/1999	13:01	1	0.00	0.00	Bay 7	
08/15/1999	13:11	1	0.00	0.01	Bay 7	
		84T 2W				
08/15/1999	13:21	1	0.00	0.00	Bay 7	
08/15/1999	13:31	1	0.07	0.00	Bay 7	
	78T 1W					
08/15/1999	13:41	1	0.08	0.00	Bay 7	
	77T 1W					
08/15/1999	13:51	1	0.07	0.00	Bay 7	
	77T 1W					
08/15/1999	14:01	1	0.00	0.00	Bay 7	
08/15/1999	14:11	1	0.09	0.00	Bay 7	
	79T 3W					
08/15/1999	14:21	1	0.00	0.00	Bay 7	
08/15/1999	14:31	1	0.00	0.00	Bay 7	
08/15/1999	14:41	1	0.00	0.00	Bay 7	
08/15/1999	14:51	1	0.00	0.00	Bay 7	
08/15/1999	15:01	1	0.00	0.00	Bay 7	
08/15/1999	15:11	1	0.06	0.00	Bay 7	
	77T 1W					
08/15/1999	15:21	1	0.09	0.00	Bay 7	
	78T 1W					
08/15/1999	15:31	1	0.00	0.00	Bay 7	

08/15/1999	16:01	1	0.00	0.00	Bay 7

Monitor Serial Number 1361 Date 08/15/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/15/1999	16:11	1	0.00	0.00	Bay 7	
08/15/1999	16:21	1	0.00	0.00	Bay 7	
08/15/1999	16:31	1	0.00	0.00	Bay 7	
08/15/1999	16:41	1	0.00	0.00	Bay 7	
08/15/1999	16:51	1	0.00	0.00	Bay 7	
08/15/1999	17:01	1	0.00	0.00	Bay 7	
08/15/1999	17:11	1	0.00	0.00	Bay 7	
08/15/1999	17:21	1	0.00	0.00	Bay 7	
08/15/1999	17:31	1	0.07	0.00	Bay 7	
77T 1W						
08/15/1999	17:41	1	0.00	0.00	Bay 7	
08/15/1999	17:51	1	0.00	0.00	Bay 7	
08/15/1999	18:01	1	0.00	0.00	Bay 7	
08/15/1999	18:11	1	0.00	0.00	Bay 7	
08/15/1999	18:21	1	0.00	0.00	Bay 7	
08/15/1999	18:31	1	0.05	0.00	Bay 7	
79T 1W						
08/15/1999	18:41	1	0.00	0.00	Bay 7	
08/15/1999	18:51	1	0.00	0.00	Bay 7	
08/15/1999	19:01	1	0.00	0.00	Bay 7	
08/15/1999	19:11	1	0.06	0.00	Bay 7	
81T 2W						
08/15/1999	19:21	1	0.07	0.00	Bay 7	
75T 1W						
08/15/1999	19:31	1	0.00	0.00	Bay 7	
08/15/1999	19:41	1	0.00	0.00	Bay 7	
08/15/1999	19:51	1	0.00	0.00	Bay 7	
08/15/1999	20:01	1	0.00	0.00	Bay 7	
08/15/1999	20:11	1	0.00	0.00	Bay 7	
08/15/1999	20:21	1	0.00	0.00	Bay 7	
08/15/1999	20:31	1	0.00	0.00	Bay 7	
08/15/1999	20:41	1	0.00	0.00	Bay 7	
08/15/1999	20:51	1	0.06	0.00	Bay 7	
78T 1W						
08/15/1999	21:01	1	0.00	0.00	Bay 7	
08/15/1999	21:11	1	0.05	0.00	Bay 7	
80T 1W						
08/15/1999	21:21	1	0.00	0.00	Bay 7	
08/15/1999	21:31	1	0.00	0.00	Bay 7	
08/15/1999	21:41	1	0.00	0.00	Bay 7	
08/15/1999	21:51	1	0.08	0.00	Bay 7	
78T 1W						
08/15/1999	22:01	1	0.00	0.00	Bay 7	
08/15/1999	22:11	1	0.00	0.00	Bay 7	
08/15/1999	22:21	1	0.00	0.00	Bay 7	
08/15/1999	22:31	1	0.00	0.00	Bay 7	
08/15/1999	22:41	1	0.07	0.00	Bay 7	
81T 2W						
08/15/1999	22:51	1	0.00	0.00	Bay 7	
08/15/1999	23:01	1	0.00	0.00	Bay 7	
08/15/1999	23:11	1	0.08	0.00	Bay 7	
79T 2W						
08/15/1999	23:21	1	0.00	0.00	Bay 7	
08/15/1999	23:31	1	0.00	0.00	Bay 7	
08/15/1999	23:41	1	0.00	0.00	Bay 7	
08/15/1999	23:51	1	0.00	0.00	Bay 7	
08/16/1999	00:01	1	0.00	0.00	Bay 7	

Monitor Serial Number 1361 Date 08/16/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/16/1999	00:31	1	0.04	0.00	Bay 7	
	77T 1W					
08/16/1999	00:41	1	0.00	0.00	Bay 7	
08/16/1999	00:51	1	0.00	0.00	Bay 7	
08/16/1999	01:01	1	0.00	0.00	Bay 7	
08/16/1999	01:11	1	0.08	0.00	Bay 7	
	78T 1W					
08/16/1999	01:21	1	0.00	0.00	Bay 7	
08/16/1999	01:31	1	0.07	0.00	Bay 7	
	79T 1W					
08/16/1999	01:41	1	0.08	0.00	Bay 7	
	78T 2W					
08/16/1999	01:51	1	0.06	0.00	Bay 7	
	80T 1W					
08/16/1999	02:01	1	0.00	0.00	Bay 7	
08/16/1999	02:11	1	0.00	0.00	Bay 7	
08/16/1999	02:21	1	0.00	0.00	Bay 7	
08/16/1999	02:31	1	0.07	0.00	Bay 7	
	79T 1W					
08/16/1999	02:41	1	0.00	0.00	Bay 7	
08/16/1999	02:51	1	0.00	0.00	Bay 7	
08/16/1999	03:01	1	0.00	0.00	Bay 7	
08/16/1999	03:11	1	0.08	0.00	Bay 7	
	81T 1W					
08/16/1999	03:21	1	0.07	0.00	Bay 7	
	79T 1W					
08/16/1999	03:31	1	0.00	0.00	Bay 7	
08/16/1999	03:41	1	0.00	0.00	Bay 7	
08/16/1999	03:51	1	0.00	0.00	Bay 7	
08/16/1999	04:01	1	0.00	0.00	Bay 7	
08/16/1999	04:11	1	0.00	0.00	Bay 7	
08/16/1999	04:21	1	0.00	0.00	Bay 7	
08/16/1999	04:31	1	0.08	0.00	Bay 7	
	78T 1W					
08/16/1999	04:41	1	0.04	0.00	Bay 7	
	79T 1W					
08/16/1999	04:51	1	0.00	0.00	Bay 7	
08/16/1999	05:01	1	0.00	0.00	Bay 7	
08/16/1999	05:11	1	0.00	0.00	Bay 7	
08/16/1999	05:21	1	0.00	0.00	Bay 7	
08/16/1999	05:31	1	0.08	0.00	Bay 7	
	78T 1W					
08/16/1999	05:41	1	0.09	0.00	Bay 7	
	75T 1W					
08/16/1999	05:51	1	0.00	0.00	Bay 7	
08/16/1999	06:01	1	0.00	0.00	Bay 7	
08/16/1999	06:11	1	0.06	0.00	Bay 7	
	81T 2W					
08/16/1999	06:21	1	0.00	0.00	Bay 7	
08/16/1999	06:31	1	0.00	0.00	Bay 7	
08/16/1999	06:41	1	0.08	0.00	Bay 7	
	78T 2W					
08/16/1999	06:51	1	0.07	0.00	Bay 7	
	76T 1W					
08/16/1999	07:01	1	0.07	0.00	Bay 7	
	79T 1W					
08/16/1999	07:11	1	0.00	0.00	Bay 7	
08/16/1999	07:21	1	0.00	0.00	Bay 7	

