Alton Coal Development, LLC.

Summary of PM_{10} Data
Collected at Coal Hollow Mine, Utah
During the Second Quarter, 2018

Submitted to:
Utah Division of Environmental Quality
Division of Air Quality
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DAQ-2018-013037

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Alton Coal Development
Coal Hollow Project

Contents

List of Tables

List of Figures

List of Appendices

1.0 INTRODUCTION

This report summarizes measurements of Particulate Matter less than 10 microns nominal aerodynamic diameter (PM_{10}) collected and processed by Alton Coal Development, LLC, (ACD) from the five monitoring stations located at the Coal Hollow Mine Facility in Alton, Utah. Monitoring for PM_{10} is a condition of the mines operating permit.

PM_{10} monitoring at the site consists of five BGI PQ200 PM_{10} monitors run by solar power. Figure 2 of this report shows the approximate locations of the monitoring locations. The BGI PQ200 monitors are EPA Reference Method monitors and are operated on the National Particulate 1-in-6 Monitoring Schedule. The data summarized herein covers the data collected during the second quarter of 2018.

2.0 SITE LOCATION

The Coal Hollow Mine is located in Kane County, Utah, approximately three miles southeast of the town of Alton, Utah. Figure 1 on the following page gives an overview of the site location. Specifically, the Coal Hollow Mine is located in Sections 19, 20, 29, and 30 of Township 39S, Range 5W; with an approximate facility location of:

Northing: 41401699 meters

Easting: 371534 meters

Universal Transverse Mercator (UTM) Datum NAD27, Zone 12

The three monitoring locations as depicted in Figure 2, are located in positions to collect both background and maximum PM10 concentrations. The background monitor has a manufactures serial #962, therefore this monitor will be referred as monitor 962A. The compliance monitor for the Coal Hollow Mine (CHM) has a manufactures serial #963, therefore this monitor will be referred as monitor 963B. The co-located monitor has a manufactures serial #964, therefore this monitor will be referred as monitor 964C. The background monitor coordinates are Northing: 4140856, Easting 373119, (UTM) Datum NAD27, Zone 12. The CHM compliance monitor and the co-located monitor coordinates are Northing: 4140396, Easting 371147, (UTM) Datum NAD27, Zone 12. The North Private Lease area of the CHM is located in Sections 12, 13 of Township 39S, Range 6W and Sections 7, 18 of Township 39S, Range 5W. The compliance monitor for the North Private Lease has a manufactures serial #2366, therefore this monitor will be referred as monitor 2366D. The co-located monitor has a manufactures serial #2398, therefore this monitor will be referred as monitor 2398E. The NPL compliance monitor and the co-located monitor coordinates are Northing: 4141570, Easting 370928, (UTM) Datum NAD27, Zone 12.

Figure 1 - Site Location Map

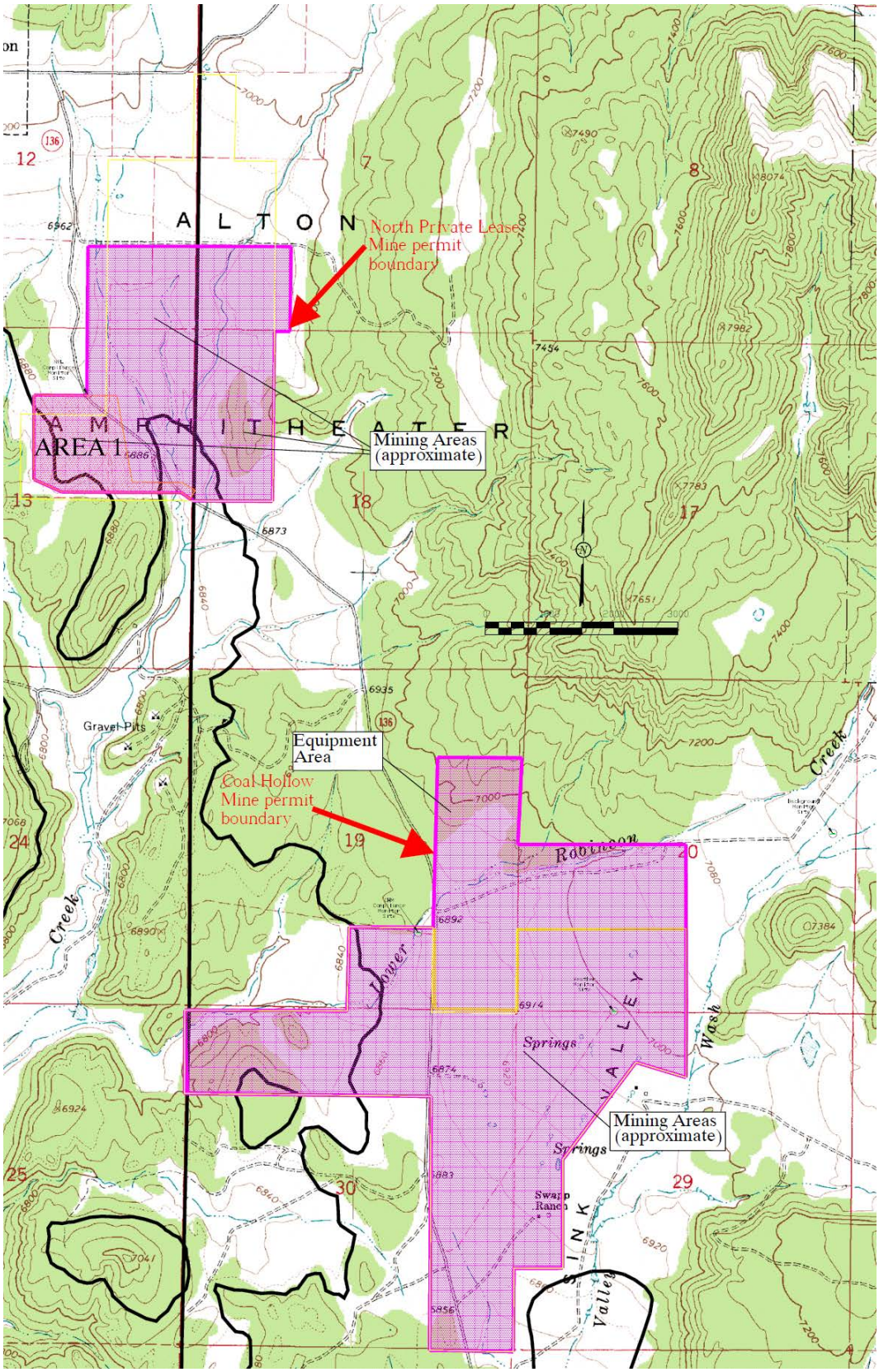
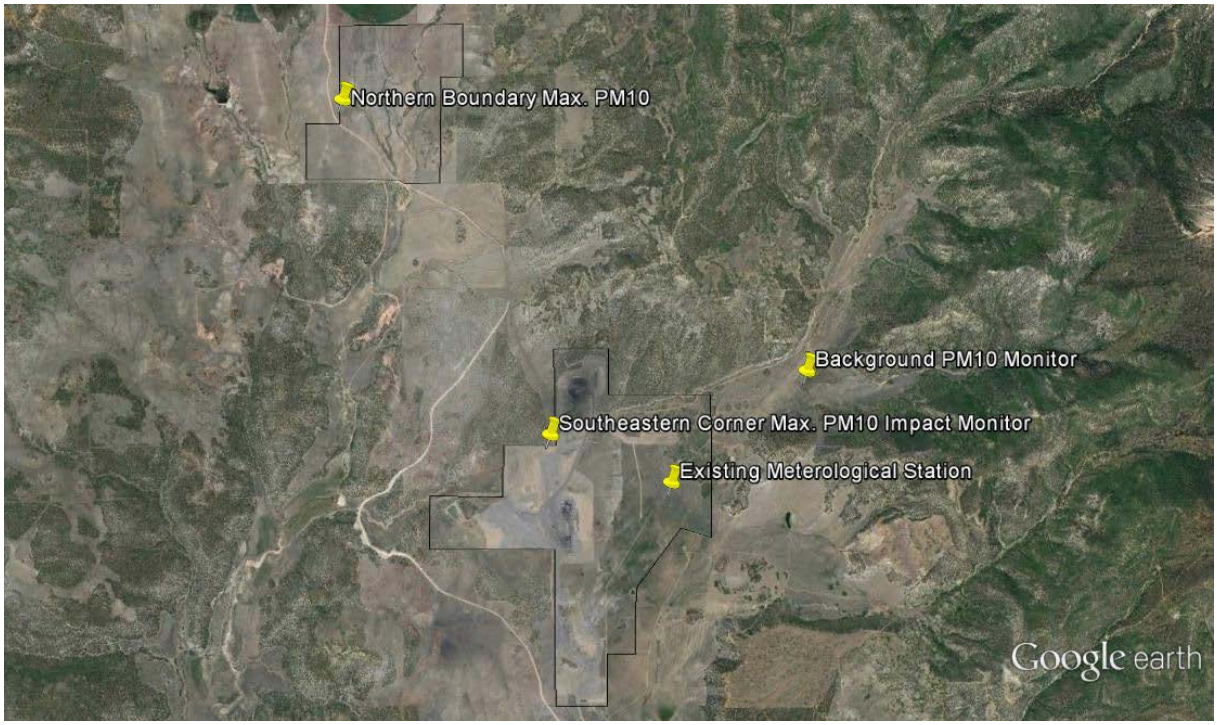


Figure 2 - Satellite View of Monitoring Locations



3.0 AIR QUALITY DATA SUMMARIES

A listing of the measured PM_{10} concentrations for the quarter are presented in Appendix B (individual data sheets are provided on the enclosed disk in the PDF version of Appendix B) and Field Data Sheets generated during the collection of each sample are presented in Appendix D. Measurements were collected during a 24-hour periods and represent the average PM_{10} concentration during the midnight to midnight data collection cycle. As required by the operating permit for the CHM, duplicate measurements were made with Sampler #963B (designated as a compliance monitor) and Sampler #964C (designated as a co-located sampler) to the extent possible. The quarterly mean PM_{10} concentration and the comparison of measured concentrations to standards are based on measurements from the primary Sampler #963B. If a measurement from Sampler #963B was missing or invalid, the measurement from the secondary Sampler #964C would be used. Also, required by the operating permit for the NPL, duplicate measurements were made with Sampler #2366D (designated as a compliance monitor) and Sampler #2398E (designated as a co-located sampler) to the extent possible. The quarterly mean PM_{10} concentration and the comparison of measured concentrations to standards are based on measurements from the primary Sampler #2366D. If a measurement from Sampler #2366D was missing or invalid, the measurement from the secondary Sampler #2398E would be used.

The highest 24-hour mean PM_{10} concentrations measured during the quarter from the three monitoring locations are summarized in Table I, Table II, Table III, Table IV and Table V. The three highest concentrations, # of valid samples, and the arithmetic mean concentrations from each of the sites are listed. Two measured PM_{10} concentrations exceded the 24-hour National Ambient Air Quality Standard (NAAQS) of 150 µg/m^3. For the June 6th and June 19th run, both the 2366D and 2398E monitor exceeded the NAAQS. Mining operation required removal of topsoil in the next block to mine and the removed topsoil was stockpiled within ten feet of the collocated monitors. The stockpile, once complete will be seeded to stabilize from future wind and water erosion.

Table I - Summary of Measured PM_{10} Concentrations (µg/m^3)
Background Monitor - 962A

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/25/2018	17.3
2nd Highest	4/2/2018	15.0
Monthly Mean	4/1/18-4/30/18	9.3
Monthly Mean	5/1/18-5/31/18	8.8
Monthly Mean	6/1/18-6/30/18	11.9
Quarterly Mean	4/1/18-6/30/18 (15 valid samples)	10.0

Table II - Summary of Measured PM_{10} Concentrations (µg/m^3)
Compliance Monitor - 963B

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/7/2018	81.1
2nd Highest	6/13/2018	64.0
Monthly Mean	4/1/18-4/30/18	15.9
Monthly Mean	5/1/18-5/31/18	26.6
Monthly Mean	6/1/18-6/30/18	48.2

Quarterly Mean	4/1/18-6/30/18 (14 valid samples)	31.2

Table III - Summary of Measured PM_{10} Concentrations ($\mu g/m^3$)
Collocated Monitor – 964C

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/13/2018	52.0
2nd Highest	5/8/2018	51.1
Monthly Mean	4/1/18-4/30/18	18.9
Monthly Mean	5/1/18-5/31/18	45.3
Monthly Mean	6/1/18-6/30/18	34.5
Quarterly Mean	4/1/18-6/30/18 (12 valid samples)	29.8

Table IV - Summary of Measured PM_{10} Concentrations ($\mu g/m^3$)
Compliance Monitor – 2366D

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/13/2018	410.1
2nd Highest	6/19/2018	170.3
Monthly Mean	4/1/18-4/30/18	34.7
Monthly Mean	5/1/18-5/31/18	30.5
Monthly Mean	6/1/18-6/30/18	172.2
Quarterly Mean	4/1/18-6/30/18 (14 valid samples)	72.5

Table V - Summary of Measured PM_{10} Concentrations ($\mu g/m^3$)
Collocated Monitor – 2398E

RANK	DATE	PM_{10} CONCENTRATION
Highest	6/13/2018	402.6
2nd Highest	6/19/2018	207.2
Monthly Mean	4/1/18-4/30/18	32.7
Monthly Mean	5/1/18-5/31/18	35.6
Monthly Mean	6/1/18-6/30/18	175.9
Quarterly Mean	4/1/18-6/30/18 (15 valid samples)	81.4

Table VI – Mean Quarterly and Monthly Wind Speed

	2nd Quarter 2018	Apr.	May	Jun.
Mean Wind Speed (m/s)	3.53	3.87	3.25	3.48

4.0 DATA RECOVERY AND QUALITY ASSURANCE

4.1 Data Recovery

Monitor 962A
Monitor 962A collected 15 of the 15 samples during the quarter. The percent recovery for this quarter is 100%.

Monitor 963B
Monitor 963B collected 14 of the 15 samples during the quarter. The percent recovery for this quarter is 93%. For the sample date April 8th, the monitor over ran the programed sampling time.

Monitor 964C

Monitor 964C collected 12 of the 15 samples during the quarter. The percent recovery for this quarter is 80%. For the sample date May 2nd, the monitor failed to run due to a flow rate excursion > ± 5% for > 5 minutes that caused the monitor to shut down. For the sample date May 20th, the monitor failed to run due to a flow rate excursion > ± 5% for > 5 minutes that caused the monitor to shut down. For the sample date May 26th, the monitor failed to run due to a flow rate excursion > ± 5% for > 5 minutes that caused the monitor to shut down.

Monitor 2366D

Monitor 2366D collected 14 of the 15 samples during the quarter. The percent recovery for this quarter is 93%. For the sample date June 25th, the monitor over ran the sample period due to operator error in programing.

Monitor 2398E

Monitor 2398E collected 15 of the 15 samples during the quarter. The percent recovery for this quarter is 100%.

The PM_{10} data recoveries for the five monitoring stations are presented below:

Table VII - Summary of Data Recovery

SAMPLER	POSSIBLE SAMPLES	VALID SAMPLES	PERCENT DATA RECOVERY
962A	15	15	100%
963B	15	14	93%
964C	15	12	80%
2366D	15	14	93%
2398E	15	15	100%

4.2 Quality Assurance

Quality assurance procedures utilized to verify the integrity of the measured PM_{10} data included the following:

1. Review of PM_{10} precision measurements based upon duplicate, collocated measurements.

2. Independent quarterly audits of the PM_{10} samplers.

3. Monthly zero and single point flow rate checks of the PM_{10} samplers.

4.2.1 Precision of PM_{10} Measurements

The precision of the PM_{10} measurements was determined from the duplicate samples collected from the collocated BGI PQ200 Monitors 963B and 964C at the Coal Hollow Mine and 2366D and 2398E at the North Private Lease. As recommended in *40 CFR, Part 58*, Appendix A, Section 5.3.1, PM_{10} precision checks are reported for instances when the concentrations for duplicate samples both exceed 3 $\mu g/m^3$. Duplicate samples that did not meet this condition were omitted for the purposes of the precision checks. Appendix C, of this report summarizes precision calculations between the compliance monitor and the co-located monitor. Monthly flow rate verification data is also summarized in Appendix C.

Precision calculations at the Coal Hollow Mine were developed based on 11 valid pairs of co-located monitoring data during the quarter. Single point precision based on *40 CFR, Part 58*, Appendix A Equation 2 results were -68.6% to 86.8%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 41.7%. This value is not within the 10% goal for aggregate CV.

Precision calculations at the North Private Lease were developed based on 14 valid pairs of co-located monitoring data during the quarter. Single point precision based on *40 CFR, Part 58*, Appendix A Equation 2 results were -38.5% to 32.9%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 17.8%. This value is not within the 10% goal for aggregate CV.

4.2.2 Audit Results

The accuracy of the PM_{10} sampler flows was verified by a performance audit conducted by Air Resource Specialist on June 28, 2018. A copy of the audit report is presented in Appendix E and is summarized in Table VI. The audit results indicate that the five samplers were operating properly.

Table VIII- Audit Summary

SAMPLER	AUDIT % DIFFERENCE	LIMIT*	DESIGN % DIFFERENCE	LIMIT*
962A	-1.8	±4%	1.8	± 5%
963B	-1.5	±4%	1.5	± 5%
964C	-2.0	±4%	0.1	± 5%
2366D	0.4	±4%	-0.4	± 5%
2398E	-0.9	±4%	0.7	± 5%
*Values between ± 7% and ± 10% require recalibration but no data are invalidated.				

4.2.3 Zero and Single Point Flow Rate Checks

Zero and single-point flow rate verifications are performed by a site technician on a monthly basis. The data was then input into a statistical calculator to calculate percent difference and bias between each of the monitors and the monthly single point flow rate measured by a NIST traceable calibration orifice. The calculator used is called the "Data Assessment Statistical Calculator" DASC Tool. DASC was developed for the data user community and can be found in the Precision and Accuracy Reporting System within the Quality Assurance section of EPA's Ambient Monitoring Technology Information System. This data is presented in Appendix C of this report.

APPENDIX A

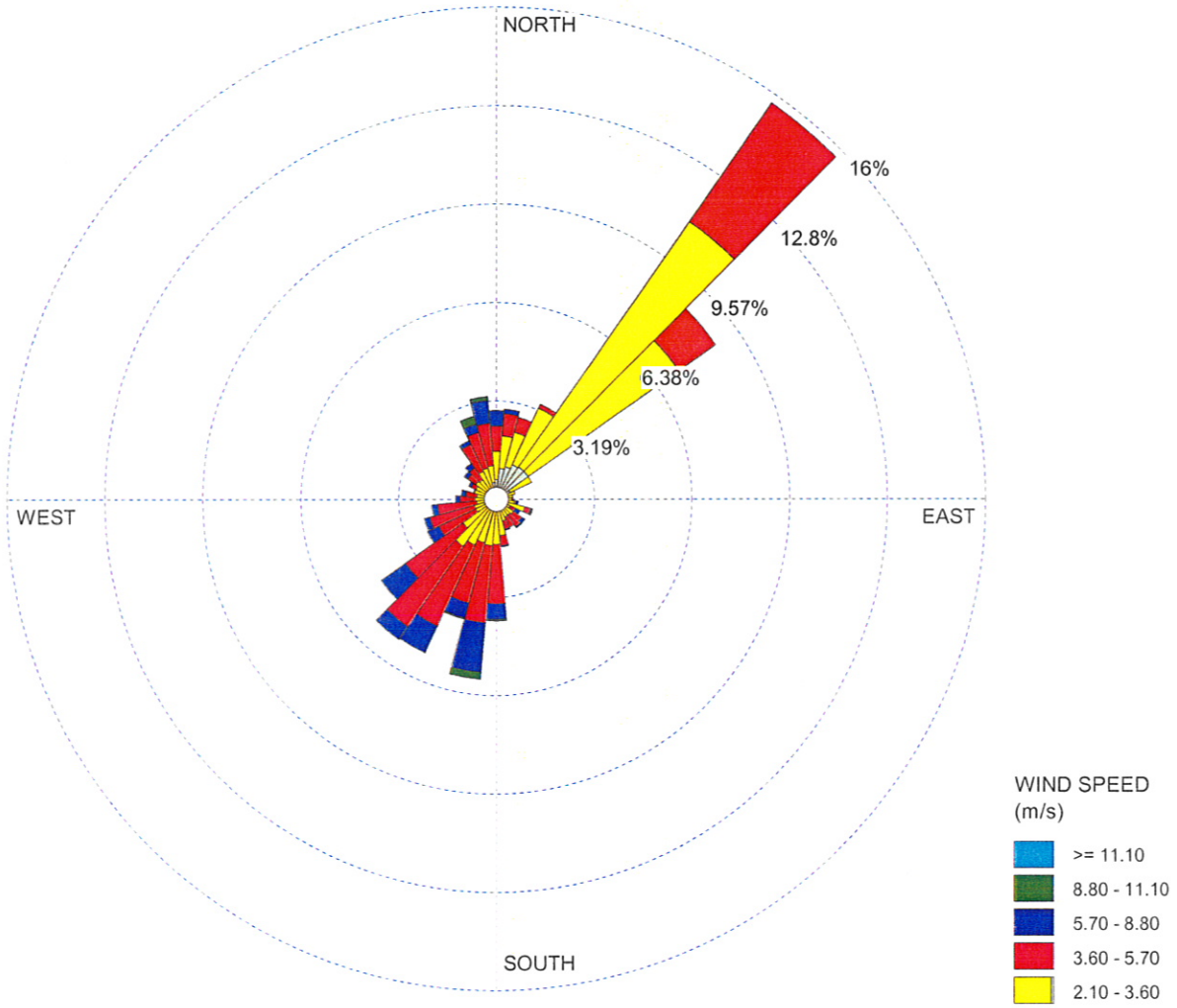
Windrose

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2018 4th Qtr.

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 4/1/2018 - 00:00 **End Date: 6/30/2018 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.27%**	TOTAL COUNT: **2183 hrs.**	
	AVG. WIND SPEED: **3.53 m/s**	DATE: **7/3/2018**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 4/1/2018 - 00:00
End Date: 6/30/2018 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	14	20	18	11	0	0	63
5-15	22	23	16	3	0	0	64
15-25	24	25	11	0	0	0	60
25-35	27	44	3	0	0	0	74
35-45	28	211	102	0	0	0	341
45-55	28	130	32	0	0	0	190
55-65	11	17	0	0	0	0	28
65-75	6	8	0	0	0	0	14
75-85	8	4	0	0	0	0	12
85-95	6	5	1	0	0	0	12
95-105	6	7	1	2	0	0	16
105-115	9	12	4	2	0	0	27
115-125	4	7	4	4	0	0	19
125-135	7	8	7	3	0	0	25
135-145	7	7	10	1	0	0	25
145-155	5	9	8	0	0	0	22
155-165	7	9	6	1	0	0	23
165-175	6	20	7	1	0	0	34
175-185	6	26	42	11	1	0	86
185-195	7	26	55	35	5	0	128
195-205	6	26	44	11	1	0	88
205-215	7	29	63	21	0	0	120
215-225	5	36	69	11	0	0	121
225-235	5	24	50	21	0	0	100
235-245	3	13	29	9	0	0	54
245-255	5	11	33	4	0	0	53
255-265	7	7	28	4	0	0	46
265-275	6	9	11	3	0	0	29
275-285	5	9	8	3	0	0	25
285-295	8	8	1	0	0	0	17
295-305	6	10	4	2	0	0	22
305-315	4	14	7	3	0	0	28
315-325	6	11	10	4	0	0	31
325-335	6	16	21	3	0	0	46
335-345	6	17	26	6	6	0	61
345-355	12	12	30	16	3	0	73
Total	335	870	761	195	16	0	2184

Frequency of Calm Winds: 6
Average Wind Speed: 3.53 m/s

Station ID: 1 Run ID:
Start Date: 4/1/2018 - 00:00
End Date: 6/30/2018 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.006410	0.009158	0.008242	0.005037	0.000000	0.000000	0.028846
5-15	0.010073	0.010531	0.007326	0.001374	0.000000	0.000000	0.029304
15-25	0.010989	0.011447	0.005037	0.000000	0.000000	0.000000	0.027473
25-35	0.012363	0.020147	0.001374	0.000000	0.000000	0.000000	0.033883
35-45	0.012821	0.096612	0.046703	0.000000	0.000000	0.000000	0.156136
45-55	0.012821	0.059524	0.014652	0.000000	0.000000	0.000000	0.086996
55-65	0.005037	0.007784	0.000000	0.000000	0.000000	0.000000	0.012821
65-75	0.002747	0.003663	0.000000	0.000000	0.000000	0.000000	0.006410
75-85	0.003663	0.001832	0.000000	0.000000	0.000000	0.000000	0.005495
85-95	0.002747	0.002289	0.000458	0.000000	0.000000	0.000000	0.005495
95-105	0.002747	0.003205	0.000458	0.000916	0.000000	0.000000	0.007326
105-115	0.004121	0.005495	0.001832	0.000916	0.000000	0.000000	0.012363
115-125	0.001832	0.003205	0.001832	0.001832	0.000000	0.000000	0.008700
125-135	0.003205	0.003663	0.003205	0.001374	0.000000	0.000000	0.011447
135-145	0.003205	0.003205	0.004579	0.000458	0.000000	0.000000	0.011447
145-155	0.002289	0.004121	0.003663	0.000000	0.000000	0.000000	0.010073
155-165	0.003205	0.004121	0.002747	0.000458	0.000000	0.000000	0.010531
165-175	0.002747	0.009158	0.003205	0.000458	0.000000	0.000000	0.015568
175-185	0.002747	0.011905	0.019231	0.005037	0.000458	0.000000	0.039377
185-195	0.003205	0.011905	0.025183	0.016026	0.002289	0.000000	0.058608
195-205	0.002747	0.011905	0.020147	0.005037	0.000458	0.000000	0.040293
205-215	0.003205	0.013278	0.028846	0.009615	0.000000	0.000000	0.054945
215-225	0.002289	0.016484	0.031593	0.005037	0.000000	0.000000	0.055403
225-235	0.002289	0.010989	0.022894	0.009615	0.000000	0.000000	0.045788
235-245	0.001374	0.005952	0.013278	0.004121	0.000000	0.000000	0.024725
245-255	0.002289	0.005037	0.015110	0.001832	0.000000	0.000000	0.024267
255-265	0.003205	0.003205	0.012821	0.001832	0.000000	0.000000	0.021062
265-275	0.002747	0.004121	0.005037	0.001374	0.000000	0.000000	0.013278
275-285	0.002289	0.004121	0.003663	0.001374	0.000000	0.000000	0.011447
285-295	0.003663	0.003663	0.000458	0.000000	0.000000	0.000000	0.007784
295-305	0.002747	0.004579	0.001832	0.000916	0.000000	0.000000	0.010073
305-315	0.001832	0.006410	0.003205	0.001374	0.000000	0.000000	0.012821
315-325	0.002747	0.005037	0.004579	0.001832	0.000000	0.000000	0.014194
325-335	0.002747	0.007326	0.009615	0.001374	0.000000	0.000000	0.021062
335-345	0.002747	0.007784	0.011905	0.002747	0.002747	0.000000	0.027930
345-355	0.005495	0.005495	0.013736	0.007326	0.001374	0.000000	0.033425
Total	0.153388	0.398352	0.348443	0.089286	0.007326	0.000000	0.996795

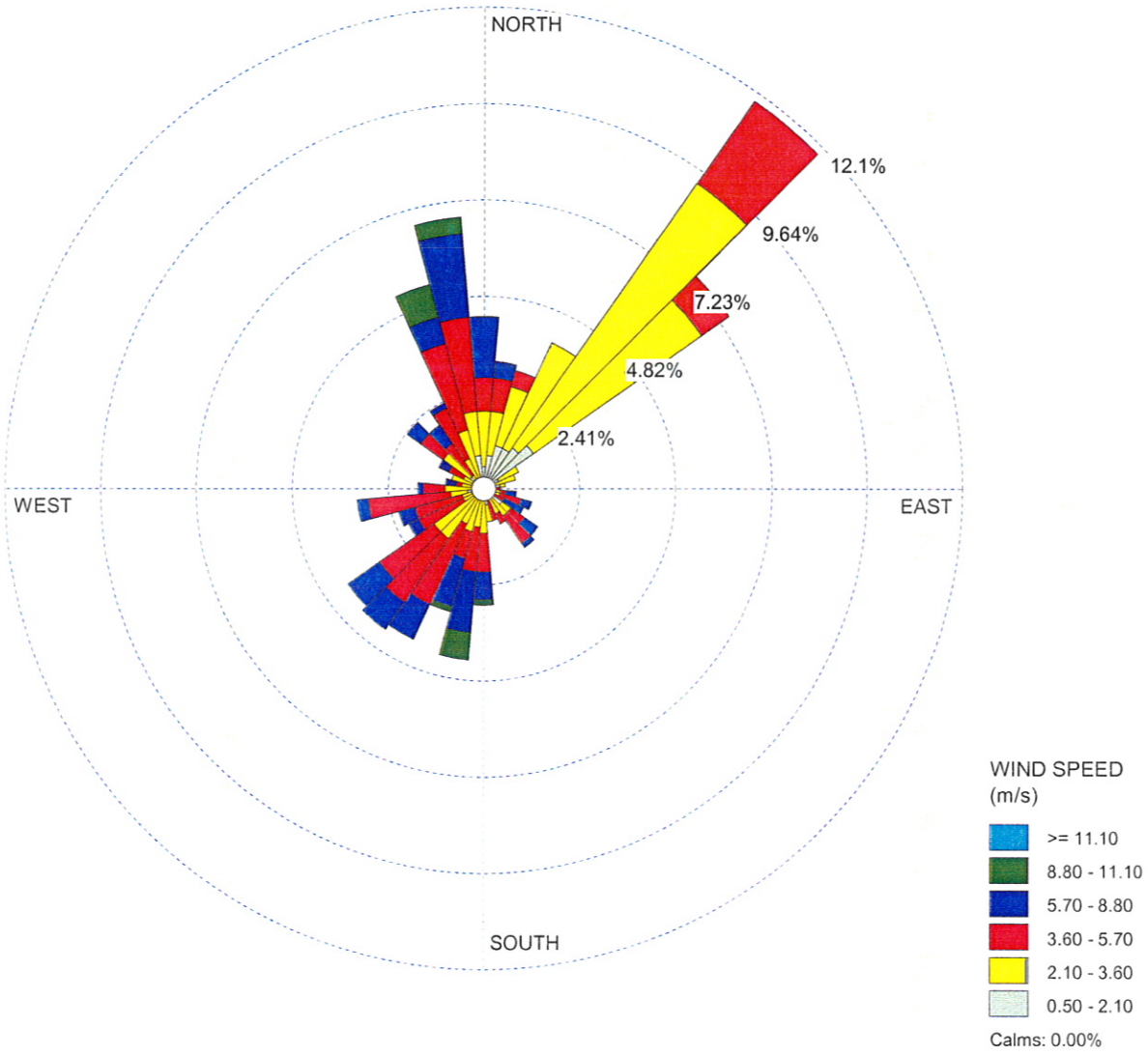
Frequency of Calm Winds: 0.27%
Average Wind Speed: 3.53 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2018 April.

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 4/1/2018 - 00:00** **End Date: 4/30/2018 - 23:00**	COMPANY NAME: **Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **3.87 m/s**	DATE: **7/3/2018**	PROJECT NO.:

Station ID: 1 Run ID:
Start Date: 4/1/2018 - 00:00
End Date: 4/30/2018 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	4	10	6	11	0	0	31
5-15	6	8	6	3	0	0	23
15-25	8	11	3	0	0	0	22
25-35	8	21	0	0	0	0	29
35-45	9	58	18	0	0	0	85
45-55	11	37	6	0	0	0	54
55-65	3	4	0	0	0	0	7
65-75	2	4	0	0	0	0	6
75-85	3	1	0	0	0	0	4
85-95	0	2	1	0	0	0	3
95-105	1	2	1	2	0	0	6
105-115	0	3	4	2	0	0	9
115-125	1	1	2	4	0	0	8
125-135	4	2	3	3	0	0	12
135-145	2	4	6	1	0	0	13
145-155	1	4	2	0	0	0	7
155-165	0	2	4	0	0	0	6
165-175	3	3	0	0	0	0	6
175-185	0	8	7	5	1	0	21
185-195	1	6	8	11	5	0	31
195-205	2	6	5	9	1	0	23
205-215	2	5	16	7	0	0	30
215-225	1	10	14	6	0	0	31
225-235	1	10	12	7	0	0	30
235-245	1	3	9	2	0	0	15
245-255	2	2	9	3	0	0	16
255-265	3	3	15	2	0	0	23
265-275	2	5	4	1	0	0	12
275-285	1	3	1	2	0	0	7
285-295	2	4	0	0	0	0	6
295-305	1	3	3	2	0	0	9
305-315	3	6	5	3	0	0	17
315-325	0	3	7	4	0	0	14
325-335	1	5	10	1	0	0	17
335-345	2	9	16	5	6	0	38
345-355	6	8	17	15	3	0	49
Total	97	276	220	111	16	0	720

Frequency of Calm Winds: 0
Average Wind Speed: 3.87 m/s

Station ID: 1 Run ID:
Start Date: 4/1/2018 - 00:00
End Date: 4/30/2018 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.005556	0.013889	0.008333	0.015278	0.000000	0.000000	0.043056
5-15	0.008333	0.011111	0.008333	0.004167	0.000000	0.000000	0.031944
15-25	0.011111	0.015278	0.004167	0.000000	0.000000	0.000000	0.030556
25-35	0.011111	0.029167	0.000000	0.000000	0.000000	0.000000	0.040278
35-45	0.012500	0.080556	0.025000	0.000000	0.000000	0.000000	0.118056
45-55	0.015278	0.051389	0.008333	0.000000	0.000000	0.000000	0.075000
55-65	0.004167	0.005556	0.000000	0.000000	0.000000	0.000000	0.009722
65-75	0.002778	0.005556	0.000000	0.000000	0.000000	0.000000	0.008333
75-85	0.004167	0.001389	0.000000	0.000000	0.000000	0.000000	0.005556
85-95	0.000000	0.002778	0.001389	0.000000	0.000000	0.000000	0.004167
95-105	0.001389	0.002778	0.001389	0.002778	0.000000	0.000000	0.008333
105-115	0.000000	0.004167	0.005556	0.002778	0.000000	0.000000	0.012500
115-125	0.001389	0.001389	0.002778	0.005556	0.000000	0.000000	0.011111
125-135	0.005556	0.002778	0.004167	0.004167	0.000000	0.000000	0.016667
135-145	0.002778	0.005556	0.008333	0.001389	0.000000	0.000000	0.018056
145-155	0.001389	0.005556	0.002778	0.000000	0.000000	0.000000	0.009722
155-165	0.000000	0.002778	0.005556	0.000000	0.000000	0.000000	0.008333
165-175	0.004167	0.004167	0.000000	0.000000	0.000000	0.000000	0.008333
175-185	0.000000	0.011111	0.009722	0.006944	0.001389	0.000000	0.029167
185-195	0.001389	0.008333	0.011111	0.015278	0.006944	0.000000	0.043056
195-205	0.002778	0.008333	0.006944	0.012500	0.001389	0.000000	0.031944
205-215	0.002778	0.006944	0.022222	0.009722	0.000000	0.000000	0.041667
215-225	0.001389	0.013889	0.019444	0.008333	0.000000	0.000000	0.043056
225-235	0.001389	0.013889	0.016667	0.009722	0.000000	0.000000	0.041667
235-245	0.001389	0.004167	0.012500	0.002778	0.000000	0.000000	0.020833
245-255	0.002778	0.002778	0.012500	0.004167	0.000000	0.000000	0.022222
255-265	0.004167	0.004167	0.020833	0.002778	0.000000	0.000000	0.031944
265-275	0.002778	0.006944	0.005556	0.001389	0.000000	0.000000	0.016667
275-285	0.001389	0.004167	0.001389	0.002778	0.000000	0.000000	0.009722
285-295	0.002778	0.005556	0.000000	0.000000	0.000000	0.000000	0.008333
295-305	0.001389	0.004167	0.004167	0.002778	0.000000	0.000000	0.012500
305-315	0.004167	0.008333	0.006944	0.004167	0.000000	0.000000	0.023611
315-325	0.000000	0.004167	0.009722	0.005556	0.000000	0.000000	0.019444
325-335	0.001389	0.006944	0.013889	0.001389	0.000000	0.000000	0.023611
335-345	0.002778	0.012500	0.022222	0.006944	0.008333	0.000000	0.052778
345-355	0.008333	0.011111	0.023611	0.020833	0.004167	0.000000	0.068056
Total	0.134722	0.383333	0.305556	0.154167	0.022222	0.000000	1.000000

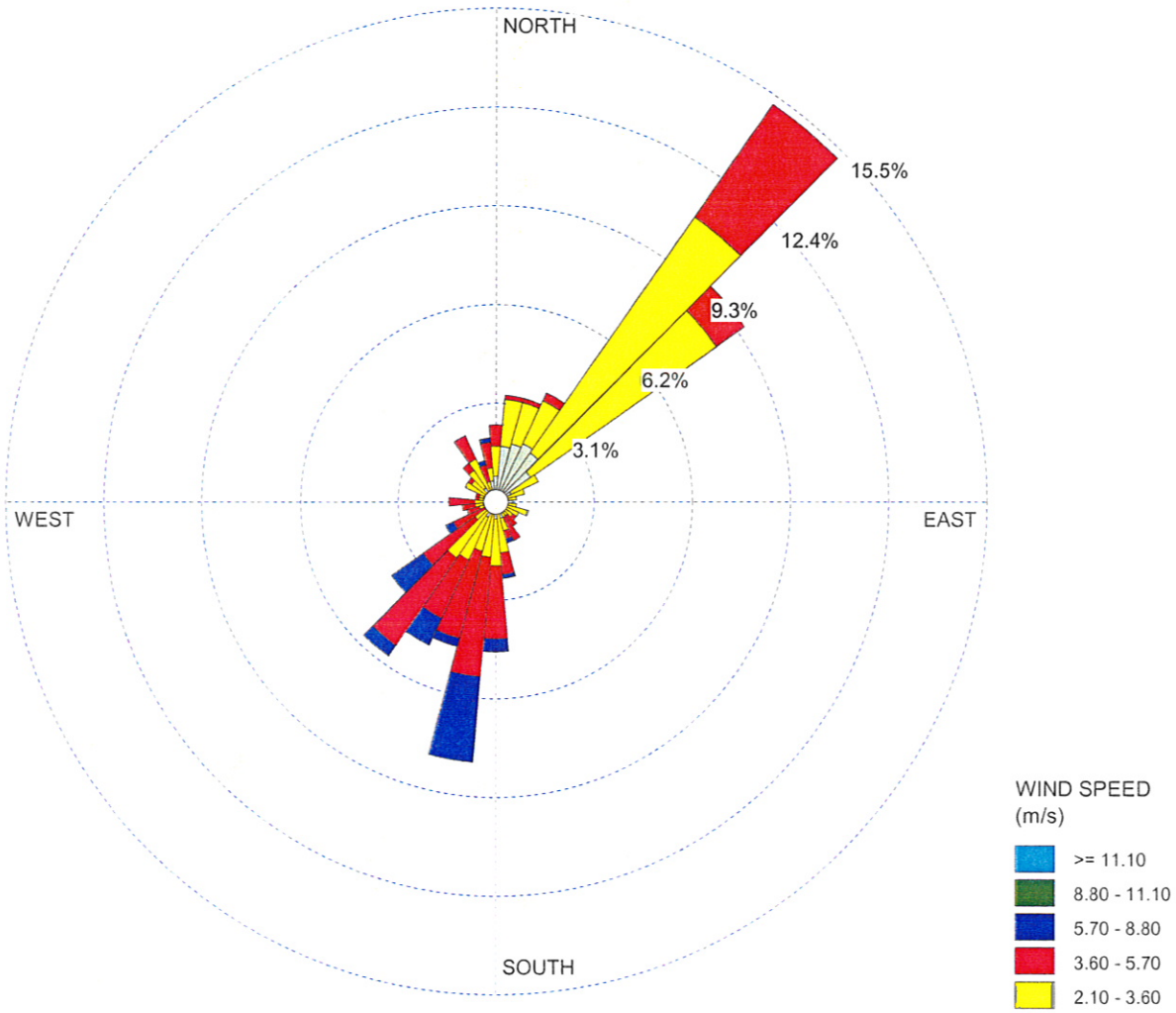
Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.87 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2018 May

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 5/1/2018 - 00:00** **End Date: 5/31/2018 - 23:00**	COMPANY NAME: **Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.81%**	TOTAL COUNT: **743 hrs.**	
	AVG. WIND SPEED: **3.25 m/s**	DATE: **7/3/2018**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 5/1/2018 - 00:00
End Date: 5/31/2018 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	6	7	5	0	0	0	18
5-15	13	11	1	0	0	0	25
15-25	14	10	1	0	0	0	25
25-35	15	11	2	0	0	0	28
35-45	14	67	32	0	0	0	113
45-55	10	53	8	0	0	0	71
55-65	4	7	0	0	0	0	11
65-75	3	4	0	0	0	0	7
75-85	3	2	0	0	0	0	5
85-95	4	0	0	0	0	0	4
95-105	3	2	0	0	0	0	5
105-115	2	6	0	0	0	0	8
115-125	2	4	0	0	0	0	6
125-135	1	4	1	0	0	0	6
135-145	3	1	3	0	0	0	7
145-155	3	1	6	0	0	0	10
155-165	4	3	2	1	0	0	10
165-175	0	12	5	1	0	0	18
175-185	4	11	17	3	0	0	35
185-195	3	10	28	20	0	0	61
195-205	3	9	21	2	0	0	35
205-215	4	11	15	7	0	0	37
215-225	1	15	25	3	0	0	44
225-235	2	4	15	9	0	0	30
235-245	1	2	8	2	0	0	13
245-255	0	4	3	0	0	0	7
255-265	3	2	3	0	0	0	8
265-275	2	3	6	0	0	0	11
275-285	2	2	1	0	0	0	5
285-295	3	1	1	0	0	0	5
295-305	2	6	0	0	0	0	8
305-315	1	6	1	0	0	0	8
315-325	4	5	2	0	0	0	11
325-335	3	8	6	0	0	0	17
335-345	3	2	4	1	0	0	10
345-355	5	3	6	1	0	0	15
Total	150	309	228	50	0	0	744

Frequency of Calm Winds: 6
Average Wind Speed: 3.25 m/s

Station ID: 1 Run ID:
Start Date: 5/1/2018 - 00:00
End Date: 5/31/2018 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.008065	0.009409	0.006720	0.000000	0.000000	0.000000	0.024194
5-15	0.017473	0.014785	0.001344	0.000000	0.000000	0.000000	0.033602
15-25	0.018817	0.013441	0.001344	0.000000	0.000000	0.000000	0.033602
25-35	0.020161	0.014785	0.002688	0.000000	0.000000	0.000000	0.037634
35-45	0.018817	0.090054	0.043011	0.000000	0.000000	0.000000	0.151882
45-55	0.013441	0.071237	0.010753	0.000000	0.000000	0.000000	0.095430
55-65	0.005376	0.009409	0.000000	0.000000	0.000000	0.000000	0.014785
65-75	0.004032	0.005376	0.000000	0.000000	0.000000	0.000000	0.009409
75-85	0.004032	0.002688	0.000000	0.000000	0.000000	0.000000	0.006720
85-95	0.005376	0.000000	0.000000	0.000000	0.000000	0.000000	0.005376
95-105	0.004032	0.002688	0.000000	0.000000	0.000000	0.000000	0.006720
105-115	0.002688	0.008065	0.000000	0.000000	0.000000	0.000000	0.010753
115-125	0.002688	0.005376	0.000000	0.000000	0.000000	0.000000	0.008065
125-135	0.001344	0.005376	0.001344	0.000000	0.000000	0.000000	0.008065
135-145	0.004032	0.001344	0.004032	0.000000	0.000000	0.000000	0.009409
145-155	0.004032	0.001344	0.008065	0.000000	0.000000	0.000000	0.013441
155-165	0.005376	0.004032	0.002688	0.001344	0.000000	0.000000	0.013441
165-175	0.000000	0.016129	0.006720	0.001344	0.000000	0.000000	0.024194
175-185	0.005376	0.014785	0.022849	0.004032	0.000000	0.000000	0.047043
185-195	0.004032	0.013441	0.037634	0.026882	0.000000	0.000000	0.081989
195-205	0.004032	0.012097	0.028226	0.002688	0.000000	0.000000	0.047043
205-215	0.005376	0.014785	0.020161	0.009409	0.000000	0.000000	0.049731
215-225	0.001344	0.020161	0.033602	0.004032	0.000000	0.000000	0.059140
225-235	0.002688	0.005376	0.020161	0.012097	0.000000	0.000000	0.040323
235-245	0.001344	0.002688	0.010753	0.002688	0.000000	0.000000	0.017473
245-255	0.000000	0.005376	0.004032	0.000000	0.000000	0.000000	0.009409
255-265	0.004032	0.002688	0.004032	0.000000	0.000000	0.000000	0.010753
265-275	0.002688	0.004032	0.008065	0.000000	0.000000	0.000000	0.014785
275-285	0.002688	0.002688	0.001344	0.000000	0.000000	0.000000	0.006720
285-295	0.004032	0.001344	0.001344	0.000000	0.000000	0.000000	0.006720
295-305	0.002688	0.008065	0.000000	0.000000	0.000000	0.000000	0.010753
305-315	0.001344	0.008065	0.001344	0.000000	0.000000	0.000000	0.010753
315-325	0.005376	0.006720	0.002688	0.000000	0.000000	0.000000	0.014785
325-335	0.004032	0.010753	0.008065	0.000000	0.000000	0.000000	0.022849
335-345	0.004032	0.002688	0.005376	0.001344	0.000000	0.000000	0.013441
345-355	0.006720	0.004032	0.008065	0.001344	0.000000	0.000000	0.020161
Total	0.201613	0.415323	0.306452	0.067204	0.000000	0.000000	0.990591

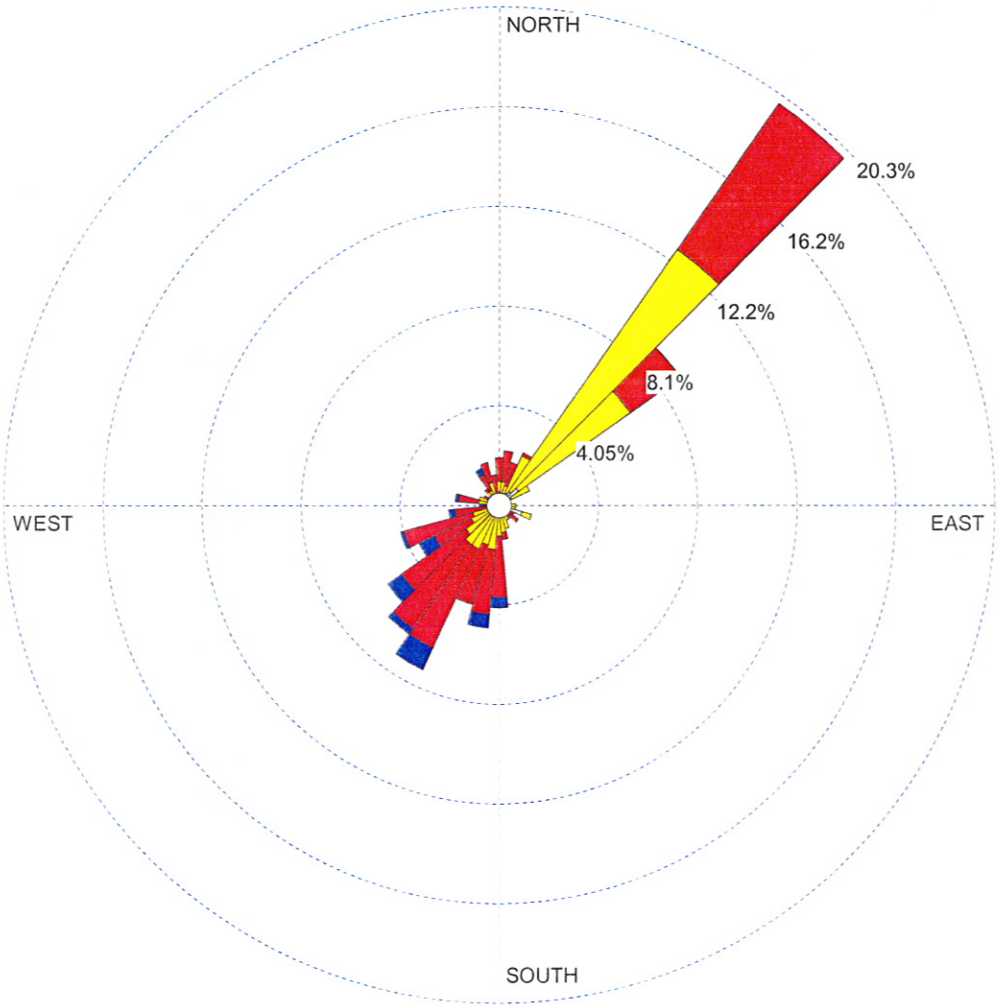
Frequency of Calm Winds: 0.81%
Average Wind Speed: 3.25 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2018 June