Monitor Serial Number 1361 Date 08/16/1999 Sampling Station 7

Date	Time	Port	VX	GB			TWAG
08/16/1999	07:41	1	0.00	0.00	Bay 7		
08/16/1999	07:51	1	0.00	0.00	Bay 7		
08/16/1999	08:01	1	0.00	0.00	Bay 7		
08/16/1999	08:11	1	0.00	0.00	Bay 7		
08/16/1999	08:21	1	1.04	0.86	Bay 7		CHE
	79T 2W	86T 2W					

08/16/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:22

S/N 1361 ALARM STATION 7

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 33	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a148	± 15
	FPD Flame	s225	a209	± 99
	Column		a 62	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a179	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 50	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 40	a 40	± 5
	Helium	s 40	a40.4	± 5
	Hydrogen	s 40	a 39	± 5
SAMPLE:	Flow rate, ccm	s 450	a 458	± 99
	Average flow rate		a 455	
	Volume, L		a3.64	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC:	FPD photomultiplier	s1000	a1006	± 50
ELECTROMETER:	FPD signal, nA	126	FPD zero, nA	396

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.04C	198H*	474A	78.9T	2.1W	b 75	e 81
GB	1 FPD	0.86C	3815H*	8193A	85.7T	1.9W	b 81	e 87

CALIBRATION DATA:

VX 1 @	1.00 FPD	190H*	397A	78.0T	1.8W	08/13/1999	18:37
GB 1 @	1.00 FPD	4421H*	8857A	85.1T	1.7W	08/13/1999	18:37

SAMPLING SEQUENCE:

A01 Bay 7

ELAPSED TIME ********** 172 sec

DC
RB

Date	Time	Port	VX	GB	
08/16/1999	08:31	1	0.00	0.02	Bay 7
		86T 2W			
08/16/1999	08:41	1	0.00	0.00	Bay 7
08/16/1999	08:51	1	0.07	0.00	Bay 7
		79T 1W			
MINI-NET COMMUNICATIONS OFFLINE					
08/16/1999	09:01	1	0.00	0.00	Bay 7
08/16/1999	09:11	1	0.00	0.00	Bay 7
08/16/1999	09:21	1	0.05	0.00	Bay 7
		81T 2W			
08/16/1999	09:31	1	0.11	0.00	Bay 7
		79T 2W			
08/16/1999	09:41	1	0.00	0.00	Bay 7
08/16/1999	09:51	1	0.06	0.00	Bay 7
		81T 1W			
08/16/1999	10:01	1	0.00	0.00	Bay 7
08/16/1999	10:11	1	0.00	0.00	Bay 7
08/16/1999	10:21	1	0.00	0.00	Bay 7
08/16/1999	10:31	1	0.00	0.00	Bay 7
08/16/1999	10:41	1	0.00	0.00	Bay 7
08/16/1999	10:51	1	0.07	0.00	Bay 7
		78T 1W			
08/16/1999	11:01	1	0.00	0.00	Bay 7
08/16/1999	11:11	1	0.00	0.00	Bay 7
08/16/1999	11:21	1	0.06	0.00	Bay 7
		79T 1W			
08/16/1999	11:31	1	0.00	0.00	Bay 7
08/16/1999	11:41	1	0.07	0.00	Bay 7
		75T 3W			
08/16/1999	11:51	1	0.00	0.00	Bay 7
08/16/1999	12:01	1	0.00	0.00	Bay 7
08/16/1999	12:11	1	0.00	0.00	Bay 7
08/16/1999	12:21	1	0.00	0.00	Bay 7
08/16/1999	12:31	1	0.00	0.00	Bay 7
MINI-NET COMMUNICATIONS ONLINE					
08/16/1999	12:41	1	0.00	0.00	Bay 7
08/16/1999	12:51	1	0.00	0.00	Bay 7
08/16/1999	13:01	1	0.05	0.00	Bay 7
		76T 1W			
08/16/1999	13:11	1	0.06	0.00	Bay 7
		75T 1W			
08/16/1999	13:21	1	0.00	0.00	Bay 7
08/16/1999	13:31	1	0.08	0.00	Bay 7
		76T 1W			
08/16/1999	13:41	1	0.05	0.00	Bay 7
		78T 1W			
08/16/1999	13:51	1	0.07	0.00	Bay 7
		75T 1W			
08/16/1999	14:01	1	0.00	0.00	Bay 7
08/16/1999	14:11	1	0.00	0.00	Bay 7
08/16/1999	14:21	1	0.00	0.00	Bay 7
08/16/1999	14:31	1	0.10	0.00	Bay 7
		77T 1W			
08/16/1999	14:41	1	0.07	0.00	Bay 7
		81T 2W			
08/16/1999	14:51	1	0.00	0.00	Bay 7
08/16/1999	15:01	1	0.00	0.00	Bay 7
08/16/1999	15:11	1	0.00	0.00	Bay 7
08/16/1999	15:21	1	0.06	0.00	Bay 7
		80T 1W			
08/16/1999	15:31	1	0.00	0.00	Bay 7

Date	Time	Port	VX	GB	
08/16/1999	15:41	1	0.06	0.00	Bay 7
76T 2W					
08/16/1999	15:51	1	0.00	0.00	Bay 7
08/16/1999	16:01	1	0.00	0.00	Bay 7
08/16/1999	16:11	1	0.06	0.00	Bay 7
79T 2W					
08/16/1999	16:21	1	0.00	0.00	Bay 7
08/16/1999	16:31	1	0.00	0.00	Bay 7
08/16/1999	16:41	1	0.00	0.00	Bay 7
08/16/1999	16:51	1	0.00	0.00	Bay 7
08/16/1999	17:01	1	0.00	0.00	Bay 7
08/16/1999	17:11	1	0.00	0.00	Bay 7
08/16/1999	17:21	1	0.00	0.00	Bay 7
08/16/1999	17:31	1	0.00	0.00	Bay 7
08/16/1999	17:41	1	0.00	0.00	Bay 7
08/16/1999	17:51	1	0.00	0.00	Bay 7
08/16/1999	18:01	1	0.00	0.00	Bay 7
08/16/1999	18:11	1	0.09	0.00	Bay 7
80T 2W					
08/16/1999	18:21	1	0.08	0.00	Bay 7
78T 2W					
08/16/1999	18:31	1	0.00	0.00	Bay 7
08/16/1999	18:41	1	0.00	0.00	Bay 7
08/16/1999	18:51	1	0.05	0.00	Bay 7
78T 1W					
08/16/1999	19:01	1	0.00	0.00	Bay 7
08/16/1999	19:11	1	0.07	0.00	Bay 7
78T 1W					
08/16/1999	19:21	1	0.00	0.00	Bay 7
08/16/1999	19:31	1	0.00	0.00	Bay 7
08/16/1999	19:41	1	0.05	0.00	Bay 7
76T 1W					
08/16/1999	19:51	1	0.06	0.00	Bay 7
76T 1W					
08/16/1999	20:01	1	0.00	0.00	Bay 7
08/16/1999	20:11	1	0.00	0.00	Bay 7
08/16/1999	20:21	1	0.07	0.00	Bay 7
80T 1W					
08/16/1999	20:31	1	0.06	0.00	Bay 7
75T 2W					
08/16/1999	20:41	1	0.06	0.00	Bay 7
80T 1W					
08/16/1999	20:51	1	0.00	0.00	Bay 7
08/16/1999	21:01	1	0.06	0.00	Bay 7
78T 2W					
08/16/1999	21:11	1	0.00	0.00	Bay 7
08/16/1999	21:21	1	0.00	0.00	Bay 7
08/16/1999	21:31	1	0.00	0.00	Bay 7
08/16/1999	21:41	1	0.06	0.00	Bay 7
76T 1W					
08/16/1999	21:51	1	0.08	0.00	Bay 7
77T 2W					
08/16/1999	22:01	1	0.09	0.00	Bay 7
80T 1W					
08/16/1999	22:11	1	0.00	0.00	Bay 7
08/16/1999	22:21	1	0.04	0.00	Bay 7
81T 1W					
08/16/1999	22:31	1	0.00	0.00	Bay 7
08/16/1999	22:41	1	0.08	0.00	Bay 7
75T 1W					