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.10
- 8.80 - 11.10
- 5.70 - 8.80
- 3.60 - 5.70
- 2.10 - 3.60
- 0.50 - 2.10

Calms: 0.00%

COMMENTS:	DATA PERIOD: **Start Date: 6/1/2018 - 00:00** **End Date: 6/30/2018 - 23:00**	COMPANY NAME: **Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.00%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **3.48 m/s**	DATE: **7/3/2018**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 6/1/2018 - 00:00
End Date: 6/30/2018 - 23:00

Frequency Distribution
(Count)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	4	3	7	0	0	0	14
5-15	3	4	9	0	0	0	16
15-25	2	4	7	0	0	0	13
25-35	4	12	1	0	0	0	17
35-45	5	86	52	0	0	0	143
45-55	7	40	18	0	0	0	65
55-65	4	6	0	0	0	0	10
65-75	1	0	0	0	0	0	1
75-85	2	1	0	0	0	0	3
85-95	2	3	0	0	0	0	5
95-105	2	3	0	0	0	0	5
105-115	7	3	0	0	0	0	10
115-125	1	2	2	0	0	0	5
125-135	2	2	3	0	0	0	7
135-145	2	2	1	0	0	0	5
145-155	1	4	0	0	0	0	5
155-165	3	4	0	0	0	0	7
165-175	3	5	2	0	0	0	10
175-185	2	7	18	3	0	0	30
185-195	3	10	19	4	0	0	36
195-205	1	11	18	0	0	0	30
205-215	1	13	32	7	0	0	53
215-225	3	11	30	2	0	0	46
225-235	2	10	23	5	0	0	40
235-245	1	8	12	5	0	0	26
245-255	3	5	21	1	0	0	30
255-265	1	2	10	2	0	0	15
265-275	2	1	1	2	0	0	6
275-285	2	4	6	1	0	0	13
285-295	3	3	0	0	0	0	6
295-305	3	1	1	0	0	0	5
305-315	0	2	1	0	0	0	3
315-325	2	3	1	0	0	0	6
325-335	2	3	5	2	0	0	12
335-345	1	6	6	0	0	0	13
345-355	1	1	7	0	0	0	9
Total	88	285	313	34	0	0	720

Frequency of Calm Winds: 0
Average Wind Speed: 3.48 m/s

Station ID: 1 Run ID:
Start Date: 6/1/2018 - 00:00
End Date: 6/30/2018 - 23:00

Frequency Distribution
(Normalized)

Wind Direction (Blowing From) / Wind Speed (m/s)

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.005556	0.004167	0.009722	0.000000	0.000000	0.000000	0.019444
5-15	0.004167	0.005556	0.012500	0.000000	0.000000	0.000000	0.022222
15-25	0.002778	0.005556	0.009722	0.000000	0.000000	0.000000	0.018056
25-35	0.005556	0.016667	0.001389	0.000000	0.000000	0.000000	0.023611
35-45	0.006944	0.119444	0.072222	0.000000	0.000000	0.000000	0.198611
45-55	0.009722	0.055556	0.025000	0.000000	0.000000	0.000000	0.090278
55-65	0.005556	0.008333	0.000000	0.000000	0.000000	0.000000	0.013889
65-75	0.001389	0.000000	0.000000	0.000000	0.000000	0.000000	0.001389
75-85	0.002778	0.001389	0.000000	0.000000	0.000000	0.000000	0.004167
85-95	0.002778	0.004167	0.000000	0.000000	0.000000	0.000000	0.006944
95-105	0.002778	0.004167	0.000000	0.000000	0.000000	0.000000	0.006944
105-115	0.009722	0.004167	0.000000	0.000000	0.000000	0.000000	0.013889
115-125	0.001389	0.002778	0.002778	0.000000	0.000000	0.000000	0.006944
125-135	0.002778	0.002778	0.004167	0.000000	0.000000	0.000000	0.009722
135-145	0.002778	0.002778	0.001389	0.000000	0.000000	0.000000	0.006944
145-155	0.001389	0.005556	0.000000	0.000000	0.000000	0.000000	0.006944
155-165	0.004167	0.005556	0.000000	0.000000	0.000000	0.000000	0.009722
165-175	0.004167	0.006944	0.002778	0.000000	0.000000	0.000000	0.013889
175-185	0.002778	0.009722	0.025000	0.004167	0.000000	0.000000	0.041667
185-195	0.004167	0.013889	0.026389	0.005556	0.000000	0.000000	0.050000
195-205	0.001389	0.015278	0.025000	0.000000	0.000000	0.000000	0.041667
205-215	0.001389	0.018056	0.044444	0.009722	0.000000	0.000000	0.073611
215-225	0.004167	0.015278	0.041667	0.002778	0.000000	0.000000	0.063889
225-235	0.002778	0.013889	0.031944	0.006944	0.000000	0.000000	0.055556
235-245	0.001389	0.011111	0.016667	0.006944	0.000000	0.000000	0.036111
245-255	0.004167	0.006944	0.029167	0.001389	0.000000	0.000000	0.041667
255-265	0.001389	0.002778	0.013889	0.002778	0.000000	0.000000	0.020833
265-275	0.002778	0.001389	0.001389	0.002778	0.000000	0.000000	0.008333
275-285	0.002778	0.005556	0.008333	0.001389	0.000000	0.000000	0.018056
285-295	0.004167	0.004167	0.000000	0.000000	0.000000	0.000000	0.008333
295-305	0.004167	0.001389	0.001389	0.000000	0.000000	0.000000	0.006944
305-315	0.000000	0.002778	0.001389	0.000000	0.000000	0.000000	0.004167
315-325	0.002778	0.004167	0.001389	0.000000	0.000000	0.000000	0.008333
325-335	0.002778	0.004167	0.006944	0.002778	0.000000	0.000000	0.016667
335-345	0.001389	0.008333	0.008333	0.000000	0.000000	0.000000	0.018056
345-355	0.001389	0.001389	0.009722	0.000000	0.000000	0.000000	0.012500
Total	0.122222	0.395833	0.434722	0.047222	0.000000	0.000000	1.000000

Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.48 m/s

APPENDIX B

Listing of PM_{10} Concentrations

Background Monitor 962A

PM_{10} Sampler Summary

April 1, 2018 - June 30, 2018

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-A **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
04/02/18	P2946888	**12.1**	**15.0**	23:59	24.0	19.4	377.389	377.682	0.293	HT	
04/08/18	P2947088	**6.8**	**8.4**	23:59	24.0	19.5	370.141	370.306	0.165	HT	
04/14/18	P2947093	**4.8**	**5.8**	23:59	24.0	19.8	365.078	365.194	0.116		
04/20/18	P2947098	**6.7**	**8.1**	23:59	24.0	20.0	375.336	375.499	0.163		
04/26/18	P2947323	**7.4**	**9.3**	23:59	24.0	19.2	372.989	373.168	0.179		
05/02/18	P2947329	**5.6**	**6.8**	23:59	24.0	20.0	375.054	375.191	0.137	HT	
05/08/18	P2947557	**7.6**	**9.6**	23:59	24.0	19.0	365.064	365.247	0.183		
05/14/18	P2947563	**6.6**	**8.2**	23:59	24.0	19.4	373.866	374.026	0.160		
05/20/18	P2947769	**6.0**	**7.6**	23:59	24.0	19.2	371.007	371.153	0.146		
05/26/18	P2947774	**9.6**	**12.0**	23:59	24.0	19.1	372.731	372.962	0.231		
06/01/18	P2947779	**7.9**	**9.9**	23:59	24.0	19.1	383.763	383.953	0.190	TD	
06/07/18	P2948031	**9.3**	**11.7**	23:59	24.0	19.0	372.046	372.270	0.224		
06/13/18	P2948037	**8.6**	**11.1**	23:59	24.0	18.8	377.774	377.983	0.209		
06/19/18	P2948230	**7.5**	**9.5**	23:59	24.0	19.0	377.464	377.645	0.181	TD	
06/25/18	P2948236	**13.5**	**17.3**	23:59	24.0	18.8	365.015	365.340	0.325	TD	
04/27/18	P2947328		**Field Blank**				376.142	376.150	0.008		
06/22/18	P2948235		**Field Blank**				370.529	370.535	0.006		

# Valid	Recovery	Average	St. Dev.	Max	Min
15	**100%**	**10.0**	**3.1**	**17.3**	**5.8**

BGI PQ200 Air Sampling System

Downloaded 2018 05 apr 10:30:34

Job Details:

Job Name:	18Apr05A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:236:26
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	580	576	578	mmHg
TA	18.3	-1.7	7.5	°C
Q	---	---	16.71	Lpm

QCV	0.56 %
Max overheat	6.1 °C
occured	04-apr 19:06:14

Timer Information:

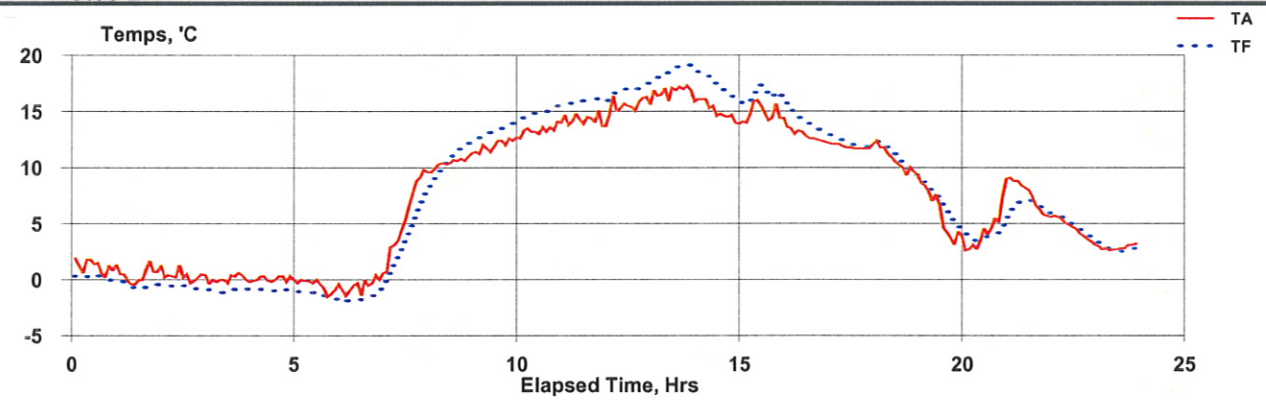
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-apr	0:00:08
Stop:	18-03-apr	0:00:04
ET:	23:59	

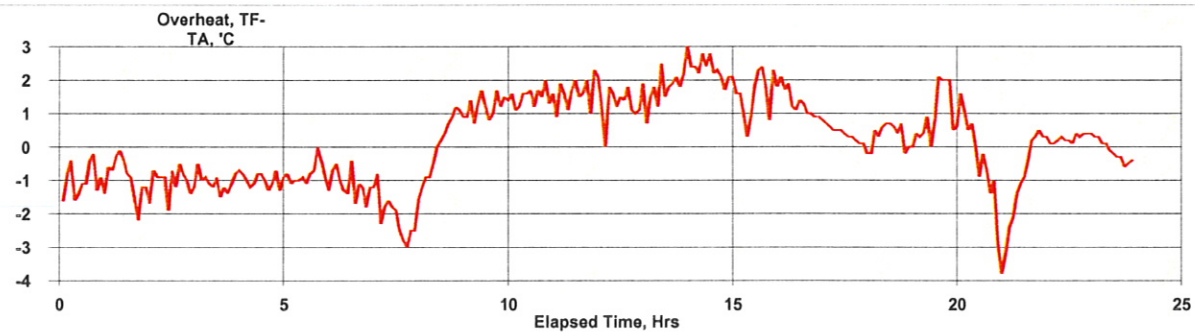
Mass Concentration Data:

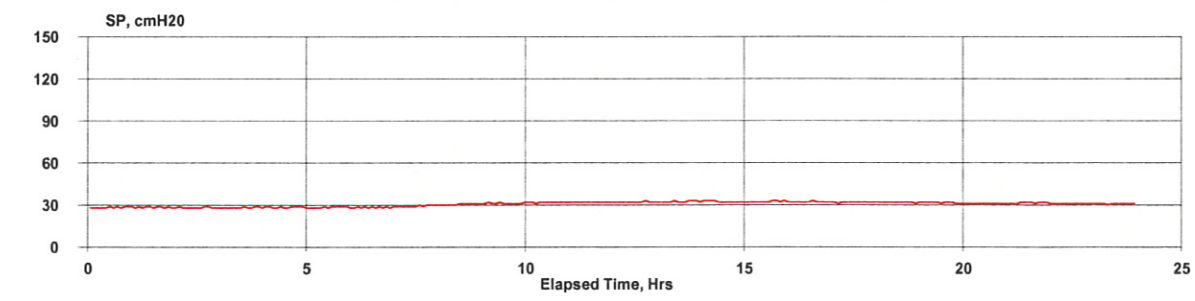
Filter ID:	15	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







18-02-apr	0:05:08	580	1.2	0.2	-1.0	28	16.72
18-02-apr	1:05:08	580	0.5	-0.5	-1.0	29	16.73
18-02-apr	2:05:08	579	0.3	-0.7	-1.0	28	16.72
18-02-apr	3:05:08	579	0.1	-1.0	-1.0	28	16.72
18-02-apr	4:05:08	579	0.1	-0.9	-1.0	29	16.72
18-02-apr	5:05:08	579	-0.5	-1.3	-0.8	29	16.72
18-02-apr	6:05:08	579	-0.4	-1.6	-1.1	29	16.71
18-02-apr	7:05:08	579	6.0	3.9	-2.1	29	16.71
18-02-apr	8:05:08	579	10.5	10.7	0.2	31	16.70
18-02-apr	9:05:08	579	12.0	13.2	1.2	31	16.71
18-02-apr	10:05:08	579	13.4	14.9	1.5	32	16.71
18-02-apr	11:05:08	578	14.3	15.9	1.6	32	16.71
18-02-apr	12:05:08	578	15.6	16.9	1.3	32	16.70
18-02-apr	13:05:08	577	16.8	18.6	1.8	32	16.71
18-02-apr	14:05:08	577	15.0	17.3	2.3	32	16.72
18-02-apr	15:05:08	577	14.8	16.4	1.6	32	16.71
18-02-apr	16:05:08	577	12.8	14.1	1.3	32	16.71
18-02-apr	17:05:08	577	11.9	12.2	0.3	32	16.71
18-02-apr	18:05:08	577	10.6	10.9	0.3	32	16.71
18-02-apr	19:05:08	577	5.8	6.8	1.0	32	16.72
18-02-apr	20:05:08	578	4.6	4.0	-0.6	31	16.71
18-02-apr	21:05:08	578	7.4	6.6	-0.8	32	16.72
18-02-apr	22:05:08	579	4.5	4.8	0.3	31	16.70
18-02-apr	23:05:08	579	2.9	2.7	-0.1	31	16.72

BGI PQ200 Air Sampling System Downloaded 2018 10 apr 10:45:09

Job Details:

Job Name:	18Apr10A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:260:25
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	584	578	581	mmHg
TA	15.4	-0.5	7.3	°C
Q	---	---	16.71	Lpm

QCV	0.55 %
Max overheat	5.7 °C
occured	09-apr 19:24:11

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-08-apr	0:00:08
Stop:	18-09-apr	0:00:05

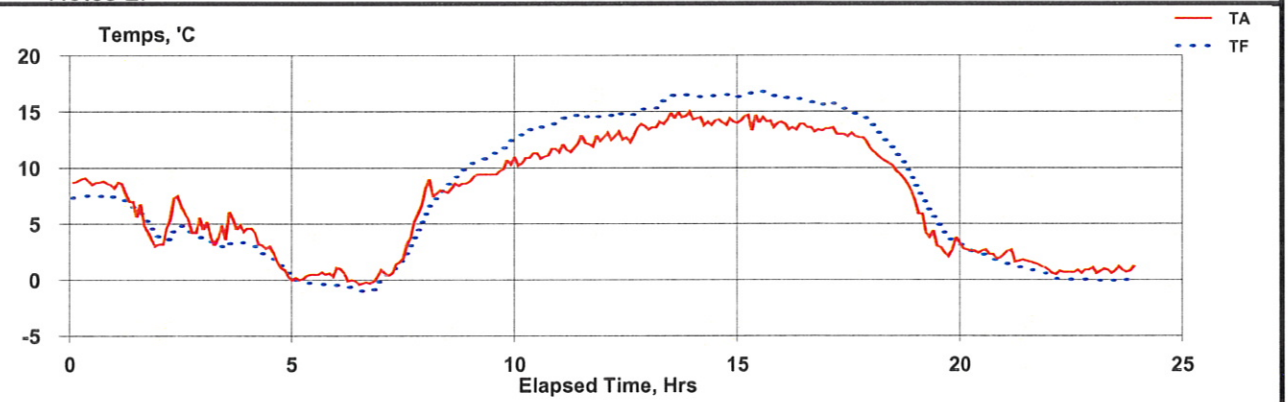
ET: 23:59

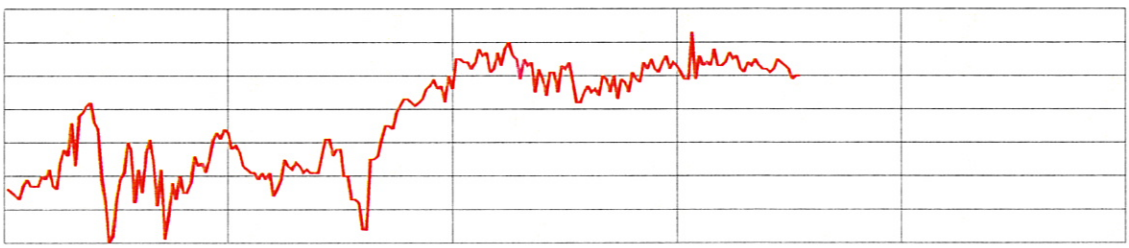
Mass Concentration Data:

Filter ID:	26	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:





18-08-apr	0:05:08	579	8.7	7.4	-1.3	31	16.72
18-08-apr	1:05:08	579	5.9	5.9	0.0	32	16.71
18-08-apr	2:05:08	579	5.4	4.1	-1.2	31	16.71
18-08-apr	3:05:08	579	4.5	3.2	-1.3	31	16.71
18-08-apr	4:05:08	579	2.3	1.9	-0.4	31	16.71
18-08-apr	5:05:08	580	0.5	-0.3	-0.8	31	16.74
18-08-apr	6:05:08	580	0.1	-0.7	-0.8	31	16.71
18-08-apr	7:05:08	581	3.3	2.4	-0.9	32	16.71
18-08-apr	8:05:08	581	8.3	8.4	0.2	33	16.72
18-08-apr	9:05:08	581	9.8	11.3	1.5	34	16.71
18-08-apr	10:05:08	582	11.1	13.5	2.5	35	16.72
18-08-apr	11:05:08	582	12.2	14.5	2.3	35	16.72
18-08-apr	12:05:08	582	13.1	14.8	1.8	35	16.72
18-08-apr	13:05:08	582	14.4	16.1	1.7	35	16.72
18-08-apr	14:05:08	582	14.1	16.4	2.3	35	16.71
18-08-apr	15:05:08	582	14.2	16.5	2.3	35	16.72
18-08-apr	16:05:08	582	13.6	15.9	2.4	35	16.71
18-08-apr	17:05:08	582	12.9	15.0	2.2	35	16.71
18-08-apr	18:05:08	583	9.7	11.4	1.7	34	16.72
18-08-apr	19:05:08	583	3.7	5.2	1.5	34	16.70
18-08-apr	20:05:08	583	2.4	2.2	-0.3	33	16.71
18-08-apr	21:05:08	584	1.7	1.0	-0.7	33	16.72
18-08-apr	22:05:08	584	0.8	0.0	-0.7	33	16.71
18-08-apr	23:05:08	584	0.9	-0.1	-0.9	33	16.71

BGI PQ200 Air Sampling System Downloaded 2018 16 apr 14:00:33

Job Details:

Job Name:	18Apr16A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:284:24
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	589	585	586	mmHg
TA	16.3	-4.8	5.3	°C
Q	---	---	16.71	Lpm

QCV	0.58 %
Max overheat	4.4 °C
occured	14-apr 15:58:57

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-14-apr	0:00:08
Stop:	18-15-apr	0:00:04

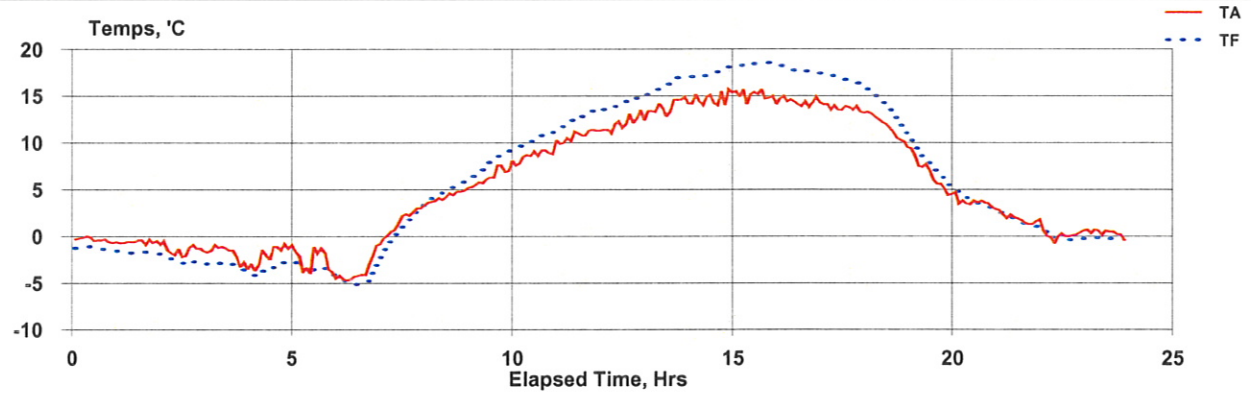
ET: 23:59

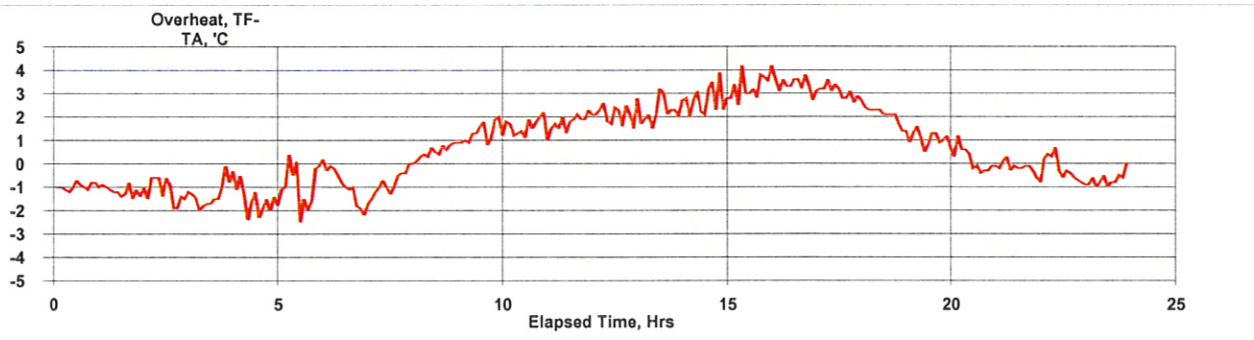
Mass Concentration Data:

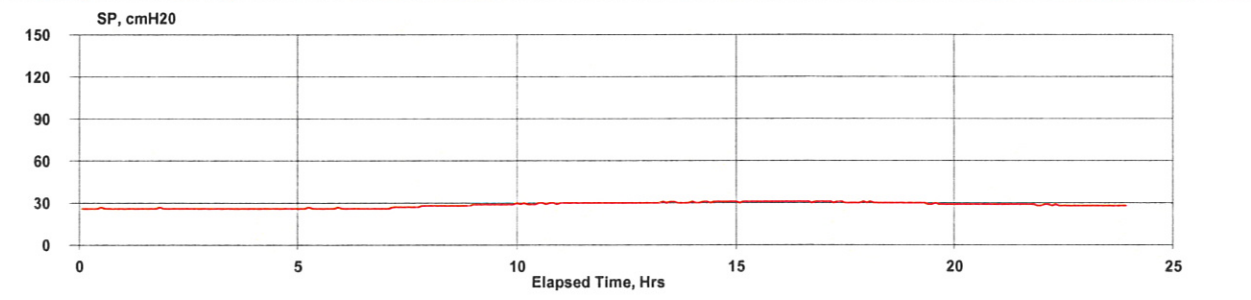
Filter ID:	33	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







18-14-apr	0:05:08	587	-0.4	-1.3	-1.0	26	16.71
18-14-apr	1:05:08	587	-0.6	-1.8	-1.2	26	16.73
18-14-apr	2:05:08	588	-1.5	-2.7	-1.2	26	16.71
18-14-apr	3:05:08	587	-1.9	-3.1	-1.3	26	16.71
18-14-apr	4:05:08	588	-1.9	-3.4	-1.6	26	16.71
18-14-apr	5:05:08	588	-2.7	-3.5	-0.8	26	16.73
18-14-apr	6:05:08	588	-3.5	-4.5	-1.1	26	16.72
18-14-apr	7:05:08	588	1.8	1.0	-0.8	27	16.71
18-14-apr	8:05:08	588	4.3	4.9	0.6	28	16.70
18-14-apr	9:05:08	588	6.5	7.8	1.3	29	16.74
18-14-apr	10:05:08	588	8.8	10.4	1.6	30	16.71
18-14-apr	11:05:08	588	10.8	12.6	1.8	30	16.70
18-14-apr	12:05:08	588	12.1	14.3	2.1	30	16.71
18-14-apr	13:05:08	587	13.9	16.2	2.2	30	16.72
18-14-apr	14:05:08	587	14.7	17.5	2.7	31	16.71
18-14-apr	15:05:08	586	15.0	18.4	3.3	31	16.72
18-14-apr	16:05:08	586	14.4	17.8	3.4	31	16.70
18-14-apr	17:05:08	586	13.7	16.7	3.1	30	16.72
18-14-apr	18:05:08	586	11.6	13.6	2.0	30	16.71
18-14-apr	19:05:08	586	6.6	7.6	1.1	29	16.71
18-14-apr	20:05:08	586	3.6	3.7	0.1	29	16.71
18-14-apr	21:05:08	586	1.9	1.7	-0.2	29	16.71
18-14-apr	22:05:08	586	0.1	-0.1	-0.3	28	16.71
18-14-apr	23:05:08	586	0.4	-0.3	-0.7	28	16.71

BGI PQ200 Air Sampling System

Downloaded 2018 23 apr 08:40:43

Job Details:

Job Name:	18Apr23A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:308:23
Flags:	

Job Code:	
Site Name:	962A
Station Code:	
Operators:	KN
User1:	
User2:	

	Max	Min	Avg	Units
BP	585	575	580	mmHg
TA	9.2	-6.8	1	°C
Q	---	---	16.71	Lpm

QCV	0.51 %
Max overheat	6.5 °C
occured	22-apr 19:14:29

Timer Information:

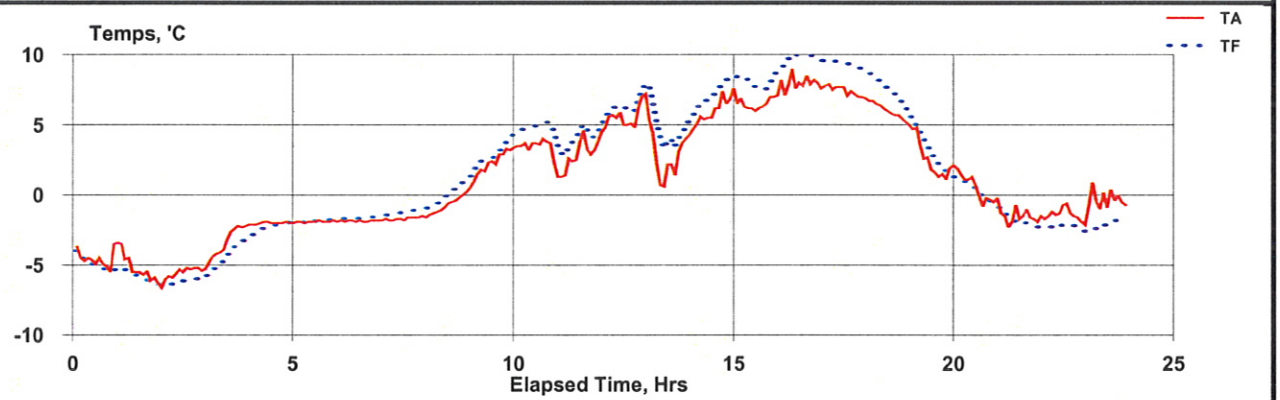
	Date dd-mmm	Time hh:mm:ss
Start:	18-20-apr	0:00:08
Stop:	18-21-apr	0:00:05
ET:	23:59	

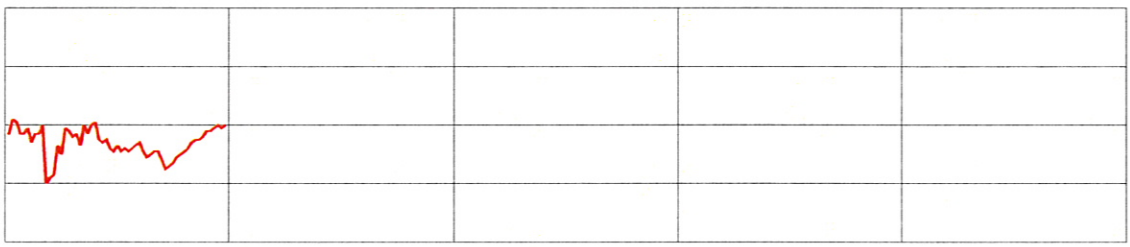
Mass Concentration Data:

Filter ID:	38	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:





18-20-apr	0:05:08	577	-4.5	-5.0	-0.5	26	16.72
18-20-apr	1:05:08	577	-5.4	-5.9	-0.4	26	16.72
18-20-apr	2:05:08	577	-5.5	-6.2	-0.7	26	16.71
18-20-apr	3:05:08	577	-3.2	-4.3	-1.1	27	16.72
18-20-apr	4:05:08	577	-2.0	-2.3	-0.3	27	16.72
18-20-apr	5:05:08	577	-1.9	-1.9	0.0	27	16.72
18-20-apr	6:05:08	577	-1.8	-1.7	0.2	28	16.73
18-20-apr	7:05:08	577	-1.7	-1.3	0.4	28	16.72
18-20-apr	8:05:08	578	-0.6	0.1	0.7	28	16.72
18-20-apr	9:05:08	578	2.4	2.9	0.5	28	16.71
18-20-apr	10:05:08	579	3.3	4.7	1.4	29	16.72
18-20-apr	11:05:08	580	3.0	4.0	1.0	29	16.71
18-20-apr	12:05:08	580	5.7	6.4	0.7	29	16.71
18-20-apr	13:05:08	582	2.9	4.7	1.9	29	16.72
18-20-apr	14:05:08	582	6.0	7.2	1.1	29	16.71
18-20-apr	15:05:08	582	6.5	8.1	1.5	30	16.72
18-20-apr	16:05:08	583	8.0	9.7	1.7	30	16.72
18-20-apr	17:05:08	583	7.4	9.3	1.9	30	16.70
18-20-apr	18:05:08	584	5.9	7.4	1.5	29	16.72
18-20-apr	19:05:08	584	2.5	3.1	0.6	29	16.72
18-20-apr	20:05:08	584	0.5	0.3	-0.2	28	16.71
18-20-apr	21:05:08	584	-1.6	-1.9	-0.3	28	16.72
18-20-apr	22:05:08	584	-1.4	-2.3	-0.9	28	16.71
18-20-apr	23:05:08	584	-0.3	-2.2	-1.9	28	16.74

BGI PQ200 Air Sampling System

Downloaded 2018 27 apr 08:53:54

Job Details:

Job Name: 18Apr27A.JOB
Version: 5.62
Serial No: 962
Pump Time: :332:22
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	586	584	585	mmHg
TA	24	4.9	14.3	°C
Q	---	---	16.71	Lpm

QCV 0.44 %

Max overheat 4.7 °C
occured 26-apr 16:21:12

Timer Information:

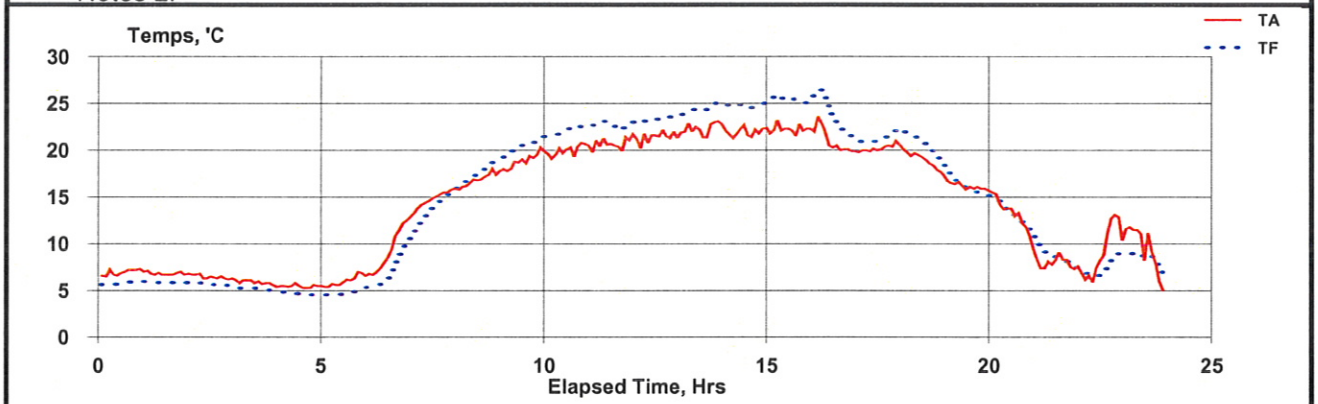
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-apr	0:00:08
Stop:	18-27-apr	0:00:05

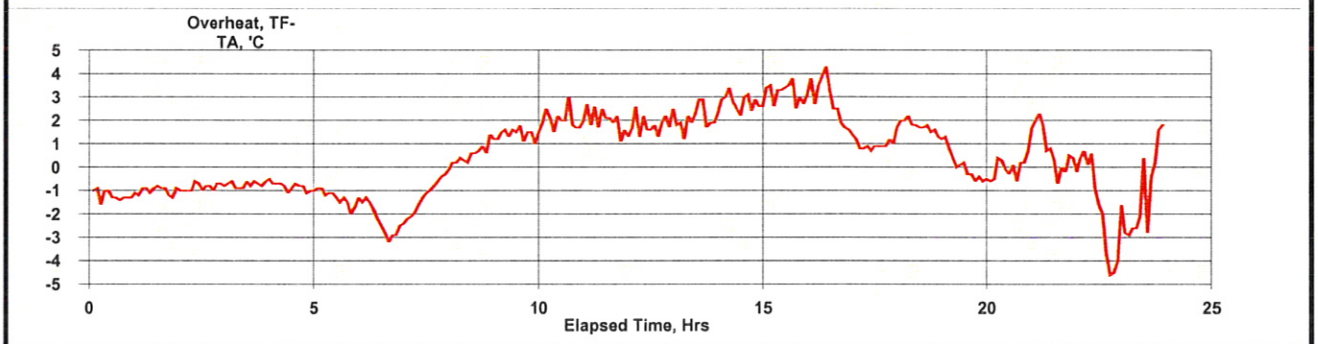
ET: 23:59

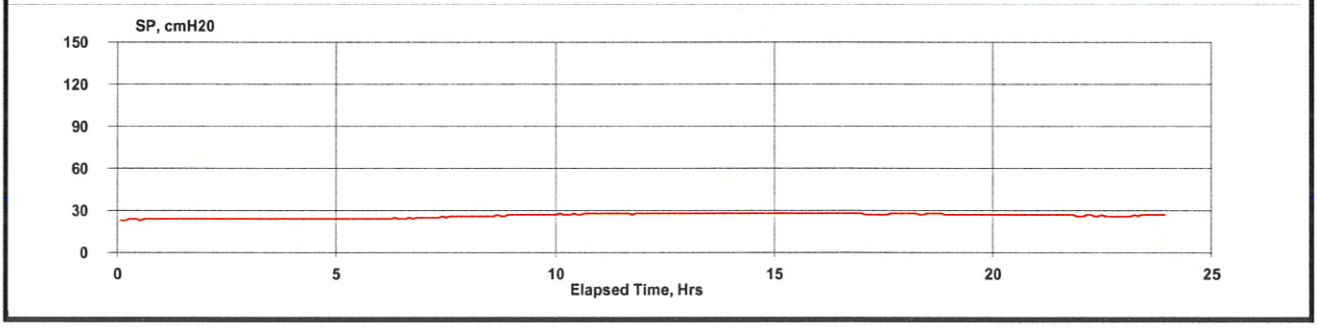
Mass Concentration Data:

Filter ID:	4	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-26-apr	0:05:08	585	7.0	5.7	-1.2	24	16.71
18-26-apr	1:05:08	585	6.8	5.8	-1.0	24	16.72
18-26-apr	2:05:08	585	6.4	5.6	-0.8	24	16.71
18-26-apr	3:05:08	585	5.9	5.1	-0.7	24	16.72
18-26-apr	4:05:08	585	5.5	4.6	-0.9	24	16.71
18-26-apr	5:05:08	585	6.1	4.7	-1.3	24	16.72
18-26-apr	6:05:08	585	9.5	7.2	-2.3	24	16.71
18-26-apr	7:05:08	586	14.9	13.7	-1.1	26	16.70
18-26-apr	8:05:08	586	16.9	17.5	0.6	26	16.73
18-26-apr	9:05:08	586	18.9	20.4	1.4	27	16.72
18-26-apr	10:05:08	586	20.0	22.1	2.0	28	16.73
18-26-apr	11:05:08	586	20.7	22.7	2.0	28	16.72
18-26-apr	12:05:08	586	21.4	23.3	1.9	28	16.71
18-26-apr	13:05:08	585	22.3	24.4	2.1	28	16.71
18-26-apr	14:05:08	585	22.0	24.8	2.8	28	16.70
18-26-apr	15:05:08	584	22.2	25.4	3.2	28	16.75
18-26-apr	16:05:08	584	21.0	23.7	2.8	28	16.71
18-26-apr	17:05:08	584	20.2	21.2	1.0	27	16.71
18-26-apr	18:05:08	584	18.9	20.6	1.7	28	16.71
18-26-apr	19:05:08	584	16.2	16.2	0.0	27	16.71
18-26-apr	20:05:08	585	13.1	13.2	0.1	27	16.73
18-26-apr	21:05:08	585	8.0	8.6	0.6	27	16.70
18-26-apr	22:05:08	585	9.2	7.4	-1.8	26	16.71
18-26-apr	23:05:08	585	9.6	8.4	-1.1	27	16.75

BGI PQ200 Air Sampling System Downloaded 2018 04 may 12:50:33

Job Details:

Job Name:	18May04A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:356:21
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	583	577	579	mmHg
TA	3.1	-1.9	0.3	°C
Q	---	---	16.71	Lpm

QCV	0.55 %
Max overheat	3.9 °C
occured	03-may 16:12:59

Timer Information:

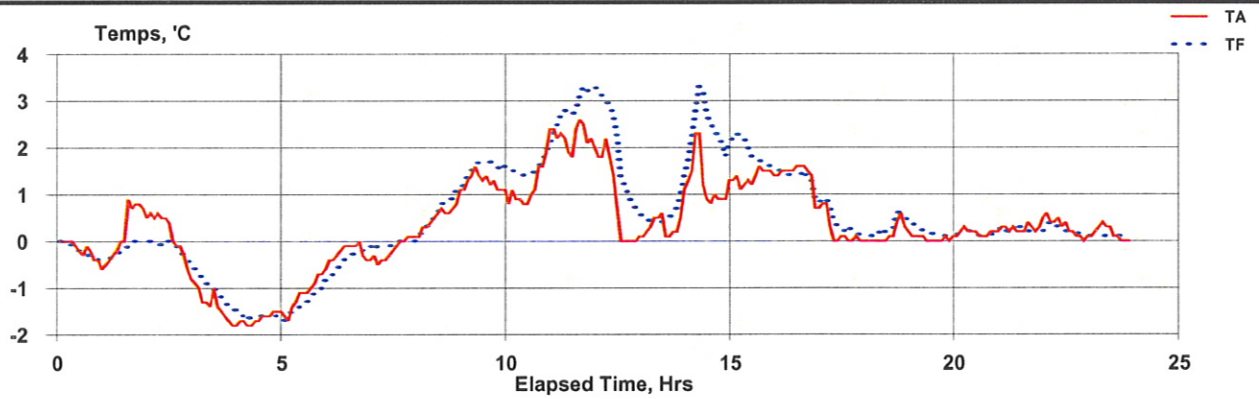
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-may	0:00:08
Stop:	18-03-may	0:00:05
ET:	23:59	

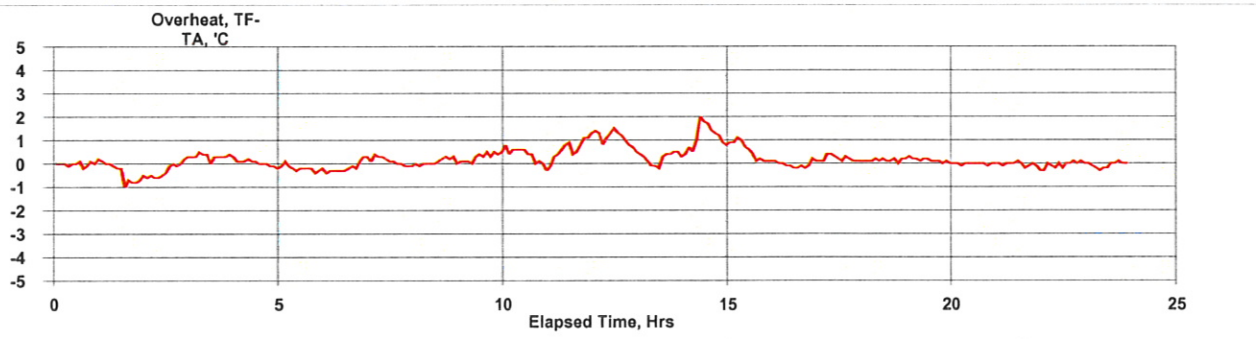
Mass Concentration Data:

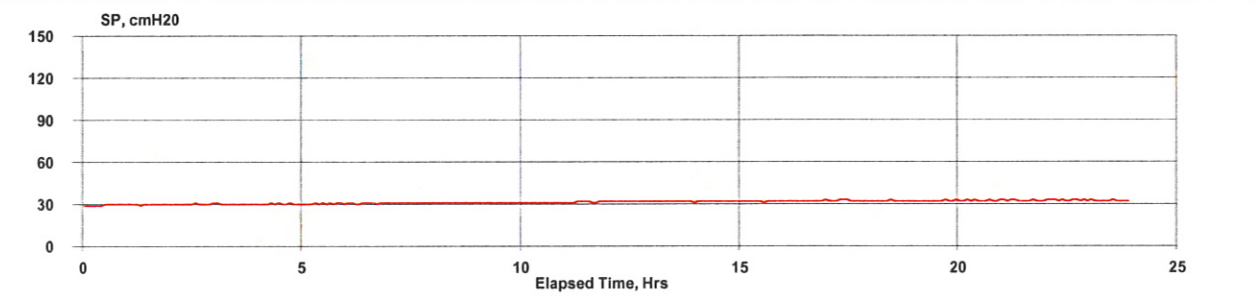
Filter ID:	10	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.045	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







18-02-may	0:05:08	578	-0.2	-0.2	0.0	30	16.73
18-02-may	1:05:08	578	0.3	-0.2	-0.4	30	16.71
18-02-may	2:05:08	578	0.1	-0.1	-0.2	30	16.71
18-02-may	3:05:08	578	-1.4	-1.1	0.3	30	16.71
18-02-may	4:05:08	578	-1.6	-1.6	0.0	30	16.72
18-02-may	5:05:08	578	-1.1	-1.3	-0.2	30	16.71
18-02-may	6:05:08	579	-0.2	-0.4	-0.1	31	16.72
18-02-may	7:05:08	579	-0.2	-0.1	0.1	31	16.72
18-02-may	8:05:08	579	0.6	0.6	0.1	31	16.71
18-02-may	9:05:08	579	1.3	1.6	0.3	31	16.71
18-02-may	10:05:08	579	1.2	1.6	0.4	31	16.71
18-02-may	11:05:08	579	2.2	2.9	0.7	32	16.71
18-02-may	12:05:08	580	0.8	1.9	1.1	32	16.72
18-02-may	13:05:08	580	0.4	0.6	0.2	32	16.71
18-02-may	14:05:08	580	1.3	2.4	1.1	32	16.71
18-02-may	15:05:08	580	1.4	1.9	0.5	32	16.69
18-02-may	16:05:08	580	1.4	1.3	-0.1	32	16.74
18-02-may	17:05:08	580	0.2	0.4	0.2	32	16.71
18-02-may	18:05:08	581	0.1	0.3	0.1	32	16.72
18-02-may	19:05:08	582	0.1	0.2	0.1	32	16.72
18-02-may	20:05:08	582	0.2	0.2	0.0	32	16.71
18-02-may	21:05:08	582	0.3	0.2	-0.1	32	16.71
18-02-may	22:05:08	582	0.3	0.2	-0.1	33	16.71
18-02-may	23:05:08	582	0.2	0.1	-0.1	32	16.72

BGI PQ200 Air Sampling System Downloaded 2018 09 may 09:28:20

Job Details:

Job Name:	18May09A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:380:20
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	588	585	586	mmHg
TA	28	7.3	17.4	°C
Q	---	---	16.71	Lpm

QCV	0.58 %
Max overheat	4 °C
occured	08-may 19:19:01

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-08-may	0:00:08
Stop:	18-09-may	0:00:05

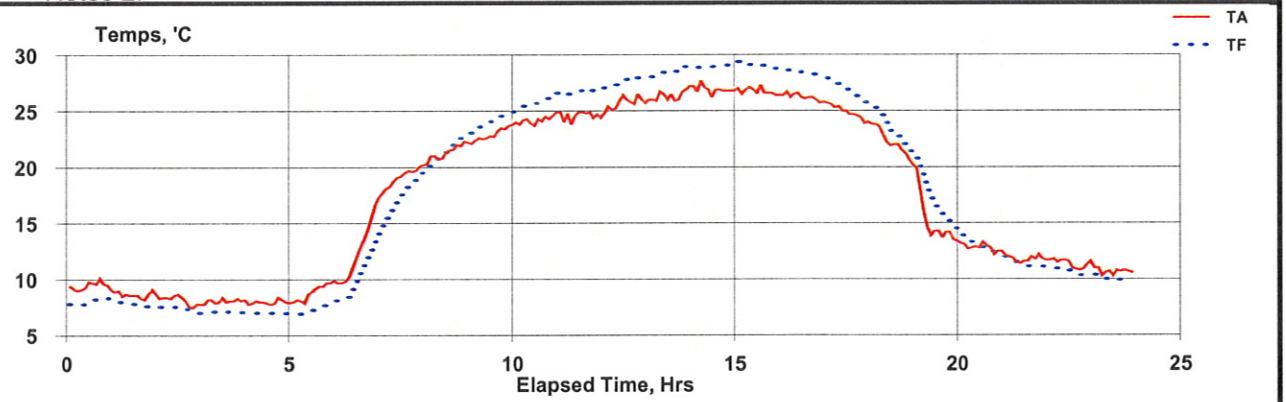
ET: 23:59

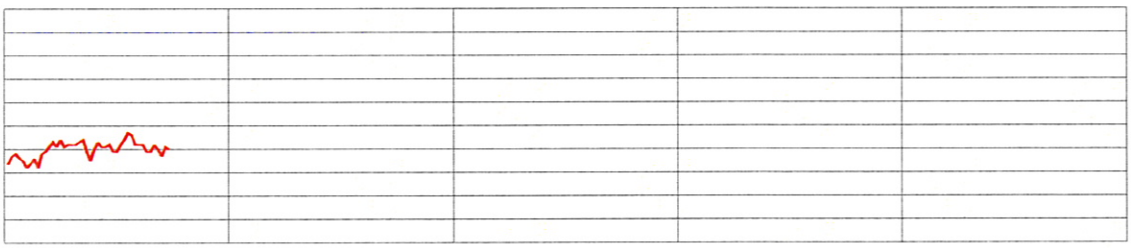
Mass Concentration Data:

Filter ID:	22	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.044	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:





18-08-may	0:05:08	587	9.4	8.0	-1.4	28	16.72
18-08-may	1:05:08	587	8.7	7.8	-0.9	29	16.72
18-08-may	2:05:08	586	8.2	7.4	-0.8	29	16.71
18-08-may	3:05:08	586	8.1	7.1	-1.0	29	16.72
18-08-may	4:05:08	586	8.0	7.0	-1.0	29	16.72
18-08-may	5:05:08	587	8.9	7.3	-1.6	29	16.71
18-08-may	6:05:08	587	12.7	10.3	-2.4	30	16.71
18-08-may	7:05:08	587	19.2	17.3	-1.9	31	16.72
18-08-may	8:05:08	587	21.4	21.4	0.0	32	16.72
18-08-may	9:05:08	587	22.9	24.0	1.1	33	16.72
18-08-may	10:05:08	587	24.2	25.7	1.5	34	16.71
18-08-may	11:05:08	587	24.6	26.7	2.1	34	16.71
18-08-may	12:05:08	587	25.7	27.5	1.8	34	16.71
18-08-may	13:05:08	586	26.4	28.4	2.1	35	16.72
18-08-may	14:05:08	586	26.9	28.9	2.0	35	16.71
18-08-may	15:05:08	586	26.7	29.0	2.3	35	16.71
18-08-may	16:05:08	585	26.2	28.4	2.2	35	16.72
18-08-may	17:05:08	585	24.9	26.9	2.0	34	16.71
18-08-may	18:05:08	586	22.1	23.4	1.3	34	16.71
18-08-may	19:05:08	586	15.0	17.1	2.1	34	16.71
18-08-may	20:05:08	586	12.8	13.0	0.1	33	16.71
18-08-may	21:05:08	586	11.8	11.3	-0.5	33	16.71
18-08-may	22:05:08	586	11.4	10.6	-0.7	33	16.71
18-08-may	23:05:08	586	10.7	10.0	-0.7	33	16.70

BGI PQ200 Air Sampling System Downloaded 2018 15 may 10:45:48

Job Details:

Job Name: 18May15A.JOB
Version: 5.62
Serial No: 962
Pump Time: :404:19
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	584	581	582	mmHg
TA	19.1	0.8	10	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 4 °C
occured 14-may 15:12:20

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-14-may	0:00:08
Stop:	18-15-may	0:00:04

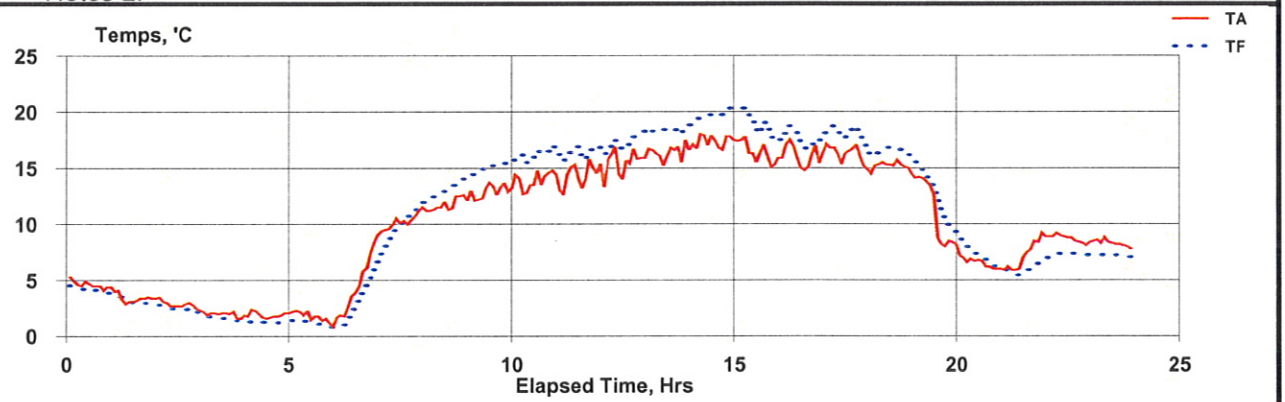
ET: 23:59

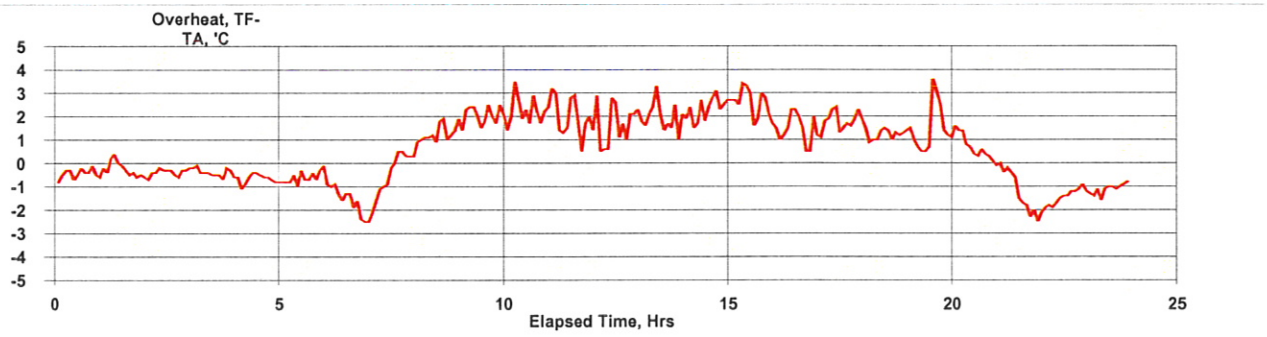
Mass Concentration Data:

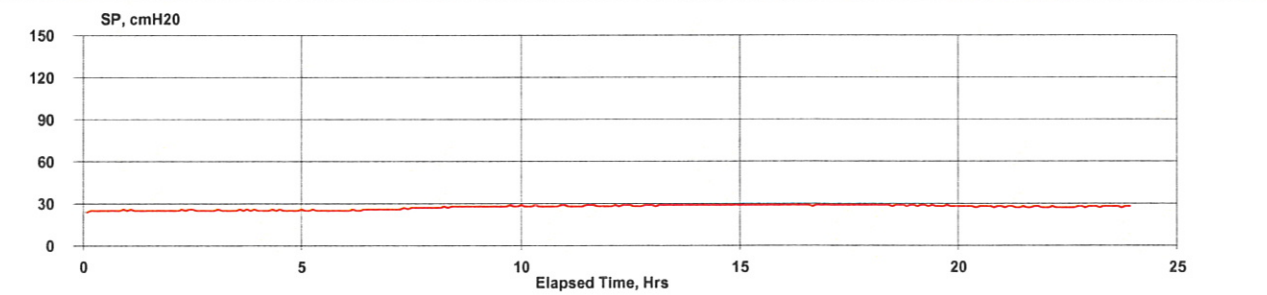
Filter ID: 28
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.035 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-14-may	0:05:08	582	4.6	4.2	-0.4	25	16.71
18-14-may	1:05:08	582	3.4	3.2	-0.3	25	16.70
18-14-may	2:05:08	582	2.8	2.5	-0.4	25	16.70
18-14-may	3:05:08	582	2.0	1.6	-0.4	25	16.72
18-14-may	4:05:08	582	1.9	1.3	-0.7	25	16.72
18-14-may	5:05:08	582	1.8	1.2	-0.6	25	16.70
18-14-may	6:05:08	582	4.7	3.1	-1.6	26	16.71
18-14-may	7:05:08	583	10.3	9.9	-0.4	27	16.73
18-14-may	8:05:08	583	11.8	13.0	1.3	28	16.70
18-14-may	9:05:08	583	13.0	15.0	2.1	28	16.71
18-14-may	10:05:08	583	14.0	16.2	2.2	28	16.72
18-14-may	11:05:08	584	14.4	16.3	2.0	28	16.71
18-14-may	12:05:08	583	15.5	17.2	1.7	29	16.71
18-14-may	13:05:08	583	16.4	18.4	2.0	29	16.71
18-14-may	14:05:08	583	17.4	19.7	2.3	29	16.71
18-14-may	15:05:08	582	16.4	18.9	2.6	29	16.71
18-14-may	16:05:08	582	16.1	17.6	1.5	29	16.71
18-14-may	17:05:08	582	16.2	18.1	1.8	29	16.72
18-14-may	18:05:08	582	15.2	16.4	1.2	29	16.72
18-14-may	19:05:08	582	11.0	12.5	1.5	28	16.71
18-14-may	20:05:08	583	6.5	7.2	0.7	28	16.71
18-14-may	21:05:08	583	7.3	6.0	-1.3	27	16.71
18-14-may	22:05:08	583	8.7	7.3	-1.4	27	16.71
18-14-may	23:05:08	583	8.3	7.2	-1.1	28	16.72

BGI PQ200 Air Sampling System Downloaded 2018 22 may 12:07:46

Job Details:

Job Name: 18May22A.JOB
Version: 5.62
Serial No: 962
Pump Time: :428:18
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	584	581	582	mmHg
TA	22.2	2.4	12.9	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 3.7 °C
occured 20-may 11:44:40

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-20-may	0:00:08
Stop:	18-21-may	0:00:04

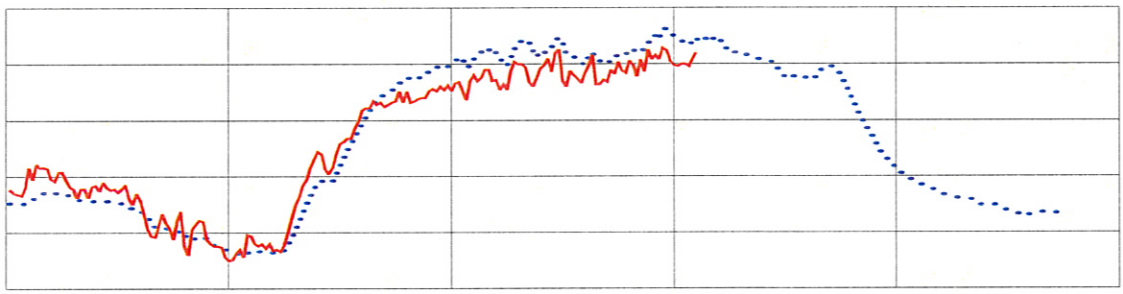
ET: 23:59

Mass Concentration Data:

Filter ID: 17
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:



Overheat, TF-

18-20-may	0:05:08	583	9.7	8.0	-1.7	29	16.72
18-20-may	1:05:08	582	9.2	8.1	-1.1	29	16.71
18-20-may	2:05:08	582	8.6	7.5	-1.1	30	16.72
18-20-may	3:05:08	582	5.5	5.5	0.0	29	16.70
18-20-may	4:05:08	582	4.3	4.1	-0.1	29	16.72
18-20-may	5:05:08	582	3.7	3.2	-0.5	29	16.72
18-20-may	6:05:08	583	7.6	5.8	-1.8	30	16.72
18-20-may	7:05:08	583	12.8	11.5	-1.4	31	16.71
18-20-may	8:05:08	583	16.6	17.2	0.6	32	16.70
18-20-may	9:05:08	583	17.4	19.3	1.9	32	16.72
18-20-may	10:05:08	583	18.5	20.6	2.1	33	16.73
18-20-may	11:05:08	583	19.0	21.1	2.1	33	16.70
18-20-may	12:05:08	582	19.4	21.0	1.6	33	16.71
18-20-may	13:05:08	582	19.3	20.6	1.3	33	16.70
18-20-may	14:05:08	582	20.3	22.1	1.7	33	16.71
18-20-may	15:05:08	582	20.2	22.1	1.9	33	16.71
18-20-may	16:05:08	581	18.7	20.9	2.2	33	16.71
18-20-may	17:05:08	581	17.7	19.2	1.5	33	16.70
18-20-may	18:05:08	581	17.5	18.9	1.4	33	16.71
18-20-may	19:05:08	581	11.4	13.2	1.8	32	16.71
18-20-may	20:05:08	581	9.0	9.3	0.3	32	16.71
18-20-may	21:05:08	582	8.2	7.9	-0.3	32	16.71
18-20-may	22:05:08	582	7.2	6.9	-0.3	31	16.71
18-20-may	23:05:08	582	7.3	6.6	-0.6	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 29 may 10:15:20

Job Details:

Job Name:	18May29A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:452:17
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	583	578	581	mmHg
TA	21.1	2.5	13.2	°C
Q	---	---	16.71	Lpm

QCV	0.54 %
Max overheat	4.7 °C
occured	27-may 15:07:07

Timer Information:

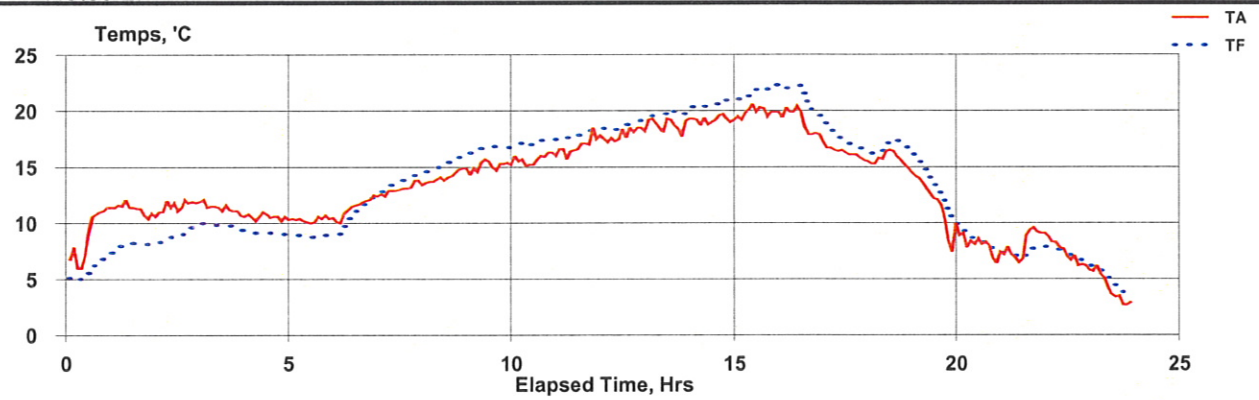
	dd-mmm	Time hh:mm:ss
Start:	18-26-may	0:00:08
Stop:	18-27-may	0:00:05
ET:	23:59	

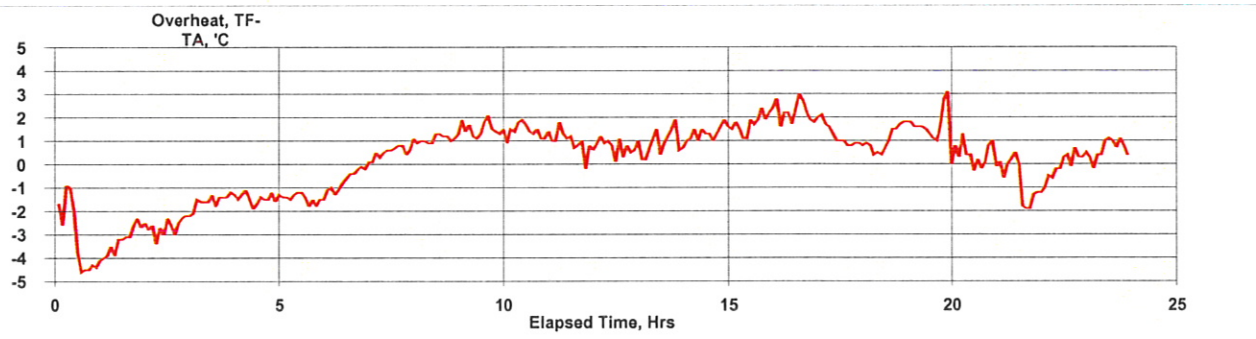
Mass Concentration Data:

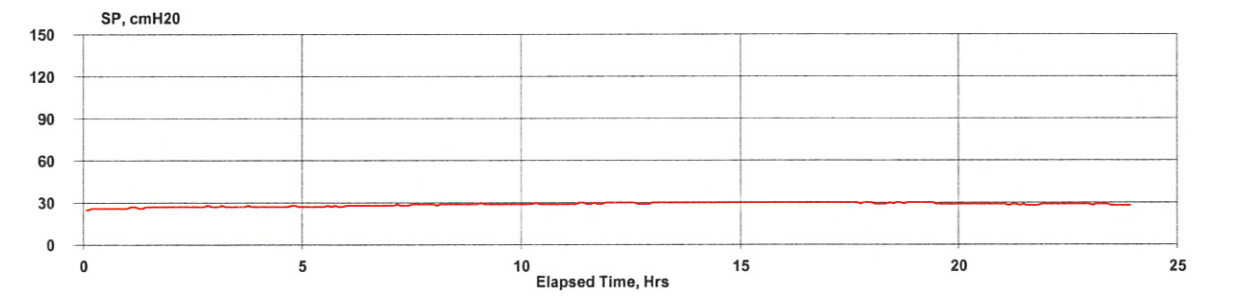
Filter ID:	33	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







18-26-may	0:05:08	583	9.1	5.9	-3.2	26	16.70
18-26-may	1:05:08	583	11.2	8.0	-3.2	27	16.72
18-26-may	2:05:08	582	11.6	9.0	-2.6	27	16.70
18-26-may	3:05:08	582	11.3	9.8	-1.5	27	16.71
18-26-may	4:05:08	582	10.6	9.1	-1.5	27	16.72
18-26-may	5:05:08	582	10.3	8.9	-1.5	27	16.72
18-26-may	6:05:08	582	11.5	10.9	-0.6	28	16.72
18-26-may	7:05:08	582	13.1	13.7	0.6	29	16.71
18-26-may	8:05:08	582	14.2	15.3	1.1	29	16.71
18-26-may	9:05:08	582	15.1	16.6	1.5	29	16.71
18-26-may	10:05:08	582	15.7	17.2	1.4	29	16.72
18-26-may	11:05:08	581	17.0	17.9	0.9	29	16.71
18-26-may	12:05:08	581	17.9	18.7	0.8	30	16.71
18-26-may	13:05:08	580	18.8	19.7	0.9	30	16.71
18-26-may	14:05:08	580	19.2	20.5	1.3	30	16.71
18-26-may	15:05:08	579	19.9	21.7	1.8	30	16.71
18-26-may	16:05:08	579	18.9	21.1	2.2	30	16.70
18-26-may	17:05:08	580	16.2	17.4	1.2	30	16.68
18-26-may	18:05:08	580	15.6	16.7	1.1	30	16.69
18-26-may	19:05:08	580	11.6	13.2	1.6	29	16.71
18-26-may	20:05:08	580	8.0	8.4	0.4	29	16.72
18-26-may	21:05:08	581	8.1	7.4	-0.8	29	16.70
18-26-may	22:05:08	581	7.2	7.2	0.0	29	16.72
18-26-may	23:05:08	581	4.1	4.8	0.6	28	16.71

BGI PQ200 Air Sampling System Downloaded 2018 04 jun 15:02:48

Job Details:

Job Name: 18Jun04A.JOB
Version: 5.62
Serial No: 962
Pump Time: :476:16
Flags: F

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	587	580	584	mmHg
TA	25.3	2.8	14.6	°C
Q	---	---	16.71	Lpm

QCV 0.57 %
Max overheat 7.6 °C
occured 03-jun 19:46:57

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-01-jun	0:00:08
Stop:	18-02-jun	0:00:04

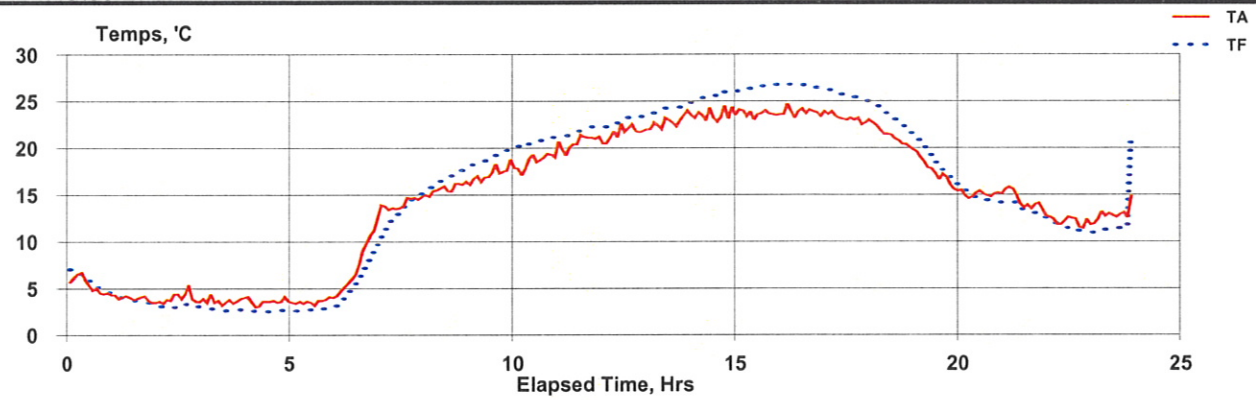
ET: 23:59

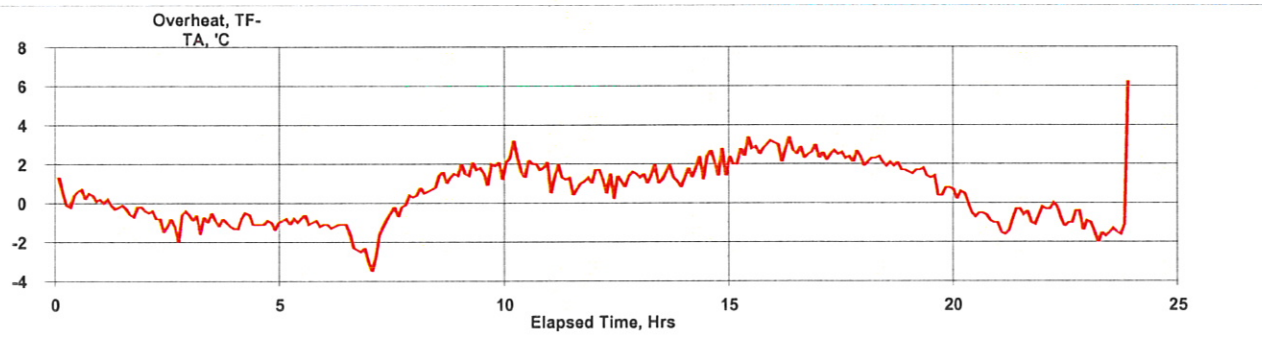
Mass Concentration Data:

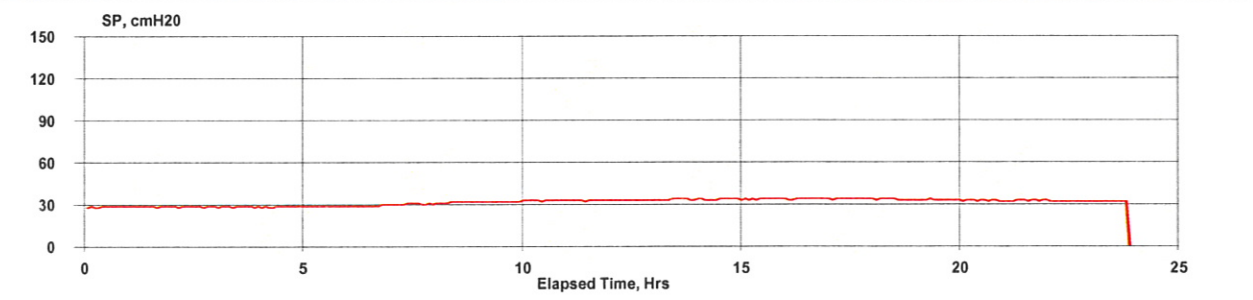
Filter ID: 38
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-01-jun	0:05:08	582	5.3	5.7	0.4	29	16.71
18-01-jun	1:05:08	582	3.9	3.7	-0.2	29	16.72
18-01-jun	2:05:08	582	4.0	3.1	-0.9	29	16.70
18-01-jun	3:05:08	582	3.7	2.7	-1.0	29	16.72
18-01-jun	4:05:08	583	3.6	2.6	-1.0	29	16.71
18-01-jun	5:05:08	583	3.6	2.7	-0.9	29	16.71
18-01-jun	6:05:08	583	7.7	6.0	-1.8	29	16.73
18-01-jun	7:05:08	584	14.1	13.2	-0.9	30	16.72
18-01-jun	8:05:08	585	15.7	16.7	1.0	32	16.74
18-01-jun	9:05:08	585	17.2	18.9	1.7	32	16.73
18-01-jun	10:05:08	585	18.6	20.6	2.1	33	16.72
18-01-jun	11:05:08	585	20.6	21.7	1.1	33	16.71
18-01-jun	12:05:08	585	21.6	22.8	1.2	33	16.71
18-01-jun	13:05:08	585	22.7	24.1	1.4	33	16.71
18-01-jun	14:05:08	585	23.5	25.4	1.9	34	16.71
18-01-jun	15:05:08	585	23.7	26.4	2.7	34	16.71
18-01-jun	16:05:08	585	23.8	26.6	2.7	34	16.72
18-01-jun	17:05:08	585	23.2	25.7	2.4	34	16.71
18-01-jun	18:05:08	586	21.4	23.5	2.0	34	16.71
18-01-jun	19:05:08	586	17.7	18.9	1.2	33	16.72
18-01-jun	20:05:08	586	15.1	14.9	-0.2	33	16.72
18-01-jun	21:05:08	587	14.5	13.6	-0.9	33	16.71
18-01-jun	22:05:08	587	12.2	11.6	-0.6	32	16.72
18-01-jun	23:05:08	587	12.6	11.2	-1.4	32	16.71
18-03-jun	20:04:08	586	14.8	21.0	6.2		0.00

BGI PQ200 Air Sampling System Downloaded 2018 08 jun 11:58:03

Job Details:

Job Name:	18Jun08A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:500:15
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	586	582	584	mmHg
TA	27.3	5.2	16.5	°C
Q	---	---	16.71	Lpm

QCV	0.56 %
Max overheat	2.9 °C
occured	07-jun 15:57:23

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-07-jun	0:00:08
Stop:	18-08-jun	0:00:05

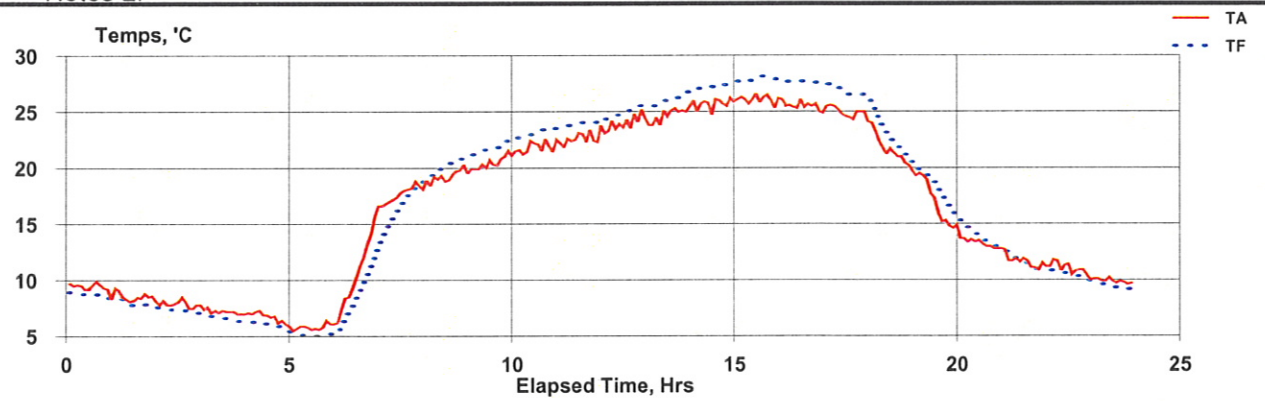
ET: 23:59

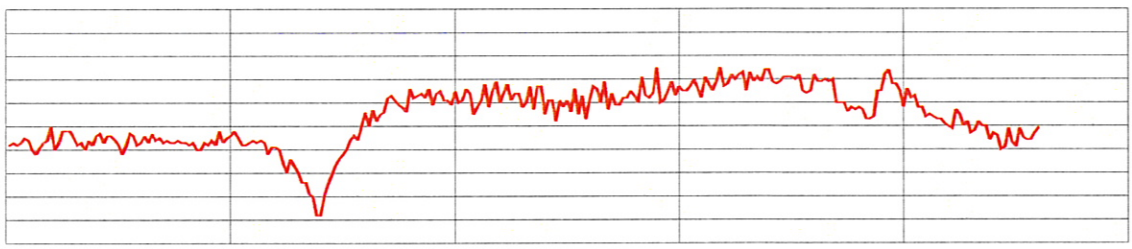
Mass Concentration Data:

Filter ID:	11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:





18-07-jun	0:05:08	583	9.4	8.7	-0.7	24	16.72
18-07-jun	1:05:08	583	8.5	7.9	-0.6	24	16.72
18-07-jun	2:05:08	583	7.9	7.3	-0.6	24	16.71
18-07-jun	3:05:08	583	7.2	6.6	-0.6	24	16.72
18-07-jun	4:05:08	584	6.7	6.0	-0.7	24	16.71
18-07-jun	5:05:08	584	5.8	5.1	-0.7	24	16.72
18-07-jun	6:05:08	584	11.1	8.7	-2.3	25	16.71
18-07-jun	7:05:08	585	17.7	16.5	-1.2	26	16.70
18-07-jun	8:05:08	585	19.3	20.1	0.8	27	16.72
18-07-jun	9:05:08	585	20.5	21.7	1.3	27	16.72
18-07-jun	10:05:08	585	21.9	23.1	1.2	28	16.72
18-07-jun	11:05:08	585	22.7	23.9	1.3	28	16.71
18-07-jun	12:05:08	585	24.0	24.9	0.9	28	16.71
18-07-jun	13:05:08	585	24.7	26.0	1.3	28	16.72
18-07-jun	14:05:08	585	25.7	27.2	1.5	28	16.73
18-07-jun	15:05:08	584	26.1	27.8	1.8	28	16.72
18-07-jun	16:05:08	584	25.5	27.6	2.1	28	16.71
18-07-jun	17:05:08	584	24.9	26.8	1.9	28	16.71
18-07-jun	18:05:08	584	21.5	22.8	1.3	28	16.71
18-07-jun	19:05:08	584	16.9	18.2	1.3	27	16.72
18-07-jun	20:05:08	585	13.2	13.9	0.6	27	16.69
18-07-jun	21:05:08	585	11.6	11.6	0.0	27	16.72
18-07-jun	22:05:08	585	11.0	10.5	-0.5	27	16.71
18-07-jun	23:05:08	586	9.9	9.4	-0.5	27	16.71

BGI PQ200 Air Sampling System

Downloaded 2018 14 jun 14:10:30

Job Details:

Job Name: 18Jun14A.JOB
Version: 5.62
Serial No: 962
Pump Time: :524:14
Flags:

Job Code:
Site Name: 962A
Station Code:
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	586	583	584	mmHg
TA	31	9.5	20.2	°C
Q	---	---	16.71	Lpm

QCV 0.56 %

Max overheat 4.2 °C
occured 13-jun 19:41:49

Timer Information:

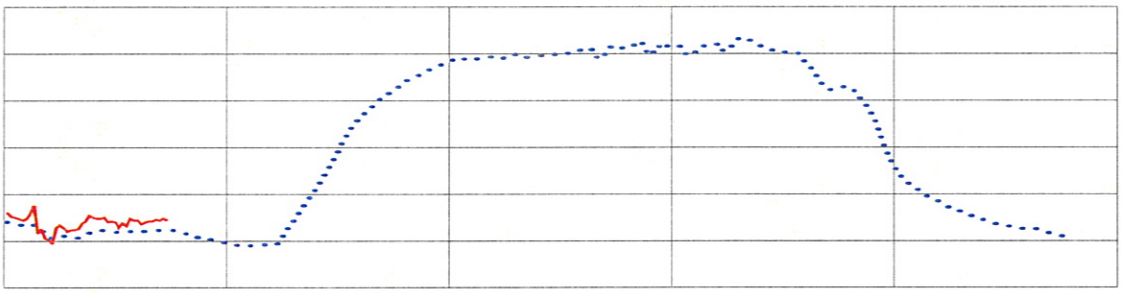
	Date dd-mmm	Time hh:mm:ss
Start:	18-13-jun	0:00:08
Stop:	18-14-jun	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	22	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:



Overheat, TF-

18-13-jun	0:05:08	585	12.0	11.5	-0.5	26	16.71
18-13-jun	1:05:08	585	11.5	10.5	-1.0	26	16.72
18-13-jun	2:05:08	585	12.1	11.0	-1.1	26	16.71
18-13-jun	3:05:08	585	12.1	11.1	-1.0	26	16.73
18-13-jun	4:05:08	585	10.7	10.2	-0.4	26	16.71
18-13-jun	5:05:08	585	10.3	9.6	-0.7	26	16.72
18-13-jun	6:05:08	585	13.8	12.4	-1.4	26	16.72
18-13-jun	7:05:08	586	22.2	19.7	-2.4	27	16.71
18-13-jun	8:05:08	586	24.9	25.3	0.4	29	16.71
18-13-jun	9:05:08	586	27.2	28.2	1.0	30	16.72
18-13-jun	10:05:08	585	28.1	29.5	1.4	30	16.72
18-13-jun	11:05:08	585	28.4	29.7	1.3	30	16.71
18-13-jun	12:05:08	585	29.2	30.0	0.8	31	16.71
18-13-jun	13:05:08	585	29.0	30.3	1.3	31	16.71
18-13-jun	14:05:08	585	28.8	30.7	1.8	31	16.71
18-13-jun	15:05:08	584	28.7	30.5	1.9	31	16.70
18-13-jun	16:05:08	584	29.2	31.1	1.9	31	16.71
18-13-jun	17:05:08	584	28.1	30.1	2.0	31	16.70
18-13-jun	18:05:08	584	25.5	26.9	1.4	30	16.71
18-13-jun	19:05:08	584	20.3	22.6	2.3	30	16.71
18-13-jun	20:05:08	584	14.6	15.5	1.0	29	16.71
18-13-jun	21:05:08	584	13.1	13.0	-0.1	29	16.71
18-13-jun	22:05:08	584	12.2	11.6	-0.6	29	16.72
18-13-jun	23:05:08	584	11.5	10.8	-0.7	28	16.71

BGI PQ200 Air Sampling System Downloaded 2018 22 jun 09:15:20

Job Details:

Job Name:	18Jun22A.JOB	Job Code:	
Version:	5.62	Site Name:	962A
Serial No:	962	Station Code:	
Pump Time:	:548:13	Operators:	KN
Flags:	F	User1:	
		User2:	

	Max	Min	Avg	Units
BP	587	583	585	mmHg
TA	27.7	5	16.8	°C
Q	---	---	16.71	Lpm

QCV	0.6	%
Max overheat	9.2	°C
occured	21-jun 20:01:14	

Timer Information:

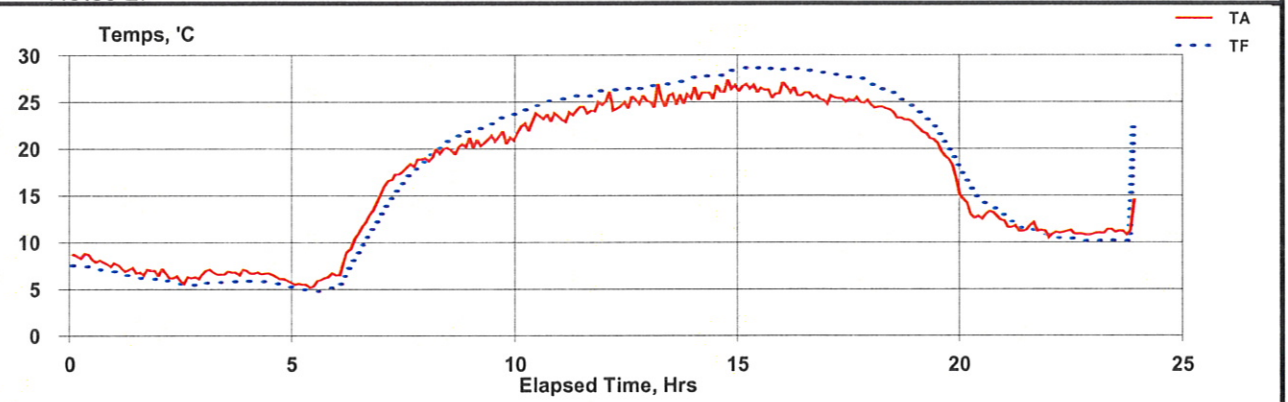
	Date dd-mmm	Time hh:mm:ss
Start:	18-19-jun	0:00:08
Stop:	18-20-jun	0:00:05
ET:	23:59	

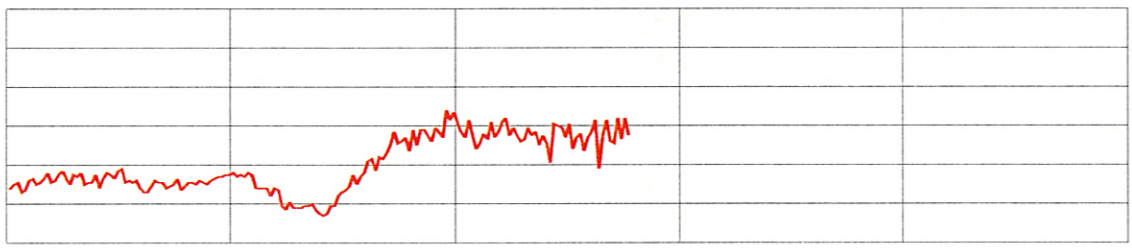
Mass Concentration Data:

Filter ID:	4	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.044	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:





18-19-jun	0:05:08	584	8.2	7.2	-0.9	31	16.73
18-19-jun	1:05:08	584	7.0	6.3	-0.7	31	16.70
18-19-jun	2:05:08	585	6.3	5.6	-0.7	31	16.73
18-19-jun	3:05:08	585	6.8	5.7	-1.1	31	16.73
18-19-jun	4:05:08	585	6.4	5.6	-0.8	31	16.73
18-19-jun	5:05:08	585	5.9	5.0	-0.9	31	16.71
18-19-jun	6:05:08	585	11.2	9.1	-2.1	32	16.71
18-19-jun	7:05:08	586	17.7	16.3	-1.4	33	16.72
18-19-jun	8:05:08	586	19.9	20.6	0.7	34	16.72
18-19-jun	9:05:08	586	20.9	22.7	1.8	35	16.72
18-19-jun	10:05:08	586	23.0	24.6	1.6	35	16.72
18-19-jun	11:05:08	586	24.0	25.7	1.6	35	16.72
18-19-jun	12:05:08	585	25.0	26.4	1.4	35	16.72
18-19-jun	13:05:08	585	25.4	27.0	1.6	36	16.71
18-19-jun	14:05:08	585	26.2	27.8	1.6	36	16.72
18-19-jun	15:05:08	585	26.3	28.6	2.3	36	16.72
18-19-jun	16:05:08	585	26.0	28.3	2.4	36	16.71
18-19-jun	17:05:08	585	25.2	27.7	2.5	36	16.72
18-19-jun	18:05:08	585	23.9	25.9	2.0	36	16.72
18-19-jun	19:05:08	585	20.3	22.0	1.6	35	16.72
18-19-jun	20:05:08	586	13.3	15.1	1.8	35	16.71
18-19-jun	21:05:08	586	11.6	11.6	0.1	35	16.71
18-19-jun	22:05:08	586	11.0	10.3	-0.6	35	16.71
18-19-jun	23:05:08	586	11.1	10.1	-1.0	34	16.71
18-21-jun	20:13:09	585	14.5	22.4	7.9		0.00

Compliance Monitor 963B

PM_{10} Sampler Summary

April 1, 2018 - June 30, 2018

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-B **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
04/02/18	P2946889	**11.0**	**13.5**	23:59	24.0	19.5	372.974	373.239	0.265	HT	
04/08/18	P2947089	**Invalid - AG**	**Invalid - AG**	58:55	59.0	48.8	370.515	372.011	1.496	SP,CI,HT	
04/14/18	P2947094	**6.4**	**7.7**	23:59	24.0	20.0	369.885	370.040	0.155		
04/20/18	P2947099	**18.0**	**21.6**	23:59	24.0	20.1	368.923	369.358	0.435		
04/26/18	P2947324	**16.8**	**20.8**	23:59	24.0	19.4	375.763	376.167	0.404		
05/02/18	P2947330	**6.1**	**7.3**	23:59	24.0	20.1	373.012	373.160	0.148	HT	
05/08/18	P2947558	**43.9**	**54.9**	23:59	24.0	19.2	374.886	375.941	1.055		
05/14/18	P2947564	**36.4**	**44.9**	23:59	24.0	19.5	373.748	374.625	0.877		
05/20/18	P2947770	**6.6**	**8.2**	23:59	24.0	19.4	370.213	370.372	0.159		
05/26/18	P2947775	**14.0**	**17.5**	23:59	24.0	19.3	375.230	375.568	0.338		
06/01/18	P2947780	**19.9**	**24.9**	23:59	24.0	19.3	369.690	370.170	0.480		
06/07/18	P2948032	**64.5**	**81.1**	23:59	24.0	19.1	375.762	377.314	1.552		
06/13/18	P2948038	**50.4**	**64.0**	23:59	24.0	18.9	372.610	373.821	1.211		
06/19/18	P2948231	**32.0**	**40.1**	23:59	24.0	19.2	371.373	372.143	0.770		
06/25/18	P2948237	**24.3**	**30.8**	23:59	24.0	19.0	368.409	368.994	0.585		
05/04/18	P2947334		**Field Blank**				373.610	373.616	0.006		

# Valid	Recovery	Average	St. Dev.	Max	Min
14	**93%**	**31.2**	**22.9**	**81.1**	**7.3**

BGI PQ200 Air Sampling System Downloaded 2018 05 apr 10:47:36

Job Details:

Job Name:	18Apr05B.JOB
Version:	5.62
Serial No:	963
Pump Time:	6010:52
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	586	583	584	mmHg
TA	17.8	-0.8	8.6	°C
Q	---	---	16.7	Lpm

QCV	0.55 %
Max overheat	2.5 °C
occured	02-apr 14:19:13

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-02-apr	0:00:08
Stop:	18-03-apr	0:00:05

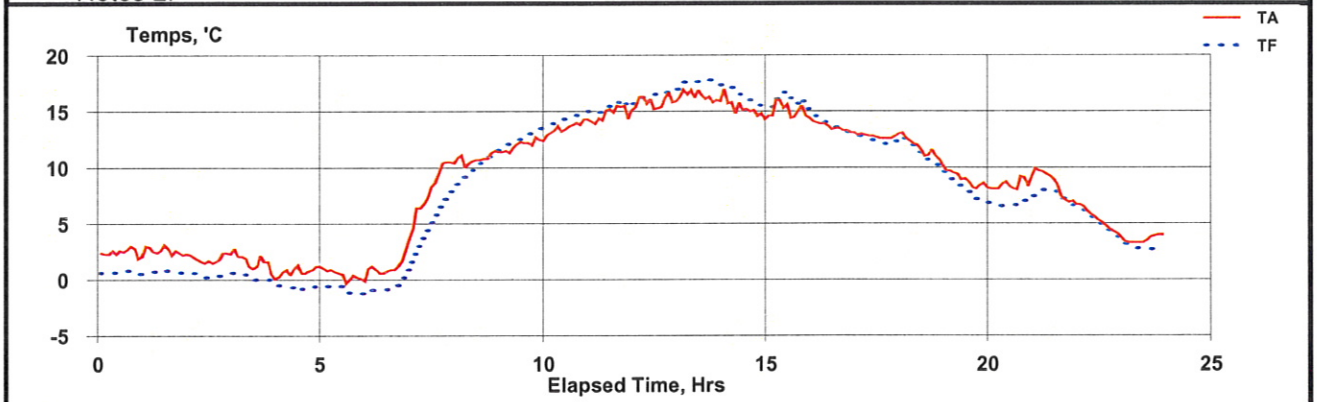
ET: 23:59

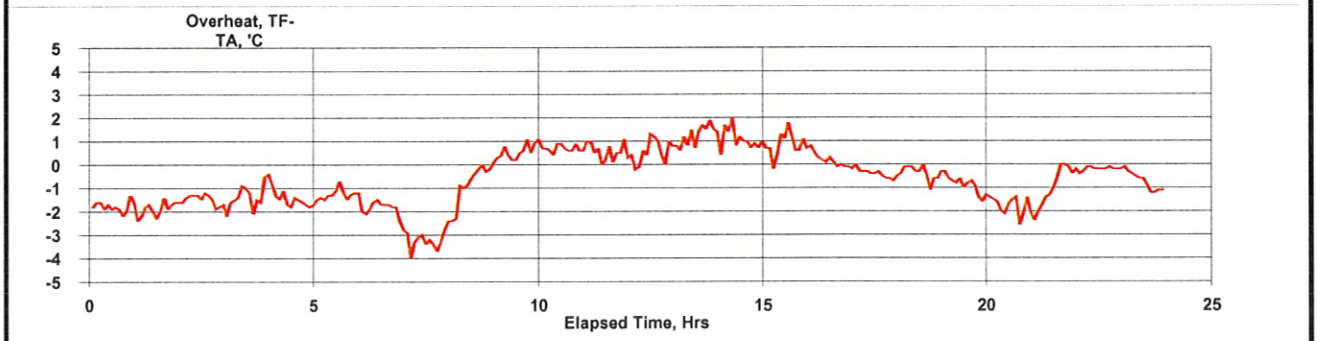
Mass Concentration Data:

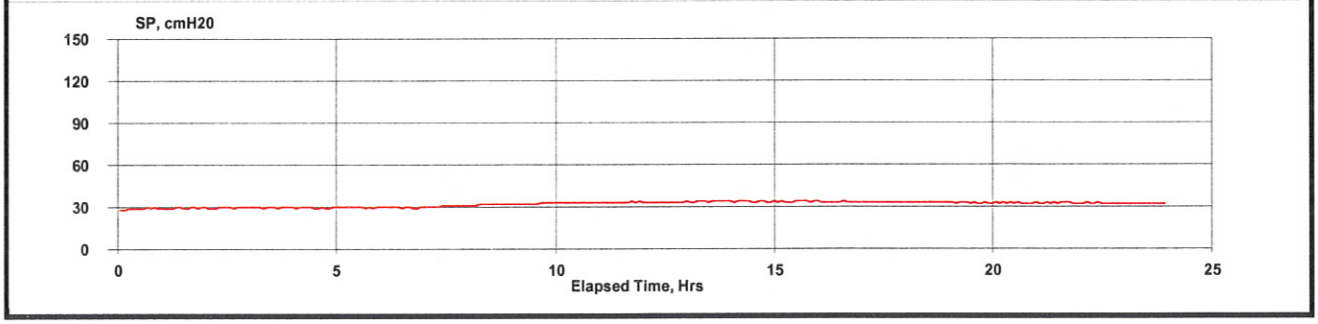
Filter ID:	17	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-02-apr	0:05:08	586	2.5	0.7	-1.8	29	16.71
18-02-apr	1:05:08	586	2.6	0.7	-1.9	30	16.71
18-02-apr	2:05:08	585	1.9	0.4	-1.5	30	16.71
18-02-apr	3:05:08	585	1.5	0.2	-1.3	30	16.71
18-02-apr	4:05:08	585	0.8	-0.7	-1.5	30	16.70
18-02-apr	5:05:08	585	0.4	-0.9	-1.3	30	16.71
18-02-apr	6:05:08	585	1.4	-0.6	-1.9	30	16.72
18-02-apr	7:05:08	585	8.3	5.1	-3.2	31	16.71
18-02-apr	8:05:08	585	10.9	10.1	-0.8	32	16.71
18-02-apr	9:05:08	585	12.0	12.6	0.6	32	16.71
18-02-apr	10:05:08	585	13.6	14.3	0.7	33	16.71
18-02-apr	11:05:08	584	14.8	15.4	0.6	33	16.71
18-02-apr	12:05:08	584	15.9	16.4	0.6	33	16.72
18-02-apr	13:05:08	584	16.4	17.6	1.3	34	16.72
18-02-apr	14:05:08	584	15.3	16.3	1.1	34	16.70
18-02-apr	15:05:08	583	15.0	15.9	0.8	34	16.70
18-02-apr	16:05:08	583	13.6	13.7	0.1	33	16.71
18-02-apr	17:05:08	583	12.8	12.4	-0.4	33	16.71
18-02-apr	18:05:08	583	11.6	11.3	-0.4	33	16.70
18-02-apr	19:05:08	584	8.9	8.0	-0.9	33	16.71
18-02-apr	20:05:08	584	8.5	6.7	-1.8	32	16.71
18-02-apr	21:05:08	585	8.3	7.4	-0.9	32	16.70
18-02-apr	22:05:08	585	5.2	5.0	-0.2	32	16.71
18-02-apr	23:05:08	586	3.6	2.8	-0.7	32	16.70

BGI PQ200 Air Sampling System Downloaded 2018 10 apr 10:58:25

Job Details:

Job Name: 18Apr10B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6069:47
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	595	583	591	mmHg
TA	17.8	-2	7.4	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 2.7 °C
occured 09-apr 15:15:43

Timer Information:

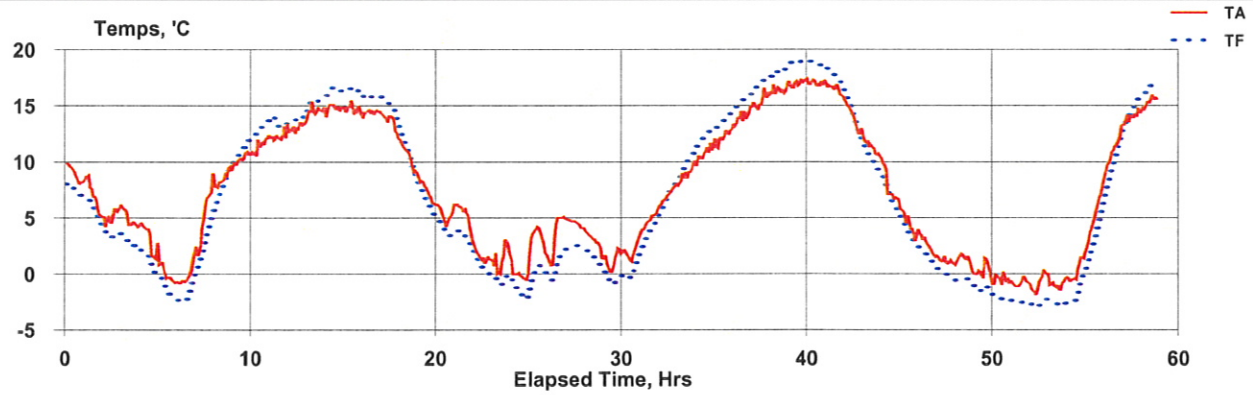
	Date dd-mmm	Time hh:mm:ss
Start:	18-08-apr	0:00:08
Stop:	18-10-apr	10:55:11

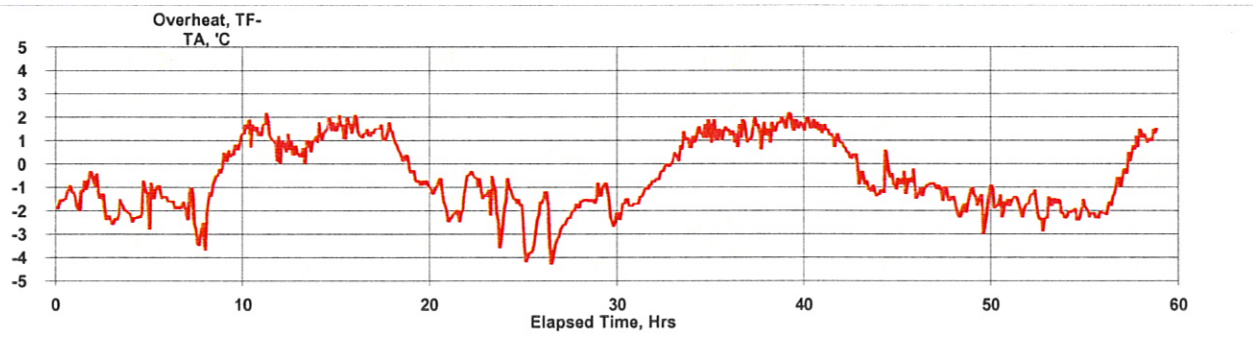
ET: 58:55:00

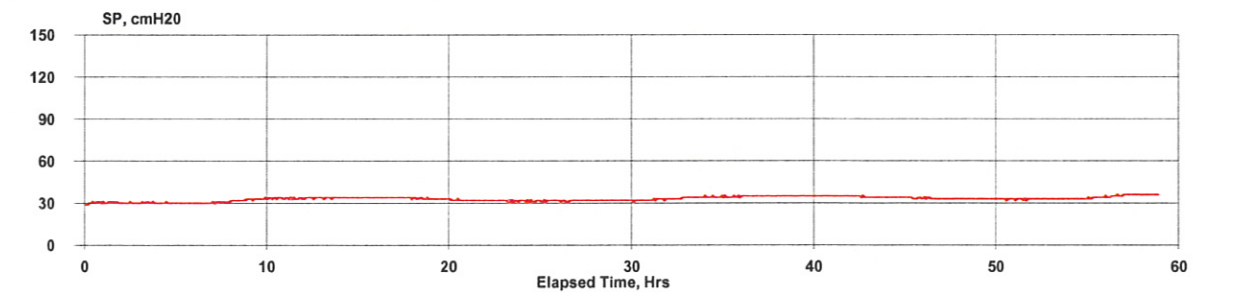
Mass Concentration Data:

Filter ID:	27	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	59.022	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-08-apr	0:05:08	585	8.9	7.5	-1.4	30	16.71
18-08-apr	1:05:08	585	6.9	5.9	-1.1	31	16.71
18-08-apr	2:05:08	585	5.3	3.5	-1.7	30	16.71
18-08-apr	3:05:08	585	4.8	2.8	-2.1	30	16.70
18-08-apr	4:05:08	586	3.1	1.2	-1.9	30	16.71
18-08-apr	5:05:08	586	0.0	-1.3	-1.3	30	16.71
18-08-apr	6:05:08	587	-0.2	-2.0	-1.8	30	16.71
18-08-apr	7:05:08	587	5.1	2.5	-2.5	31	16.72
18-08-apr	8:05:08	587	8.5	7.8	-0.8	32	16.71
18-08-apr	9:05:08	588	10.3	10.9	0.6	33	16.71
18-08-apr	10:05:08	588	11.5	12.9	1.4	34	16.71
18-08-apr	11:05:08	588	12.3	13.5	1.2	34	16.71
18-08-apr	12:05:08	588	13.1	13.8	0.7	34	16.71
18-08-apr	13:05:08	588	14.6	15.4	0.7	34	16.69
18-08-apr	14:05:08	588	14.8	16.3	1.5	34	16.70
18-08-apr	15:05:08	589	14.8	16.4	1.6	34	16.71
18-08-apr	16:05:08	589	14.4	15.8	1.3	34	16.71
18-08-apr	17:05:08	589	13.6	15.0	1.4	34	16.71
18-08-apr	18:05:08	589	10.5	10.9	0.4	33	16.71
18-08-apr	19:05:08	589	7.4	6.7	-0.7	33	16.71
18-08-apr	20:05:08	589	5.4	4.0	-1.3	32	16.71
18-08-apr	21:05:08	590	5.3	3.4	-1.9	32	16.71
18-08-apr	22:05:08	590	1.6	0.8	-0.8	32	16.70
18-08-apr	23:05:08	590	1.4	-0.5	-1.9	32	16.71
18-09-apr	0:05:08	591	0.0	-1.5	-1.5	32	16.71
18-09-apr	1:05:08	591	3.1	0.0	-3.1	32	16.71
18-09-apr	2:05:08	591	3.5	0.7	-2.8	32	16.71
18-09-apr	3:05:08	591	4.5	2.3	-2.2	32	16.71
18-09-apr	4:05:08	592	3.0	1.5	-1.5	32	16.72
18-09-apr	5:05:08	592	1.3	-0.4	-1.7	32	16.70
18-09-apr	6:05:08	592	2.0	0.2	-1.8	32	16.71
18-09-apr	7:05:08	593	4.8	3.6	-1.2	33	16.71
18-09-apr	8:05:08	594	7.0	6.8	-0.3	33	16.71
18-09-apr	9:05:08	594	8.9	9.6	0.7	34	16.71
18-09-apr	10:05:08	594	10.8	12.1	1.4	34	16.71
18-09-apr	11:05:08	594	12.2	13.6	1.4	34	16.70
18-09-apr	12:05:08	594	14.0	15.3	1.3	35	16.70
18-09-apr	13:05:08	593	15.4	16.8	1.4	35	16.70
18-09-apr	14:05:08	593	16.3	17.9	1.6	35	16.71
18-09-apr	15:05:08	593	17.0	18.8	1.8	35	16.71
18-09-apr	16:05:08	593	17.0	18.7	1.7	35	16.70
18-09-apr	17:05:08	593	16.5	17.7	1.2	35	16.72
18-09-apr	18:05:08	593	14.0	14.3	0.3	35	16.71
18-09-apr	19:05:08	594	11.3	10.4	-0.9	34	16.71
18-09-apr	20:05:08	594	7.9	7.2	-0.7	34	16.71
18-09-apr	21:05:08	594	4.6	3.8	-0.7	34	16.70
18-09-apr	22:05:08	595	2.7	1.6	-1.1	33	16.71
18-09-apr	23:05:08	595	1.2	0.0	-1.2	33	16.71
18-10-apr	0:05:08	595	1.2	-0.6	-1.8	33	16.71
18-10-apr	1:05:08	595	0.3	-1.4	-1.7	33	16.71
18-10-apr	2:05:08	594	-0.5	-2.1	-1.6	33	16.71
18-10-apr	3:05:08	594	-0.8	-2.5	-1.7	33	16.71
18-10-apr	4:05:08	594	-0.8	-2.7	-1.9	33	16.71
18-10-apr	5:05:08	594	-0.9	-2.7	-1.8	33	16.71
18-10-apr	6:05:08	594	0.2	-1.9	-2.1	33	16.71

18-10-apr	7:05:08	595	4.8	2.7	-2.1	34	16.71
18-10-apr	8:05:08	595	10.8	9.3	-1.5	35	16.72
18-10-apr	9:05:08	595	14.0	14.3	0.3	36	16.71
18-10-apr	10:05:08	595	15.3	16.5	1.2	36	16.71

BGI PQ200 Air Sampling System Downloaded 2018 16 apr 14:10:35

Job Details:

Job Name: 18Apr16B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6093:46
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	16.7	-3.4	6.1	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 3.4 °C
occured 14-apr 14:31:57

Timer Information:

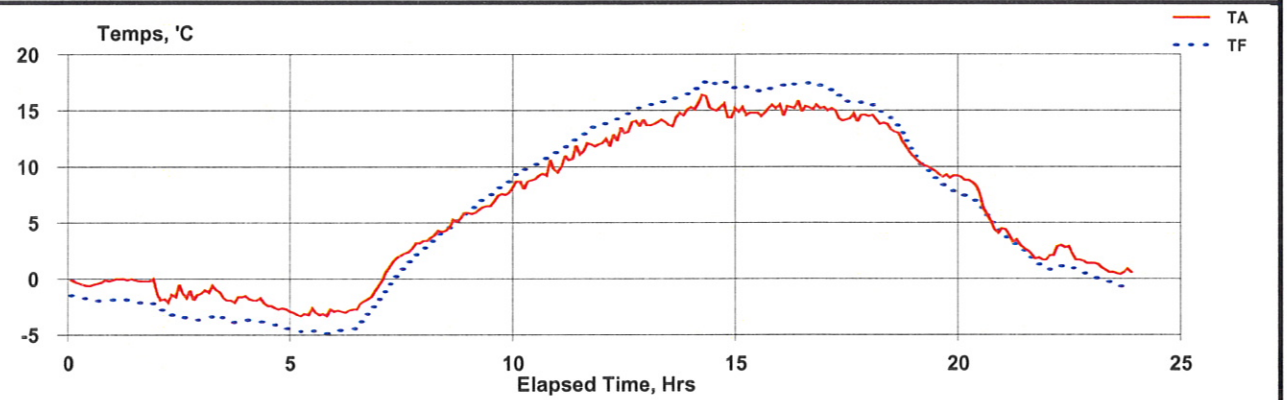
	Date dd-mmm	Time hh:mm:ss
Start:	18-14-apr	0:00:08
Stop:	18-15-apr	0:00:05

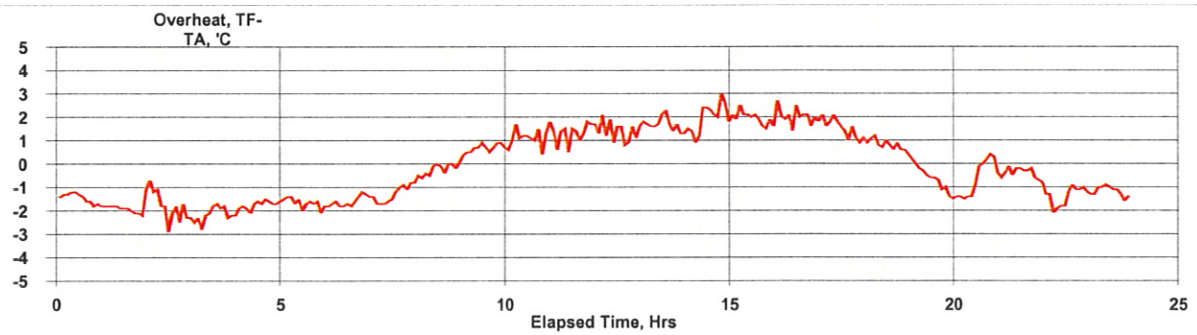
ET: 23:59

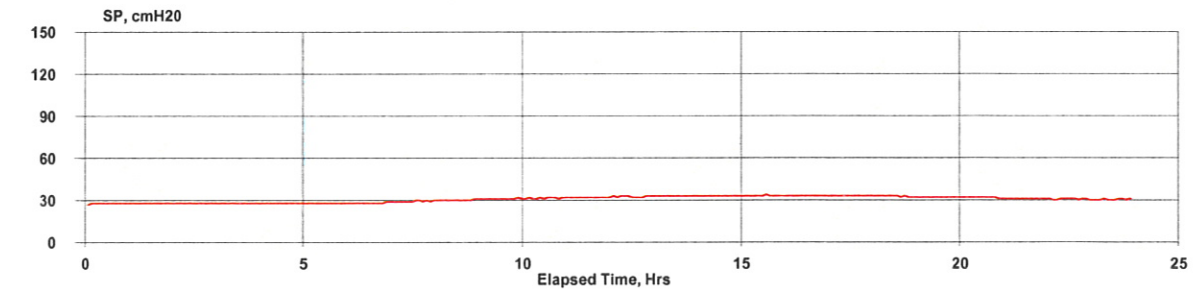
Mass Concentration Data:

Filter ID:	34	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-14-apr	0:05:08	594	-0.3	-1.8	-1.5	28	16.71
18-14-apr	1:05:08	594	-0.2	-2.1	-1.9	28	16.71
18-14-apr	2:05:08	594	-1.5	-3.3	-1.9	28	16.71
18-14-apr	3:05:08	594	-1.4	-3.6	-2.2	28	16.71
18-14-apr	4:05:08	594	-2.3	-4.1	-1.7	28	16.71
18-14-apr	5:05:08	594	-3.1	-4.7	-1.7	28	16.71
18-14-apr	6:05:08	594	-2.2	-3.8	-1.6	28	16.71
18-14-apr	7:05:08	594	2.0	0.8	-1.3	29	16.71
18-14-apr	8:05:08	595	4.7	4.4	-0.2	30	16.70
18-14-apr	9:05:08	595	6.9	7.6	0.7	31	16.71
18-14-apr	10:05:08	595	9.1	10.3	1.2	32	16.71
18-14-apr	11:05:08	595	11.4	12.7	1.3	32	16.71
18-14-apr	12:05:08	594	13.2	14.6	1.4	33	16.71
18-14-apr	13:05:08	593	14.3	16.0	1.7	33	16.71
18-14-apr	14:05:08	593	15.3	17.3	2.0	33	16.71
18-14-apr	15:05:08	592	15.0	16.9	1.9	33	16.71
18-14-apr	16:05:08	592	15.3	17.3	2.0	33	16.71
18-14-apr	17:05:08	592	14.5	16.1	1.5	33	16.70
18-14-apr	18:05:08	592	13.0	13.8	0.8	33	16.71
18-14-apr	19:05:08	592	9.6	9.0	-0.6	32	16.71
18-14-apr	20:05:08	592	6.8	6.1	-0.6	32	16.70
18-14-apr	21:05:08	593	2.7	2.3	-0.4	31	16.70
18-14-apr	22:05:08	593	2.2	0.8	-1.4	31	16.71
18-14-apr	23:05:08	592	0.8	-0.4	-1.2	30	16.70

BGI PQ200 Air Sampling System Downloaded 2018 23 apr 09:55:29

Job Details:

Job Name: 18Apr23B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6117:45
Flags:

Job Code:
Site Name: 963B
Station Code:
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	592	581	586	mmHg
TA	9.4	-3.7	2.1	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 2.8 °C
occured 20-apr 13:19:01

Timer Information:

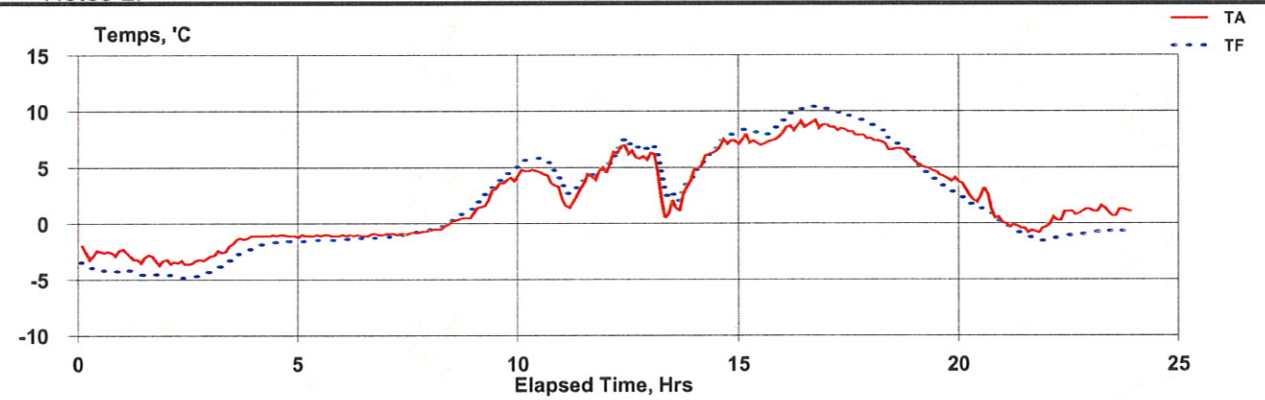
	Date dd-mmm	Time hh:mm:ss
Start:	18-20-apr	0:00:08
Stop:	18-21-apr	0:00:05

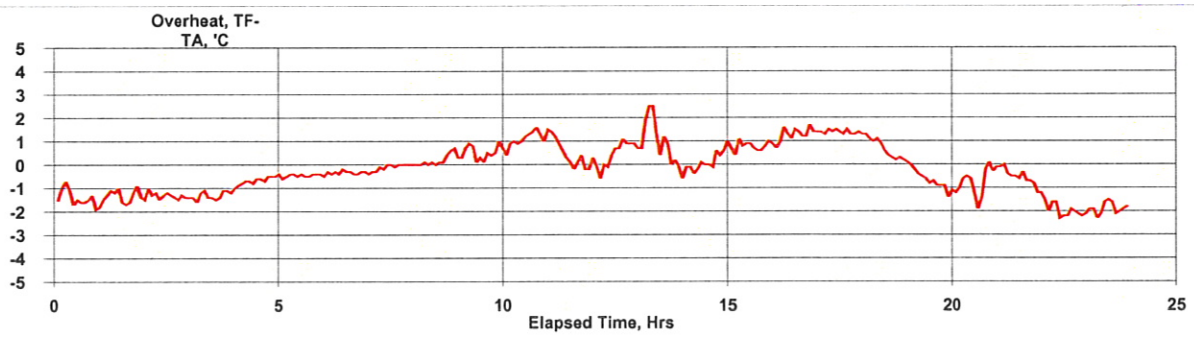
ET: 23:59

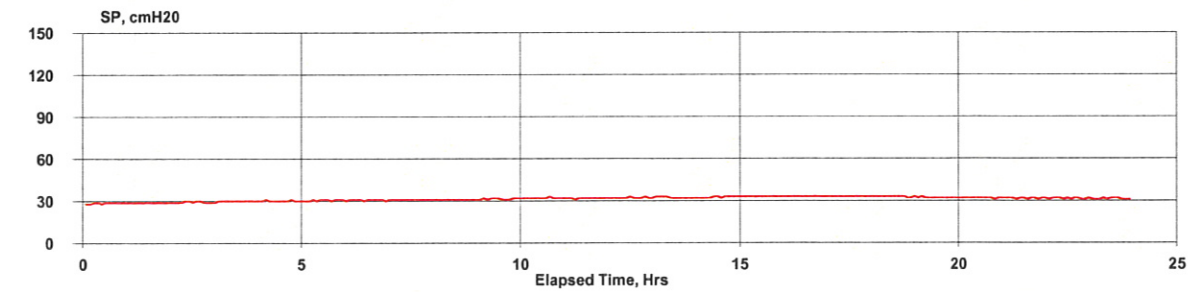
Mass Concentration Data:

Filter ID:	39	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-20-apr	0:05:08	584	-2.6	-4.0	-1.4	29	16.72
18-20-apr	1:05:08	584	-3.1	-4.5	-1.3	29	16.70
18-20-apr	2:05:08	584	-3.4	-4.7	-1.3	29	16.71
18-20-apr	3:05:08	584	-1.8	-3.1	-1.3	30	16.70
18-20-apr	4:05:08	584	-1.1	-1.7	-0.6	30	16.71
18-20-apr	5:05:08	584	-1.1	-1.5	-0.5	31	16.71
18-20-apr	6:05:08	584	-1.0	-1.4	-0.3	31	16.71
18-20-apr	7:05:08	584	-0.8	-0.9	-0.1	31	16.71
18-20-apr	8:05:08	584	0.1	0.3	0.2	31	16.71
18-20-apr	9:05:08	585	3.0	3.5	0.5	32	16.70
18-20-apr	10:05:08	585	4.1	5.3	1.1	32	16.71
18-20-apr	11:05:08	586	3.4	3.8	0.4	32	16.71
18-20-apr	12:05:08	587	6.2	6.7	0.5	32	16.70
18-20-apr	13:05:08	588	2.8	3.7	0.9	32	16.70
18-20-apr	14:05:08	588	6.6	6.7	0.2	33	16.71
18-20-apr	15:05:08	589	7.4	8.2	0.8	33	16.71
18-20-apr	16:05:08	589	8.8	10.1	1.3	33	16.72
18-20-apr	17:05:08	590	8.1	9.5	1.4	33	16.71
18-20-apr	18:05:08	590	6.7	7.3	0.6	33	16.71
18-20-apr	19:05:08	590	4.5	3.8	-0.7	32	16.72
18-20-apr	20:05:08	590	2.0	1.3	-0.7	32	16.71
18-20-apr	21:05:08	591	-0.4	-1.0	-0.6	32	16.71
18-20-apr	22:05:08	591	0.8	-1.2	-2.0	32	16.70
18-20-apr	23:05:08	591	1.1	-0.7	-1.9	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 27 apr 09:06:14

Job Details:

Job Name: 18Apr27B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6141:44
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	24.8	3.4	14.3	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 3.3 °C
occured 26-apr 13:45:36

Timer Information:

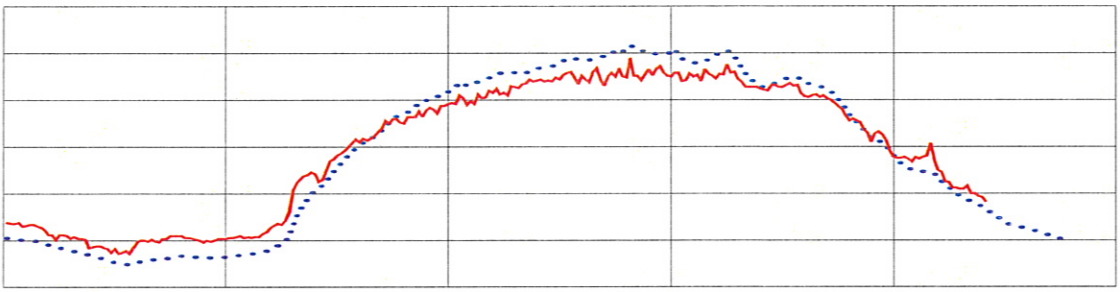
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-apr	0:00:08
Stop:	18-27-apr	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	5	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-26-apr	0:05:08	592	6.5	4.9	-1.6	22	16.71
18-26-apr	1:05:08	591	5.2	3.9	-1.3	22	16.71
18-26-apr	2:05:08	591	4.1	2.7	-1.4	22	16.70
18-26-apr	3:05:08	591	5.2	3.0	-2.2	22	16.71
18-26-apr	4:05:08	591	5.1	3.2	-1.9	22	16.71
18-26-apr	5:05:08	591	5.5	3.5	-2.0	22	16.70
18-26-apr	6:05:08	592	9.7	7.0	-2.8	23	16.71
18-26-apr	7:05:08	592	13.9	12.9	-1.1	24	16.71
18-26-apr	8:05:08	592	17.0	16.9	0.0	25	16.71
18-26-apr	9:05:08	592	18.8	19.9	1.1	26	16.71
18-26-apr	10:05:08	592	20.2	21.8	1.6	26	16.71
18-26-apr	11:05:08	592	21.4	22.9	1.5	27	16.71
18-26-apr	12:05:08	592	22.4	23.9	1.6	27	16.71
18-26-apr	13:05:08	591	22.5	24.7	2.2	27	16.70
18-26-apr	14:05:08	591	22.9	25.1	2.2	27	16.72
18-26-apr	15:05:08	591	22.6	24.4	1.8	27	16.70
18-26-apr	16:05:08	590	22.2	23.6	1.4	27	16.71
18-26-apr	17:05:08	590	21.3	21.9	0.6	27	16.71
18-26-apr	18:05:08	590	19.7	20.6	0.9	26	16.70
18-26-apr	19:05:08	590	16.3	16.0	-0.3	26	16.71
18-26-apr	20:05:08	591	13.8	12.5	-1.3	25	16.72
18-26-apr	21:05:08	591	10.6	9.8	-0.8	25	16.71
18-26-apr	22:05:08	591	7.9	7.0	-0.8	24	16.71
18-26-apr	23:05:08	591	6.9	5.5	-1.3	24	16.71

BGI PQ200 Air Sampling System Downloaded 2018 04 may 13:01:09

Job Details:

Job Name: 18May04B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6165:43
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	589	583	586	mmHg
TA	3.5	-0.4	1.3	°C
Q	---	---	16.7	Lpm

QCV 0.49 %
Max overheat 2.3 °C
occured 03-may 15:29:57

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-02-may	0:00:08
Stop:	18-03-may	0:00:04

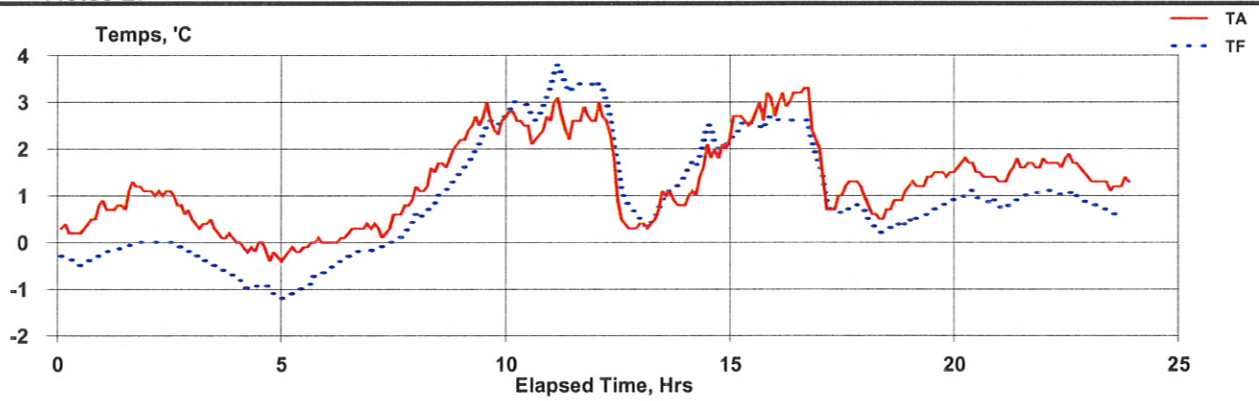
ET: 23:59

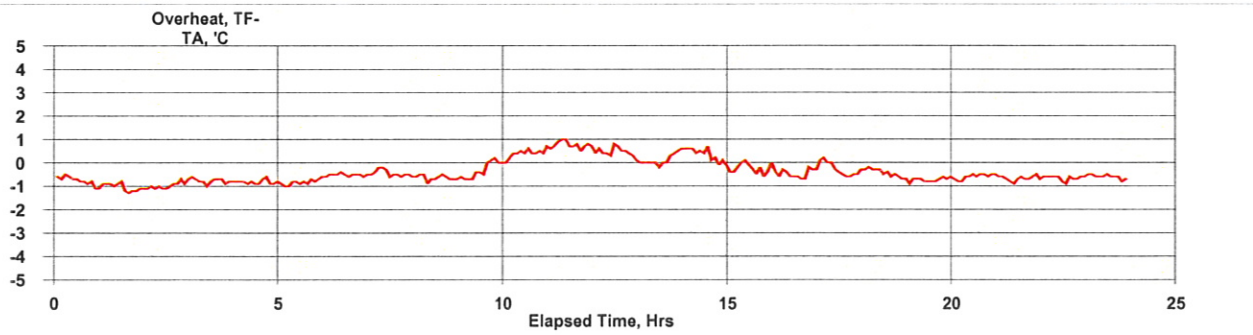
Mass Concentration Data:

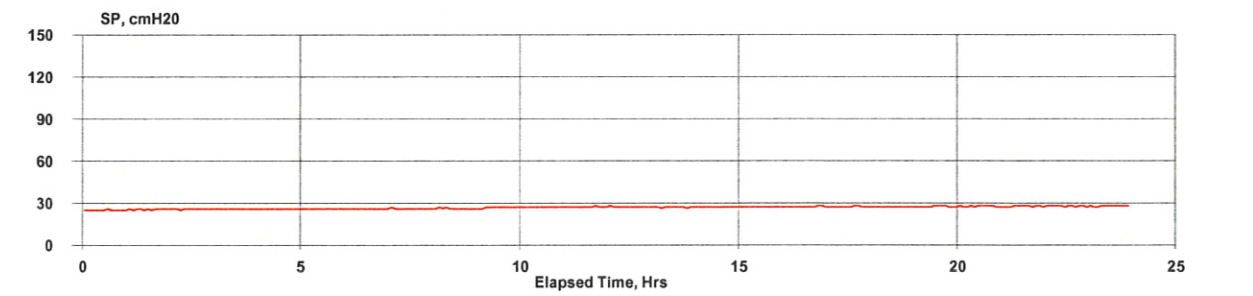
Filter ID: 11
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-02-may	0:05:08	585	0.4	-0.4	-0.8	25	16.70
18-02-may	1:05:08	585	1.0	-0.1	-1.0	26	16.71
18-02-may	2:05:08	585	0.9	-0.1	-1.0	26	16.71
18-02-may	3:05:08	585	0.3	-0.5	-0.8	26	16.71
18-02-may	4:05:08	585	-0.2	-1.0	-0.8	26	16.73
18-02-may	5:05:08	585	-0.1	-0.9	-0.8	26	16.71
18-02-may	6:05:08	585	0.2	-0.3	-0.5	26	16.71
18-02-may	7:05:08	585	0.6	0.1	-0.5	26	16.71
18-02-may	8:05:08	585	1.6	1.0	-0.6	26	16.71
18-02-may	9:05:08	586	2.6	2.2	-0.3	27	16.71
18-02-may	10:05:08	586	2.5	2.9	0.4	27	16.72
18-02-may	11:05:08	586	2.7	3.4	0.8	27	16.72
18-02-may	12:05:08	586	1.3	1.7	0.5	27	16.71
18-02-may	13:05:08	586	0.7	0.9	0.1	27	16.69
18-02-may	14:05:08	586	1.7	2.0	0.3	27	16.71
18-02-may	15:05:08	586	2.8	2.5	-0.3	27	16.72
18-02-may	16:05:08	586	2.9	2.4	-0.5	27	16.71
18-02-may	17:05:08	587	1.1	0.8	-0.3	27	16.71
18-02-may	18:05:08	587	0.8	0.3	-0.5	27	16.71
18-02-may	19:05:08	588	1.4	0.7	-0.7	27	16.71
18-02-may	20:05:08	588	1.5	0.9	-0.6	28	16.72
18-02-may	21:05:08	588	1.6	0.9	-0.7	28	16.69
18-02-may	22:05:08	589	1.7	1.0	-0.7	28	16.72
18-02-may	23:05:08	589	1.3	0.7	-0.6	28	16.70

BGI PQ200 Air Sampling System Downloaded 2018 09 may 09:40:26

Job Details:

Job Name: 18May09B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6189:42
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	28.4	4.7	17.5	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 2.9 °C
occured 08-may 13:39:40

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-08-may	0:00:08
Stop:	18-09-may	0:00:05

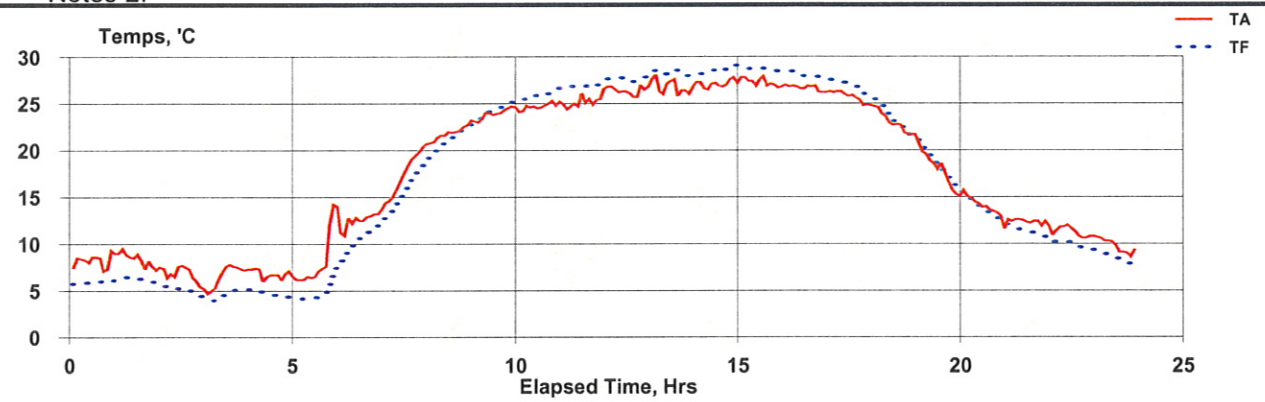
ET: 23:59

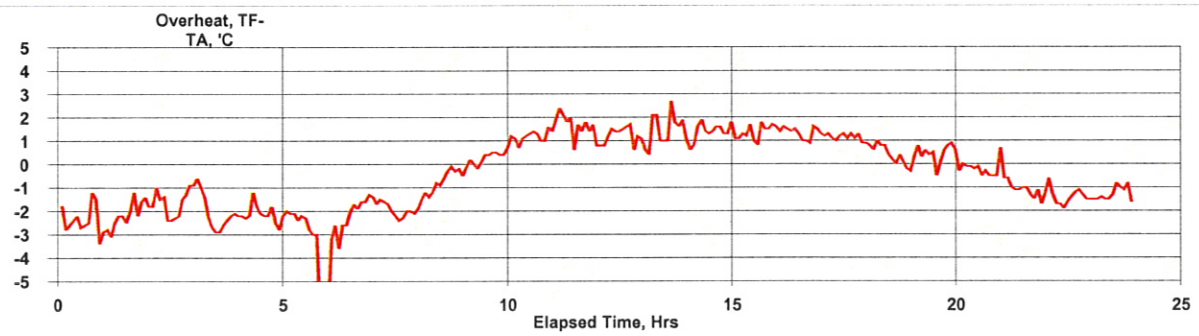
Mass Concentration Data:

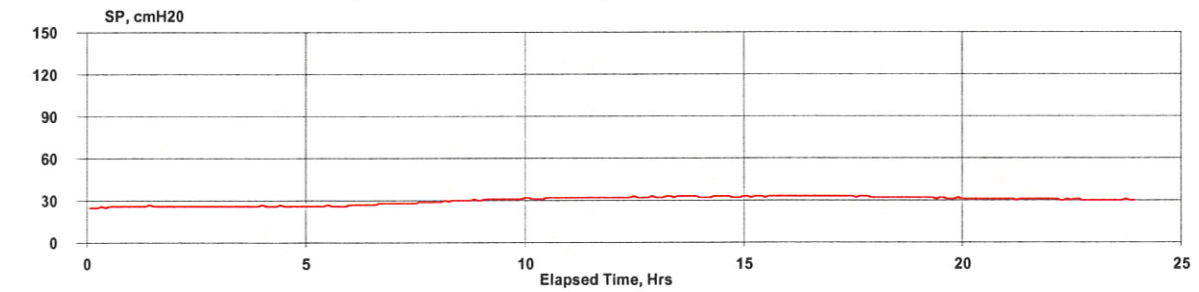
Filter ID: 23
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.039 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-08-may	0:05:08	593	8.3	5.9	-2.4	26	16.71
18-08-may	1:05:08	593	8.3	6.2	-2.1	26	16.70
18-08-may	2:05:08	593	6.7	5.1	-1.6	26	16.71
18-08-may	3:05:08	593	6.7	4.6	-2.1	26	16.72
18-08-may	4:05:08	593	6.8	4.6	-2.1	26	16.71
18-08-may	5:05:08	593	8.4	4.8	-3.6	26	16.71
18-08-may	6:05:08	593	12.6	10.4	-2.2	27	16.71
18-08-may	7:05:08	593	17.7	15.7	-2.0	29	16.71
18-08-may	8:05:08	594	21.9	21.1	-0.8	30	16.70
18-08-may	9:05:08	594	23.9	24.2	0.3	31	16.72
18-08-may	10:05:08	594	24.7	25.9	1.2	32	16.70
18-08-may	11:05:08	593	25.2	26.9	1.6	32	16.71
18-08-may	12:05:08	593	26.4	27.6	1.2	32	16.70
18-08-may	13:05:08	593	26.8	28.2	1.4	33	16.70
18-08-may	14:05:08	592	27.1	28.5	1.4	33	16.71
18-08-may	15:05:08	592	27.3	28.6	1.4	33	16.71
18-08-may	16:05:08	592	26.7	28.0	1.3	33	16.72
18-08-may	17:05:08	592	25.7	26.8	1.1	33	16.71
18-08-may	18:05:08	592	22.9	23.3	0.4	32	16.71
18-08-may	19:05:08	592	17.9	18.3	0.5	32	16.71
18-08-may	20:05:08	592	14.0	13.8	-0.2	31	16.71
18-08-may	21:05:08	592	12.4	11.3	-1.1	31	16.71
18-08-may	22:05:08	592	11.2	9.8	-1.4	30	16.71
18-08-may	23:05:08	592	9.7	8.5	-1.3	30	16.70

BGI PQ200 Air Sampling System Downloaded 2018 15 may 10:56:25

Job Details:

Job Name: 18May15B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6213:41
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	590	586	588	mmHg
TA	19.7	1.5	11	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 2.8 °C
occured 14-may 13:33:11

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-14-may	0:00:08
Stop:	18-15-may	0:00:05

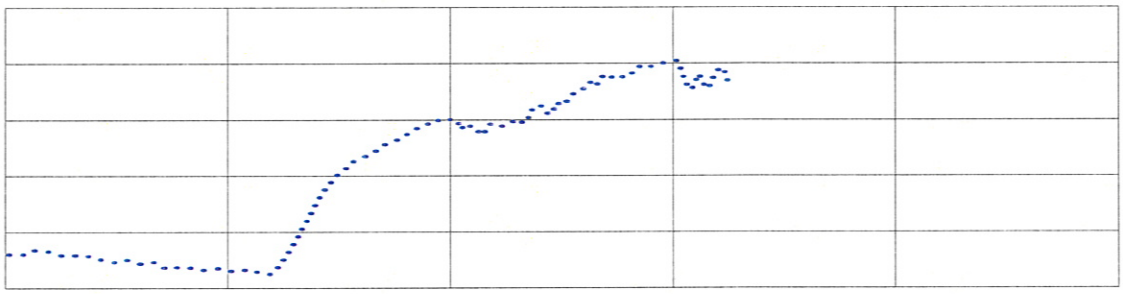
ET: 23:59

Mass Concentration Data:

Filter ID: 29
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.04 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-14-may	0:05:08	588	4.8	3.2	-1.7	25	16.71
18-14-may	1:05:08	588	4.3	2.9	-1.4	25	16.71
18-14-may	2:05:08	588	3.8	2.4	-1.4	25	16.71
18-14-may	3:05:08	588	3.2	2.0	-1.2	25	16.71
18-14-may	4:05:08	588	3.0	1.7	-1.4	25	16.71
18-14-may	5:05:08	589	2.8	1.5	-1.3	25	16.72
18-14-may	6:05:08	589	6.8	4.5	-2.4	26	16.70
18-14-may	7:05:08	589	10.6	10.2	-0.4	27	16.71
18-14-may	8:05:08	589	12.1	12.7	0.6	27	16.69
18-14-may	9:05:08	589	13.5	14.6	1.1	28	16.71
18-14-may	10:05:08	590	13.5	14.3	0.8	28	16.71
18-14-may	11:05:08	590	14.8	15.0	0.3	28	16.71
18-14-may	12:05:08	590	15.8	16.6	0.8	28	16.71
18-14-may	13:05:08	589	17.5	18.6	1.1	29	16.71
18-14-may	14:05:08	589	18.1	19.7	1.6	29	16.71
18-14-may	15:05:08	589	17.4	18.6	1.3	29	16.71
18-14-may	16:05:08	589	17.3	18.3	1.0	29	16.70
18-14-may	17:05:08	588	17.1	18.4	1.3	29	16.71
18-14-may	18:05:08	588	16.3	16.9	0.5	29	16.72
18-14-may	19:05:08	589	12.1	12.7	0.6	28	16.71
18-14-may	20:05:08	589	7.9	7.9	0.0	28	16.71
18-14-may	21:05:08	589	11.0	8.3	-2.7	27	16.71
18-14-may	22:05:08	589	10.3	8.6	-1.7	28	16.71
18-14-may	23:05:08	589	9.2	7.7	-1.5	28	16.70

BGI PQ200 Air Sampling System Downloaded 2018 22 may 12:17:29

Job Details:

Job Name: 18May22B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6237:40
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	590	586	588	mmHg
TA	23.1	3.8	13.3	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 3.1 °C
occured 20-may 16:02:24

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-20-may	0:00:08
Stop:	18-21-may	0:00:05

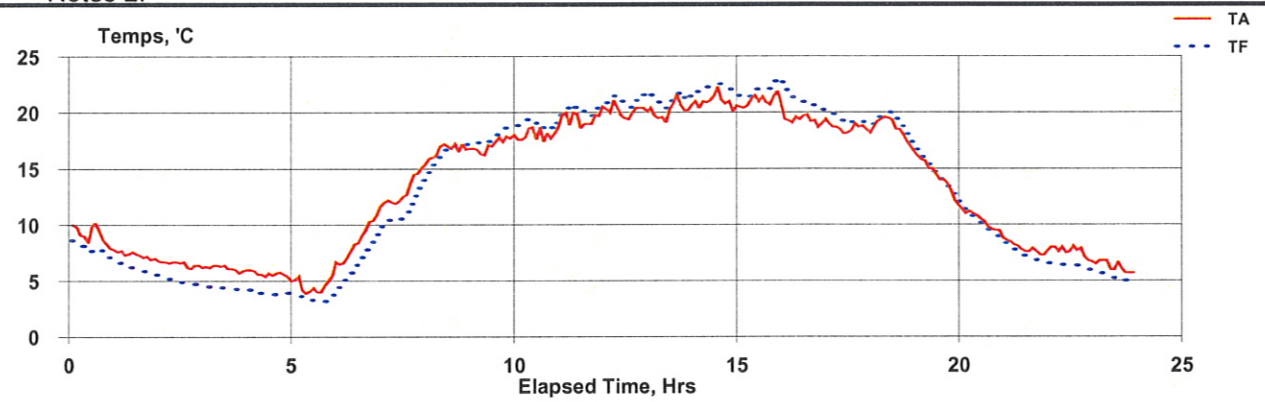
ET: 23:59

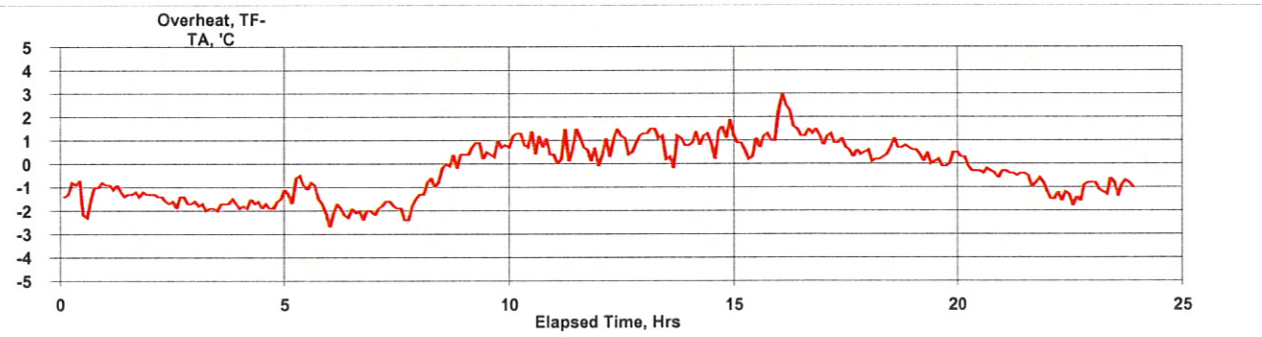
Mass Concentration Data:

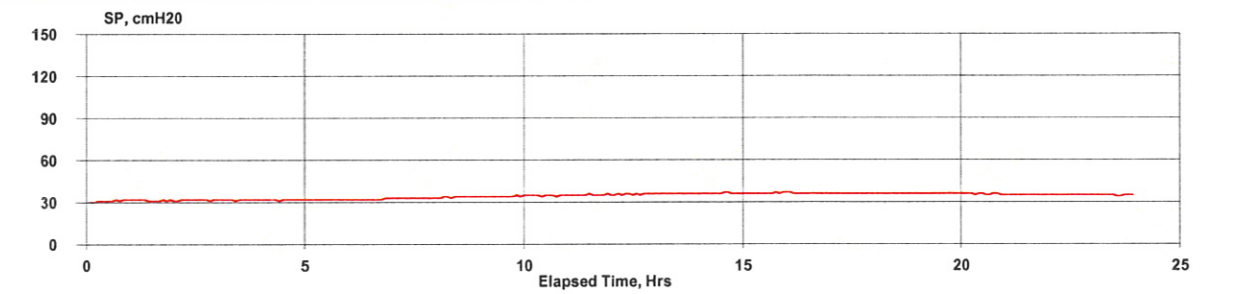
Filter ID: 18
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-20-may	0:05:08	589	9.0	7.8	-1.2	31	16.72
18-20-may	1:05:08	589	7.3	6.1	-1.2	32	16.70
18-20-may	2:05:08	589	6.5	4.9	-1.6	32	16.72
18-20-may	3:05:08	589	6.2	4.4	-1.8	32	16.70
18-20-may	4:05:08	589	5.6	3.9	-1.7	32	16.71
18-20-may	5:05:08	589	4.7	3.4	-1.3	32	16.71
18-20-may	6:05:08	589	8.9	6.8	-2.1	32	16.71
18-20-may	7:05:08	589	13.2	11.4	-1.8	33	16.70
18-20-may	8:05:08	589	16.7	16.4	-0.3	34	16.70
18-20-may	9:05:08	590	17.2	17.8	0.6	34	16.71
18-20-may	10:05:08	589	18.1	19.0	0.9	35	16.71
18-20-may	11:05:08	589	19.5	20.1	0.6	35	16.70
18-20-may	12:05:08	588	20.1	21.1	0.9	36	16.71
18-20-may	13:05:08	588	20.2	21.1	0.9	36	16.70
18-20-may	14:05:08	588	21.0	22.1	1.2	36	16.71
18-20-may	15:05:08	588	21.0	22.0	1.0	36	16.71
18-20-may	16:05:08	588	19.3	21.0	1.6	36	16.71
18-20-may	17:05:08	587	18.6	19.3	0.8	36	16.70
18-20-may	18:05:08	587	18.5	19.0	0.5	36	16.70
18-20-may	19:05:08	587	14.2	14.5	0.2	36	16.72
18-20-may	20:05:08	588	10.3	10.1	-0.2	36	16.70
18-20-may	21:05:08	588	7.9	7.2	-0.6	35	16.71
18-20-may	22:05:08	588	7.6	6.3	-1.3	35	16.71
18-20-may	23:05:08	588	6.3	5.3	-1.0	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 29 may 11:03:18

Job Details:

Job Name: 18May29B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6261:39
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ++++++++++++++++++++++++++++
User2:

	Max	Min	Avg	Units
BP	589	585	587	mmHg
TA	22.2	5	13.8	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 3.3 °C
occured 27-may 11:16:55

Timer Information:

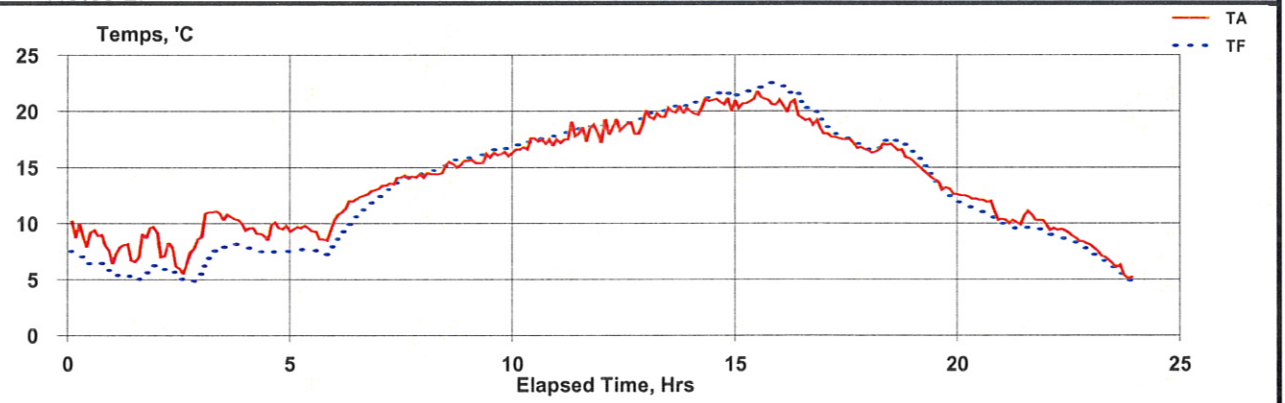
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-may	0:00:08
Stop:	18-27-may	0:00:05

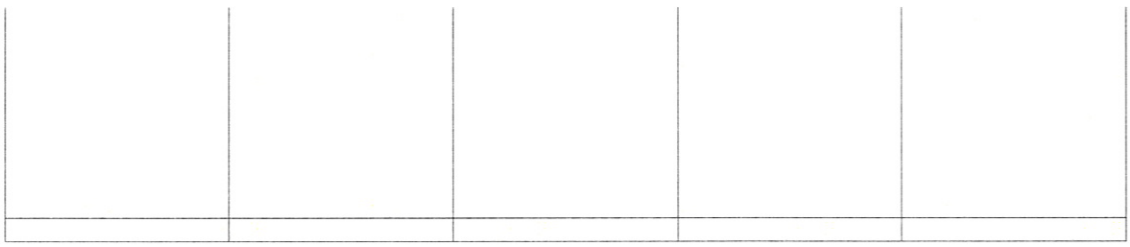
ET: 23:59

Mass Concentration Data:

Filter ID:	34	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:





18-26-may	0:05:08	589	8.7	6.6	-2.1	29	16.71
18-26-may	1:05:08	589	8.2	5.5	-2.7	29	16.70
18-26-may	2:05:08	588	7.3	5.4	-1.9	29	16.71
18-26-may	3:05:08	588	10.6	7.7	-2.9	30	16.71
18-26-may	4:05:08	588	9.4	7.5	-1.9	30	16.71
18-26-may	5:05:08	588	9.4	7.6	-1.8	30	16.71
18-26-may	6:05:08	588	12.2	10.6	-1.5	30	16.71
18-26-may	7:05:08	588	13.9	13.7	-0.2	31	16.71
18-26-may	8:05:08	588	15.0	15.2	0.2	32	16.70
18-26-may	9:05:08	588	15.9	16.4	0.4	32	16.71
18-26-may	10:05:08	588	17.1	17.4	0.3	32	16.70
18-26-may	11:05:08	588	18.0	18.4	0.4	32	16.70
18-26-may	12:05:08	587	18.7	19.0	0.3	33	16.70
18-26-may	13:05:08	587	19.9	20.2	0.3	33	16.71
18-26-may	14:05:08	586	20.6	21.3	0.6	33	16.71
18-26-may	15:05:08	586	20.9	22.0	1.1	34	16.70
18-26-may	16:05:08	585	19.5	20.8	1.2	33	16.71
18-26-may	17:05:08	586	17.3	17.5	0.3	33	16.71
18-26-may	18:05:08	586	16.5	17.0	0.5	33	16.71
18-26-may	19:05:08	586	13.8	13.9	0.1	32	16.71
18-26-may	20:05:08	586	11.8	11.0	-0.8	32	16.71
18-26-may	21:05:08	587	10.3	9.5	-0.8	32	16.70
18-26-may	22:05:08	587	8.9	8.3	-0.6	32	16.71
18-26-may	23:05:08	587	6.4	6.1	-0.3	32	16.71

BGI PQ200 Air Sampling System Downloaded 2018 04 jun 15:18:15

Job Details:

Job Name: 18Jun04B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6285:38
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	593	586	590	mmHg
TA	25.2	3.5	15.8	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 3.1 °C
occured 03-jun 12:51:30

Timer Information:

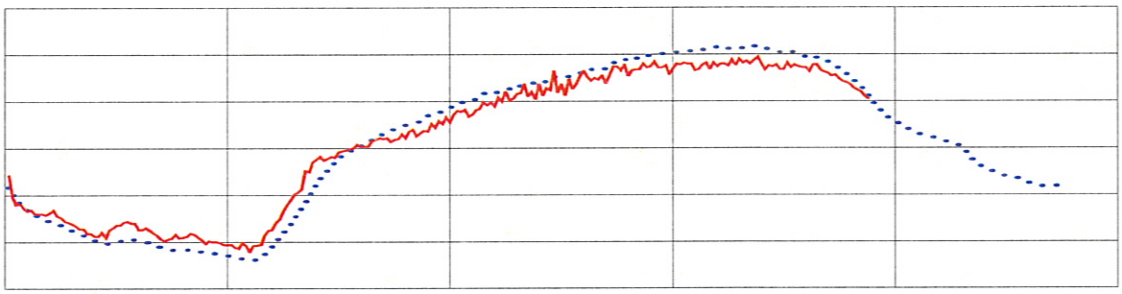
	Date dd-mmm	Time hh:mm:ss
Start:	18-01-jun	0:00:08
Stop:	18-02-jun	0:00:05

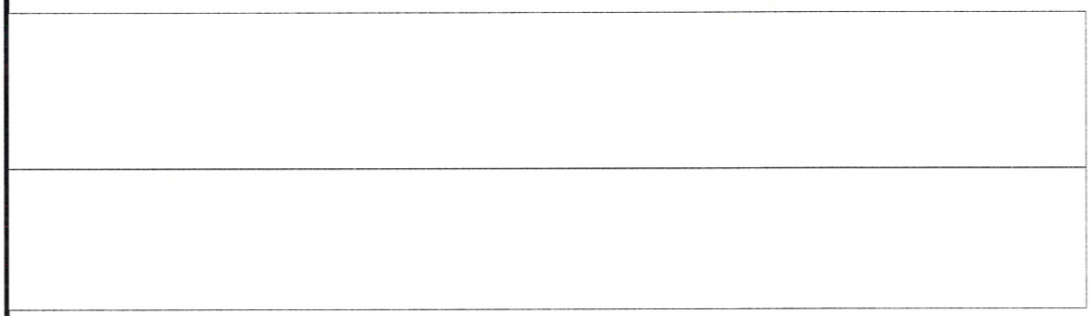
ET: 23:59

Mass Concentration Data:

Filter ID:	39	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





Overheat, TF-

18-01-jun	0:05:08	588	8.8	8.6	-0.2	26	16.71
18-01-jun	1:05:08	588	6.8	6.1	-0.7	26	16.71
18-01-jun	2:05:08	588	6.5	5.0	-1.5	26	16.71
18-01-jun	3:05:08	588	5.7	4.5	-1.2	26	16.71
18-01-jun	4:05:08	589	5.2	3.8	-1.3	26	16.72
18-01-jun	5:05:08	589	4.9	3.4	-1.5	26	16.69
18-01-jun	6:05:08	590	10.4	7.8	-2.6	26	16.71
18-01-jun	7:05:08	591	14.5	13.8	-0.8	27	16.71
18-01-jun	8:05:08	591	15.9	16.5	0.6	28	16.71
18-01-jun	9:05:08	591	17.2	18.4	1.2	29	16.71
18-01-jun	10:05:08	591	19.2	20.2	1.1	29	16.69
18-01-jun	11:05:08	591	20.8	21.5	0.7	30	16.71
18-01-jun	12:05:08	591	21.8	22.6	0.8	30	16.71
18-01-jun	13:05:08	591	22.9	23.8	0.9	30	16.71
18-01-jun	14:05:08	591	23.6	24.9	1.3	31	16.70
18-01-jun	15:05:08	591	23.8	25.4	1.6	31	16.71
18-01-jun	16:05:08	591	24.2	25.7	1.5	31	16.71
18-01-jun	17:05:08	591	23.7	25.2	1.5	31	16.71
18-01-jun	18:05:08	592	22.9	23.9	1.0	31	16.70
18-01-jun	19:05:08	592	19.8	19.9	0.1	30	16.71
18-01-jun	20:05:08	592	17.8	16.6	-1.2	30	16.71
18-01-jun	21:05:08	593	15.6	14.5	-1.1	29	16.70
18-01-jun	22:05:08	593	13.2	11.9	-1.3	29	16.72
18-01-jun	23:05:08	593	12.9	10.9	-2.0	29	16.71

BGI PQ200 Air Sampling System Downloaded 2018 08 jun 12:09:32

Job Details:

Job Name: 18Jun08B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6309:37
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	592	587	590	mmHg
TA	27.8	7.3	17.5	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 2.3 °C
occured 07-jun 15:07:57

Timer Information:

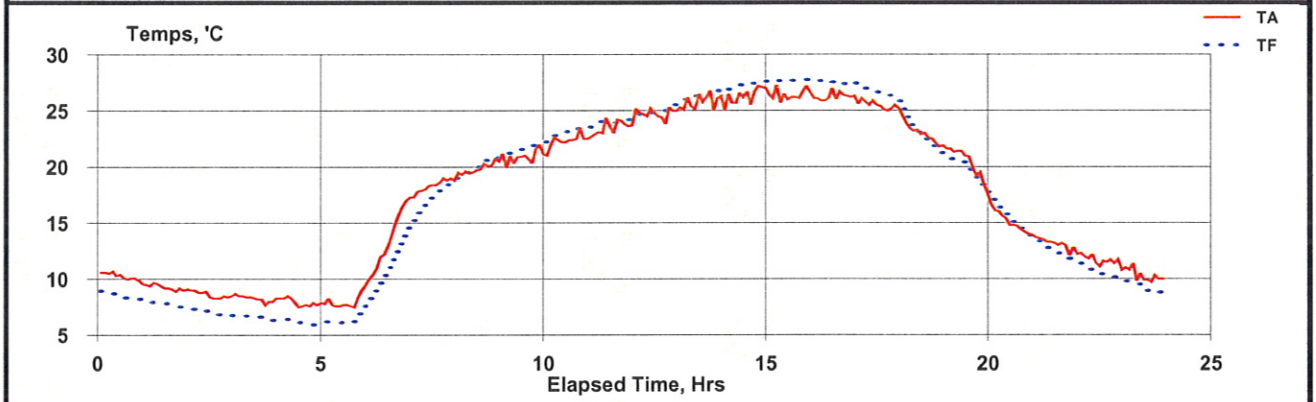
	Date dd-mmm	Time hh:mm:ss
Start:	18-07-jun	0:00:08
Stop:	18-08-jun	0:00:04

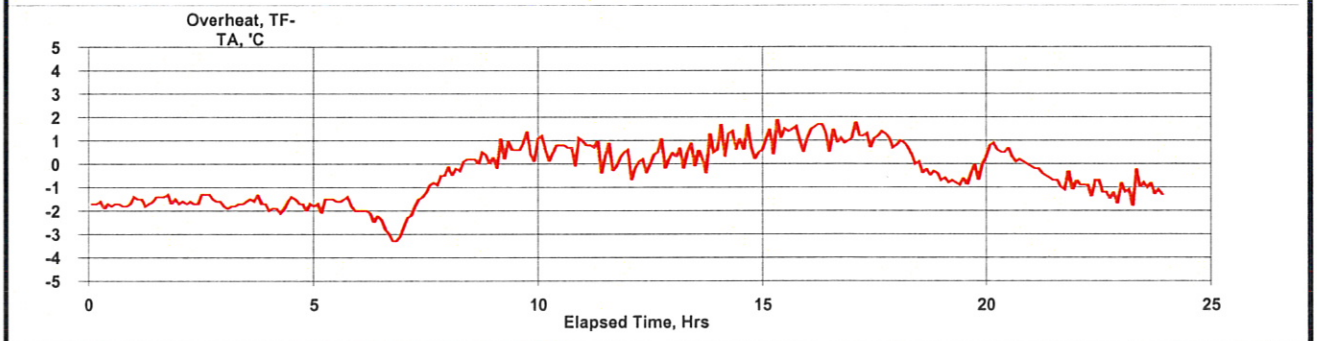
ET: 23:59

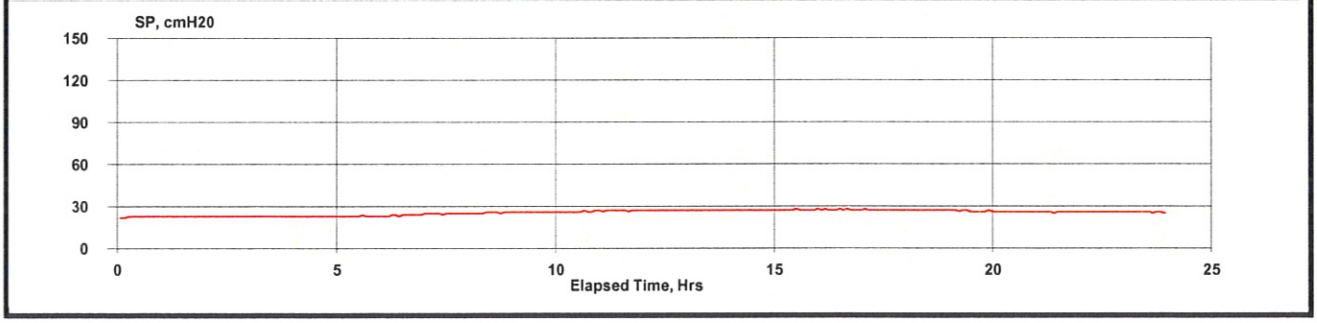
Mass Concentration Data:

Filter ID:	12	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-07-jun	0:05:08	589	10.2	8.5	-1.7	23	16.70
18-07-jun	1:05:08	589	9.3	7.7	-1.5	23	16.71
18-07-jun	2:05:08	589	8.6	7.0	-1.6	23	16.72
18-07-jun	3:05:08	589	8.3	6.6	-1.7	23	16.71
18-07-jun	4:05:08	590	7.9	6.2	-1.8	23	16.71
18-07-jun	5:05:08	590	8.0	6.3	-1.7	23	16.71
18-07-jun	6:05:08	590	13.7	11.1	-2.6	24	16.71
18-07-jun	7:05:08	591	18.4	17.2	-1.2	25	16.71
18-07-jun	8:05:08	591	19.9	20.0	0.1	26	16.71
18-07-jun	9:05:08	591	20.9	21.6	0.7	26	16.71
18-07-jun	10:05:08	591	22.3	23.0	0.7	26	16.70
18-07-jun	11:05:08	591	23.5	23.9	0.4	27	16.71
18-07-jun	12:05:08	591	24.8	24.9	0.1	27	16.70
18-07-jun	13:05:08	591	25.8	26.2	0.4	27	16.71
18-07-jun	14:05:08	591	26.3	27.2	0.9	27	16.71
18-07-jun	15:05:08	590	26.4	27.6	1.2	27	16.71
18-07-jun	16:05:08	590	26.3	27.5	1.2	27	16.69
18-07-jun	17:05:08	590	25.5	26.6	1.2	27	16.70
18-07-jun	18:05:08	590	22.9	23.0	0.1	27	16.70
18-07-jun	19:05:08	590	20.3	19.8	-0.5	26	16.71
18-07-jun	20:05:08	591	15.0	15.4	0.4	26	16.71
18-07-jun	21:05:08	591	13.1	12.5	-0.6	26	16.71
18-07-jun	22:05:08	592	11.6	10.5	-1.1	26	16.71
18-07-jun	23:05:08	592	10.3	9.2	-1.1	26	16.71

BGI PQ200 Air Sampling System Downloaded 2018 14 jun 14:20:15

Job Details:

Job Name: 18Jun14B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6333:36
Flags:

Job Code:
Site Name: 963B
Station Code:
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	592	589	590	mmHg
TA	31.7	8	20.7	°C
Q	---	---	16.7	Lpm

QCV	0.47	%
Max overheat	2.8	°C
occured	13-jun 14:56:12	

Timer Information:

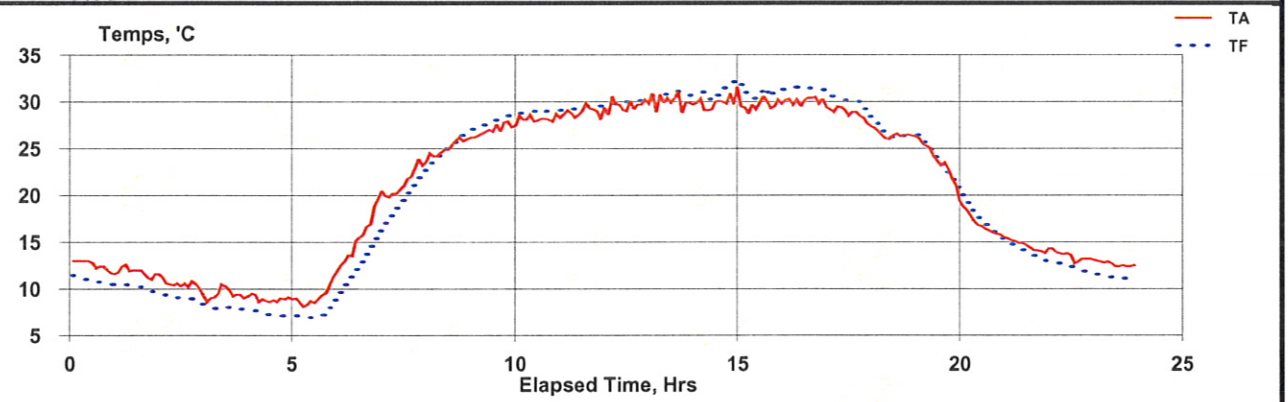
	Date dd-mmm	Time hh:mm:ss
Start:	18-13-jun	0:00:08
Stop:	18-14-jun	0:00:04

ET: 23:59

Mass Concentration Data:

Filter ID:	23	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



18-13-jun	0:05:08	591	12.5	10.9	-1.6	22	16.71
18-13-jun	1:05:08	591	11.8	10.1	-1.7	22	16.70
18-13-jun	2:05:08	591	10.4	9.0	-1.5	22	16.71
18-13-jun	3:05:08	591	9.4	7.9	-1.5	22	16.70
18-13-jun	4:05:08	591	8.9	7.3	-1.6	22	16.71
18-13-jun	5:05:08	591	9.4	7.4	-2.0	22	16.71
18-13-jun	6:05:08	592	16.0	12.7	-3.3	23	16.71
18-13-jun	7:05:08	592	21.6	19.7	-1.9	24	16.71
18-13-jun	8:05:08	592	25.2	25.1	-0.1	25	16.71
18-13-jun	9:05:08	592	27.1	27.9	0.8	26	16.71
18-13-jun	10:05:08	592	28.2	28.9	0.7	26	16.70
18-13-jun	11:05:08	592	28.9	29.4	0.4	26	16.70
18-13-jun	12:05:08	591	29.6	29.9	0.3	26	16.70
18-13-jun	13:05:08	591	30.1	30.7	0.7	27	16.70
18-13-jun	14:05:08	591	30.0	31.1	1.1	27	16.71
18-13-jun	15:05:08	590	29.7	31.0	1.3	27	16.69
18-13-jun	16:05:08	590	30.1	31.4	1.3	27	16.71
18-13-jun	17:05:08	590	28.7	29.9	1.2	27	16.71
18-13-jun	18:05:08	590	26.5	26.7	0.2	27	16.70
18-13-jun	19:05:08	590	23.5	23.7	0.3	26	16.70
18-13-jun	20:05:08	590	16.8	17.4	0.6	26	16.71
18-13-jun	21:05:08	590	14.6	13.9	-0.7	25	16.71
18-13-jun	22:05:08	590	13.5	12.2	-1.2	25	16.71
18-13-jun	23:05:08	590	12.6	11.2	-1.4	25	16.71

BGI PQ200 Air Sampling System Downloaded 2018 22 jun 09:42:36

Job Details:

Job Name: 18Jun22B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6357:35
Flags:

Job Code:
Site Name:
Station Code: 963B
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	593	588	591	mmHg
TA	27.5	2.5	17.3	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 2.9 °C
occured 19-jun 15:26:22

Timer Information:

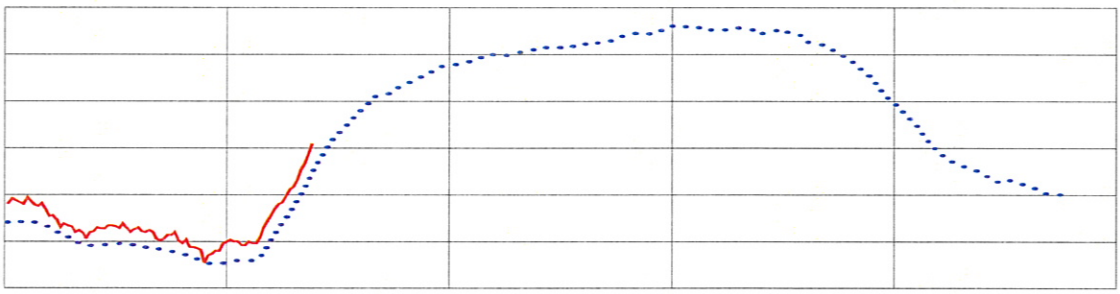
	Date dd-mmm	Time hh:mm:ss
Start:	18-19-jun	0:00:08
Stop:	18-20-jun	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	5	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:



Overheat, TF-

18-19-jun	0:05:08	591	9.0	7.0	-2.1	32	16.71
18-19-jun	1:05:08	591	6.4	5.2	-1.3	32	16.70
18-19-jun	2:05:08	591	6.5	4.7	-1.8	32	16.70
18-19-jun	3:05:08	591	5.6	4.1	-1.5	32	16.71
18-19-jun	4:05:08	591	4.2	2.9	-1.3	32	16.71
18-19-jun	5:05:08	591	5.5	3.3	-2.2	32	16.70
18-19-jun	6:05:08	591	11.8	9.1	-2.7	33	16.71
18-19-jun	7:05:08	592	18.2	16.5	-1.7	34	16.71
18-19-jun	8:05:08	592	20.3	20.6	0.4	36	16.70
18-19-jun	9:05:08	592	21.9	22.9	1.0	37	16.70
18-19-jun	10:05:08	592	23.2	24.4	1.2	37	16.71
18-19-jun	11:05:08	592	24.0	25.2	1.2	37	16.71
18-19-jun	12:05:08	592	25.1	25.8	0.7	37	16.71
18-19-jun	13:05:08	592	25.8	26.5	0.7	38	16.70
18-19-jun	14:05:08	592	26.0	27.4	1.4	38	16.70
18-19-jun	15:05:08	592	26.3	27.8	1.6	38	16.70
18-19-jun	16:05:08	591	26.0	27.6	1.6	38	16.70
18-19-jun	17:05:08	591	26.0	27.3	1.4	38	16.70
18-19-jun	18:05:08	591	24.6	25.5	1.0	38	16.70
18-19-jun	19:05:08	592	21.8	22.1	0.3	37	16.71
18-19-jun	20:05:08	592	17.1	17.1	0.0	37	16.71
18-19-jun	21:05:08	592	13.8	13.2	-0.6	37	16.71
18-19-jun	22:05:08	592	12.9	11.4	-1.5	36	16.71
18-19-jun	23:05:08	592	11.7	10.2	-1.5	36	16.71

Collocated Monitor 964C

PM_{10} Sampler Summary

April 1, 2018 - June 30, 2018

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-C **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
04/02/18	P2946890	**10.3**	**12.6**	24:00	24.0	19.6	377.995	378.243	0.248	HT	
04/08/18	P2947090	**7.2**	**8.8**	23:59	24.0	19.7	365.754	365.929	0.175	HT	
04/14/18	P2947095	**7.1**	**8.6**	23:59	24.0	20.1	372.896	373.069	0.173		
04/20/18	P2947100	**18.6**	**22.2**	23:59	24.0	20.1	373.078	373.527	0.449		
04/26/18	P2947325	**34.4**	**42.5**	23:59	24.0	19.4	386.786	387.613	0.827		
05/02/18	P2947331	**Invalid - AG**	**Invalid - AG**	13:24	13.4	11.2	377.314	377.427	0.113	SP,FE,HT	
05/08/18	P2947559	**40.9**	**51.1**	23:59	24.0	19.3	369.516	370.501	0.985		
05/14/18	P2947565	**32.1**	**39.4**	23:59	24.0	19.6	370.423	371.195	0.772		
05/20/18	P2947771	**Invalid - AG**	**Invalid - AG**	6:58	7.0	5.8	373.439	373.477	0.038	SP,FE	
05/26/18	P2947776	**Invalid - AG**	**Invalid - AG**	6:01	6.0	4.7	376.583	377.317	0.734	SP	
06/01/18	P2947781	**10.5**	**13.0**	23:59	24.0	19.3	370.547	370.800	0.253		
06/07/18	P2948033	**25.6**	**32.0**	23:59	24.0	19.2	378.472	379.088	0.616		
06/13/18	P2948039	**41.1**	**52.0**	23:59	24.0	19.0	373.285	374.273	0.988		
06/19/18	P2948232	**28.2**	**35.2**	23:59	24.0	19.2	370.543	371.222	0.679		
06/25/18	P2948238	**31.7**	**40.1**	23:59	24.0	19.0	370.953	371.716	0.763		
05/09/18	P2947562		**Field Blank**				373.864	373.872	0.008		

# Valid	Recovery	Average	St. Dev.	Max	Min
12	**80%**	**29.8**	**16.1**	**52.0**	**8.6**

Downloaded 2018 05 apr 10:47:28

Job Details:

Job Name:	18Apr05C.JOB
Version:	5.62
Serial No:	964
Pump Time:	706:13
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	589	585	586	mmHg
TA	18	-0.8	8.7	°C
Q	---	---	16.71	Lpm

QCV	0.54 %
Max overheat	2.6 °C
occured	02-apr 14:18:02

Timer Information:

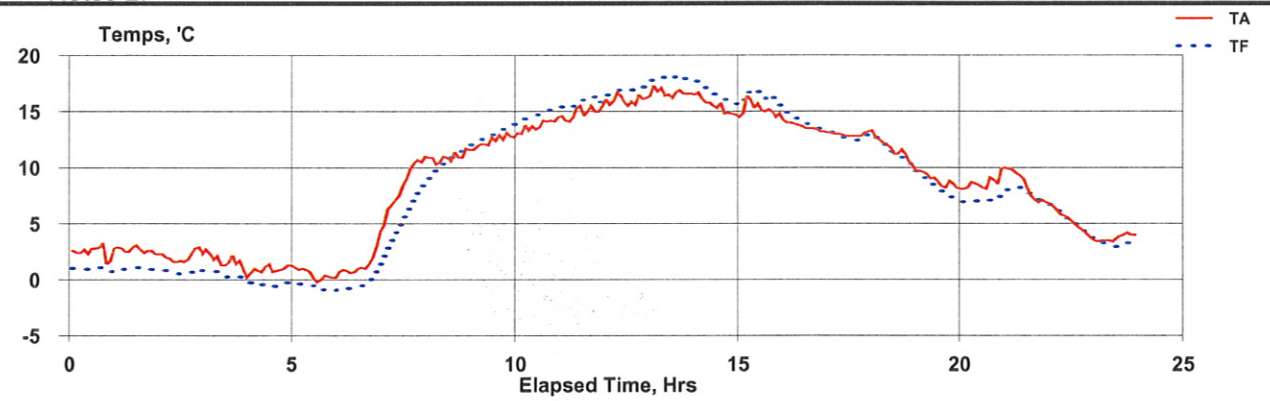
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-apr	0:00:08
Stop:	18-03-apr	0:00:04
ET:	24:00:00	

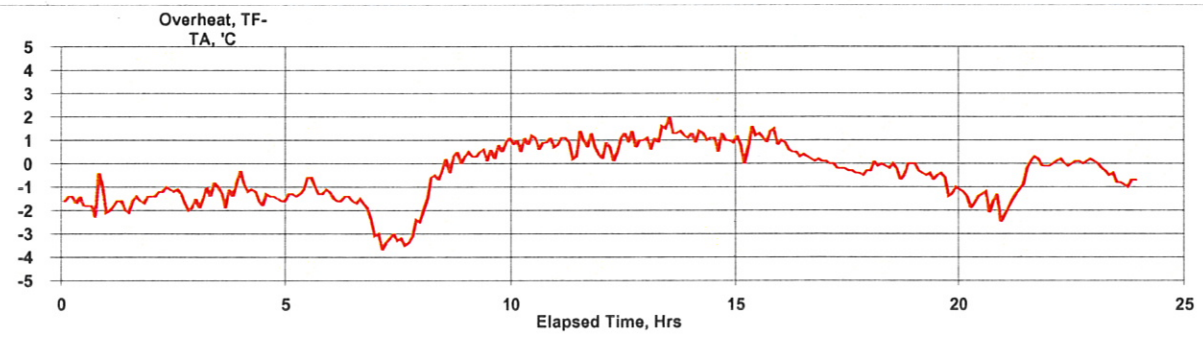
Mass Concentration Data:

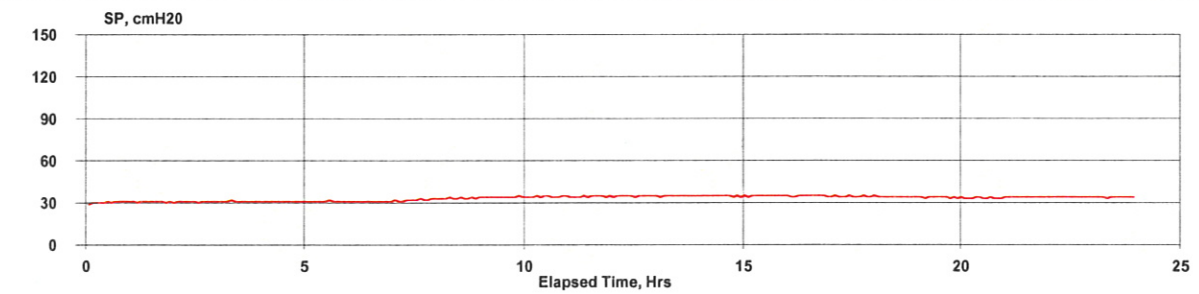
Filter ID:	18	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-02-apr	0:04:56	588	2.5	1.0	-1.6	30	16.71
18-02-apr	1:04:56	588	2.6	0.9	-1.7	31	16.71
18-02-apr	2:04:56	587	2.1	0.7	-1.4	31	16.72
18-02-apr	3:04:56	587	1.6	0.4	-1.2	31	16.72
18-02-apr	4:04:56	587	1.0	-0.4	-1.4	31	16.73
18-02-apr	5:04:56	587	0.5	-0.7	-1.1	31	16.72
18-02-apr	6:04:56	587	1.5	-0.3	-1.8	31	16.71
18-02-apr	7:04:56	587	8.5	5.4	-3.1	32	16.71
18-02-apr	8:04:56	587	11.0	10.6	-0.4	33	16.71
18-02-apr	9:04:56	587	12.4	12.9	0.5	34	16.71
18-02-apr	10:04:56	587	13.8	14.6	0.9	34	16.72
18-02-apr	11:04:56	586	14.9	15.7	0.8	35	16.70
18-02-apr	12:04:56	586	16.0	16.8	0.8	35	16.71
18-02-apr	13:04:56	586	16.7	17.9	1.3	35	16.72
18-02-apr	14:04:56	585	15.6	16.6	1.1	35	16.71
18-02-apr	15:04:56	585	15.2	16.2	1.0	35	16.71
18-02-apr	16:04:56	585	13.7	14.1	0.4	35	16.71
18-02-apr	17:04:56	585	13.0	12.7	-0.2	34	16.71
18-02-apr	18:04:56	585	11.7	11.5	-0.2	34	16.71
18-02-apr	19:04:56	585	8.9	8.3	-0.6	34	16.71
18-02-apr	20:04:56	586	8.6	7.0	-1.6	33	16.71
18-02-apr	21:04:56	587	8.4	7.7	-0.7	34	16.72
18-02-apr	22:04:56	587	5.3	5.4	0.0	34	16.71
18-02-apr	23:04:56	588	3.7	3.2	-0.5	34	16.72

BGI PQ200 Air Sampling System Downloaded 2018 10 apr 10:59:16

Job Details:

Job Name: 18Apr10C.JOB
Version: 5.62
Serial No: 964
Pump Time: 730:12
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	593	585	589	mmHg
TA	16	-0.9	8.3	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 2.6 °C
occured 08-apr 11:13:08

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-08-apr	0:00:08
Stop:	18-09-apr	0:00:05

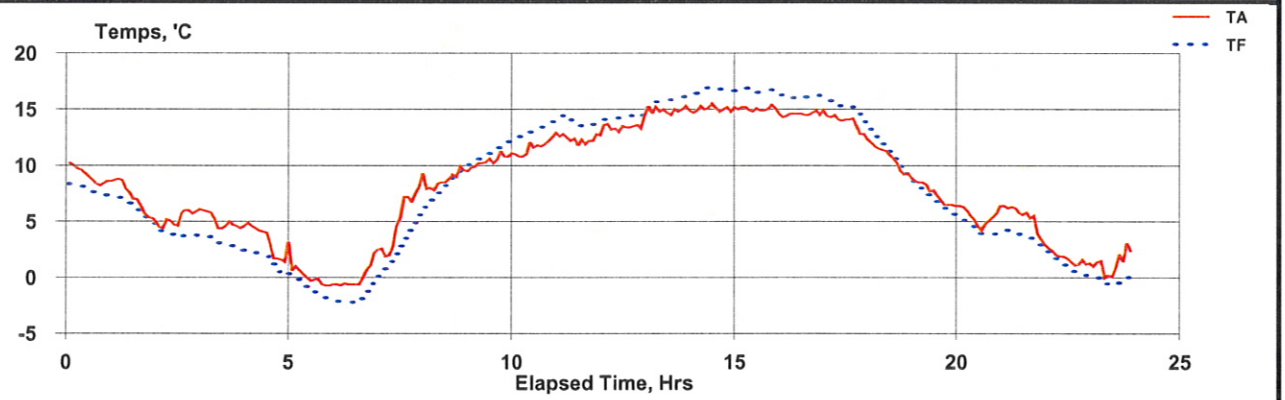
ET: 23:59

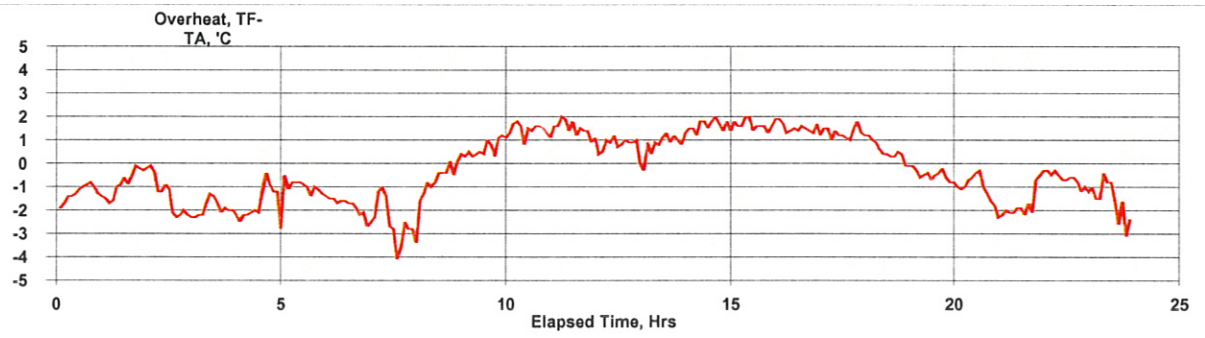
Mass Concentration Data:

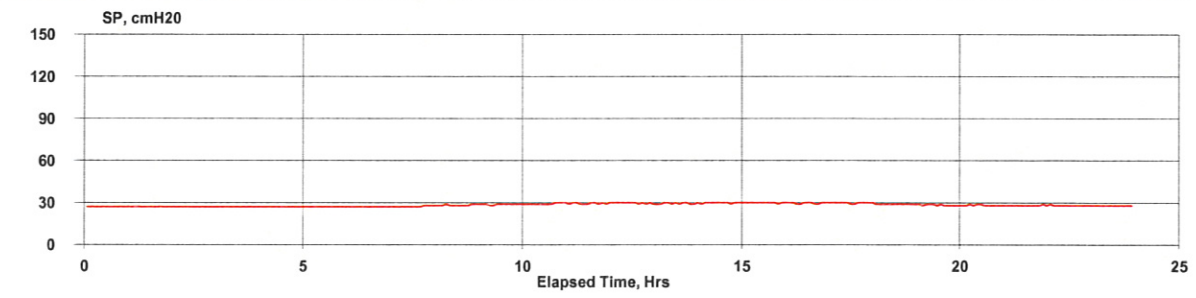
Filter ID: 28
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.039 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-08-apr	0:05:08	587	9.1	7.8	-1.3	27	16.71
18-08-apr	1:05:08	587	7.0	6.2	-0.8	27	16.71
18-08-apr	2:05:08	587	5.3	3.8	-1.5	27	16.71
18-08-apr	3:05:08	588	5.0	3.1	-1.9	27	16.71
18-08-apr	4:05:08	588	3.2	1.5	-1.7	27	16.71
18-08-apr	5:05:08	588	-0.1	-1.1	-1.0	27	16.71
18-08-apr	6:05:08	589	0.2	-1.7	-1.9	27	16.72
18-08-apr	7:05:08	589	5.4	2.9	-2.6	27	16.71
18-08-apr	8:05:08	590	8.8	8.2	-0.6	28	16.71
18-08-apr	9:05:08	590	10.5	11.1	0.7	29	16.71
18-08-apr	10:05:08	590	11.7	13.1	1.4	29	16.71
18-08-apr	11:05:08	590	12.4	13.9	1.5	30	16.70
18-08-apr	12:05:08	590	13.5	14.3	0.8	30	16.71
18-08-apr	13:05:08	590	14.9	15.8	0.9	30	16.71
18-08-apr	14:05:08	590	15.1	16.7	1.6	30	16.72
18-08-apr	15:05:08	590	15.0	16.7	1.7	30	16.69
18-08-apr	16:05:08	590	14.6	16.1	1.5	30	16.70
18-08-apr	17:05:08	591	13.8	15.1	1.3	30	16.74
18-08-apr	18:05:08	591	10.5	11.0	0.5	29	16.71
18-08-apr	19:05:08	591	7.5	7.0	-0.5	28	16.71
18-08-apr	20:05:08	592	5.5	4.4	-1.1	28	16.71
18-08-apr	21:05:08	592	5.3	3.6	-1.6	28	16.71
18-08-apr	22:05:08	592	1.7	1.0	-0.7	28	16.71
18-08-apr	23:05:08	592	1.3	-0.3	-1.6	28	16.72

BGI PQ200 Air Sampling System Downloaded 2018 16 apr 14:10:20

Job Details:

Job Name: 18Apr16C.JOB
Version: 5.62
Serial No: 964
Pump Time: 754:11
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	597	593	595	mmHg
TA	16.9	-3.3	6.2	°C
Q	---	---	16.7	Lpm

QCV	0.57 %
Max overheat	3.6 °C
occured	14-apr 14:30:46

Timer Information:

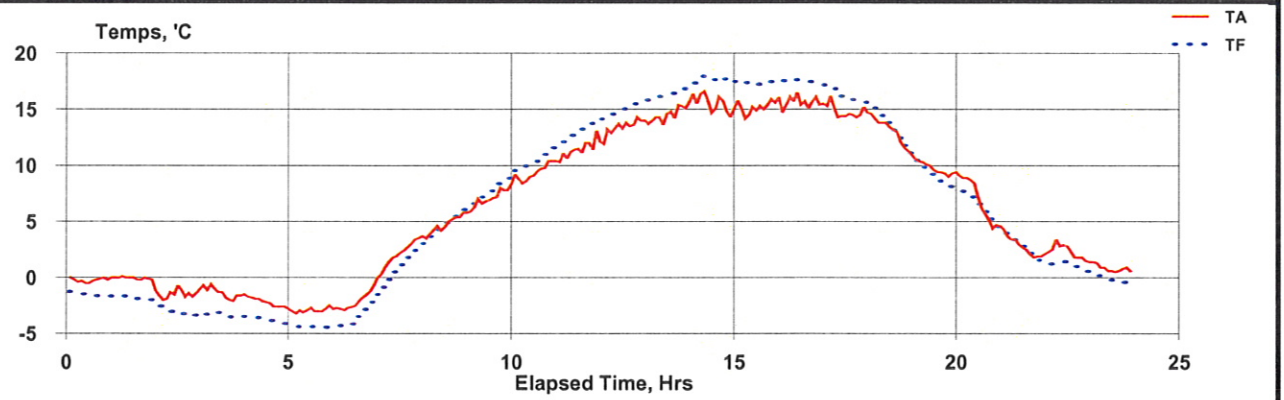
	Date dd-mmm	Time hh:mm:ss
Start:	18-14-apr	0:00:08
Stop:	18-15-apr	0:00:05

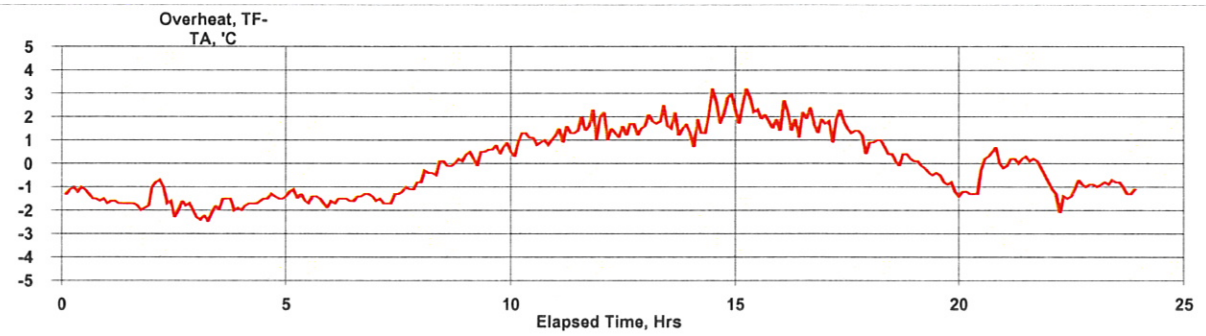
ET: 23:59

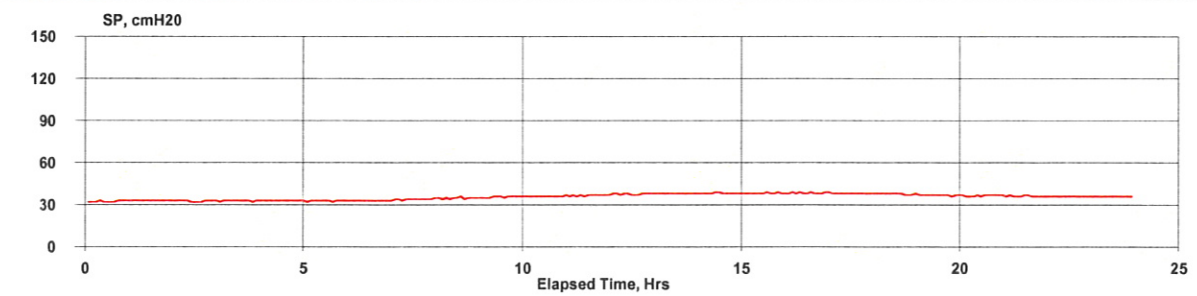
Mass Concentration Data:

Filter ID:	35	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-14-apr	0:05:08	596	-0.2	-1.5	-1.3	32	16.72
18-14-apr	1:05:08	596	-0.2	-1.8	-1.7	33	16.71
18-14-apr	2:05:08	596	-1.4	-3.1	-1.6	33	16.72
18-14-apr	3:05:08	596	-1.4	-3.3	-2.0	33	16.71
18-14-apr	4:05:08	596	-2.3	-3.8	-1.6	33	16.70
18-14-apr	5:05:08	596	-2.9	-4.4	-1.5	33	16.71
18-14-apr	6:05:08	597	-2.0	-3.4	-1.5	33	16.71
18-14-apr	7:05:08	597	2.3	1.0	-1.3	34	16.72
18-14-apr	8:05:08	597	4.8	4.7	-0.1	35	16.74
18-14-apr	9:05:08	597	7.2	7.7	0.5	36	16.72
18-14-apr	10:05:08	597	9.4	10.4	1.0	36	16.71
18-14-apr	11:05:08	596	11.5	13.0	1.5	37	16.70
18-14-apr	12:05:08	596	13.5	14.9	1.5	38	16.71
18-14-apr	13:05:08	595	14.6	16.3	1.7	38	16.72
18-14-apr	14:05:08	595	15.5	17.6	2.1	38	16.71
18-14-apr	15:05:08	594	15.3	17.4	2.1	38	16.71
18-14-apr	16:05:08	594	15.6	17.5	1.9	38	16.70
18-14-apr	17:05:08	594	14.8	16.2	1.4	38	16.71
18-14-apr	18:05:08	594	13.0	13.4	0.5	38	16.71
18-14-apr	19:05:08	594	9.7	9.1	-0.6	37	16.71
18-14-apr	20:05:08	594	6.8	6.4	-0.4	37	16.71
18-14-apr	21:05:08	595	2.7	2.7	0.0	36	16.71
18-14-apr	22:05:08	595	2.3	1.1	-1.2	36	16.71
18-14-apr	23:05:08	594	0.8	-0.1	-1.0	36	16.70

BGI PQ200 Air Sampling System Downloaded 2018 23 apr 09:57:44

Job Details:

Job Name:	18Apr23C.JOB
Version:	5.62
Serial No:	964
Pump Time:	778:10
Flags:	

Job Code:	
Site Name:	964C
Station Code:	
Operators:	KN
User1:	
User2:	

	Max	Min	Avg	Units
BP	594	584	588	mmHg
TA	9.5	-3.7	2.2	°C
Q	---	---	16.71	Lpm

QCV	0.53 %
Max overheat	3.4 °C
occured	20-apr 13:17:43

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-20-apr	0:00:08
Stop:	18-21-apr	0:00:04

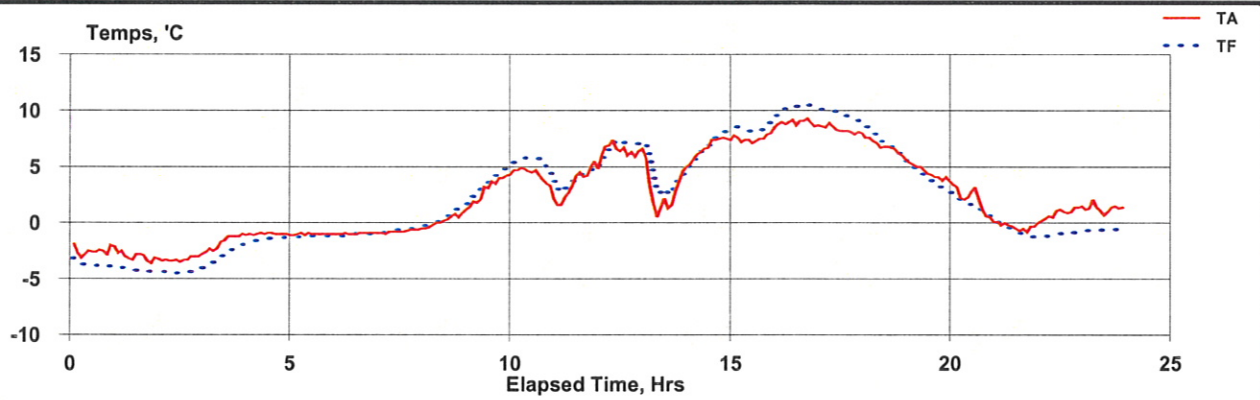
ET: 23:59

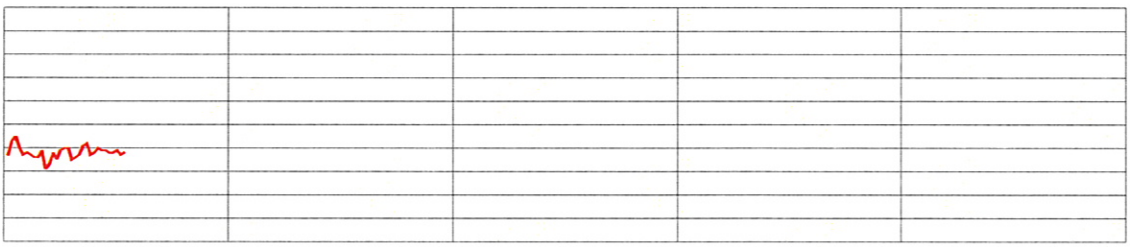
Mass Concentration Data:

Filter ID:	40	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:





18-20-apr	0:05:08	586	-2.5	-3.7	-1.2	30	16.71
18-20-apr	1:05:08	586	-3.0	-4.2	-1.2	30	16.71
18-20-apr	2:05:08	586	-3.2	-4.4	-1.2	31	16.72
18-20-apr	3:05:08	586	-1.7	-2.9	-1.2	31	16.71
18-20-apr	4:05:08	586	-1.0	-1.5	-0.5	32	16.71
18-20-apr	5:05:08	586	-1.0	-1.2	-0.2	32	16.71
18-20-apr	6:05:08	586	-0.9	-1.1	-0.2	32	16.71
18-20-apr	7:05:08	586	-0.7	-0.7	0.1	32	16.70
18-20-apr	8:05:08	587	0.3	0.5	0.2	32	16.69
18-20-apr	9:05:08	587	3.1	3.6	0.5	33	16.72
18-20-apr	10:05:08	587	4.2	5.4	1.2	34	16.71
18-20-apr	11:05:08	588	3.7	3.9	0.2	33	16.71
18-20-apr	12:05:08	589	6.5	6.8	0.3	34	16.71
18-20-apr	13:05:08	590	2.8	4.0	1.2	33	16.70
18-20-apr	14:05:08	590	6.8	6.8	0.1	34	16.71
18-20-apr	15:05:08	591	7.6	8.4	0.8	34	16.71
18-20-apr	16:05:08	591	8.9	10.3	1.3	35	16.71
18-20-apr	17:05:08	592	8.3	9.7	1.4	34	16.71
18-20-apr	18:05:08	592	6.8	7.2	0.4	34	16.71
18-20-apr	19:05:08	592	4.5	4.0	-0.5	34	16.71
18-20-apr	20:05:08	593	2.0	1.5	-0.5	33	16.71
18-20-apr	21:05:08	593	-0.3	-0.7	-0.4	33	16.71
18-20-apr	22:05:08	593	0.9	-1.0	-2.0	33	16.71
18-20-apr	23:05:08	593	1.3	-0.6	-2.0	33	16.71

BGI PQ200 Air Sampling System Downloaded 2018 27 apr 09:07:09

Job Details:

Job Name:	18Apr27C.JOB
Version:	5.62
Serial No:	964
Pump Time:	802:09
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	594	591	593	mmHg
TA	24.8	3.4	14.5	°C
Q	---	---	16.7	Lpm

QCV	0.53 %
Max overheat	3.5 °C
occured	26-apr 14:11:54

Timer Information:

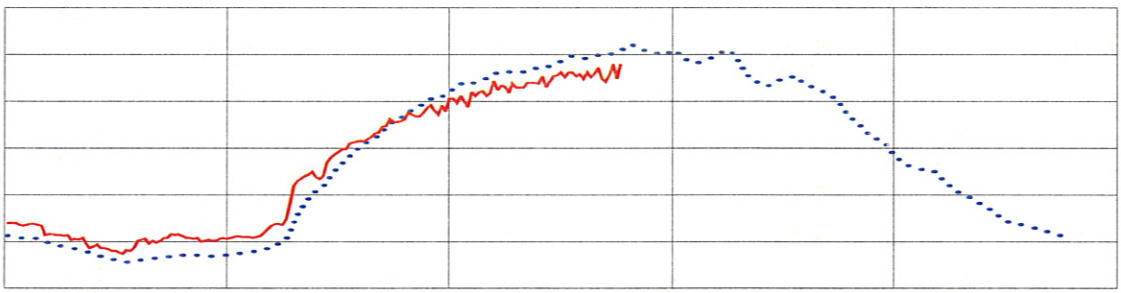
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-apr	0:00:08
Stop:	18-27-apr	0:00:05
ET:	23:59	

Mass Concentration Data:

Filter ID:	6	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:



Overheat, TF-

18-26-apr	0:05:08	594	6.7	5.3	-1.4	27	16.71
18-26-apr	1:05:08	593	5.3	4.2	-1.1	27	16.71
18-26-apr	2:05:08	593	4.2	3.0	-1.2	27	16.72
18-26-apr	3:05:08	593	5.3	3.3	-2.1	28	16.71
18-26-apr	4:05:08	593	5.3	3.5	-1.8	28	16.71
18-26-apr	5:05:08	593	5.7	3.9	-1.8	28	16.71
18-26-apr	6:05:08	594	10.0	7.2	-2.8	28	16.71
18-26-apr	7:05:08	594	14.4	12.9	-1.5	30	16.71
18-26-apr	8:05:08	594	17.1	16.9	-0.2	30	16.71
18-26-apr	9:05:08	594	19.0	19.9	0.9	31	16.70
18-26-apr	10:05:08	594	20.6	22.0	1.4	32	16.72
18-26-apr	11:05:08	594	21.6	23.2	1.6	32	16.71
18-26-apr	12:05:08	593	22.6	24.2	1.6	32	16.71
18-26-apr	13:05:08	593	23.0	25.0	2.0	32	16.72
18-26-apr	14:05:08	593	23.3	25.4	2.1	32	16.70
18-26-apr	15:05:08	592	22.5	24.6	2.0	33	16.71
18-26-apr	16:05:08	592	22.2	23.8	1.5	32	16.71
18-26-apr	17:05:08	592	21.5	22.2	0.7	32	16.71
18-26-apr	18:05:08	592	19.8	20.4	0.6	32	16.72
18-26-apr	19:05:08	592	16.4	16.3	-0.1	32	16.71
18-26-apr	20:05:08	593	13.9	12.9	-1.0	31	16.72
18-26-apr	21:05:08	593	10.6	10.2	-0.5	31	16.70
18-26-apr	22:05:08	593	8.0	7.4	-0.6	31	16.73
18-26-apr	23:05:08	593	7.1	5.9	-1.1	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 04 may 13:00:52

Job Details:

Job Name: 18May04C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1327:33
Flags: Q T

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	589	585	587	mmHg
TA	3.7	-0.3	1.2	°C
Q	---	---	16.71	Lpm

QCV 0 %

Max overheat 2.4 °C
occured 03-may 15:28:00

Timer Information:

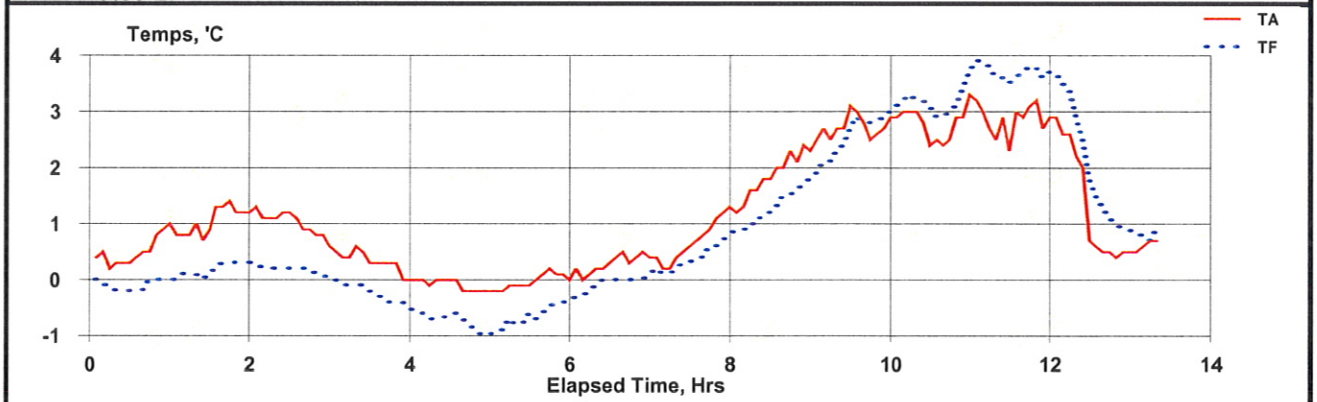
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-may	0:00:08
Stop:	18-03-may	0:00:05

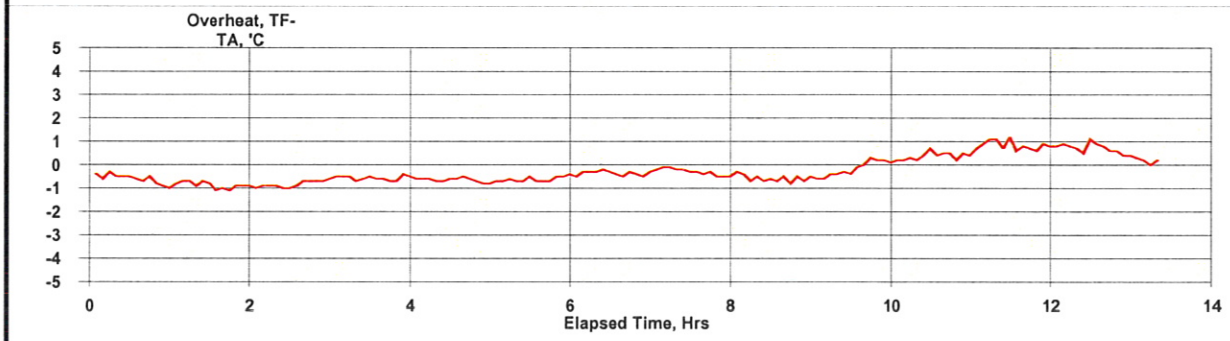
ET: 13:24

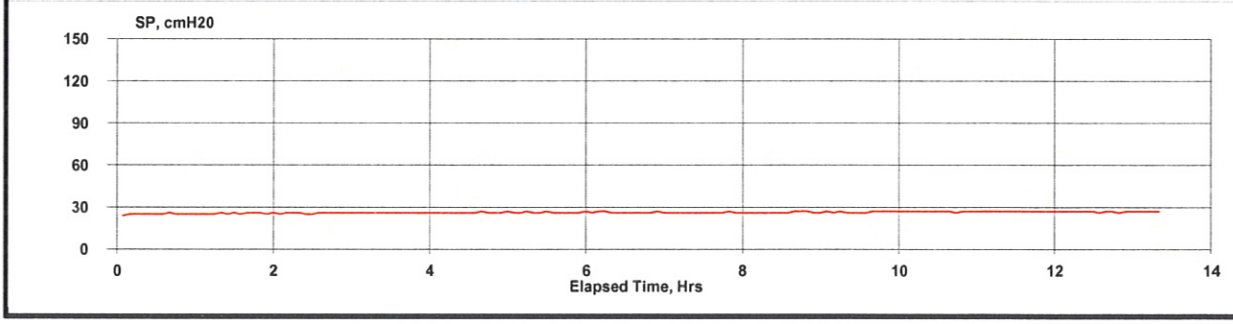
Mass Concentration Data:

Filter ID:	12	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	13.378	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-02-may	0:05:08	587	0.5	-0.1	-0.6	25	16.71
18-02-may	1:05:08	587	1.1	0.2	-0.9	26	16.71
18-02-may	2:05:08	587	1.0	0.2	-0.8	26	16.71
18-02-may	3:05:08	587	0.3	-0.2	-0.6	26	16.73
18-02-may	4:05:08	587	-0.1	-0.7	-0.7	26	16.70
18-02-may	5:05:08	587	0.0	-0.6	-0.6	26	16.71
18-02-may	6:05:08	587	0.3	-0.1	-0.4	26	16.71
18-02-may	7:05:08	587	0.7	0.4	-0.3	26	16.71
18-02-may	8:05:08	588	1.9	1.3	-0.6	26	16.71
18-02-may	9:05:08	588	2.7	2.6	-0.2	27	16.71
18-02-may	10:05:08	588	2.8	3.2	0.4	27	16.70
18-02-may	11:05:08	588	2.9	3.7	0.8	27	16.70
18-02-may	12:05:08	588	1.3	2.0	0.7	27	16.71
18-02-may	13:05:08	588	0.6	0.8	0.2	27	16.70

BGI PQ200 Air Sampling System Downloaded 2018 09 may 09:39:41

Job Details:

Job Name: 18May09C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1351:32
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	28.7	4.7	17.7	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 3.1 °C
occured 08-may 13:37:59

Timer Information:

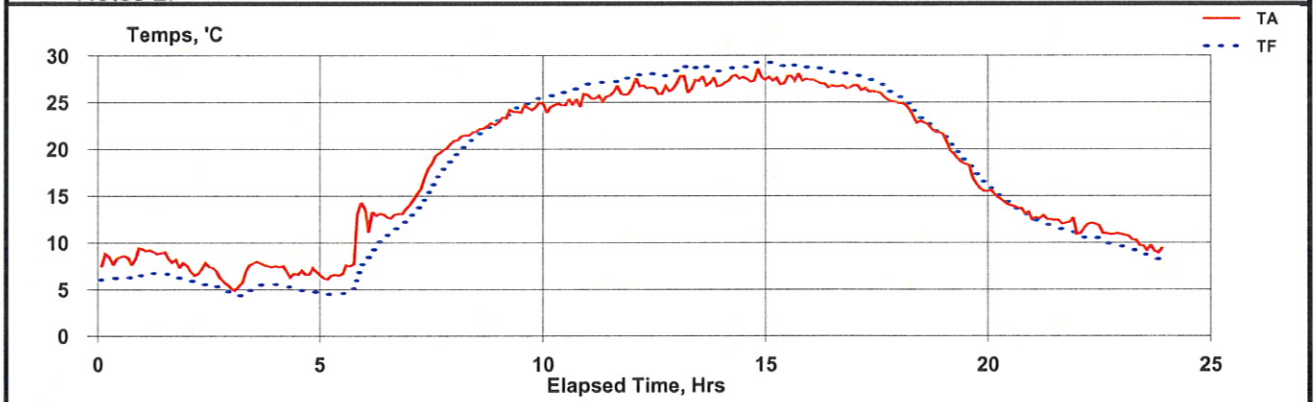
	Date dd-mmm	Time hh:mm:ss
Start:	18-08-may	0:00:08
Stop:	18-09-may	0:00:04

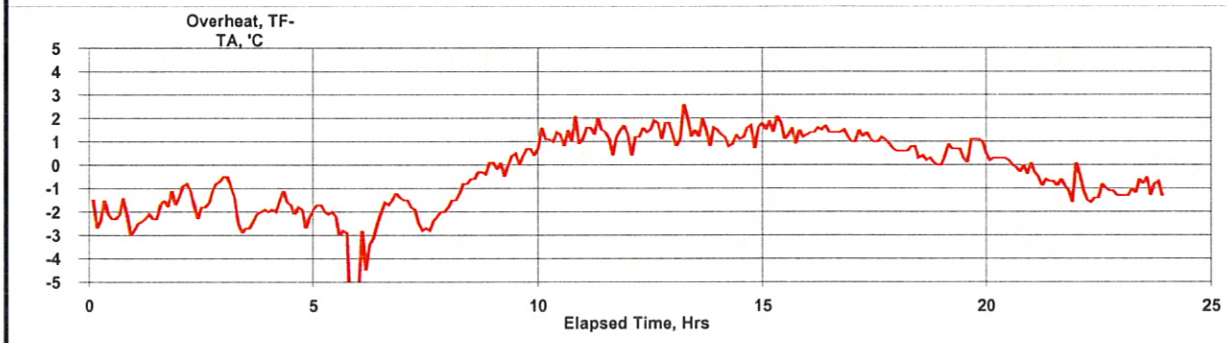
ET: 23:59

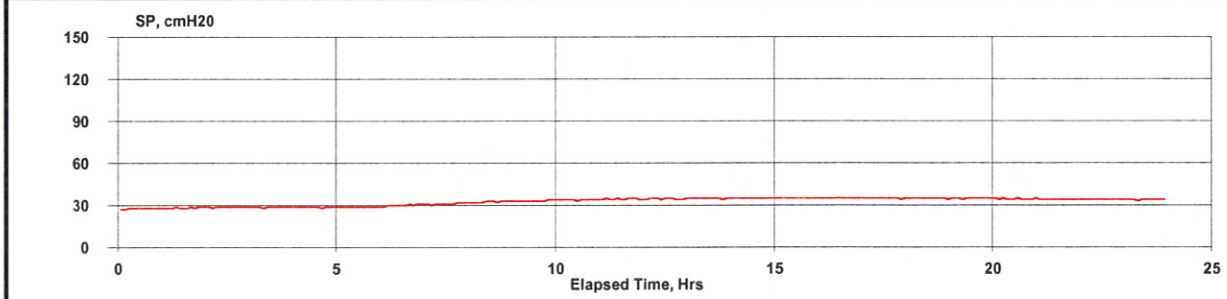
Mass Concentration Data:

Filter ID:	24	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-08-may	0:05:08	595	8.4	6.2	-2.2	28	16.70
18-08-may	1:05:08	595	8.4	6.5	-1.9	28	16.71
18-08-may	2:05:08	594	6.6	5.4	-1.3	29	16.71
18-08-may	3:05:08	595	7.0	5.0	-2.0	29	16.71
18-08-may	4:05:08	594	6.9	5.0	-1.9	29	16.71
18-08-may	5:05:08	595	8.5	5.2	-3.3	29	16.70
18-08-may	6:05:08	595	13.0	10.7	-2.3	30	16.71
18-08-may	7:05:08	595	18.3	16.1	-2.2	31	16.71
18-08-may	8:05:08	595	22.0	21.4	-0.6	33	16.71
18-08-may	9:05:08	595	24.2	24.5	0.3	33	16.71
18-08-may	10:05:08	595	24.9	26.2	1.2	34	16.70
18-08-may	11:05:08	595	25.8	27.2	1.4	34	16.70
18-08-may	12:05:08	595	26.6	28.0	1.4	35	16.71
18-08-may	13:05:08	594	27.1	28.6	1.5	35	16.72
18-08-may	14:05:08	594	27.6	28.9	1.3	35	16.70
18-08-may	15:05:08	593	27.5	28.9	1.5	35	16.70
18-08-may	16:05:08	593	26.8	28.3	1.4	35	16.71
18-08-may	17:05:08	593	25.8	26.9	1.1	35	16.71
18-08-may	18:05:08	593	23.0	23.4	0.4	35	16.71
18-08-may	19:05:08	594	17.9	18.6	0.7	35	16.71
18-08-may	20:05:08	594	14.0	14.1	0.1	34	16.71
18-08-may	21:05:08	594	12.3	11.6	-0.7	34	16.71
18-08-may	22:05:08	594	11.4	10.2	-1.2	34	16.71
18-08-may	23:05:08	594	9.8	8.8	-1.0	34	16.71

BGI PQ200 Air Sampling System Downloaded 2018 15 may 10:55:50

Job Details:

Job Name: 18May15C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1375:31
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	592	588	590	mmHg
TA	19.9	1.5	11.2	°C
Q	---	---	16.7	Lpm

QCV	0.51 %
Max overheat	3.2 °C
occured	14-may 13:31:22

Timer Information:

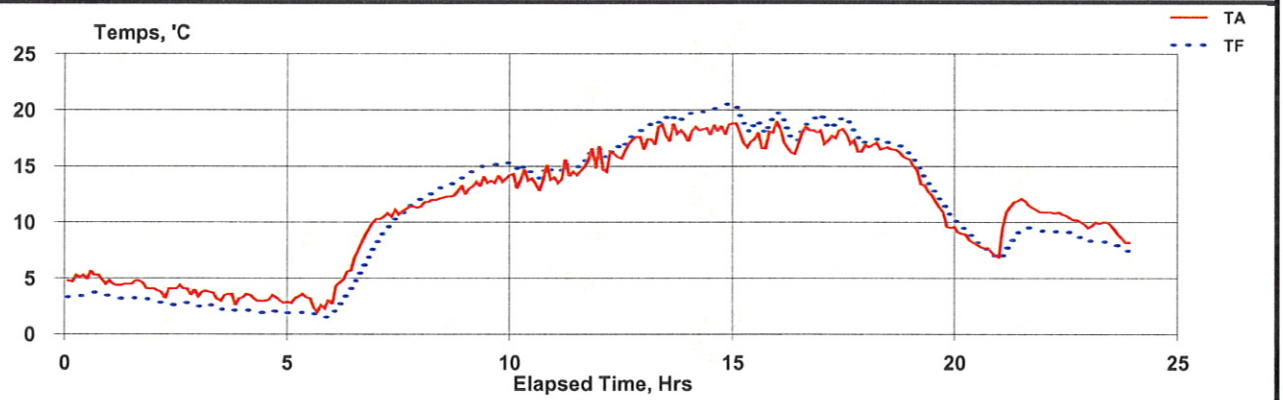
	Date dd-mmm	Time hh:mm:ss
Start:	18-14-may	0:00:08
Stop:	18-15-may	0:00:04

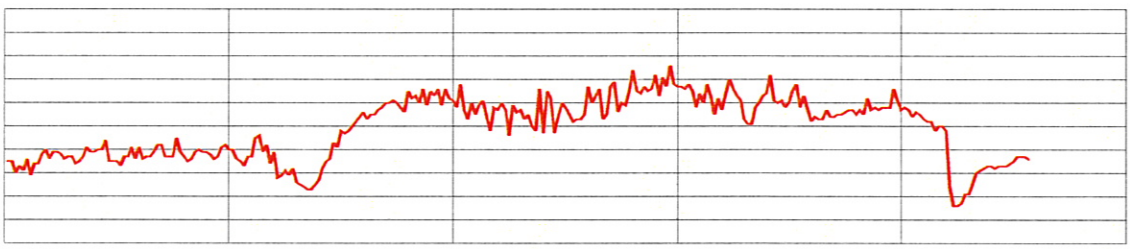
ET: 23:59

Mass Concentration Data:

Filter ID:	30	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-14-may	0:05:08	590	5.1	3.5	-1.6	26	16.71
18-14-may	1:05:08	590	4.4	3.2	-1.2	27	16.71
18-14-may	2:05:08	590	3.9	2.7	-1.2	27	16.70
18-14-may	3:05:08	590	3.4	2.3	-1.1	27	16.71
18-14-may	4:05:08	590	3.2	2.0	-1.2	27	16.71
18-14-may	5:05:08	591	2.9	1.7	-1.1	27	16.72
18-14-may	6:05:08	591	7.2	4.9	-2.3	27	16.71
18-14-may	7:05:08	591	11.0	10.5	-0.5	29	16.70
18-14-may	8:05:08	591	12.3	13.1	0.8	29	16.71
18-14-may	9:05:08	591	13.6	14.9	1.3	30	16.71
18-14-may	10:05:08	592	13.9	14.6	0.7	30	16.71
18-14-may	11:05:08	592	14.9	15.4	0.4	30	16.71
18-14-may	12:05:08	591	16.3	17.0	0.7	30	16.70
18-14-may	13:05:08	591	17.8	19.0	1.2	31	16.71
18-14-may	14:05:08	591	18.3	20.1	1.8	31	16.72
18-14-may	15:05:08	590	17.6	18.9	1.3	31	16.70
18-14-may	16:05:08	590	17.5	18.6	1.0	31	16.71
18-14-may	17:05:08	590	17.3	18.4	1.1	31	16.71
18-14-may	18:05:08	590	16.4	16.9	0.5	30	16.70
18-14-may	19:05:08	590	12.0	12.9	0.9	30	16.70
18-14-may	20:05:08	591	8.0	8.3	0.3	30	16.70
18-14-may	21:05:08	591	11.3	8.8	-2.5	30	16.71
18-14-may	22:05:08	591	10.4	8.9	-1.5	30	16.71
18-14-may	23:05:08	591	9.3	8.0	-1.3	30	16.70

BGI PQ200 Air Sampling System Downloaded 2018 22 may 12:17:03

Job Details:

Job Name:	18May22C.JOB
Version:	5.62
Serial No:	964
Pump Time:	1382:29
Flags:	Q T

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	592	589	590	mmHg
TA	12	3.9	7	°C
Q	---	---	16.71	Lpm

QCV	0.17 %
Max overheat	2.7 °C
occured	20-may 16:03:00

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-20-may	0:00:08
Stop:	18-21-may	0:00:05

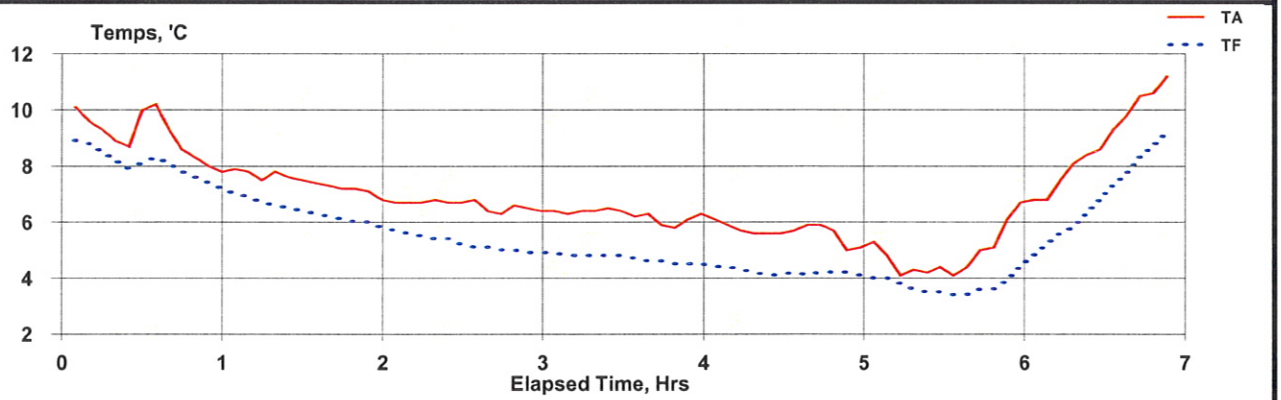
ET: 6:58

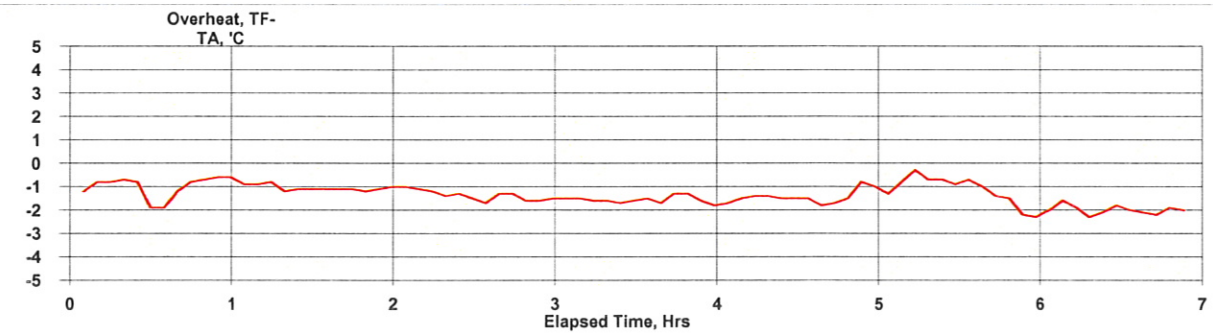
Mass Concentration Data:

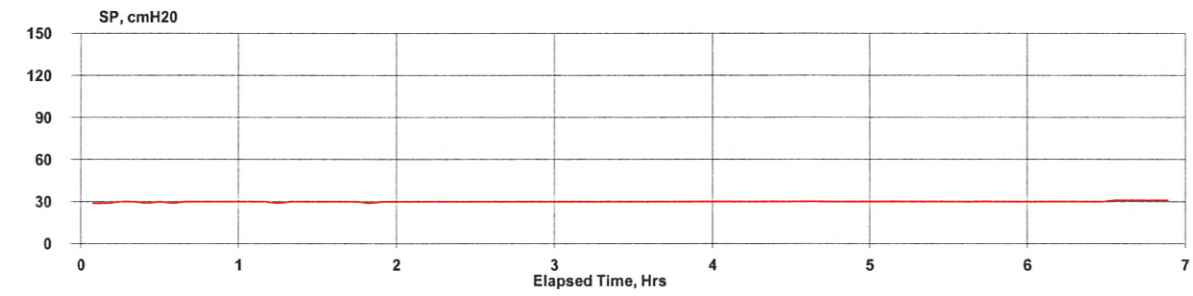
Filter ID:	19	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	6.994	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-20-may	0:05:08	591	9.1	8.1	-1.0	30	16.71
18-20-may	1:05:08	591	7.4	6.4	-1.1	30	16.72
18-20-may	2:05:08	591	6.6	5.2	-1.4	30	16.71
18-20-may	3:05:08	591	6.3	4.7	-1.6	30	16.71
18-20-may	4:05:08	591	5.7	4.2	-1.4	30	16.72
18-20-may	5:05:08	591	4.9	3.7	-1.2	30	16.71
18-20-may	6:05:08	591	8.9	6.9	-2.0	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 29 may 11:03:17

Job Details:

Job Name:	18May29C.JOB
Version:	5.62
Serial No:	964
Pump Time:	1388:30
Flags:	

Job Code:	
Site Name:	
Station Code:	
Operators:	
User1:	
User2:	

	Max	Min	Avg	Units
BP	592	590	591	mmHg
TA	21.6	21.2	21.5	°C
Q	---	---	16.7	Lpm

QCV	0 %
Max overheat	1.4 °C
occured	29-may 11:01:06

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-29-may	10:56:00
Stop:	18-29-may	10:56:12

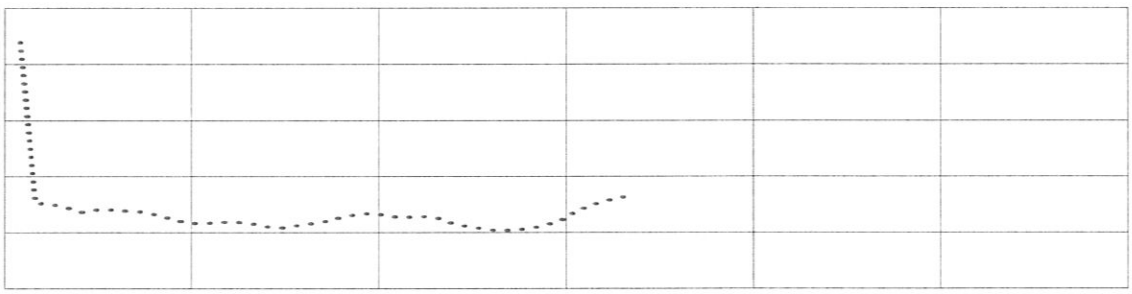
ET: 6:01

Mass Concentration Data:

Filter ID:	35	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	6.025	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:



Overheat, TF-

18-29-may	11:02:49	590	9.3	7.3	-2.0	30	16.47

BGI PQ200 Air Sampling System Downloaded 2018 04 jun 15:17:24

Job Details:

Job Name: 18Jun04C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1412:29
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	595	588	592	mmHg
TA	25.5	3.7	15.9	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 3.1 °C
occured 03-jun 12:49:25

Timer Information:

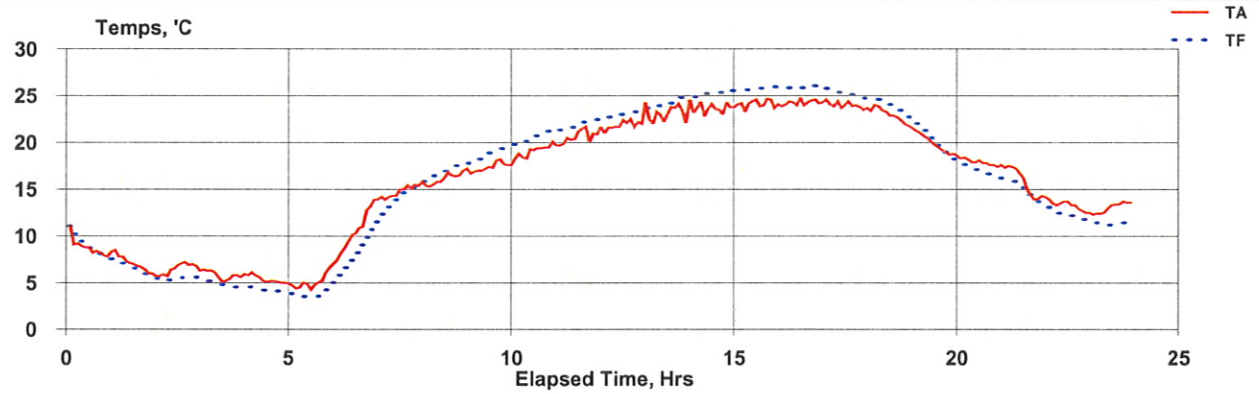
	Date dd-mmm	Time hh:mm:ss
Start:	18-01-jun	0:00:08
Stop:	18-02-jun	0:00:05

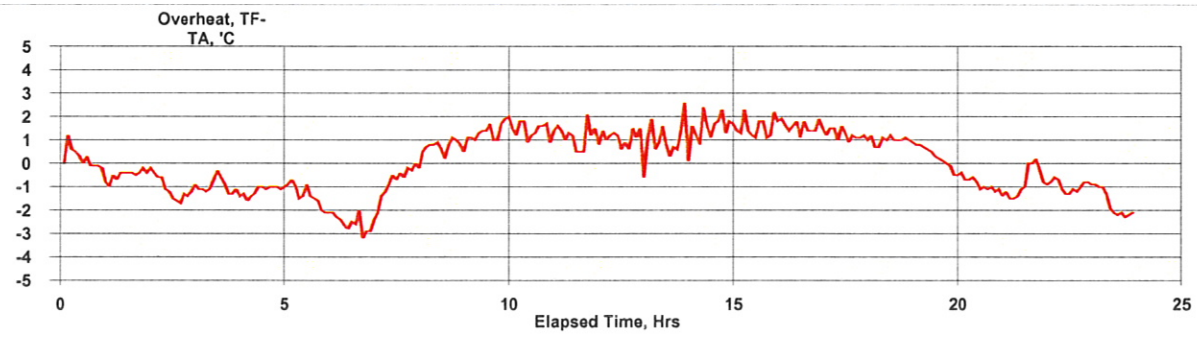
ET: 23:59

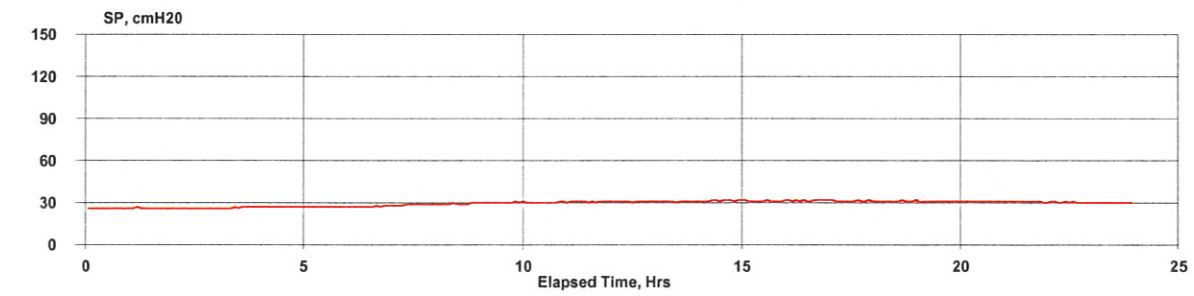
Mass Concentration Data:

Filter ID:	40	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-01-jun	0:05:08	590	8.7	8.8	0.1	26	16.72
18-01-jun	1:05:08	590	6.9	6.5	-0.5	26	16.71
18-01-jun	2:05:08	590	6.5	5.4	-1.1	26	16.71
18-01-jun	3:05:08	591	5.8	4.8	-1.0	27	16.71
18-01-jun	4:05:08	591	5.3	4.2	-1.2	27	16.72
18-01-jun	5:05:08	591	5.2	3.8	-1.4	27	16.71
18-01-jun	6:05:08	592	10.8	8.3	-2.6	27	16.71
18-01-jun	7:05:08	592	14.8	14.1	-0.7	29	16.71
18-01-jun	8:05:08	593	16.2	16.9	0.7	29	16.71
18-01-jun	9:05:08	593	17.4	18.8	1.4	30	16.71
18-01-jun	10:05:08	593	19.2	20.6	1.4	30	16.71
18-01-jun	11:05:08	593	20.7	21.9	1.1	31	16.71
18-01-jun	12:05:08	593	22.1	23.0	1.0	31	16.71
18-01-jun	13:05:08	593	23.2	24.2	1.1	31	16.71
18-01-jun	14:05:08	593	23.7	25.3	1.6	32	16.71
18-01-jun	15:05:08	593	24.2	25.7	1.6	31	16.71
18-01-jun	16:05:08	593	24.3	25.9	1.6	32	16.71
18-01-jun	17:05:08	593	24.0	25.2	1.2	31	16.70
18-01-jun	18:05:08	593	22.9	23.9	1.0	31	16.70
18-01-jun	19:05:08	594	19.8	20.0	0.2	31	16.71
18-01-jun	20:05:08	594	17.9	17.0	-0.9	31	16.71
18-01-jun	21:05:08	595	15.7	14.9	-0.8	31	16.71
18-01-jun	22:05:08	595	13.2	12.3	-1.0	30	16.71
18-01-jun	23:05:08	595	13.1	11.3	-1.7	30	16.71

BGI PQ200 Air Sampling System

Downloaded 2018 08 jun 12:09:24

Job Details:

Job Name: 18Jun08C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1436:28
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	594	589	592	mmHg
TA	28	7.4	17.7	°C
Q	---	---	16.7	Lpm

QCV 0.56 %

Max overheat 2.4 °C
occured 07-jun 14:03:15

Timer Information:

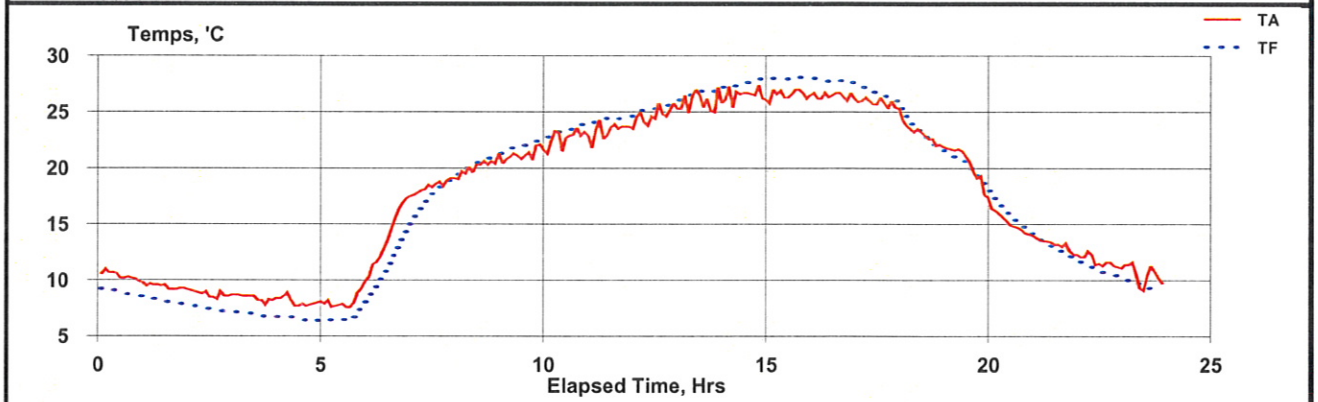
	Date dd-mmm	Time hh:mm:ss
Start:	18-07-jun	0:00:08
Stop:	18-08-jun	0:00:04

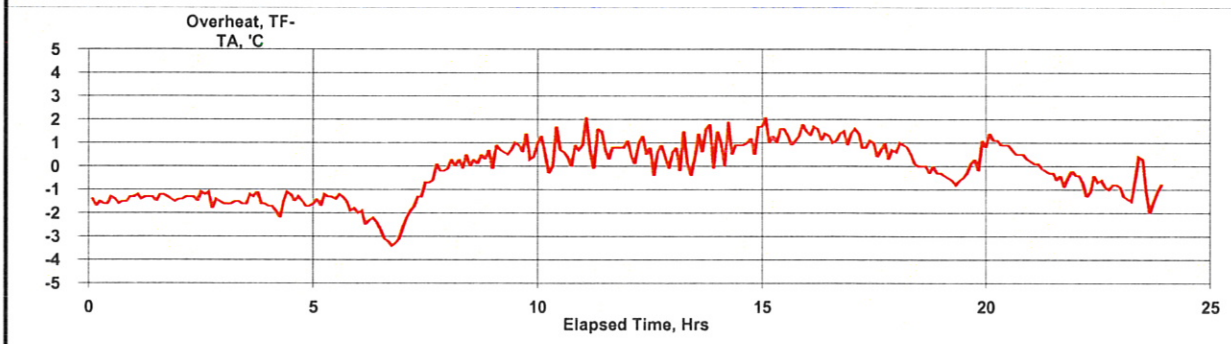
ET: 23:59

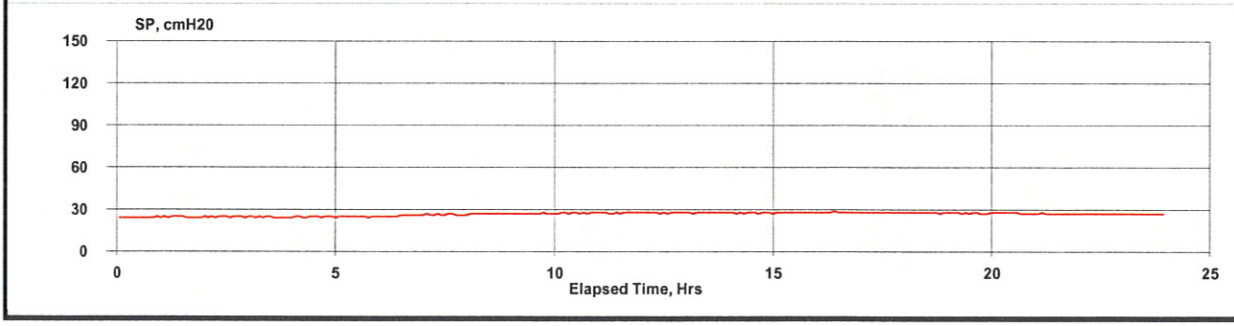
Mass Concentration Data:

Filter ID:	13	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-07-jun	0:05:08	591	10.4	8.9	-1.5	24	16.71
18-07-jun	1:05:08	591	9.4	8.1	-1.3	25	16.71
18-07-jun	2:05:08	591	8.7	7.4	-1.4	25	16.72
18-07-jun	3:05:08	591	8.4	6.9	-1.5	24	16.71
18-07-jun	4:05:08	592	8.1	6.5	-1.6	25	16.71
18-07-jun	5:05:08	592	8.2	6.7	-1.5	25	16.71
18-07-jun	6:05:08	592	14.2	11.4	-2.7	26	16.70
18-07-jun	7:05:08	592	18.4	17.5	-0.9	26	16.70
18-07-jun	8:05:08	593	20.1	20.4	0.2	27	16.71
18-07-jun	9:05:08	593	21.2	21.9	0.7	27	16.71
18-07-jun	10:05:08	593	22.7	23.4	0.6	28	16.71
18-07-jun	11:05:08	593	23.4	24.3	0.9	28	16.70
18-07-jun	12:05:08	593	24.8	25.3	0.5	28	16.71
18-07-jun	13:05:08	592	25.9	26.7	0.7	28	16.71
18-07-jun	14:05:08	592	26.5	27.6	1.0	28	16.72
18-07-jun	15:05:08	592	26.6	28.0	1.4	28	16.71
18-07-jun	16:05:08	592	26.4	27.7	1.3	28	16.71
18-07-jun	17:05:08	592	25.8	26.7	0.9	28	16.70
18-07-jun	18:05:08	592	23.0	23.2	0.2	28	16.71
18-07-jun	19:05:08	592	20.3	20.1	-0.1	28	16.71
18-07-jun	20:05:08	593	15.1	15.8	0.7	28	16.71
18-07-jun	21:05:08	593	13.1	12.8	-0.3	27	16.71
18-07-jun	22:05:08	593	11.7	10.9	-0.8	27	16.71
18-07-jun	23:05:08	593	10.5	9.6	-1.0	27	16.71