Date	Time	Port	VX	GB		TWAG
08/16/1999	22:51	1	0.00	0.00	Bay 7	
08/16/1999	23:01	1	0.00	0.00	Bay 7	
08/16/1999	23:11	1	0.00	0.00	Bay 7	
08/16/1999	23:21	1	0.00	0.00	Bay 7	
08/16/1999	23:31	1	0.06	0.00	Bay 7	
	75T 1W					
08/16/1999	23:41	1	0.07	0.00	Bay 7	
	81T 1W					
08/16/1999	23:51	1	0.06	0.00	Bay 7	
	81T 1W					
08/17/1999	00:01	1	0.07	0.00	Bay 7	
	78T 1W					
08/17/1999	00:11	1	0.05	0.00	Bay 7	
	78T 2W					
08/17/1999	00:21	1	0.07	0.00	Bay 7	
	78T 2W					
08/17/1999	00:31	1	0.08	0.00	Bay 7	
	78T 1W					
08/17/1999	00:41	1	0.00	0.00	Bay 7	
08/17/1999	00:51	1	0.09	0.00	Bay 7	
	76T 1W					
08/17/1999	01:01	1	0.00	0.00	Bay 7	
08/17/1999	01:11	1	0.08	0.00	Bay 7	
	79T 2W					
08/17/1999	01:21	1	0.00	0.00	Bay 7	
08/17/1999	01:31	1	0.00	0.00	Bay 7	
08/17/1999	01:41	1	0.00	0.00	Bay 7	
08/17/1999	01:51	1	0.00	0.00	Bay 7	
08/17/1999	02:01	1	0.00	0.00	Bay 7	
08/17/1999	02:11	1	0.00	0.00	Bay 7	
08/17/1999	02:21	1	0.08	0.00	Bay 7	
	79T 1W					
08/17/1999	02:31	1	0.00	0.00	Bay 7	
08/17/1999	02:41	1	0.00	0.00	Bay 7	
08/17/1999	02:51	1	0.06	0.00	Bay 7	
	78T 2W					
08/17/1999	03:01	1	0.00	0.00	Bay 7	
08/17/1999	03:11	1	0.06	0.00	Bay 7	
	77T 1W					
08/17/1999	03:21	1	0.00	0.00	Bay 7	
08/17/1999	03:31	1	0.06	0.00	Bay 7	
	78T 1W					
08/17/1999	03:41	1	0.00	0.00	Bay 7	
08/17/1999	03:51	1	0.00	0.00	Bay 7	
08/17/1999	04:01	1	0.07	0.00	Bay 7	
	79T 1W					
08/17/1999	04:11	1	0.00	0.00	Bay 7	
08/17/1999	04:21	1	0.00	0.00	Bay 7	
08/17/1999	04:31	1	0.08	0.00	Bay 7	
	77T 2W					
08/17/1999	04:41	1	0.08	0.00	Bay 7	
	77T 2W					
08/17/1999	04:51	1	0.00	0.00	Bay 7	
08/17/1999	05:01	1	0.10	0.00	Bay 7	
	77T 1W					
08/17/1999	05:11	1	0.00	0.00	Bay 7	
08/17/1999	05:21	1	0.00	0.00	Bay 7	
08/17/1999	05:31	1	0.00	0.00	Bay 7	
08/17/1999	05:41	1	0.00	0.00	Bay 7	

Date	Time	Port	VX	GB			
							TWAG
08/17/1999	05:51	1	0.00	0.00	Bay 7		
08/17/1999	06:01	1	0.09	0.00	Bay 7		
76T 2W							
SAM							ERROR
08/17/1999	06:11	1	0.06	0.00	Bay 7		
77T 1W							
08/17/1999	06:21	1	0.08	0.00	Bay 7		
78T 1W							
SAM							ERROR
08/17/1999	06:31	1	0.06	0.00	Bay 7		
78T 2W							
SAM							ERROR
08/17/1999	06:41	1	0.00	0.00	Bay 7		
08/17/1999	06:51	1	0.08	0.00	Bay 7		
80T 1W							
08/17/1999	07:01	1	0.00	0.00	Bay 7		
08/17/1999	07:11	1	0.05	0.00	Bay 7		
79T 2W							
08/17/1999	07:21	1	0.05	0.00	Bay 7		
80T 1W							
08/17/1999	07:31	1	0.07	0.00	Bay 7		
78T 2W							
08/17/1999	07:41	1	0.06	0.00	Bay 7		
80T 1W							
08/17/1999	07:51	1	0.06	0.00	Bay 7		
77T 1W							
08/17/1999	08:01	1	0.09	0.00	Bay 7		
81T 2W							
08/17/1999	08:11	1	0.00	0.00	Bay 7		
08/17/1999	08:21	1	1.03	0.86	Bay 7		CHE
78T 2W 84T 2W							

08/17/1999 ********** MINICAMS OPERATING PARAMETERS ********** 08:23

S/N 1361 CHECK STATION 7

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 33	± 15
	Inlet	s 50	a 51	± 15
	FPD Block	s150	a153	± 15
	FPD Flame	s225	a209	± 99
	Column		a 49	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a178	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 52	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a235	± 30
PRESSURES, psi:	Air	s 40	a 40	± 5
	Helium	s 40	a40.5	± 5
	Hydrogen	s 40	a 39	± 5
SAMPLE:	Flow rate, ccm	s 450	a 456	± 99
	Average flow rate		a 457	
	Volume, L		a3.66	

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

DC
RGB

ELECTROMETER: FPD signal, nA 138 FPD zero, nA 398

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.03C	197H*	468A	77.7T	2.1W	b 75	e 81
GB	1 FPD	0.86C	3786H*	8522A	84.4T	1.9W	b 81	e 87

CALIBRATION DATA:

VX 1 @	1.00 FPD	190H*	397A	78.0T	1.8W	08/13/1999	18:37
GB 1 @	1.00 FPD	4421H*	8857A	85.1T	1.7W	08/13/1999	18:37

SAMPLING SEQUENCE:

A01 Bay 7

ELAPSED TIME ********** 219 sec

Monitor Serial Number 1361 Date 08/17/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/17/1999	08:31	1	0.06	0.02	Bay 7	
	78T 1W	86T 2W				
08/17/1999	08:41	1	0.00	0.00	Bay 7	
08/17/1999	08:51	1	0.00	0.00	Bay 7	
08/17/1999	09:01	1	0.00	0.00	Bay 7	
08/17/1999	09:11	1	0.00	0.00	Bay 7	
08/17/1999	09:21	1	0.00	0.00	Bay 7	
08/17/1999	09:31	1	0.08	0.00	Bay 7	
	78T 2W					
08/17/1999	09:41	1	0.06	0.00	Bay 7	
	79T 1W					
08/17/1999	09:51	1	0.08	0.00	Bay 7	
	76T 1W					
08/17/1999	10:01	1	0.00	0.00	Bay 7	
08/17/1999	10:11	1	0.09	0.00	Bay 7	
	78T 2W					
08/17/1999	10:21	1	0.07	0.00	Bay 7	
	79T 1W					
08/17/1999	10:31	1	0.07	0.00	Bay 7	
	78T 1W					
08/17/1999	10:41	1	0.84	0.00	Bay 7	
	78T 2W					
08/17/1999	10:51	1	0.12	0.00	Bay 7	
	79T 2W					
08/17/1999	11:01	1	0.10	0.00	Bay 7	
	79T 1W					
08/17/1999	11:11	1	0.10	0.00	Bay 7	
	79T 2W					
08/17/1999	11:21	1	0.00	0.00	Bay 7	
08/17/1999	11:31	1	0.00	0.00	Bay 7	
08/17/1999	11:41	1	0.00	0.00	Bay 7	
08/17/1999	11:51	1	0.00	0.00	Bay 7	
08/17/1999	12:01	1	0.00	0.00	Bay 7	
08/17/1999	12:11	1	0.06	0.00	Bay 7	
	77T 1W					
08/17/1999	12:21	1	0.00	0.00	Bay 7	
08/17/1999	12:31	1	0.00	0.00	Bay 7	
08/17/1999	12:41	1	0.00	0.00	Bay 7	
08/17/1999	12:51	1	0.06	0.00	Bay 7	
	80T 1W					

	77T 1W				
08/17/1999	13:21	1	0.00	0.00	Bay 7
08/17/1999	13:31	1	0.00	0.00	Bay 7
08/17/1999	13:41	1	0.00	0.00	Bay 7
08/17/1999	13:51	1	0.06	0.00	Bay 7
	80T 1W				
08/17/1999	14:01	1	0.05	0.00	Bay 7
	76T 1W				
08/17/1999	14:11	1	0.00	0.00	Bay 7
08/17/1999	14:21	1	0.00	0.00	Bay 7
08/17/1999	14:31	1	0.00	0.00	Bay 7
08/17/1999	14:41	1	0.00	0.00	Bay 7
08/17/1999	14:51	1	0.00	0.00	Bay 7
08/17/1999	15:01	1	0.00	0.00	Bay 7
08/17/1999	15:11	1	0.00	0.00	Bay 7
08/17/1999	15:21	1	0.06	0.00	Bay 7
	77T 1W				

Monitor Serial Number 1361 Date 08/17/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/17/1999	15:31	1	0.00	0.00	Bay 7	
08/17/1999	15:41	1	0.00	0.00	Bay 7	
08/17/1999	15:51	1	0.00	0.00	Bay 7	
08/17/1999	16:01	1	0.00	0.00	Bay 7	
08/17/1999	16:11	1	0.06	0.00	Bay 7	
	79T 2W					
08/17/1999	16:21	1	0.06	0.00	Bay 7	
	78T 2W					
08/17/1999	16:31	1	0.00	0.00	Bay 7	
08/17/1999	16:41	1	0.00	0.00	Bay 7	
08/17/1999	16:51	1	0.08	0.00	Bay 7	
	77T 2W					
08/17/1999	17:01	1	0.07	0.00	Bay 7	
	75T 1W					
08/17/1999	17:11	1	0.00	0.00	Bay 7	
08/17/1999	17:21	1	0.00	0.00	Bay 7	
08/17/1999	17:31	1	0.00	0.00	Bay 7	
08/17/1999	17:41	1	0.09	0.00	Bay 7	
	80T 2W					
08/17/1999	17:51	1	0.07	0.00	Bay 7	
	78T 2W					
08/17/1999	18:01	1	0.08	0.00	Bay 7	
	76T 1W					
08/17/1999	18:11	1	0.07	0.00	Bay 7	
	80T 2W					
08/17/1999	18:21	1	0.00	0.00	Bay 7	
08/17/1999	18:31	1	0.00	0.00	Bay 7	
08/17/1999	18:41	1	0.00	0.00	Bay 7	
08/17/1999	18:51	1	0.00	0.00	Bay 7	
08/17/1999	19:01	1	0.00	0.00	Bay 7	
08/17/1999	19:11	1	0.06	0.00	Bay 7	
	78T 2W					
08/17/1999	19:21	1	0.00	0.00	Bay 7	
08/17/1999	19:31	1	0.08	0.00	Bay 7	
	80T 2W					
08/17/1999	19:41	1	0.00	0.00	Bay 7	
08/17/1999	19:51	1	0.08	0.00	Bay 7	
	79T 1W					
08/17/1999	20:01	1	0.00	0.00	Bay 7	
08/17/1999	20:11	1	0.07	0.00	Bay 7	
	76T 1W					

08/17/1999 20:31	1	0.07	0.00	Bay 7
78T 1W				
08/17/1999 20:41	1	0.00	0.00	Bay 7
08/17/1999 20:51	1	0.00	0.00	Bay 7
08/17/1999 21:01	1	0.06	0.00	Bay 7
78T 1W				
08/17/1999 21:11	1	0.00	0.00	Bay 7
08/17/1999 21:21	1	0.00	0.00	Bay 7
08/17/1999 21:31	1	0.00	0.00	Bay 7
08/17/1999 21:41	1	0.10	0.00	Bay 7
80T 2W				
08/17/1999 21:51	1	0.00	0.00	Bay 7
08/17/1999 22:01	1	0.00	0.00	Bay 7
08/17/1999 22:11	1	0.00	0.00	Bay 7
08/17/1999 22:21	1	0.00	0.00	Bay 7
08/17/1999 22:31	1	0.08	0.00	Bay 7
80T 1W				

Monitor Serial Number 1361 Date 08/17/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/17/1999	22:41	1	0.00	0.00	Bay 7	
08/17/1999	22:51	1	0.05	0.00	Bay 7	
79T 1W						
08/17/1999	23:01	1	0.05	0.00	Bay 7	
78T 1W						
08/17/1999	23:11	1	0.08	0.00	Bay 7	
80T 1W						
08/17/1999	23:21	1	0.08	0.00	Bay 7	
78T 1W						
08/17/1999	23:31	1	0.00	0.00	Bay 7	
08/17/1999	23:41	1	0.00	0.00	Bay 7	
08/17/1999	23:51	1	0.00	0.00	Bay 7	
08/18/1999	00:01	1	0.00	0.00	Bay 7	
08/18/1999	00:11	1	0.00	0.00	Bay 7	
08/18/1999	00:21	1	0.00	0.00	Bay 7	
08/18/1999	00:31	1	0.09	0.00	Bay 7	
75T 1W						
08/18/1999	00:41	1	0.00	0.00	Bay 7	
08/18/1999	00:51	1	0.00	0.00	Bay 7	
08/18/1999	01:01	1	0.07	0.00	Bay 7	
80T 1W						
08/18/1999	01:11	1	0.08	0.00	Bay 7	
77T 1W						
08/18/1999	01:21	1	0.00	0.00	Bay 7	
08/18/1999	01:31	1	0.00	0.00	Bay 7	
08/18/1999	01:41	1	0.00	0.00	Bay 7	
08/18/1999	01:51	1	0.00	0.00	Bay 7	
08/18/1999	02:01	1	0.08	0.00	Bay 7	
78T 1W						
08/18/1999	02:11	1	0.00	0.00	Bay 7	
08/18/1999	02:21	1	0.00	0.00	Bay 7	
08/18/1999	02:31	1	0.07	0.00	Bay 7	
75T 1W						
08/18/1999	02:41	1	0.00	0.00	Bay 7	
08/18/1999	02:51	1	0.00	0.00	Bay 7	
08/18/1999	03:01	1	0.08	0.00	Bay 7	
77T 1W						
08/18/1999	03:11	1	0.00	0.00	Bay 7	
08/18/1999	03:21	1	0.07	0.00	Bay 7	
77T 1W						
08/18/1999	03:31	1	0.00	0.00	Bay 7	

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08/18/1999 03:51  1   0.00    0.00  Bay 7
08/18/1999 04:01  1   0.00    0.00  Bay 7
08/18/1999 04:11  1   0.04    0.00  Bay 7
         81T 1W
08/18/1999 04:21  1   0.00    0.00  Bay 7
08/18/1999 04:31  1   0.09    0.00  Bay 7
         76T 2W
08/18/1999 04:41  1   0.00    0.00  Bay 7
08/18/1999 04:51  1   0.05    0.00  Bay 7
         79T 1W
08/18/1999 05:01  1   0.00    0.00  Bay 7
08/18/1999 05:11  1   0.00    0.00  Bay 7
08/18/1999 05:21  1   0.07    0.00  Bay 7
         76T 2W
08/18/1999 05:31  1   0.06    0.00  Bay 7
         78T 1W


Monitor Serial Number 1361          Date 08/18/1999        Sampling Station    7

Date        Time  Port   VX      GB                                          TWAG

08/18/1999 05:41  1   0.00    0.00  Bay 7
08/18/1999 05:51  1   0.00    0.00  Bay 7
08/18/1999 06:01  1   0.06    0.00  Bay 7
         78T 2W
08/18/1999 06:11  1   0.00    0.00  Bay 7
08/18/1999 06:21  1   0.09    0.00  Bay 7
         81T 1W
08/18/1999 06:31  1   0.06    0.00  Bay 7
         77T 1W
08/18/1999 06:41  1   0.05    0.00  Bay 7
         80T 1W
08/18/1999 06:51  1   0.07    0.00  Bay 7
         75T 1W
08/18/1999 07:01  1   0.07    0.00  Bay 7
         75T 1W
08/18/1999 07:11  1   0.06    0.00  Bay 7
         77T 1W
08/18/1999 07:21  1   0.00    0.00  Bay 7
08/18/1999 07:31  1   0.06    0.00  Bay 7
         77T 2W
08/18/1999 07:41  1   0.06    0.00  Bay 7
         76T 1W
08/18/1999 07:51  1   0.06    0.00  Bay 7
         81T 2W
08/18/1999 08:01  1   0.06    0.00  Bay 7
         79T 2W
08/18/1999 08:11  1   0.00    0.00  Bay 7
08/18/1999 08:21  1   0.07    0.00  Bay 7
         80T 1W
08/18/1999 08:31  1   0.05    0.00  Bay 7
         79T 1W
08/18/1999 08:41  1   0.06    0.00  Bay 7
         77T 1W
08/18/1999 08:51  1   1.05    0.90  Bay 7                                     CAL
         79T 2W  86T 2W
CALIBRATION  VX      GB
AVERAGE    200H   3983H
08/18/1999 09:01  1   1.97    2.02  Bay 7                                     CHE
         78T 2W  85T 2W
08/18/1999 09:11  1   1.02    1.07  Bay 7                                     CHE
         79T 2W  86T 2W
08/18/1999 ********** MINICAMS OPERATING PARAMETERS ********** 09:13
```

SOFTWARE: Version 02181999

TEMPERATURES, °C:	Ambient	s 40	a 31	± 15
	Inlet	s 50	a 52	± 15
	FPD Block	s150	a148	± 15
	FPD Flame	s225	a211	± 99
	Column		a 52	
	Column, low	s 40	a 40	± 15
	Column, high	s180	a178	± 15
	Column rate, °C/min	s150	a151	± 20
	Column rate 2	s 0	a 0	± 20
	PCT heater		a 51	
	PCT heater, low	s 50	a 51	± 20
	PCT heater, high	s235	a236	± 30
PRESSURES, psi:	Air	s 40	a 40	± 5
	Helium	s 40	a40.9	± 5
	Hydrogen	s 40	a 39	± 5
SAMPLE:	Flow rate, ccm	s 450	a 463	± 99
	Average flow rate		a 463	
	Volume, L		a3.71	

DL
PCB

TIMES, sec:	Purge	b 0	e120	Sample	b120	e600
	Desorb	b 5	e 50	Column	b 30	e100
	Column purge	b100	e100	Inject	b120	e130
	FPD zero		On			

VOLTAGE, VDC: FPD photomultiplier s1000 a1006 ± 50

ELECTROMETER: FPD signal, nA 154 FPD zero, nA 404

CONCENTRATION REPORTS: Alarm setpoint, TWAG 1.00

VX	1 FPD	1.02C	205H*	486A	78.8T	2.2W	b 75	e 81
GB	1 FPD	1.07C	4258H*	9796A	85.7T	1.9W	b 81	e 87

CALIBRATION DATA:

VX 1 @	1.00 FPD	200H*	459A	78.7T	2.0W	08/18/1999	08:51
GB 1 @	1.00 FPD	3983H*	9094A	85.5T	2.0W	08/18/1999	08:51

SAMPLING SEQUENCE:

A01 Bay 7

ELAPSED TIME ********** 196 sec

Monitor Serial Number 1361 Date 08/18/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/18/1999	09:21	1	0.10	0.03	Bay 7	
	79T 2W	85T 2W				
08/18/1999	09:31	1	0.07	0.01	Bay 7	
	80T 1W	86T 3W				
08/18/1999	09:41	1	0.06	0.01	Bay 7	
	78T 1W	86T 2W				
08/18/1999	09:51	1	0.00	0.00	Bay 7	
08/18/1999	10:01	1	0.09	0.01	Bay 7	
	81T 2W	86T 2W				
08/18/1999	10:11	1	0.00	0.00	Bay 7	

08/18/1999	10:31	1	0.00	0.00	Bay 7
08/18/1999	10:41	1	0.04	0.00	Bay 7
	79T 1W				
08/18/1999	10:51	1	0.00	0.00	Bay 7
08/18/1999	11:01	1	0.06	0.00	Bay 7
	76T 1W				
08/18/1999	11:11	1	0.00	0.00	Bay 7
08/18/1999	11:21	1	0.09	0.00	Bay 7
	81T 1W				
08/18/1999	11:31	1	0.00	0.00	Bay 7
08/18/1999	11:41	1	0.00	0.00	Bay 7
08/18/1999	11:51	1	0.06	0.00	Bay 7
	80T 1W				
08/18/1999	12:01	1	0.00	0.00	Bay 7
08/18/1999	12:11	1	0.00	0.00	Bay 7
08/18/1999	12:21	1	0.00	0.00	Bay 7
08/18/1999	12:31	1	0.00	0.00	Bay 7
08/18/1999	12:41	1	0.09	0.00	Bay 7
	78T 1W				
08/18/1999	12:51	1	0.07	0.00	Bay 7
	80T 2W				
08/18/1999	13:01	1	0.00	0.00	Bay 7
08/18/1999	13:11	1	0.00	0.00	Bay 7
08/18/1999	13:21	1	0.06	0.00	Bay 7
	78T 1W				
08/18/1999	13:31	1	0.08	0.00	Bay 7
	76T 1W				
08/18/1999	13:41	1	0.10	0.00	Bay 7
	76T 1W				
08/18/1999	13:51	1	0.00	0.00	Bay 7
08/18/1999	14:01	1	0.00	0.00	Bay 7
08/18/1999	14:11	1	0.00	0.00	Bay 7
08/18/1999	14:21	1	0.00	0.00	Bay 7
08/18/1999	14:31	1	0.00	0.00	Bay 7
08/18/1999	14:41	1	0.00	0.00	Bay 7
08/18/1999	14:51	1	0.00	0.00	Bay 7
08/18/1999	15:01	1	0.07	0.00	Bay 7
	75T 1W				
08/18/1999	15:11	1	0.07	0.00	Bay 7
	80T 1W				
08/18/1999	15:21	1	0.00	0.00	Bay 7
08/18/1999	15:31	1	0.07	0.00	Bay 7
	75T 1W				
08/18/1999	15:41	1	0.07	0.00	Bay 7
	75T 1W				
08/18/1999	15:51	1	0.00	0.00	Bay 7
08/18/1999	16:01	1	0.00	0.00	Bay 7

Monitor Serial Number 1361 Date 08/18/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/18/1999	16:11	1	0.09	0.00	Bay 7	
	79T 1W					
08/18/1999	16:21	1	0.07	0.00	Bay 7	
	76T 2W					
08/18/1999	16:31	1	0.06	0.00	Bay 7	
	75T 1W					
08/18/1999	16:41	1	0.06	0.00	Bay 7	
	79T 1W					
08/18/1999	16:51	1	0.00	0.00	Bay 7	
08/18/1999	17:01	1	0.00	0.00	Bay 7	
08/18/1999	17:11	1	0.05	0.00	Bay 7	

	75T 1W				
08/18/1999	17:31	1	0.00	0.00	Bay 7
08/18/1999	17:41	1	0.07	0.00	Bay 7
	77T 1W				
08/18/1999	17:51	1	0.00	0.00	Bay 7
08/18/1999	18:01	1	0.00	0.00	Bay 7
08/18/1999	18:11	1	0.00	0.00	Bay 7
08/18/1999	18:21	1	0.04	0.00	Bay 7
	80T 2W				
08/18/1999	18:31	1	0.00	0.00	Bay 7
08/18/1999	18:41	1	0.04	0.00	Bay 7
	79T 1W				
08/18/1999	18:51	1	0.05	0.01	Bay 7
	79T 1W	85T 2W			
08/18/1999	19:01	1	0.07	0.00	Bay 7
	79T 1W				
08/18/1999	19:11	1	0.05	0.00	Bay 7
	80T 1W				
08/18/1999	19:21	1	0.00	0.00	Bay 7
08/18/1999	19:31	1	0.05	0.00	Bay 7
	76T 2W				
08/18/1999	19:41	1	0.05	0.00	Bay 7
	80T 2W				
08/18/1999	19:51	1	0.00	0.00	Bay 7
08/18/1999	20:01	1	0.07	0.00	Bay 7
	77T 1W				
08/18/1999	20:11	1	0.06	0.00	Bay 7
	79T 1W				
08/18/1999	20:21	1	0.00	0.00	Bay 7
08/18/1999	20:31	1	0.00	0.00	Bay 7
08/18/1999	20:41	1	0.00	0.00	Bay 7
08/18/1999	20:51	1	0.00	0.00	Bay 7
08/18/1999	21:01	1	0.00	0.00	Bay 7
08/18/1999	21:11	1	0.00	0.00	Bay 7
08/18/1999	21:21	1	0.00	0.00	Bay 7
08/18/1999	21:31	1	0.00	0.00	Bay 7
08/18/1999	21:41	1	0.00	0.00	Bay 7
08/18/1999	21:51	1	0.08	0.00	Bay 7
	79T 1W				
08/18/1999	22:01	1	0.00	0.00	Bay 7
08/18/1999	22:11	1	0.07	0.00	Bay 7
	78T 1W				
08/18/1999	22:21	1	0.05	0.00	Bay 7
	76T 1W				
08/18/1999	22:31	1	0.00	0.00	Bay 7
08/18/1999	22:41	1	0.07	0.01	Bay 7
	80T 1W	86T 1W			

Monitor Serial Number 1361 Date 08/18/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/18/1999	22:51	1	0.05	0.00	Bay 7	
	78T 1W					
08/18/1999	23:01	1	0.11	0.00	Bay 7	
	80T 1W					
08/18/1999	23:11	1	0.05	0.00	Bay 7	
	80T 1W					
08/18/1999	23:21	1	0.08	0.00	Bay 7	
	78T 2W					
08/18/1999	23:31	1	0.06	0.00	Bay 7	
	78T 1W					
08/18/1999	23:41	1	0.00	0.00	Bay 7	

08/19/1999 00:01	1	0.00	0.00	Bay 7
08/19/1999 00:11	1	0.00	0.01	Bay 7
86T 3W				
08/19/1999 00:21	1	0.06	0.00	Bay 7
79T 1W				
08/19/1999 00:31	1	0.00	0.00	Bay 7
08/19/1999 00:41	1	0.00	0.00	Bay 7
08/19/1999 00:51	1	0.00	0.00	Bay 7
08/19/1999 01:01	1	0.00	0.00	Bay 7
08/19/1999 01:11	1	0.00	0.00	Bay 7
08/19/1999 01:21	1	0.00	0.00	Bay 7
08/19/1999 01:31	1	0.08	0.00	Bay 7
78T 1W				
08/19/1999 01:41	1	0.00	0.00	Bay 7
08/19/1999 01:51	1	0.05	0.00	Bay 7
77T 1W				
08/19/1999 02:01	1	0.00	0.00	Bay 7
08/19/1999 02:11	1	0.00	0.00	Bay 7
08/19/1999 02:21	1	0.00	0.00	Bay 7
08/19/1999 02:31	1	0.00	0.00	Bay 7
08/19/1999 02:41	1	0.00	0.00	Bay 7
08/19/1999 02:51	1	0.06	0.00	Bay 7
81T 1W				
08/19/1999 03:01	1	0.05	0.00	Bay 7
80T 2W				
08/19/1999 03:11	1	0.08	0.00	Bay 7
76T 1W				
08/19/1999 03:21	1	0.06	0.00	Bay 7
79T 1W				
08/19/1999 03:31	1	0.00	0.00	Bay 7
08/19/1999 03:41	1	0.00	0.00	Bay 7
08/19/1999 03:51	1	0.00	0.00	Bay 7
08/19/1999 04:01	1	0.07	0.00	Bay 7
78T 2W				
08/19/1999 04:11	1	0.07	0.00	Bay 7
77T 2W				
08/19/1999 04:21	1	0.00	0.00	Bay 7
08/19/1999 04:31	1	0.05	0.00	Bay 7
78T 1W				
08/19/1999 04:41	1	0.08	0.00	Bay 7
79T 1W				
08/19/1999 04:51	1	0.10	0.00	Bay 7
76T 1W				
08/19/1999 05:01	1	0.00	0.00	Bay 7
08/19/1999 05:11	1	0.08	0.00	Bay 7
80T 1W				

Monitor Serial Number 1361 Date 08/19/1999 Sampling Station 7

Date	Time	Port	VX	GB		TWAG
08/19/1999 05:21		1	0.06	0.00	Bay 7	
77T 1W						
08/19/1999 05:31		1	0.06	0.00	Bay 7	
78T 1W						
08/19/1999 05:41		1	0.05	0.00	Bay 7	
81T 1W						
08/19/1999 05:51		1	0.00	0.00	Bay 7	
08/19/1999 06:01		1	0.00	0.00	Bay 7	
08/19/1999 06:11		1	0.00	0.00	Bay 7	
08/19/1999 06:21		1	0.00	0.00	Bay 7	
08/19/1999 06:31		1	0.07	0.00	Bay 7	
80T 1W						

```
08/19/1999 06:51  1   0.00    0.00  Bay 7
08/19/1999 07:01  1   0.00    0.00  Bay 7
08/19/1999 07:11  1   0.07    0.01  Bay 7
         78T 2W  83T 1W
08/19/1999 07:21  1   0.00    0.00  Bay 7
08/19/1999 07:31  1   0.07    0.00  Bay 7
         80T 1W
08/19/1999 07:41  1   0.00    0.00  Bay 7
08/19/1999 07:51  1   0.97    0.98  Bay 7                                    CHE
         78T 2W  85T 2W
08/19/1999 ********** MINICAMS OPERATING PARAMETERS ********** 07:55

S/N 1361                                                STATION    7

SOFTWARE:                                             Version 02181999

TEMPERATURES, °C:  Ambient              s 40        a 32        ± 15
                   Inlet                s 50        a 51        ± 15
                   FPD Block            s150        a151        ± 15
                   FPD Flame            s225        a210        ± 99
                   Column                           a 40
                   Column, low          s 40        a 41        ± 15
                   Column, high         s180        a179        ± 15
                   Column rate, °C/min  s150        a150        ± 20
                   Column rate 2        s  0        a  0        ± 20
                   PCT heater                       a 52
                   PCT heater, low      s 50        a 51        ± 20
                   PCT heater, high     s235        a235        ± 30

PRESSURES, psi:    Air                  s 40        a 40        ±  5
                   Helium               s 40       a40.8        ±  5
                   Hydrogen             s 40        a 39        ±  5

SAMPLE:            Flow rate, ccm      s 450        a 454       ± 99
                   Average flow rate                a 464
                   Volume, L                       a3.71

TIMES, sec:        Purge          b  0   e120   Sample   b120    e600
                   Desorb         b  5   e 50   Column   b 30    e100
                   Column purge   b100   e100   Inject   b120    e130
                   FPD zero               On

VOLTAGE, VDC:      FPD photomultiplier s1000       a1006        ± 50

ELECTROMETER:      FPD signal, nA        131   FPD  zero, nA     387

CONCENTRATION REPORTS:                     Alarm setpoint, TWAG    1.00

VX   1 FPD   0.97C    194H*    473A   78.3T  2.1W       b 75    e 81
GB   1 FPD   0.98C   3911H*   9053A   85.1T  2.0W       b 81    e 87

CALIBRATION DATA:

VX 1 @  1.00 FPD      200H*    459A   78.7T  2.0W 08/18/1999   08:51
GB 1 @  1.00 FPD     3983H*   9094A   85.5T  2.0W 08/18/1999   08:51

SAMPLING SEQUENCE:

  A01   Bay 7

ELAPSED TIME ********************************************** 359 sec
```

08/19/1999 08:01	1	0.00	0.03	Bay 7
85T 2W				
08/19/1999 08:11	1	0.00	0.00	Bay 7
08/19/1999 08:21	1	0.05	0.00	Bay 7
77T 1W				
08/19/1999 08:31	1	0.00	0.00	Bay 7
08/19/1999 08:41	1	0.06	0.00	Bay 7
76T 2W				
08/19/1999 08:51	1	0.00	0.00	Bay 7
08/19/1999 09:01	1	0.00	0.00	Bay 7
08/19/1999 09:11	1	0.07	0.00	Bay 7
80T 1W				
08/19/1999 09:21	1	0.00	0.00	Bay 7
08/19/1999 09:31	1	0.00	0.00	Bay 7
08/19/1999 09:41	1	0.06	0.00	Bay 7
79T 1W				
08/19/1999 09:51	1	0.07	0.00	Bay 7
81T 1W				
08/19/1999 10:01	1	0.00	0.00	Bay 7
08/19/1999 10:11	1	0.00	0.00	Bay 7
08/19/1999 10:21	1	0.00	0.00	Bay 7
08/19/1999 10:31	1	0.05	0.00	Bay 7
78T 2W				
08/19/1999 10:41	1	0.08	0.00	Bay 7
78T 1W				
08/19/1999 10:51	1	0.09	0.00	Bay 7
76T 2W				
08/19/1999 11:01	1	0.05	0.00	Bay 7
77T 1W				
08/19/1999 11:11	1	0.00	0.00	Bay 7
08/19/1999 11:21	1	0.00	0.00	Bay 7
08/19/1999 11:31	1	0.05	0.00	Bay 7
80T 1W				
08/19/1999 11:41	1	0.00	0.00	Bay 7
08/19/1999 11:51	1	0.00	0.00	Bay 7
08/19/1999 12:01	1	0.00	0.00	Bay 7
08/19/1999 12:11	1	0.00	0.00	Bay 7
08/19/1999 12:21	1	0.00	0.00	Bay 7
08/19/1999 12:31	1	0.00	0.00	Bay 7
08/19/1999 12:41	1	0.00	0.00	Bay 7
08/19/1999 12:51	1	0.00	0.00	Bay 7
08/19/1999 13:01	1	0.00	0.00	Bay 7
08/19/1999 13:11	1	0.00	0.00	Bay 7
08/19/1999 13:21	1	0.05	0.00	Bay 7
79T 1W				
08/19/1999 13:31	1	0.00	0.00	Bay 7
08/19/1999 13:41	1	0.06	0.00	Bay 7
76T 1W				
08/19/1999 13:51	1	0.07	0.00	Bay 7
81T 1W				
08/19/1999 14:01	1	0.00	0.00	Bay 7
08/19/1999 14:11	1	0.00	0.00	Bay 7
08/19/1999 14:21	1	0.00	0.00	Bay 7
08/19/1999 14:31	1	0.00	0.00	Bay 7
08/19/1999 14:41	1	0.00	0.00	Bay 7
08/19/1999 14:51	1	0.05	0.00	Bay 7
77T 1W				
08/19/1999 15:01	1	0.00	0.00	Bay 7
08/19/1999 15:11	1	0.00	0.00	Bay 7

08/19/1999 15:21	1	0.04	0.00	Bay 7
77T 1W				
08/19/1999 15:31	1	0.00	0.00	Bay 7
08/19/1999 15:41	1	0.06	0.00	Bay 7
79T 1W				
08/19/1999 15:51	1	0.00	0.00	Bay 7
08/19/1999 16:01	1	0.06	0.00	Bay 7
78T 1W				
08/19/1999 16:11	1	0.08	0.00	Bay 7
77T 2W				
08/19/1999 16:21	1	0.09	0.00	Bay 7
79T 1W				
08/19/1999 16:31	1	0.07	0.00	Bay 7
75T 2W				
08/19/1999 16:41	1	0.00	0.00	Bay 7
08/19/1999 16:51	1	0.00	0.00	Bay 7
08/19/1999 17:01	1	0.06	0.00	Bay 7
79T 2W				
08/19/1999 17:11	1	0.00	0.00	Bay 7
08/19/1999 17:21	1	0.09	0.00	Bay 7
77T 1W				
08/19/1999 17:31	1	0.07	0.00	Bay 7
79T 1W				
08/19/1999 17:41	1	0.04	0.00	Bay 7
78T 1W				
08/19/1999 17:51	1	0.00	0.00	Bay 7
08/19/1999 18:01	1	0.05	0.00	Bay 7
75T 1W				
08/19/1999 18:11	1	0.05	0.00	Bay 7
77T 1W				
08/19/1999 18:21	1	0.00	0.00	Bay 7
08/19/1999 18:31	1	0.00	0.00	Bay 7
08/19/1999 18:41	1	0.05	0.00	Bay 7
78T 1W				
08/19/1999 18:51	1	0.00	0.00	Bay 7
08/19/1999 19:01	1	0.06	0.00	Bay 7
77T 1W				
08/19/1999 19:11	1	0.00	0.00	Bay 7
08/19/1999 19:21	1	0.00	0.00	Bay 7
08/19/1999 19:31	1	0.00	0.00	Bay 7
08/19/1999 19:41	1	0.00	0.00	Bay 7
08/19/1999 19:51	1	0.00	0.00	Bay 7
08/19/1999 20:01	1	0.05	0.00	Bay 7
79T 1W				
08/19/1999 20:11	1	0.08	0.00	Bay 7
79T 2W				
08/19/1999 20:21	1	0.00	0.00	Bay 7
08/19/1999 20:31	1	0.00	0.00	Bay 7
08/19/1999 20:41	1	0.07	0.00	Bay 7
79T 1W				
08/19/1999 20:51	1	0.00	0.00	Bay 7
08/19/1999 21:01	1	0.00	0.00	Bay 7
08/19/1999 21:11	1	0.00	0.00	Bay 7
08/19/1999 21:21	1	0.00	0.00	Bay 7
08/19/1999 21:31	1	0.06	0.00	Bay 7
77T 1W				
08/19/1999 21:41	1	0.05	0.00	Bay 7
77T 2W				
08/19/1999 21:51	1	0.00	0.00	Bay 7

Monitor Serial Number 1361 Date 08/19/1999 Sampling Station 7

Date	Time	Rept	UV	GP	TWAG

08/19/1999 22:11	1	0.00	0.00	Bay 7
08/19/1999 22:21	1	0.08	0.00	Bay 7
80T 1W				
08/19/1999 22:31	1	0.06	0.00	Bay 7
78T 2W				
08/19/1999 22:41	1	0.00	0.00	Bay 7
08/19/1999 22:51	1	0.00	0.00	Bay 7
08/19/1999 23:01	1	0.05	0.00	Bay 7
80T 2W				
08/19/1999 23:11	1	0.05	0.00	Bay 7
76T 2W				
08/19/1999 23:21	1	0.07	0.00	Bay 7
77T 1W				
08/19/1999 23:31	1	0.00	0.00	Bay 7
08/19/1999 23:41	1	0.00	0.00	Bay 7
08/19/1999 23:51	1	0.07	0.00	Bay 7
80T 2W				
08/20/1999 00:01	1	0.05	0.00	Bay 7
80T 1W				
08/20/1999 00:11	1	0.00	0.00	Bay 7
08/20/1999 00:21	1	0.07	0.00	Bay 7
79T 2W				
08/20/1999 00:31	1	0.05	0.00	Bay 7
79T 2W				
08/20/1999 00:41	1	0.00	0.00	Bay 7
08/20/1999 00:51	1	0.07	0.00	Bay 7
76T 1W				
08/20/1999 01:01	1	0.07	0.00	Bay 7
79T 1W				
08/20/1999 01:11	1	0.10	0.00	Bay 7
79T 2W				
08/20/1999 01:21	1	0.00	0.00	Bay 7
08/20/1999 01:31	1	0.00	0.00	Bay 7
08/20/1999 01:41	1	0.00	0.00	Bay 7
08/20/1999 01:51	1	0.00	0.00	Bay 7
08/20/1999 02:01	1	0.06	0.00	Bay 7
79T 2W				
08/20/1999 02:11	1	0.00	0.00	Bay 7
08/20/1999 02:21	1	0.00	0.00	Bay 7
08/20/1999 02:31	1	0.00	0.00	Bay 7
08/20/1999 02:41	1	0.00	0.00	Bay 7
08/20/1999 02:51	1	0.07	0.00	Bay 7
78T 1W				
08/20/1999 03:01	1	0.00	0.00	Bay 7
08/20/1999 03:11	1	0.00	0.00	Bay 7
08/20/1999 03:21	1	0.00	0.00	Bay 7
08/20/1999 03:31	1	0.00	0.00	Bay 7
08/20/1999 03:41	1	0.00	0.00	Bay 7
08/20/1999 03:51	1	0.00	0.00	Bay 7
08/20/1999 04:01	1	0.00	0.00	Bay 7
08/20/1999 04:11	1	0.00	0.00	Bay 7
08/20/1999 04:21	1	0.06	0.00	Bay 7
76T 1W				
08/20/1999 04:31	1	0.00	0.00	Bay 7
08/20/1999 04:41	1	0.04	0.00	Bay 7
78T 1W				
08/20/1999 04:51	1	0.06	0.00	Bay 7
80T 2W				

SAM ERROR

Monitor Serial Number 1361 Date 08/20/1999 Sampling Station 7

Date	Time	Port	VX	GB	TWAG

08/20/1999 05:11	1	0.00	0.00	Bay 7	
SAM					ERROR
08/20/1999 05:21	1	0.04	0.00	Bay 7	
78T 1W					
SAM					ERROR
08/20/1999 05:31	1	0.08	0.00	Bay 7	
79T 3W					
SAM					ERROR
08/20/1999 05:41	1	0.03	0.00	Bay 7	
80T 2W					
SAM					ERROR
08/20/1999 05:51	1	0.03	0.00	Bay 7	
76T 2W					
08/20/1999 06:01	1	0.00	0.00	Bay 7	
08/20/1999 06:11	1	0.07	0.00	Bay 7	
77T 1W					
08/20/1999 06:21	1	0.00	0.00	Bay 7	
08/20/1999 06:31	1	0.06	0.00	Bay 7	
81T 1W					
08/20/1999 06:41	1	0.00	0.00	Bay 7	
08/20/1999 06:51	1	0.00	0.00	Bay 7	
08/20/1999 07:01	1	0.00	0.00	Bay 7	
08/20/1999 07:11	1	0.00	0.00	Bay 7	