BGI PQ200 Air Sampling System Downloaded 2018 14 jun 14:19:52

Job Details:

Job Name: 18Jun14C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1460:27
Flags:

Job Code:
Site Name: 964C
Station Code:
Operators: KN
User1:
User2:

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	32	8.1	20.9	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 3.1 °C
occured 13-jun 14:54:11

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-13-jun	0:00:08
Stop:	18-14-jun	0:00:04

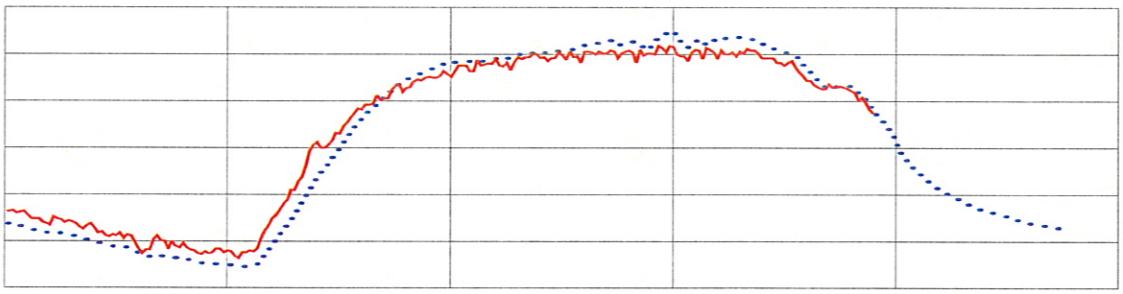
ET: 23:59

Mass Concentration Data:

Filter ID: 24
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.035 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-13-jun	0:05:08	593	12.6	11.3	-1.4	22	16.71
18-13-jun	1:05:08	593	11.9	10.5	-1.5	22	16.71
18-13-jun	2:05:08	593	10.5	9.3	-1.2	22	16.70
18-13-jun	3:05:08	593	9.6	8.2	-1.4	22	16.72
18-13-jun	4:05:08	593	8.9	7.6	-1.3	21	16.70
18-13-jun	5:05:08	593	9.6	7.8	-1.9	21	16.70
18-13-jun	6:05:08	593	16.5	13.2	-3.3	22	16.71
18-13-jun	7:05:08	593	22.0	20.1	-1.9	23	16.70
18-13-jun	8:05:08	593	25.6	25.5	-0.2	24	16.71
18-13-jun	9:05:08	593	27.5	28.3	0.8	25	16.72
18-13-jun	10:05:08	593	28.8	29.3	0.5	25	16.70
18-13-jun	11:05:08	593	29.4	29.8	0.5	25	16.70
18-13-jun	12:05:08	593	29.7	30.4	0.7	25	16.70
18-13-jun	13:05:08	592	30.2	31.2	1.0	26	16.70
18-13-jun	14:05:08	592	30.3	31.5	1.2	26	16.71
18-13-jun	15:05:08	592	30.0	31.3	1.2	26	16.72
18-13-jun	16:05:08	591	30.2	31.6	1.4	26	16.72
18-13-jun	17:05:08	591	28.8	30.0	1.2	26	16.70
18-13-jun	18:05:08	591	26.5	26.9	0.3	25	16.71
18-13-jun	19:05:08	591	23.2	23.8	0.6	25	16.70
18-13-jun	20:05:08	592	16.8	17.4	0.6	25	16.71
18-13-jun	21:05:08	592	14.8	14.3	-0.5	25	16.71
18-13-jun	22:05:08	592	13.7	12.6	-1.1	24	16.71
18-13-jun	23:05:08	592	12.8	11.6	-1.3	24	16.71

BGI PQ200 Air Sampling System Downloaded 2018 22 jun 09:42:18

Job Details:

Job Name:	18Jun22C.JOB
Version:	5.62
Serial No:	964
Pump Time:	1484:26
Flags:	

Job Code:	
Site Name:	964C
Station Code:	
Operators:	KN
User1:	
User2:	

	Max	Min	Avg	Units
BP	594	590	593	mmHg
TA	27.9	2.6	17.4	°C
Q	---	---	16.7	Lpm

QCV	0.54 %
Max overheat	2.9 °C
occured	19-jun 14:16:18

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-19-jun	0:00:08
Stop:	18-20-jun	0:00:05

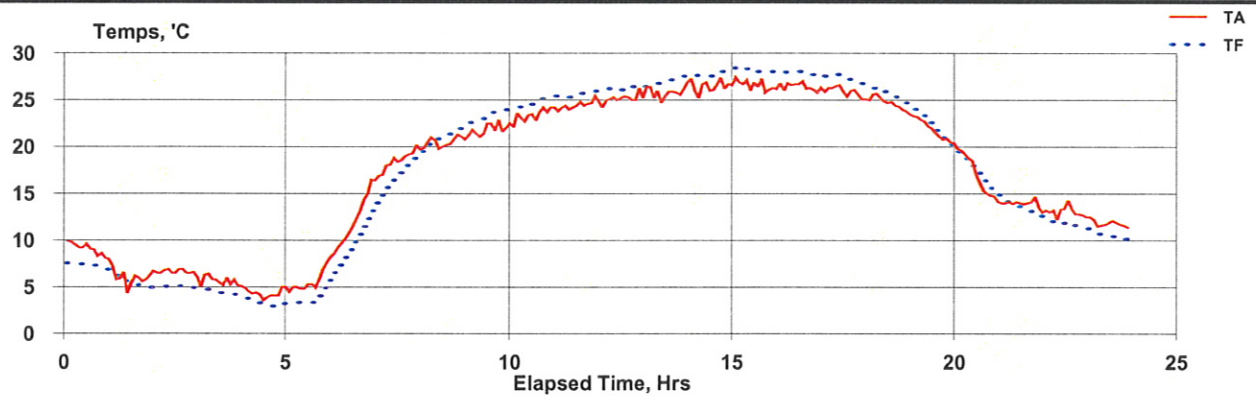
ET: 23:59

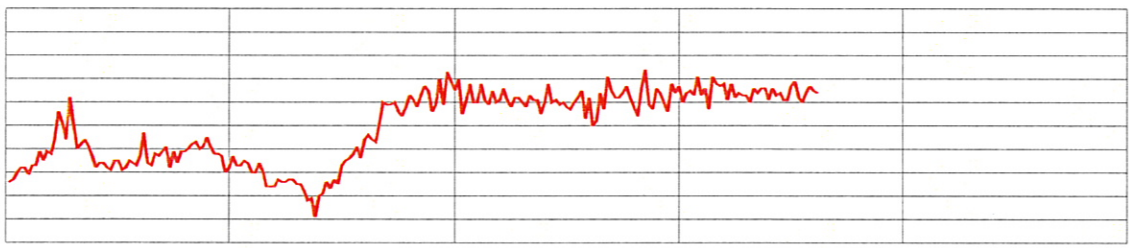
Mass Concentration Data:

Filter ID:	6	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:





18-19-jun	0:05:08	593	9.0	7.3	-1.7	32	16.71
18-19-jun	1:05:08	592	6.0	5.5	-0.5	33	16.70
18-19-jun	2:05:08	593	6.6	5.0	-1.6	32	16.71
18-19-jun	3:05:08	593	5.6	4.4	-1.2	33	16.71
18-19-jun	4:05:08	593	4.3	3.2	-1.1	33	16.71
18-19-jun	5:05:08	593	5.7	3.7	-1.9	33	16.70
18-19-jun	6:05:08	593	12.3	9.6	-2.7	34	16.71
18-19-jun	7:05:08	594	18.6	16.8	-1.8	35	16.72
18-19-jun	8:05:08	594	20.5	21.0	0.4	37	16.71
18-19-jun	9:05:08	594	21.9	23.3	1.4	37	16.71
18-19-jun	10:05:08	594	23.4	24.7	1.2	38	16.71
18-19-jun	11:05:08	593	24.5	25.5	1.1	38	16.71
18-19-jun	12:05:08	593	25.2	26.2	1.0	38	16.71
18-19-jun	13:05:08	593	25.9	27.0	1.1	38	16.71
18-19-jun	14:05:08	593	26.5	27.8	1.3	38	16.71
18-19-jun	15:05:08	593	26.6	28.1	1.5	38	16.72
18-19-jun	16:05:08	593	26.4	27.8	1.4	38	16.71
18-19-jun	17:05:08	593	25.9	27.3	1.4	39	16.71
18-19-jun	18:05:08	593	24.7	25.6	1.0	39	16.71
18-19-jun	19:05:08	593	21.8	22.2	0.4	38	16.71
18-19-jun	20:05:08	594	16.9	17.4	0.5	38	16.71
18-19-jun	21:05:08	594	14.0	13.5	-0.4	37	16.71
18-19-jun	22:05:08	594	13.1	11.8	-1.3	37	16.70
18-19-jun	23:05:08	594	11.8	10.5	-1.3	37	16.71

Compliance Monitor 2366D

PM_{10} Sampler Summary

April 1, 2018 - June 30, 2018

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-D **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
04/02/18	P2946891	**47.9**	**58.8**	24:00	24.0	19.6	379.145	380.298	1.153	HT	
04/08/18	P2947091	**7.2**	**8.8**	23:59	24.0	19.7	371.451	371.626	0.175	HT	
04/14/18	P2947096	**7.1**	**8.6**	23:59	24.0	20.0	371.289	371.462	0.173		
04/20/18	P2947101	**22.1**	**26.4**	23:59	24.0	20.1	377.581	378.113	0.532		
04/26/18	P2947326	**57.0**	**70.8**	23:59	24.0	19.4	391.077	392.449	1.372		
05/02/18	P2947332	**6.9**	**8.2**	23:59	24.0	20.1	373.581	373.747	0.166	HT	
05/08/18	P2947560	**38.1**	**47.8**	23:59	24.0	19.2	378.016	378.932	0.916		
05/14/18	P2947566	**36.7**	**45.2**	23:59	24.0	19.5	368.285	369.169	0.884		
05/20/18	P2947772	**6.9**	**8.6**	23:59	24.0	19.3	374.157	374.324	0.167		
05/26/18	P2947777	**34.4**	**42.6**	23:59	24.0	19.4	381.831	382.659	0.828		
06/01/18	P2947782	**38.6**	**48.2**	23:59	24.0	19.2	371.598	372.527	0.929		
06/07/18	P2948035	**47.7**	**60.0**	23:59	24.0	19.1	364.697	365.845	1.148		
06/13/18	P2948040	**322.5**	**410.1**	23:59	24.0	18.9	365.442	373.192	7.750		Loose particles
06/19/18	P2948233	**135.6**	**170.3**	23:59	24.0	19.1	362.163	365.424	3.261		Loose particles
06/25/18	P2948239	**Invalid - AG**	**Invalid - AG**	63:11	63.3	49.6	370.842	379.812	8.970	SP,CI	Loose particles
06/04/18	P2948034		**Field Blank**				365.733	365.758	0.025		

# Valid	Recovery	Average	St. Dev.	Max	Min
14	**93%**	**72.5**	**105.7**	**410.1**	**8.2**

BGI PQ200 Air Sampling System Downloaded 2018 05 apr 11:00:18

Job Details:

Job Name: 18Apr05D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3228:11
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	586	582	584	mmHg
TA	18.2	-1.7	8.1	°C
Q	---	---	16.71	Lpm

QCV 0.54 %
Max overheat 4 °C
occured 04-apr 19:25:43

Timer Information:

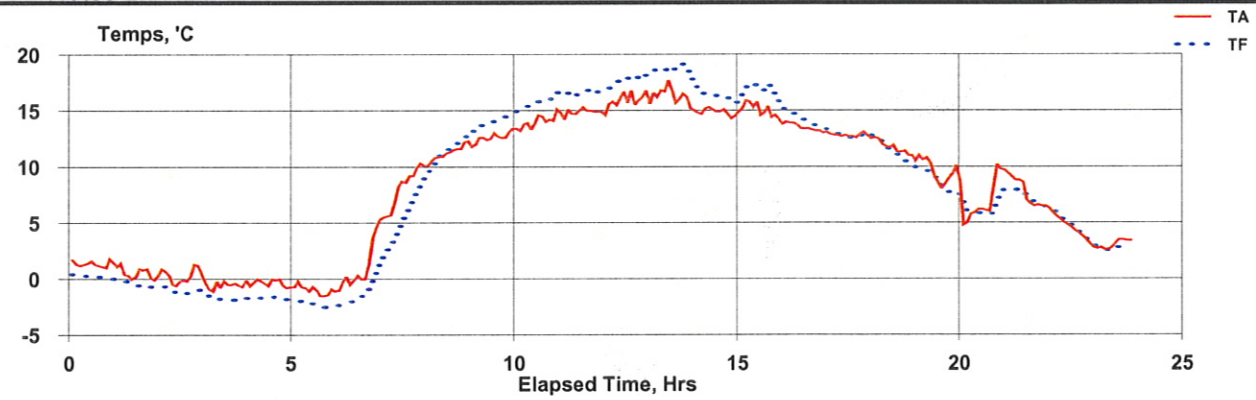
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-apr	0:00:00
Stop:	18-03-apr	0:00:05

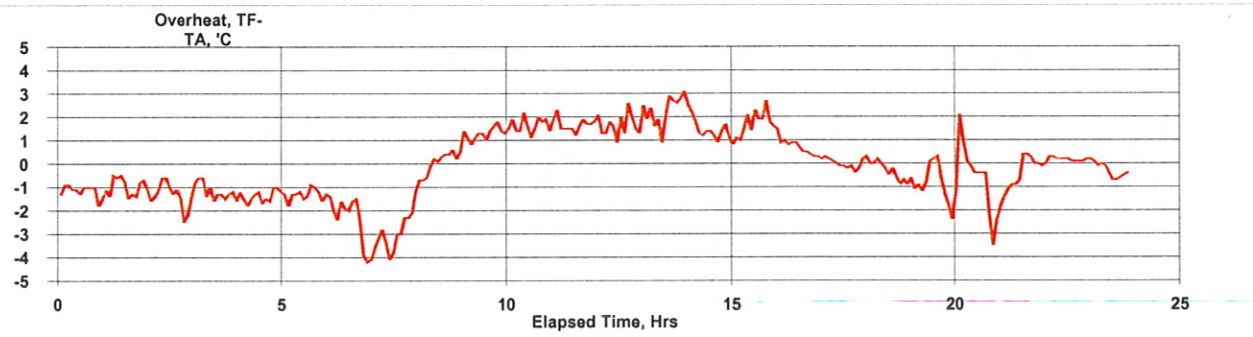
ET: 24:00:00

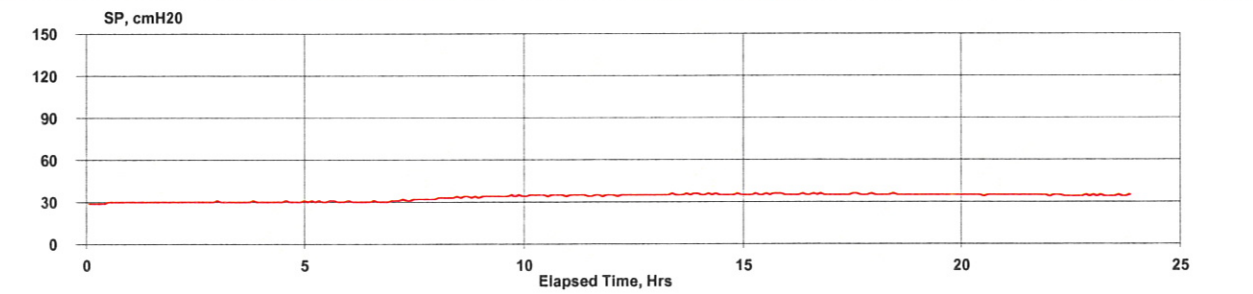
Mass Concentration Data:

Filter ID:	19	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-02-apr	0:05:00	586	1.4	0.2	-1.2	30	16.71
18-02-apr	1:05:00	586	0.5	-0.5	-1.0	30	16.69
18-02-apr	2:05:00	585	0.3	-1.1	-1.4	30	16.71
18-02-apr	3:05:00	585	-0.5	-1.7	-1.2	30	16.71
18-02-apr	4:05:00	585	-0.4	-1.7	-1.4	30	16.72
18-02-apr	5:05:00	585	-1.0	-2.3	-1.3	30	16.71
18-02-apr	6:05:00	585	1.1	-1.3	-2.4	30	16.71
18-02-apr	7:05:00	584	8.2	5.3	-2.9	32	16.71
18-02-apr	8:05:00	584	11.2	11.3	0.0	33	16.71
18-02-apr	9:05:00	584	12.6	13.9	1.3	34	16.70
18-02-apr	10:05:00	584	14.0	15.6	1.6	35	16.72
18-02-apr	11:05:00	583	14.9	16.6	1.7	35	16.71
18-02-apr	12:05:00	583	15.9	17.6	1.6	35	16.71
18-02-apr	13:05:00	583	16.3	18.6	2.3	35	16.71
18-02-apr	14:05:00	583	14.9	16.4	1.5	35	16.72
18-02-apr	15:05:00	582	15.1	16.8	1.7	35	16.71
18-02-apr	16:05:00	582	13.5	14.2	0.7	35	16.71
18-02-apr	17:05:00	583	12.8	12.8	0.0	35	16.71
18-02-apr	18:05:00	583	11.8	11.5	-0.3	35	16.71
18-02-apr	19:05:00	583	9.7	8.8	-0.8	35	16.71
18-02-apr	20:05:00	584	6.9	6.3	-0.7	35	16.70
18-02-apr	21:05:00	584	7.9	7.4	-0.5	35	16.71
18-02-apr	22:05:00	585	4.7	4.9	0.2	34	16.71
18-02-apr	23:05:00	586	3.0	2.8	-0.3	34	16.72

BGI PQ200 Air Sampling System Downloaded 2018 10 apr 11:33:49

Job Details:

Job Name: 18Apr10D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3252:10
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	591	584	587	mmHg
TA	16.1	-0.5	7.7	°C
Q	---	---	16.7	Lpm

QCV	0.55 %
Max overheat	2.9 °C
occured	08-apr 14:08:17

Timer Information:

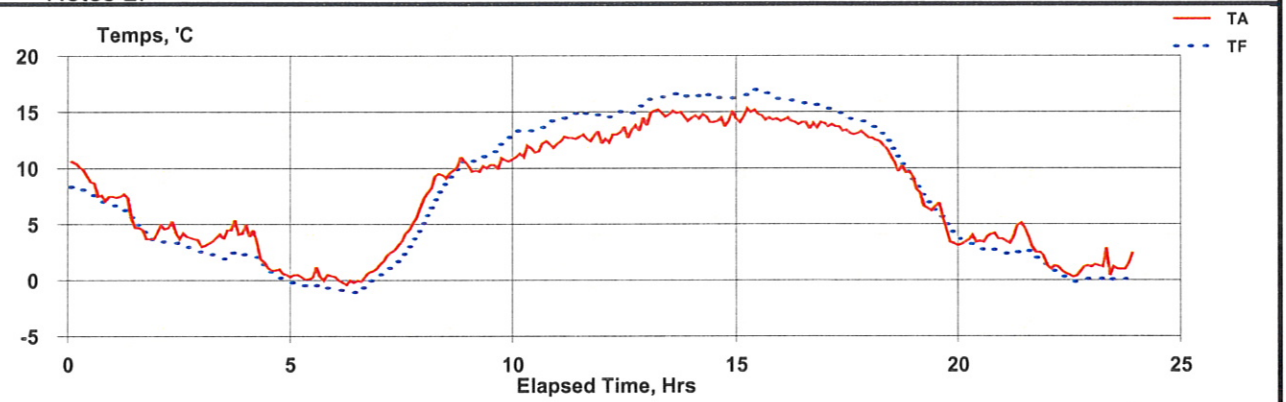
	Date dd-mmm	Time hh:mm:ss
Start:	18-08-apr	0:00:08
Stop:	18-09-apr	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	29	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



18-08-apr	0:05:08	585	8.7	7.6	-1.2	29	16.71
18-08-apr	1:05:08	585	5.4	5.1	-0.3	29	16.71
18-08-apr	2:05:08	585	4.1	3.1	-1.0	29	16.71
18-08-apr	3:05:08	585	4.1	2.2	-1.9	28	16.71
18-08-apr	4:05:08	586	1.7	1.0	-0.7	29	16.70
18-08-apr	5:05:08	586	0.4	-0.5	-0.9	28	16.71
18-08-apr	6:05:08	587	0.3	-0.6	-0.9	29	16.70
18-08-apr	7:05:08	587	4.1	2.4	-1.7	29	16.71
18-08-apr	8:05:08	587	9.5	8.6	-1.0	30	16.70
18-08-apr	9:05:08	587	10.2	11.5	1.3	31	16.71
18-08-apr	10:05:08	587	11.7	13.6	1.8	32	16.71
18-08-apr	11:05:08	588	12.7	14.7	2.0	32	16.71
18-08-apr	12:05:08	587	13.3	15.0	1.7	32	16.71
18-08-apr	13:05:08	588	14.8	16.4	1.6	32	16.71
18-08-apr	14:05:08	588	14.4	16.3	1.9	32	16.70
18-08-apr	15:05:08	588	14.6	16.5	1.9	32	16.71
18-08-apr	16:05:08	588	14.0	15.8	1.8	32	16.70
18-08-apr	17:05:08	588	13.3	14.6	1.3	32	16.71
18-08-apr	18:05:08	588	10.9	11.7	0.7	31	16.70
18-08-apr	19:05:08	589	5.7	6.1	0.4	30	16.71
18-08-apr	20:05:08	589	3.7	3.0	-0.7	30	16.71
18-08-apr	21:05:08	590	3.4	2.2	-1.2	30	16.70
18-08-apr	22:05:08	590	0.9	0.2	-0.6	30	16.71
18-08-apr	23:05:08	590	1.4	0.1	-1.3	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 16 apr 14:27:46

Job Details:

Job Name: 18Apr16D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3276:09
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	595	591	592	mmHg
TA	16.7	-4.4	5.8	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 3.7 °C
occured 14-apr 14:23:50

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-14-apr	0:00:08
Stop:	18-15-apr	0:00:04

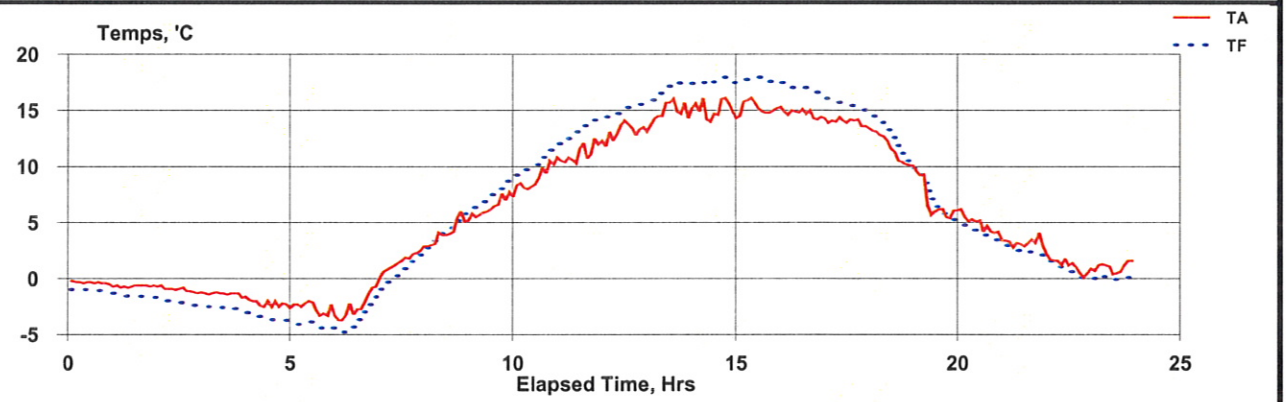
ET: 23:59

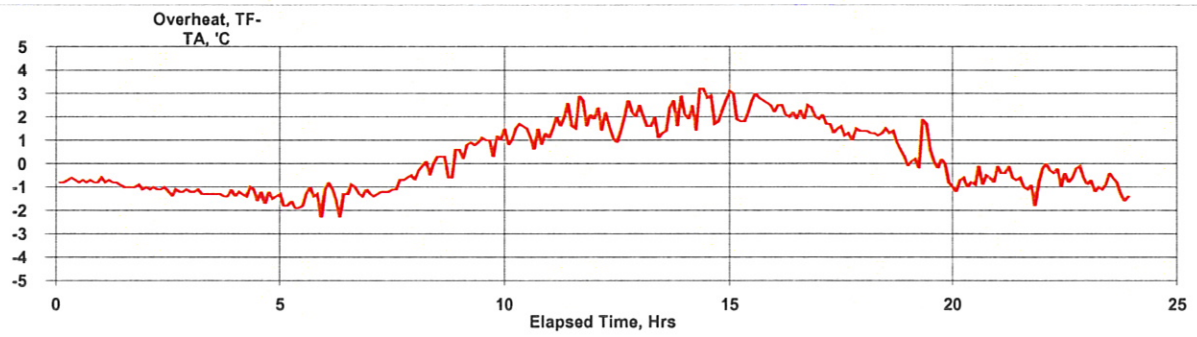
Mass Concentration Data:

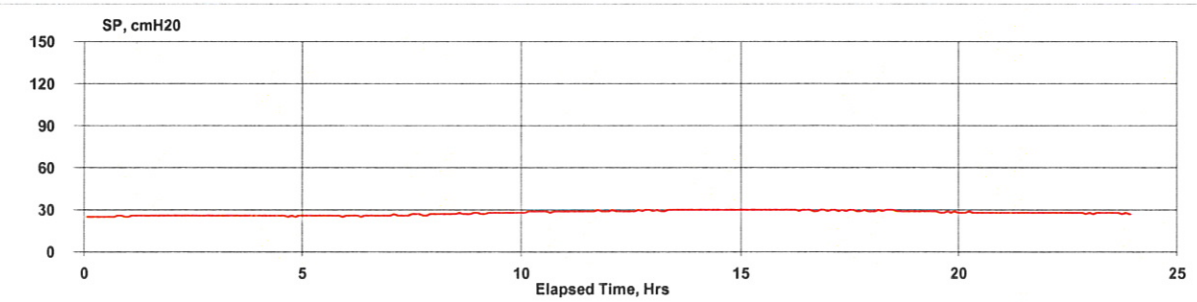
Filter ID: 36
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.035 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-14-apr	0:05:08	593	-0.4	-1.1	-0.7	25	16.71
18-14-apr	1:05:08	593	-0.7	-1.6	-0.9	26	16.71
18-14-apr	2:05:08	594	-1.0	-2.1	-1.1	26	16.72
18-14-apr	3:05:08	594	-1.4	-2.7	-1.3	26	16.71
18-14-apr	4:05:08	594	-2.2	-3.6	-1.3	26	16.71
18-14-apr	5:05:08	594	-2.6	-4.2	-1.6	26	16.72
18-14-apr	6:05:08	594	-2.2	-3.5	-1.3	26	16.71
18-14-apr	7:05:08	594	1.7	0.7	-1.0	27	16.70
18-14-apr	8:05:08	594	4.2	4.2	0.0	27	16.72
18-14-apr	9:05:08	594	6.5	7.4	0.9	28	16.70
18-14-apr	10:05:08	594	9.1	10.3	1.2	29	16.71
18-14-apr	11:05:08	594	11.2	13.2	2.0	29	16.71
18-14-apr	12:05:08	593	13.2	15.0	1.9	29	16.71
18-14-apr	13:05:08	592	14.9	16.8	1.9	30	16.71
18-14-apr	14:05:08	592	15.1	17.5	2.5	30	16.72
18-14-apr	15:05:08	591	15.3	17.7	2.4	30	16.71
18-14-apr	16:05:08	591	14.7	16.9	2.2	30	16.70
18-14-apr	17:05:08	591	14.0	15.4	1.5	30	16.70
18-14-apr	18:05:08	591	11.5	12.6	1.0	29	16.71
18-14-apr	19:05:08	592	6.8	7.0	0.2	29	16.71
18-14-apr	20:05:08	592	4.8	4.1	-0.7	28	16.71
18-14-apr	21:05:08	592	3.2	2.4	-0.7	28	16.71
18-14-apr	22:05:08	592	1.1	0.7	-0.5	28	16.71
18-14-apr	23:05:08	592	1.0	0.0	-1.0	28	16.71

BGI PQ200 Air Sampling System Downloaded 2018 23 apr 13:29:29

Job Details:

Job Name: 18Apr23D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3300:08
Flags:

Job Code:
Site Name: 2366D
Station Code:
Operators: KN
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	591	582	586	mmHg
TA	9.1	-6.1	1.9	°C
Q	---	---	16.7	Lpm

QCV 0.53 %
Max overheat 3.2 °C
occured 20-apr 13:10:24

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-20-apr	0:00:08
Stop:	18-21-apr	0:00:05

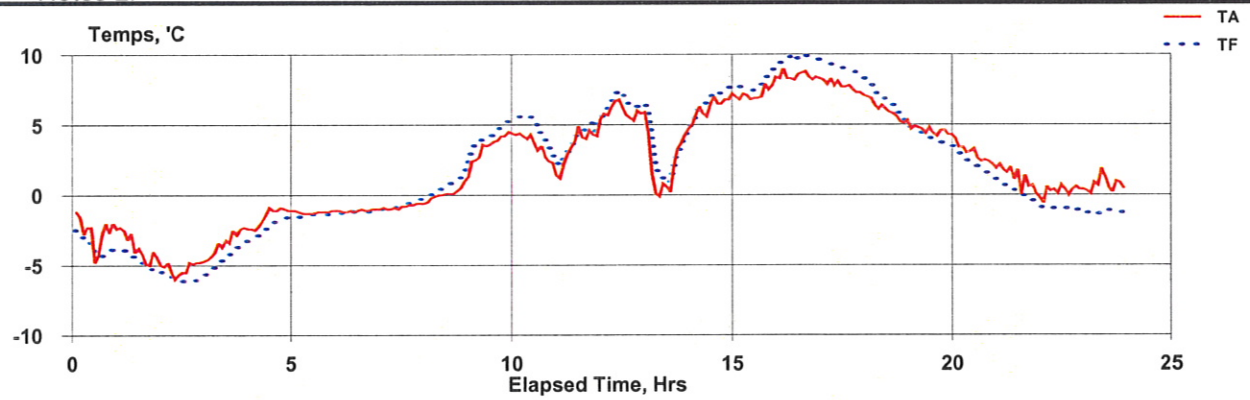
ET: 23:59

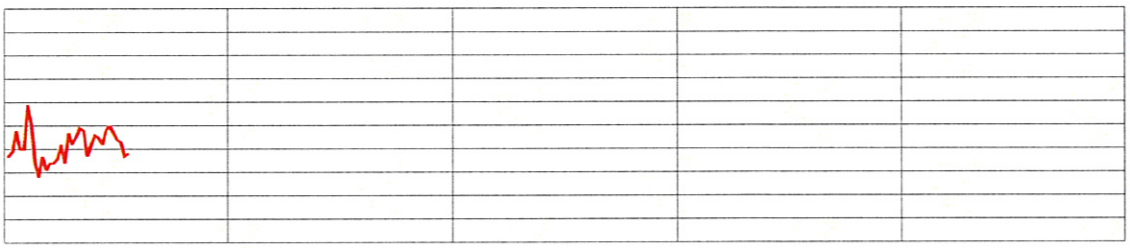
Mass Concentration Data:

Filter ID: 41
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-20-apr	0:05:08	584	-2.6	-3.6	-1.0	31	16.71
18-20-apr	1:05:08	584	-3.8	-4.7	-0.8	31	16.71
18-20-apr	2:05:08	584	-5.2	-5.9	-0.8	32	16.71
18-20-apr	3:05:08	584	-3.3	-4.4	-1.1	32	16.71
18-20-apr	4:05:08	583	-1.5	-2.3	-0.8	33	16.72
18-20-apr	5:05:08	583	-1.2	-1.4	-0.2	33	16.71
18-20-apr	6:05:08	584	-1.1	-1.2	-0.1	33	16.71
18-20-apr	7:05:08	584	-0.8	-0.7	0.1	33	16.72
18-20-apr	8:05:08	584	0.2	0.7	0.5	34	16.72
18-20-apr	9:05:08	585	3.6	4.3	0.7	34	16.70
18-20-apr	10:05:08	585	3.4	4.6	1.3	34	16.71
18-20-apr	11:05:08	586	3.8	4.0	0.2	34	16.72
18-20-apr	12:05:08	586	6.0	6.6	0.6	35	16.70
18-20-apr	13:05:08	588	2.1	2.8	0.7	35	16.72
18-20-apr	14:05:08	588	6.3	6.7	0.4	35	16.70
18-20-apr	15:05:08	588	7.3	7.9	0.7	35	16.71
18-20-apr	16:05:08	588	8.5	9.7	1.2	35	16.71
18-20-apr	17:05:08	589	7.7	9.0	1.3	35	16.71
18-20-apr	18:05:08	589	6.0	6.6	0.7	35	16.71
18-20-apr	19:05:08	590	4.6	4.1	-0.5	34	16.71
18-20-apr	20:05:08	590	2.9	2.1	-0.8	34	16.71
18-20-apr	21:05:08	591	1.1	0.1	-1.0	34	16.71
18-20-apr	22:05:08	591	0.3	-1.1	-1.4	34	16.71
18-20-apr	23:05:08	591	0.8	-1.3	-2.1	34	16.71

BGI PQ200 Air Sampling System Downloaded 2018 27 apr 09:18:54

Job Details:

Job Name: 18Apr27D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3324:07
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	592	588	590	mmHg
TA	24.5	4.9	14.3	°C
Q	---	---	16.7	Lpm

QCV	0.53 %
Max overheat	4 °C
occured	26-apr 15:13:21

Timer Information:

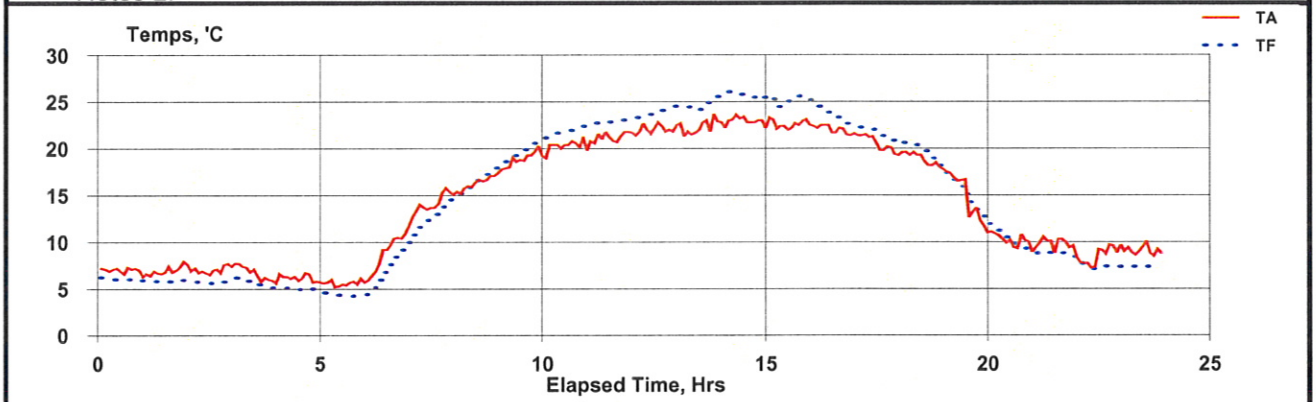
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-apr	0:00:08
Stop:	18-27-apr	0:00:04

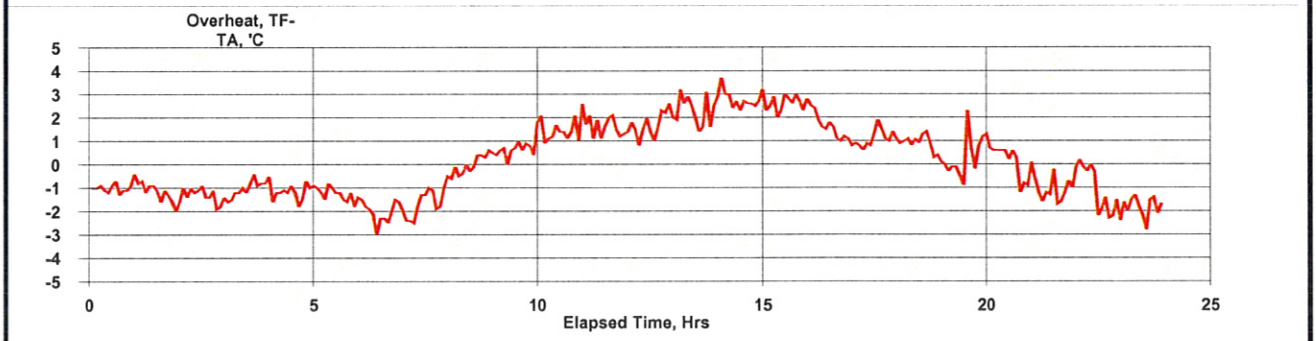
ET: 23:59

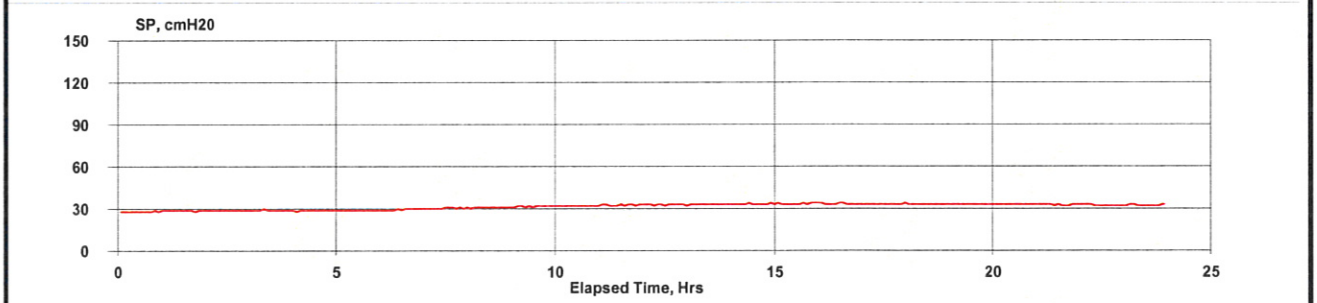
Mass Concentration Data:

Filter ID:	7	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-26-apr	0:05:08	591	7.0	6.0	-1.0	28	16.71
18-26-apr	1:05:08	591	7.0	5.8	-1.2	29	16.71
18-26-apr	2:05:08	591	7.0	5.7	-1.3	29	16.71
18-26-apr	3:05:08	591	6.7	5.7	-1.0	29	16.71
18-26-apr	4:05:08	591	6.2	5.0	-1.2	29	16.71
18-26-apr	5:05:08	591	5.6	4.3	-1.3	29	16.71
18-26-apr	6:05:08	591	9.1	7.0	-2.0	30	16.71
18-26-apr	7:05:08	591	14.2	12.6	-1.6	30	16.72
18-26-apr	8:05:08	591	16.4	16.4	0.0	31	16.71
18-26-apr	9:05:08	591	18.9	19.6	0.7	32	16.70
18-26-apr	10:05:08	591	20.3	21.8	1.5	32	16.71
18-26-apr	11:05:08	591	21.3	22.8	1.6	33	16.69
18-26-apr	12:05:08	590	22.1	23.8	1.7	33	16.71
18-26-apr	13:05:08	590	22.3	24.7	2.4	33	16.71
18-26-apr	14:05:08	589	22.9	25.7	2.8	33	16.71
18-26-apr	15:05:08	589	22.6	25.2	2.6	33	16.71
18-26-apr	16:05:08	589	22.0	23.6	1.5	33	16.71
18-26-apr	17:05:08	589	20.5	21.6	1.1	33	16.71
18-26-apr	18:05:08	589	18.8	19.7	0.8	33	16.71
18-26-apr	19:05:08	589	14.7	15.0	0.3	33	16.72
18-26-apr	20:05:08	590	10.1	10.3	0.1	33	16.71
18-26-apr	21:05:08	590	9.7	8.7	-1.0	33	16.70
18-26-apr	22:05:08	590	8.5	7.3	-1.2	32	16.70
18-26-apr	23:05:08	590	9.1	7.3	-1.8	32	16.70

BGI PQ200 Air Sampling System Downloaded 2018 04 may 13:09:06

Job Details:

Job Name: 18May04D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3348:06
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	589	584	586	mmHg
TA	4	-0.8	1.3	°C
Q	---	---	16.7	Lpm

QCV	0.52 %
Max overheat	3.6 °C
occured	03-may 13:56:00

Timer Information:

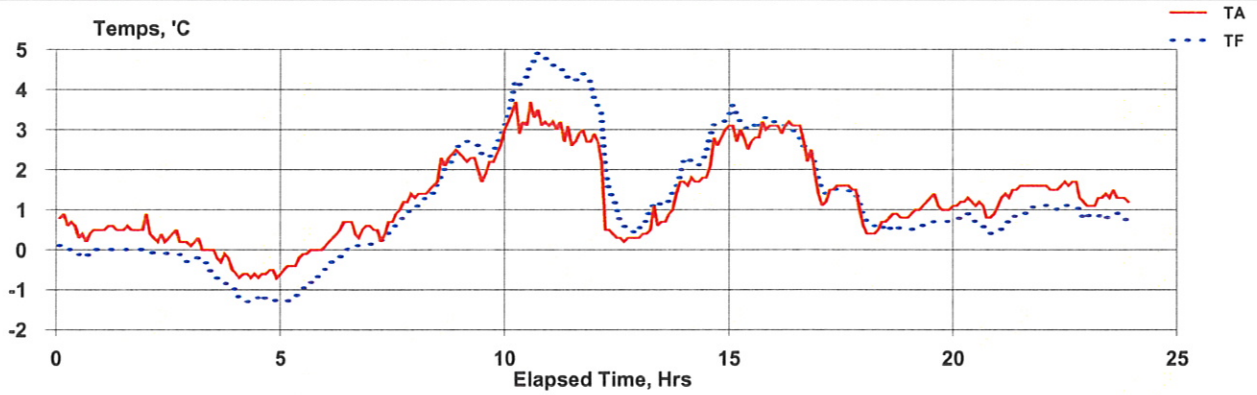
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-may	0:00:08
Stop:	18-03-may	0:00:05

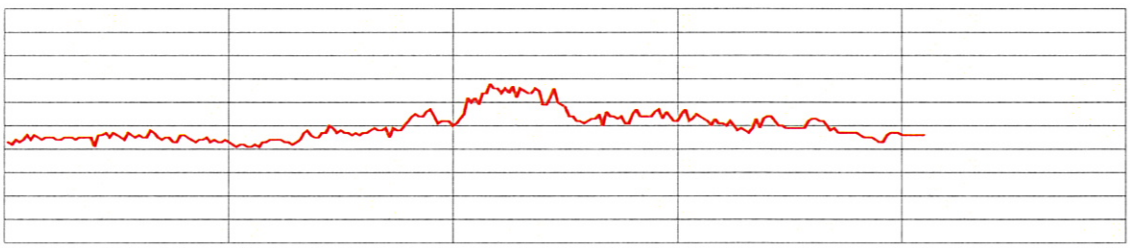
ET: 23:59

Mass Concentration Data:

Filter ID:	13	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-02-may	0:05:08	585	0.5	0.0	-0.6	26	16.71
18-02-may	1:05:08	585	0.6	0.0	-0.6	26	16.71
18-02-may	2:05:08	585	0.3	-0.1	-0.4	27	16.71
18-02-may	3:05:08	585	-0.1	-0.6	-0.5	27	16.71
18-02-may	4:05:08	585	-0.6	-1.2	-0.6	27	16.72
18-02-may	5:05:08	585	-0.2	-1.0	-0.8	27	16.71
18-02-may	6:05:08	585	0.5	-0.1	-0.6	27	16.71
18-02-may	7:05:08	585	0.8	0.6	-0.3	27	16.70
18-02-may	8:05:08	585	1.9	1.8	-0.2	27	16.72
18-02-may	9:05:08	585	2.3	2.6	0.3	28	16.72
18-02-may	10:05:08	585	3.3	4.4	1.1	28	16.70
18-02-may	11:05:08	586	2.9	4.3	1.4	28	16.71
18-02-may	12:05:08	586	0.7	1.4	0.7	28	16.71
18-02-may	13:05:08	586	0.9	1.3	0.3	28	16.70
18-02-may	14:05:08	586	2.2	2.7	0.4	28	16.71
18-02-may	15:05:08	586	2.9	3.2	0.3	28	16.71
18-02-may	16:05:08	586	2.7	2.7	0.0	28	16.70
18-02-may	17:05:08	587	1.4	1.4	0.0	29	16.71
18-02-may	18:05:08	587	0.7	0.6	-0.1	29	16.71
18-02-may	19:05:08	588	1.1	0.6	-0.5	29	16.71
18-02-may	20:05:08	588	1.1	0.6	-0.5	29	16.72
18-02-may	21:05:08	588	1.5	0.9	-0.7	29	16.71
18-02-may	22:05:08	589	1.5	1.0	-0.5	29	16.71
18-02-may	23:05:08	589	1.3	0.8	-0.5	29	16.71

BGI PQ200 Air Sampling System Downloaded 2018 09 may 09:52:19

Job Details:

Job Name: 18May09D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3372:05
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	29	6.8	17.7	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 3.3 °C
occured 08-may 12:30:17

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-08-may	0:00:08
Stop:	18-09-may	0:00:04

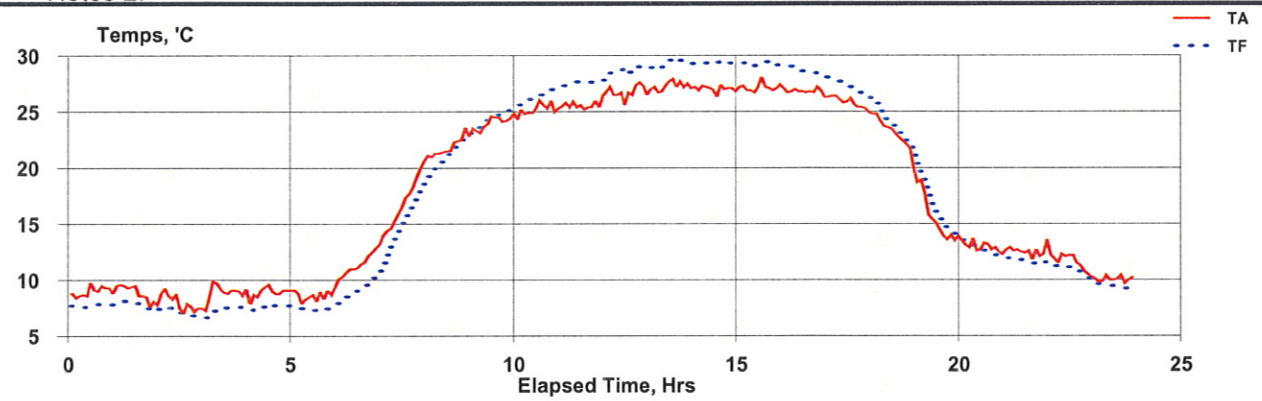
ET: 23:59

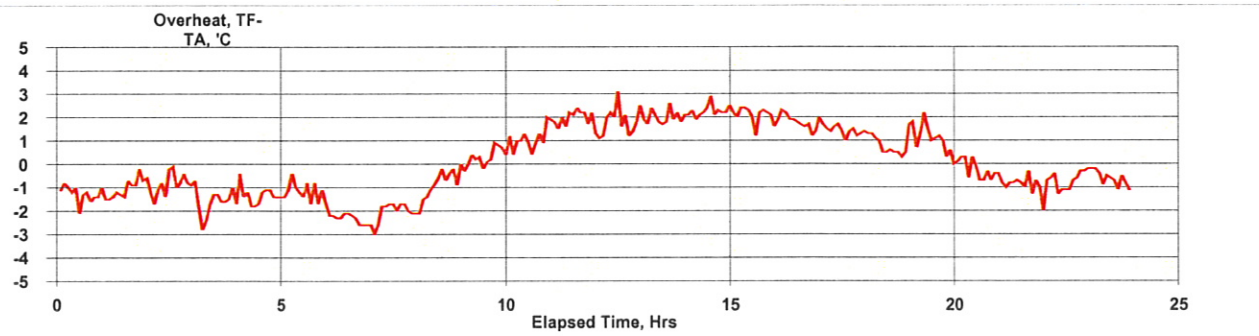
Mass Concentration Data:

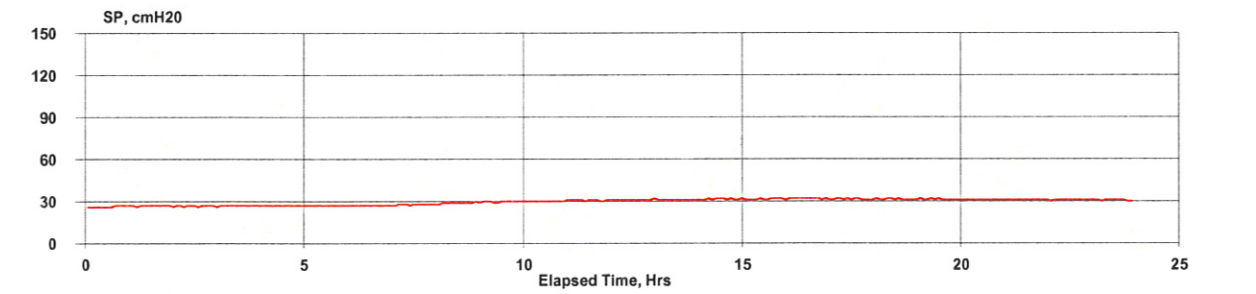
Filter ID: 25
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.038 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-08-may	0:05:08	592	9.0	7.7	-1.3	26	16.71
18-08-may	1:05:08	592	8.8	7.8	-1.0	27	16.71
18-08-may	2:05:08	592	8.0	7.1	-0.9	27	16.70
18-08-may	3:05:08	592	8.9	7.3	-1.6	27	16.71
18-08-may	4:05:08	592	8.9	7.6	-1.3	27	16.72
18-08-may	5:05:08	592	8.7	7.5	-1.2	27	16.70
18-08-may	6:05:08	592	11.5	9.2	-2.3	27	16.71
18-08-may	7:05:08	592	17.0	15.0	-2.0	28	16.71
18-08-may	8:05:08	592	21.9	21.1	-0.8	29	16.71
18-08-may	9:05:08	592	24.1	24.4	0.3	30	16.70
18-08-may	10:05:08	592	25.2	26.3	1.1	30	16.71
18-08-may	11:05:08	592	25.6	27.6	1.9	31	16.71
18-08-may	12:05:08	591	26.8	28.6	1.9	31	16.71
18-08-may	13:05:08	591	27.3	29.3	2.0	31	16.71
18-08-may	14:05:08	590	27.0	29.3	2.3	32	16.72
18-08-may	15:05:08	590	27.2	29.2	2.1	31	16.72
18-08-may	16:05:08	590	26.8	28.6	1.8	32	16.71
18-08-may	17:05:08	590	25.8	27.2	1.4	31	16.71
18-08-may	18:05:08	590	23.1	23.9	0.8	31	16.71
18-08-may	19:05:08	591	15.4	16.5	1.1	31	16.72
18-08-may	20:05:08	591	13.0	12.7	-0.2	31	16.71
18-08-may	21:05:08	591	12.6	11.6	-0.9	31	16.71
18-08-may	22:05:08	591	11.6	10.9	-0.7	31	16.72
18-08-may	23:05:08	591	10.1	9.4	-0.6	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 15 may 11:04:51

Job Details:

Job Name: 18May15D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3396:04
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	589	587	588	mmHg
TA	19.3	1.2	10.9	°C
Q	---	---	16.7	Lpm

QCV	0.53 %
Max overheat	3.6 °C
occured	14-may 10:27:02

Timer Information:

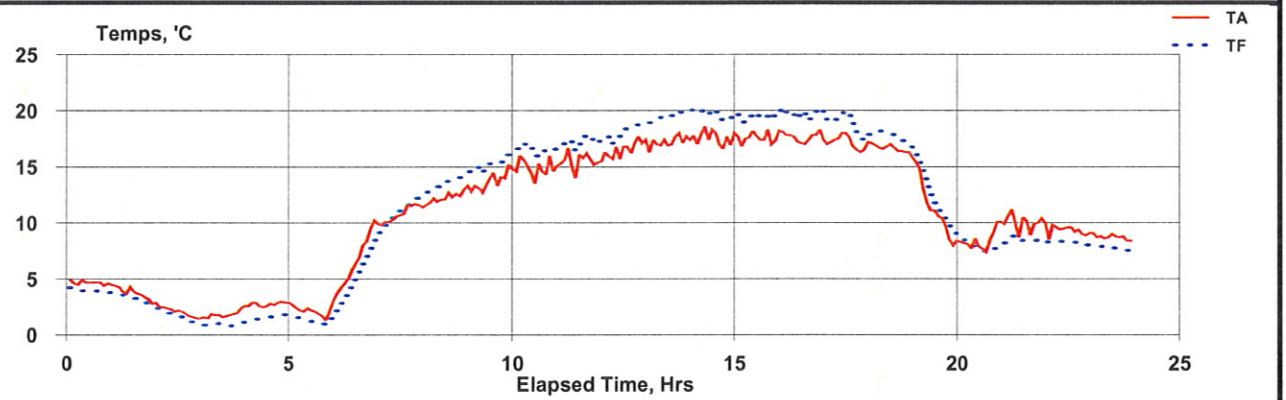
	Date dd-mmm	Time hh:mm:ss
Start:	18-14-may	0:00:08
Stop:	18-15-may	0:00:05

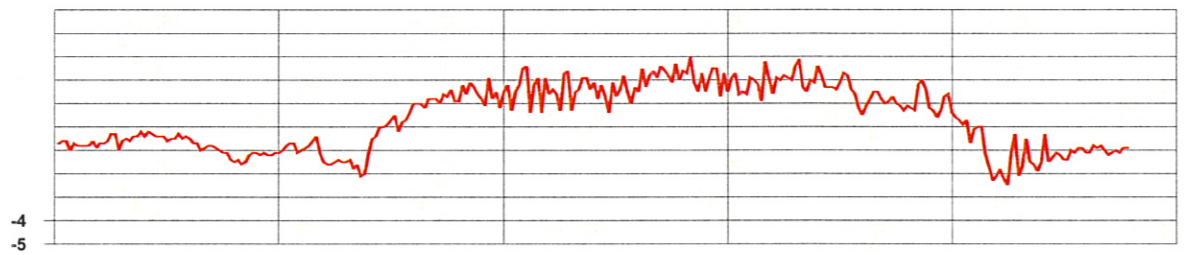
ET: 23:59

Mass Concentration Data:

Filter ID:	31	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-14-may	0:05:08	588	4.7	3.9	-0.7	25	16.72
18-14-may	1:05:08	588	3.7	3.2	-0.5	25	16.71
18-14-may	2:05:08	588	2.0	1.6	-0.4	25	16.71
18-14-may	3:05:08	588	1.9	0.9	-1.0	25	16.71
18-14-may	4:05:08	588	2.8	1.5	-1.2	25	16.71
18-14-may	5:05:08	588	2.2	1.3	-0.9	25	16.71
18-14-may	6:05:08	589	6.9	5.3	-1.6	26	16.71
18-14-may	7:05:08	589	10.9	11.0	0.2	27	16.71
18-14-may	8:05:08	589	12.3	13.5	1.2	28	16.72
18-14-may	9:05:08	588	13.8	15.2	1.5	28	16.71
18-14-may	10:05:08	589	14.9	16.6	1.6	28	16.70
18-14-may	11:05:08	589	15.5	17.2	1.7	28	16.70
18-14-may	12:05:08	588	16.6	18.1	1.5	29	16.70
18-14-may	13:05:08	588	17.2	19.5	2.3	29	16.70
18-14-may	14:05:08	588	17.6	19.7	2.1	29	16.71
18-14-may	15:05:08	587	17.6	19.4	1.8	29	16.70
18-14-may	16:05:08	587	17.6	19.8	2.1	29	16.70
18-14-may	17:05:08	587	17.2	18.8	1.6	29	16.70
18-14-may	18:05:08	587	16.6	17.7	1.1	29	16.70
18-14-may	19:05:08	588	11.1	12.1	1.1	29	16.71
18-14-may	20:05:08	588	8.5	7.9	-0.6	28	16.71
18-14-may	21:05:08	589	10.0	8.5	-1.6	28	16.71
18-14-may	22:05:08	589	9.3	8.2	-1.1	28	16.71
18-14-may	23:05:08	589	8.7	7.7	-1.0	28	16.72

BGI PQ200 Air Sampling System Downloaded 2018 22 may 12:27:44

Job Details:

Job Name: 18May22D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3420:03
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	589	586	587	mmHg
TA	22	5.4	13.6	°C
Q	---	---	16.7	Lpm

QCV	0.54 %
Max overheat	4 °C
occured	20-may 15:37:44

Timer Information:

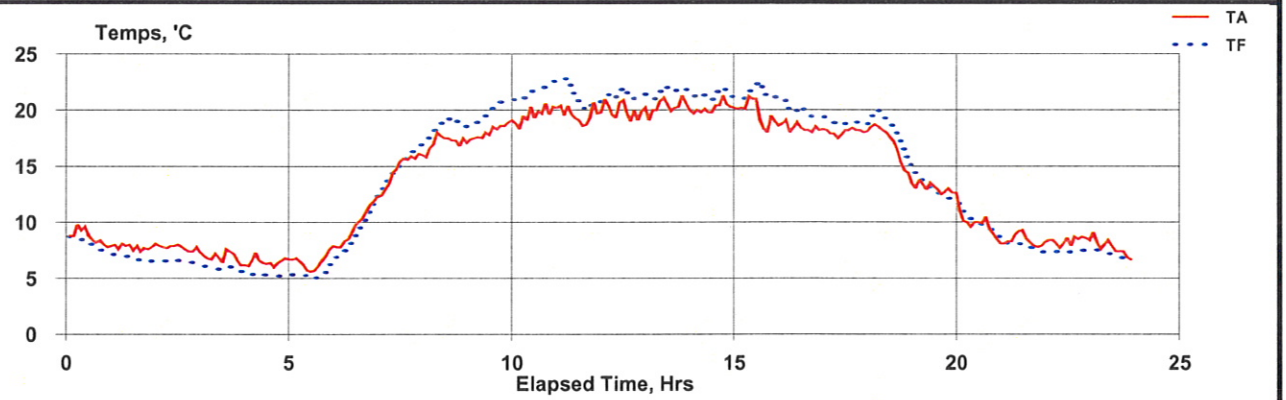
	Date dd-mmm	Time hh:mm:ss
Start:	18-20-may	0:00:08
Stop:	18-21-may	0:00:04

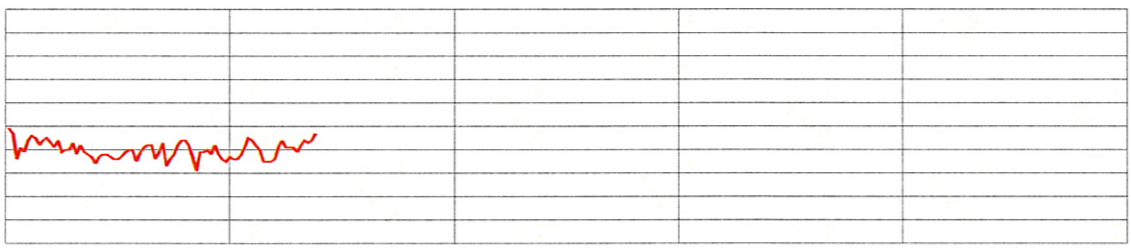
ET: 23:59

Mass Concentration Data:

Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-20-may	0:05:08	588	8.7	8.0	-0.7	31	16.70
18-20-may	1:05:08	588	7.8	6.8	-1.0	31	16.71
18-20-may	2:05:08	588	7.7	6.5	-1.2	31	16.71
18-20-may	3:05:08	588	6.9	5.9	-1.0	31	16.71
18-20-may	4:05:08	588	6.5	5.3	-1.2	31	16.71
18-20-may	5:05:08	589	6.5	5.4	-1.1	31	16.72
18-20-may	6:05:08	589	9.9	9.2	-0.7	32	16.71
18-20-may	7:05:08	589	14.9	15.1	0.2	33	16.71
18-20-may	8:05:08	589	17.2	18.5	1.3	33	16.70
18-20-may	9:05:08	588	18.2	19.8	1.7	34	16.71
18-20-may	10:05:08	588	19.6	21.7	2.1	35	16.71
18-20-may	11:05:08	588	19.6	21.2	1.6	34	16.71
18-20-may	12:05:08	587	20.0	21.3	1.3	34	16.71
18-20-may	13:05:08	587	20.3	21.6	1.2	34	16.70
18-20-may	14:05:08	587	20.2	21.3	1.1	35	16.70
18-20-may	15:05:08	587	19.7	21.5	1.8	35	16.70
18-20-may	16:05:08	586	18.4	19.9	1.5	35	16.72
18-20-may	17:05:08	586	18.1	18.9	0.8	34	16.70
18-20-may	18:05:08	586	16.7	18.1	1.3	34	16.71
18-20-may	19:05:08	587	13.0	12.9	-0.1	34	16.73
18-20-may	20:05:08	587	9.7	9.9	0.2	34	16.71
18-20-may	21:05:08	587	8.4	7.8	-0.6	34	16.71
18-20-may	22:05:08	588	8.3	7.4	-1.0	34	16.71
18-20-may	23:05:08	588	7.7	7.0	-0.7	34	16.71

BGI PQ200 Air Sampling System Downloaded 2018 29 may 11:14:11

Job Details:

Job Name: 18May29D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3444:02
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	589	583	586	mmHg
TA	21.9	0.1	11.8	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 3.7 °C
occured 28-may 13:52:21

Timer Information:

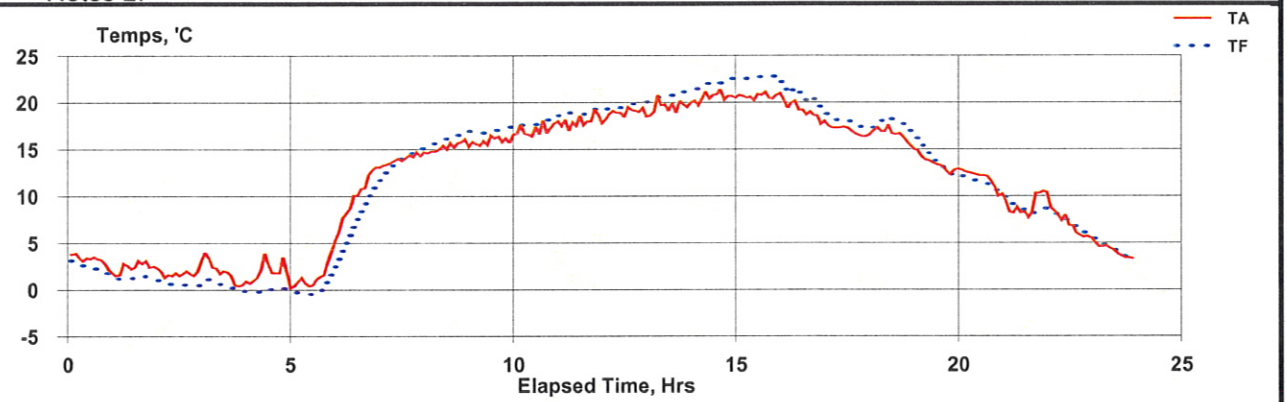
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-may	0:00:08
Stop:	18-27-may	0:00:04

ET: 23:59

Mass Concentration Data:

Filter ID:	36	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



18-26-may	0:05:08	589	3.1	2.3	-0.8	31	16.70
18-26-may	1:05:08	588	2.4	1.2	-1.2	31	16.72
18-26-may	2:05:08	588	1.8	0.6	-1.2	31	16.72
18-26-may	3:05:08	588	1.8	0.4	-1.4	31	16.71
18-26-may	4:05:08	588	1.9	-0.1	-2.0	31	16.71
18-26-may	5:05:08	588	1.7	0.1	-1.6	31	16.71
18-26-may	6:05:08	587	10.3	7.6	-2.7	32	16.71
18-26-may	7:05:08	587	14.0	13.9	-0.1	33	16.69
18-26-may	8:05:08	587	15.3	16.1	0.8	34	16.71
18-26-may	9:05:08	587	16.0	17.0	1.0	34	16.71
18-26-may	10:05:08	587	17.2	17.8	0.7	35	16.72
18-26-may	11:05:08	586	18.0	18.9	0.9	34	16.71
18-26-may	12:05:08	586	18.9	19.6	0.7	34	16.71
18-26-may	13:05:08	585	19.6	20.7	1.1	35	16.71
18-26-may	14:05:08	585	20.6	22.0	1.4	35	16.71
18-26-may	15:05:08	584	20.7	22.6	1.9	35	16.71
18-26-may	16:05:08	584	19.1	20.6	1.5	35	16.71
18-26-may	17:05:08	584	17.0	17.8	0.8	35	16.71
18-26-may	18:05:08	585	16.5	17.7	1.2	35	16.71
18-26-may	19:05:08	585	13.4	13.8	0.4	35	16.72
18-26-may	20:05:08	585	11.8	11.3	-0.5	35	16.71
18-26-may	21:05:08	586	9.1	8.7	-0.3	34	16.71
18-26-may	22:05:08	587	6.9	7.1	0.2	35	16.73
18-26-may	23:05:08	587	4.1	4.2	0.2	34	16.71

BGI PQ200 Air Sampling System

Downloaded 2018 04 jun 15:24:17

Job Details:

Job Name: 18Jun04D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3468:01
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	586	589	mmHg
TA	25	3.2	15.6	°C
Q	---	---	16.7	Lpm

QCV	0.5 %
Max overheat	5.8 °C
occured	02-jun 19:28:23

Timer Information:

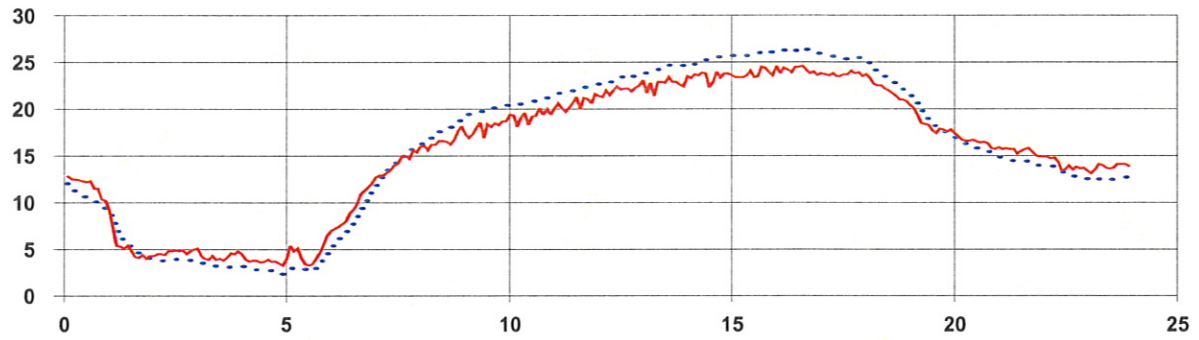
	Date dd-mmm	Time hh:mm:ss
Start:	18-01-jun	0:00:08
Stop:	18-02-jun	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	41	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:



Overheat, TF-

18-01-jun	0:05:08	587	11.7	10.5	-1.2	27	16.71
18-01-jun	1:05:08	588	4.9	5.4	0.5	27	16.71
18-01-jun	2:05:08	588	4.8	3.8	-0.9	26	16.71
18-01-jun	3:05:08	588	4.2	3.2	-1.0	26	16.71
18-01-jun	4:05:08	589	3.7	2.7	-1.0	27	16.71
18-01-jun	5:05:08	589	4.8	3.3	-1.5	27	16.72
18-01-jun	6:05:08	589	9.8	8.3	-1.5	28	16.71
18-01-jun	7:05:08	590	14.4	14.4	0.1	29	16.71
18-01-jun	8:05:08	590	16.7	17.7	1.1	29	16.72
18-01-jun	9:05:08	590	18.2	19.9	1.7	30	16.71
18-01-jun	10:05:08	590	19.3	20.8	1.5	30	16.71
18-01-jun	11:05:08	590	20.7	22.1	1.4	31	16.71
18-01-jun	12:05:08	590	22.1	23.2	1.1	31	16.71
18-01-jun	13:05:08	590	22.7	24.3	1.7	31	16.71
18-01-jun	14:05:08	590	23.5	25.2	1.7	31	16.71
18-01-jun	15:05:08	590	23.8	25.8	2.0	32	16.70
18-01-jun	16:05:08	590	24.1	26.2	2.1	32	16.71
18-01-jun	17:05:08	590	23.7	25.5	1.8	32	16.71
18-01-jun	18:05:08	590	21.8	23.1	1.3	32	16.71
18-01-jun	19:05:08	591	18.2	18.7	0.5	31	16.72
18-01-jun	20:05:08	591	16.4	15.8	-0.6	31	16.71
18-01-jun	21:05:08	592	15.4	14.3	-1.1	31	16.71
18-01-jun	22:05:08	592	14.0	13.1	-0.8	31	16.70
18-01-jun	23:05:08	593	13.8	12.5	-1.3	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 08 jun 12:21:18

Job Details:

Job Name: 18Jun08D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3492:00
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	591	587	589	mmHg
TA	27.6	5.5	17.2	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 2.9 °C
occured 07-jun 15:01:45

Timer Information:

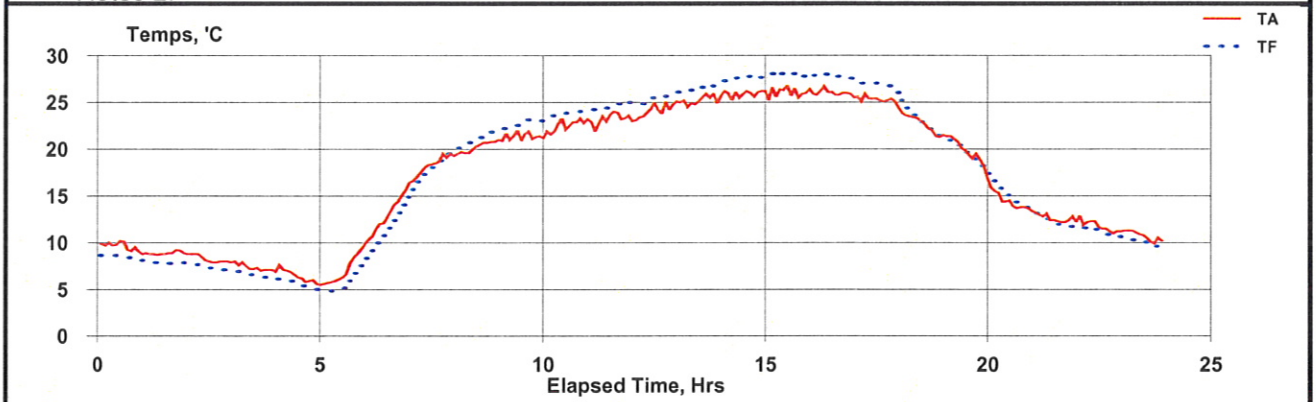
	Date dd-mmm	Time hh:mm:ss
Start:	18-07-jun	0:00:08
Stop:	18-08-jun	0:00:05

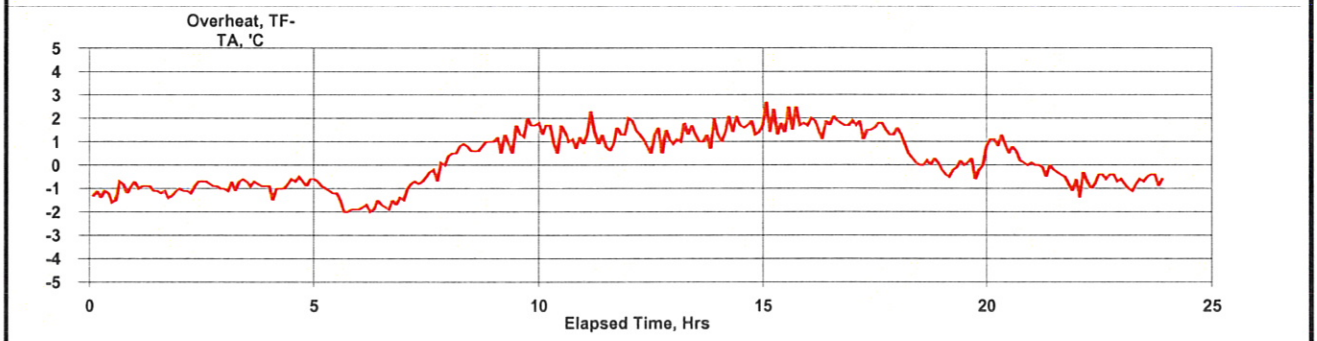
ET: 23:59

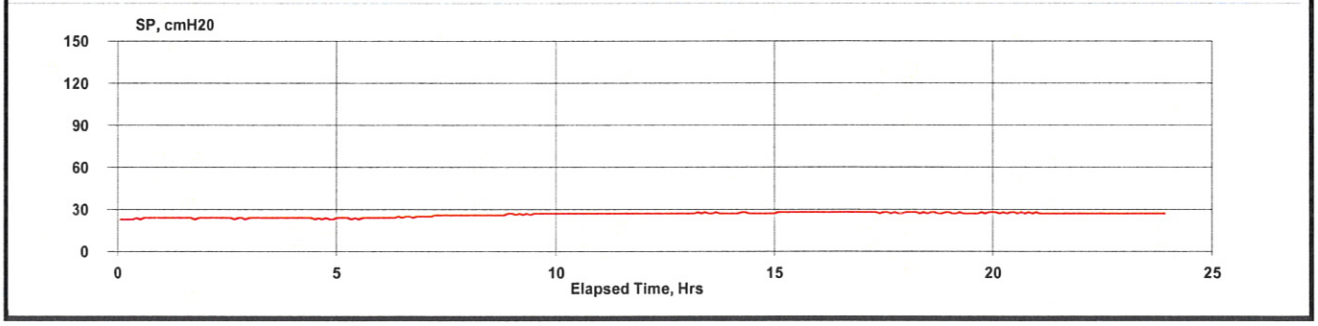
Mass Concentration Data:

Filter ID:	15	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-07-jun	0:05:08	589	9.6	8.5	-1.1	24	16.71
18-07-jun	1:05:08	589	8.9	7.8	-1.1	24	16.71
18-07-jun	2:05:08	589	8.2	7.3	-0.9	24	16.72
18-07-jun	3:05:08	589	7.3	6.5	-0.8	24	16.71
18-07-jun	4:05:08	589	6.4	5.6	-0.8	24	16.72
18-07-jun	5:05:08	589	7.2	5.7	-1.4	24	16.71
18-07-jun	6:05:08	590	13.2	11.5	-1.7	25	16.71
18-07-jun	7:05:08	590	18.4	17.9	-0.4	26	16.72
18-07-jun	8:05:08	590	20.3	21.0	0.8	26	16.72
18-07-jun	9:05:08	590	21.4	22.7	1.3	27	16.71
18-07-jun	10:05:08	590	22.6	23.8	1.2	27	16.72
18-07-jun	11:05:08	590	23.2	24.5	1.3	27	16.71
18-07-jun	12:05:08	589	24.2	25.4	1.2	27	16.70
18-07-jun	13:05:08	589	25.3	26.5	1.3	27	16.70
18-07-jun	14:05:08	589	25.9	27.5	1.6	27	16.70
18-07-jun	15:05:08	589	26.1	28.0	1.9	28	16.70
18-07-jun	16:05:08	588	26.0	27.8	1.8	28	16.71
18-07-jun	17:05:08	588	25.3	26.8	1.6	28	16.71
18-07-jun	18:05:08	589	22.6	22.9	0.3	28	16.71
18-07-jun	19:05:08	589	19.7	19.7	0.0	27	16.72
18-07-jun	20:05:08	590	14.4	15.0	0.6	28	16.70
18-07-jun	21:05:08	590	12.6	12.2	-0.4	27	16.71
18-07-jun	22:05:08	591	11.7	11.1	-0.6	27	16.70
18-07-jun	23:05:08	591	10.7	10.0	-0.7	27	16.69

BGI PQ200 Air Sampling System Downloaded 2018 14 jun 14:27:59

Job Details:

Job Name: 18Jun14D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3515:59
Flags:

Job Code:
Site Name: 2366D
Station Code:
Operators: KN
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	591	587	589	mmHg
TA	31.7	9.5	20.7	°C
Q	---	---	16.7	Lpm

QCV	0.52 %
Max overheat	3.5 °C
occured	13-jun 15:01:09

Timer Information:

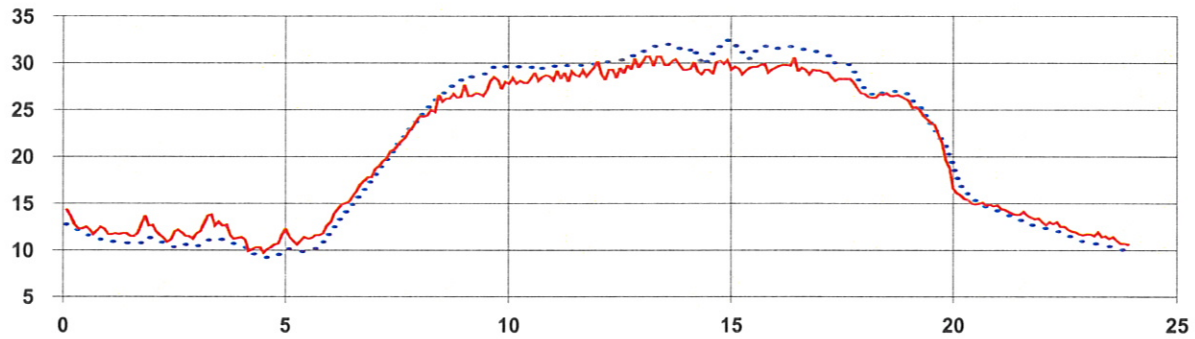
	Date dd-mmm	Time hh:mm:ss
Start:	18-13-jun	0:00:08
Stop:	18-14-jun	0:00:04

ET: 23:59

Mass Concentration Data:

Filter ID:	25	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-13-jun	0:05:08	590	12.5	11.7	-0.8	23	16.71
18-13-jun	1:05:08	590	12.1	10.9	-1.3	23	16.70
18-13-jun	2:05:08	590	11.6	10.6	-1.0	23	16.71
18-13-jun	3:05:08	590	12.4	10.9	-1.5	23	16.70
18-13-jun	4:05:08	590	10.6	9.6	-1.0	23	16.71
18-13-jun	5:05:08	591	11.5	10.3	-1.3	23	16.70
18-13-jun	6:05:08	591	16.2	15.1	-1.1	24	16.72
18-13-jun	7:05:08	590	21.5	21.3	-0.2	25	16.70
18-13-jun	8:05:08	590	25.9	26.6	0.8	26	16.69
18-13-jun	9:05:08	590	27.3	29.1	1.7	26	16.71
18-13-jun	10:05:08	590	28.3	29.5	1.2	27	16.72
18-13-jun	11:05:08	590	29.0	29.8	0.8	27	16.70
18-13-jun	12:05:08	589	29.3	30.4	1.1	27	16.70
18-13-jun	13:05:08	589	30.1	31.7	1.6	28	16.70
18-13-jun	14:05:08	588	29.6	31.2	1.7	28	16.69
18-13-jun	15:05:08	588	29.4	31.3	1.9	28	16.71
18-13-jun	16:05:08	588	29.5	31.5	2.0	29	16.71
18-13-jun	17:05:08	588	28.0	29.6	1.5	29	16.70
18-13-jun	18:05:08	588	26.4	26.8	0.4	28	16.71
18-13-jun	19:05:08	588	22.5	23.2	0.7	28	16.71
18-13-jun	20:05:08	589	15.2	15.5	0.3	28	16.70
18-13-jun	21:05:08	589	13.8	13.2	-0.6	28	16.70
18-13-jun	22:05:08	589	12.3	11.6	-0.7	28	16.71
18-13-jun	23:05:08	589	11.2	10.3	-0.9	27	16.71

BGI PQ200 Air Sampling System Downloaded 2018 27 jun 15:14:12

Job Details:

Job Name: 18Jun27D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3603:09
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	592	589	590	mmHg
TA	33.1	10	22.2	°C
Q	---	---	16.7	Lpm

QCV	0.55 %
Max overheat	3.4 °C
occured	26-jun 15:10:26

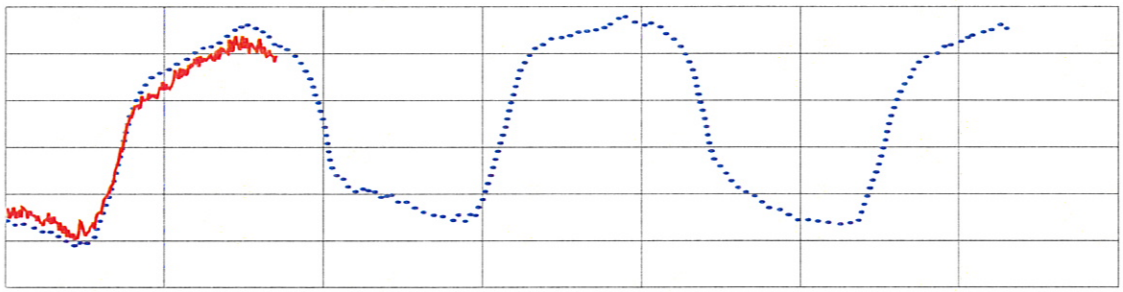
Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-25-jun	0:00:08
Stop:	18-27-jun	15:11:45
ET:	63:11:00	

Mass Concentration Data:

Filter ID:	JBR8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	63.305	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-25-jun	0:05:08	591	13.0	11.7	-1.3	34	16.71
18-25-jun	1:05:08	591	12.8	11.5	-1.3	34	16.71
18-25-jun	2:05:08	591	12.2	11.0	-1.2	35	16.72
18-25-jun	3:05:08	591	11.4	10.2	-1.2	35	16.71
18-25-jun	4:05:08	591	10.9	9.6	-1.3	35	16.72
18-25-jun	5:05:08	591	12.0	10.6	-1.4	35	16.71
18-25-jun	6:05:08	591	15.7	14.9	-0.8	36	16.71
18-25-jun	7:05:08	592	21.3	21.0	-0.3	37	16.71
18-25-jun	8:05:08	591	24.8	25.8	1.0	38	16.71
18-25-jun	9:05:08	591	25.8	27.7	1.8	39	16.71
18-25-jun	10:05:08	591	27.1	28.5	1.4	40	16.71
18-25-jun	11:05:08	591	28.5	29.6	1.1	40	16.70
18-25-jun	12:05:08	590	29.5	30.5	1.0	41	16.71
18-25-jun	13:05:08	590	30.0	31.2	1.2	41	16.71
18-25-jun	14:05:08	590	31.1	32.5	1.5	41	16.70
18-25-jun	15:05:08	589	30.9	32.8	1.9	42	16.71
18-25-jun	16:05:08	589	30.0	31.8	1.8	42	16.71
18-25-jun	17:05:08	589	29.2	30.5	1.3	42	16.70
18-25-jun	18:05:08	590	28.0	29.1	1.1	42	16.71
18-25-jun	19:05:08	590	25.2	25.5	0.2	41	16.70
18-25-jun	20:05:08	591	18.0	18.7	0.7	42	16.71
18-25-jun	21:05:08	591	16.6	15.9	-0.7	42	16.71
18-25-jun	22:05:08	591	16.7	15.4	-1.3	42	16.71
18-25-jun	23:05:08	591	15.9	14.9	-1.1	42	16.71
18-26-jun	0:05:08	591	15.6	14.5	-1.1	42	16.71
18-26-jun	1:05:08	591	14.6	13.7	-1.0	42	16.71
18-26-jun	2:05:08	591	13.8	12.8	-1.0	42	16.71
18-26-jun	3:05:08	591	13.7	12.5	-1.2	42	16.71
18-26-jun	4:05:08	591	13.5	12.4	-1.2	42	16.71
18-26-jun	5:05:08	592	14.1	13.0	-1.1	42	16.71
18-26-jun	6:05:08	592	17.8	16.8	-1.0	43	16.71
18-26-jun	7:05:08	592	23.2	22.6	-0.6	43	16.71
18-26-jun	8:05:08	592	27.8	28.2	0.4	43	16.71
18-26-jun	9:05:08	591	28.8	30.6	1.7	44	16.70
18-26-jun	10:05:08	591	30.0	31.5	1.5	44	16.71
18-26-jun	11:05:08	591	30.7	32.0	1.3	44	16.71
18-26-jun	12:05:08	591	31.2	32.3	1.2	44	16.71
18-26-jun	13:05:08	591	31.2	32.8	1.6	44	16.71
18-26-jun	14:05:08	590	31.4	33.6	2.2	44	16.71
18-26-jun	15:05:08	590	31.4	33.5	2.1	44	16.72
18-26-jun	16:05:08	590	31.4	33.2	1.8	44	16.71
18-26-jun	17:05:08	590	30.5	32.3	1.7	45	16.70
18-26-jun	18:05:08	590	29.3	30.5	1.3	44	16.71
18-26-jun	19:05:08	590	25.2	26.3	1.1	44	16.70
18-26-jun	20:05:08	591	19.0	19.6	0.6	45	16.71
18-26-jun	21:05:08	591	17.1	16.8	-0.4	45	16.70
18-26-jun	22:05:08	591	16.1	15.2	-0.9	45	16.71
18-26-jun	23:05:08	592	15.1	14.2	-0.9	45	16.71
18-27-jun	0:05:08	592	14.3	13.2	-1.1	45	16.71
18-27-jun	1:05:08	592	13.6	12.5	-1.1	45	16.71
18-27-jun	2:05:08	591	13.4	12.1	-1.3	45	16.71
18-27-jun	3:05:08	591	13.2	12.0	-1.3	45	16.71
18-27-jun	4:05:08	591	13.0	11.8	-1.2	45	16.71
18-27-jun	5:05:08	591	13.3	12.1	-1.2	45	16.71
18-27-jun	6:05:08	592	16.8	15.9	-0.9	46	16.71

18-27-jun	7:05:08	592	22.3	21.6	-0.7	46	16.71
18-27-jun	8:05:08	591	25.6	26.3	0.7	47	16.70
18-27-jun	9:05:08	591	27.5	28.9	1.4	47	16.70
18-27-jun	10:05:08	591	28.3	29.9	1.6	47	16.71
18-27-jun	11:05:08	591	29.6	30.9	1.4	47	16.71
18-27-jun	12:05:08	590	30.4	31.6	1.2	47	16.70
18-27-jun	13:05:08	590	30.9	32.2	1.3	47	16.71
18-27-jun	14:05:08	590	31.1	32.7	1.6	48	16.70
18-27-jun	15:05:08	589	31.3	32.7	1.4	48	16.69

Collocated Monitor 2398E

PM_{10} Sampler Summary

April 1, 2018 - June 30, 2018

Network: **Alton Coal Development**
Site: Coal Hollow
Sampler ID: Coal Hollow-E **AQS ID:**
Sampler Type: BGI FRM Single

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
04/02/18	P2946892	**45.4**	**55.7**	23:59	24.0	19.6	375.474	376.565	1.091	HT	
04/08/18	P2947092	**7.7**	**9.4**	23:59	24.0	19.7	369.764	369.950	0.186	HT	
04/14/18	P2947097	**7.7**	**9.2**	23:59	24.0	20.0	374.444	374.630	0.186		
04/20/18	P2947102	**21.7**	**26.0**	23:59	24.0	20.1	370.355	370.879	0.524		
04/26/18	P2947327	**50.9**	**63.2**	23:59	24.0	19.4	374.426	375.651	1.225		
05/02/18	P2947333	**7.0**	**8.4**	23:59	24.0	20.1	371.247	371.416	0.169	HT	
05/08/18	P2947561	**41.7**	**52.3**	23:59	24.0	19.2	375.566	376.570	1.004		
05/14/18	P2947567	**52.0**	**64.0**	23:59	24.0	19.5	378.420	379.670	1.250		
05/20/18	P2947773	**8.8**	**10.9**	23:59	24.0	19.3	372.113	372.325	0.212		
05/26/18	P2947778	**34.4**	**42.5**	23:59	24.0	19.4	379.713	380.540	0.827		
06/01/18	P2947783	**27.7**	**34.6**	23:59	24.0	19.3	368.730	369.398	0.668		
06/07/18	P2948036	**70.6**	**88.6**	23:59	24.0	19.2	380.173	381.871	1.698		
06/13/18	P2948041	**317.0**	**402.6**	23:59	24.0	18.9	369.487	377.110	7.623		Loose particles
06/19/18	P2948234	**165.3**	**207.2**	23:59	24.0	19.2	373.745	377.720	3.975		Loose particles
06/25/18	P2948240	**115.6**	**146.7**	23:59	24.0	18.9	368.360	371.139	2.779		Loose particles
06/13/18	P2948042		**Field Blank**				371.379	371.379	0.000		

# Valid	Recovery	Average	St. Dev.	Max	Min
15	**100%**	**81.4**	**104.5**	**402.6**	**8.4**

BGI PQ200 Air Sampling System Downloaded 2018 05 apr 11:01:08

Job Details:

Job Name: 18Apr05E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 910:23
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	588	584	585	mmHg
TA	18.7	-1.2	8.7	°C
Q	---	---	16.7	Lpm

QCV 0.53 %
Max overheat 4 °C
occured 04-apr 19:24:42

Timer Information:

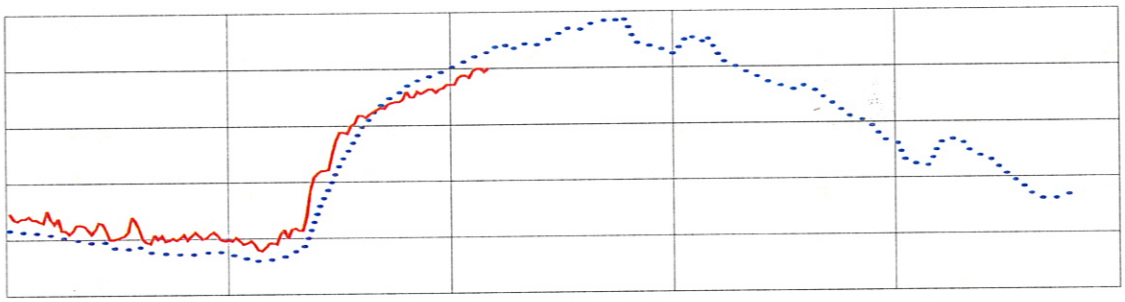
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-apr	0:00:08
Stop:	18-03-apr	0:00:05

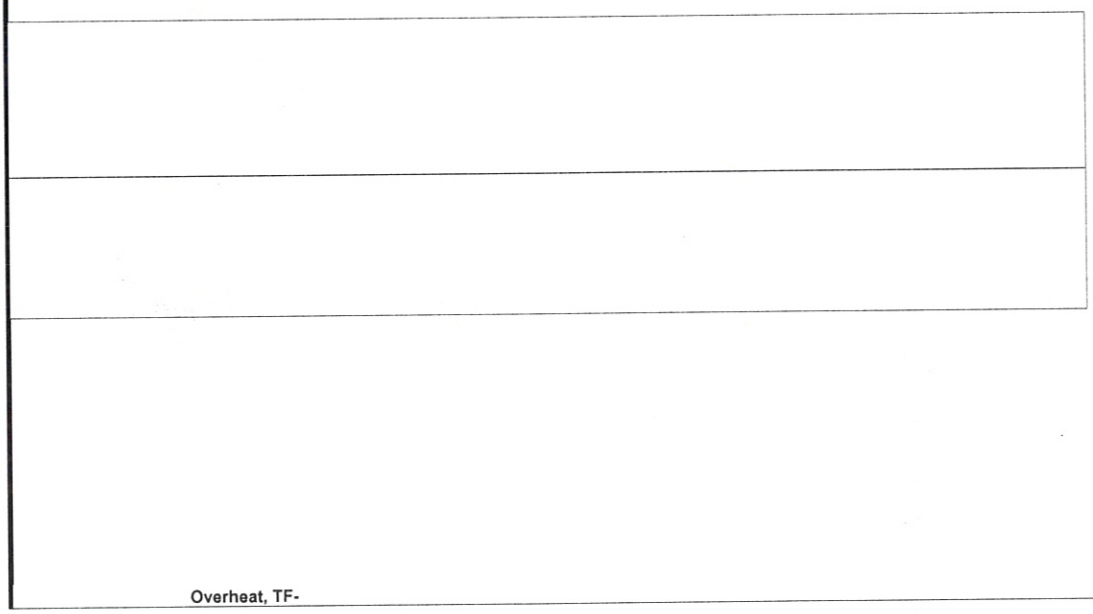
ET: 23:59

Mass Concentration Data:

Filter ID:	30	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-02-apr	0:05:08	587	1.9	0.6	-1.3	31	16.71
18-02-apr	1:05:08	587	1.0	0.0	-1.1	31	16.71
18-02-apr	2:05:08	586	0.8	-0.7	-1.4	32	16.72
18-02-apr	3:05:08	586	0.0	-1.3	-1.3	32	16.70
18-02-apr	4:05:08	586	0.2	-1.3	-1.5	32	16.72
18-02-apr	5:05:08	586	-0.5	-1.8	-1.3	32	16.71
18-02-apr	6:05:08	586	1.8	-0.7	-2.5	32	16.71
18-02-apr	7:05:08	586	8.7	6.5	-2.2	34	16.71
18-02-apr	8:05:08	586	11.7	11.9	0.2	35	16.71
18-02-apr	9:05:08	586	13.1	14.3	1.3	36	16.71
18-02-apr	10:05:08	586	14.6	16.0	1.4	36	16.72
18-02-apr	11:05:08	586	15.4	17.0	1.6	37	16.71
18-02-apr	12:05:08	585	16.2	18.0	1.9	37	16.71
18-02-apr	13:05:08	585	16.7	19.1	2.4	37	16.70
18-02-apr	14:05:08	585	15.4	16.9	1.5	37	16.70
18-02-apr	15:05:08	585	15.7	17.2	1.5	37	16.71
18-02-apr	16:05:08	585	14.1	14.7	0.7	37	16.71
18-02-apr	17:05:08	585	13.4	13.3	-0.1	37	16.72
18-02-apr	18:05:08	585	12.3	11.8	-0.5	37	16.71
18-02-apr	19:05:08	585	10.3	9.3	-1.0	37	16.71
18-02-apr	20:05:08	585	7.5	6.7	-0.8	37	16.70
18-02-apr	21:05:08	586	8.3	7.8	-0.5	37	16.71
18-02-apr	22:05:08	587	5.2	5.3	0.1	37	16.70
18-02-apr	23:05:08	587	3.6	3.1	-0.5	36	16.72

BGI PQ200 Air Sampling System Downloaded 2018 10 apr 11:34:24

Job Details:

Job Name: 18Apr10E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 934:22
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	592	585	589	mmHg
TA	16.6	0	8.2	°C
Q	---	---	16.71	Lpm

QCV 0.55 %

Max overheat 3 °C
occured 08-apr 11:17:40

Timer Information:

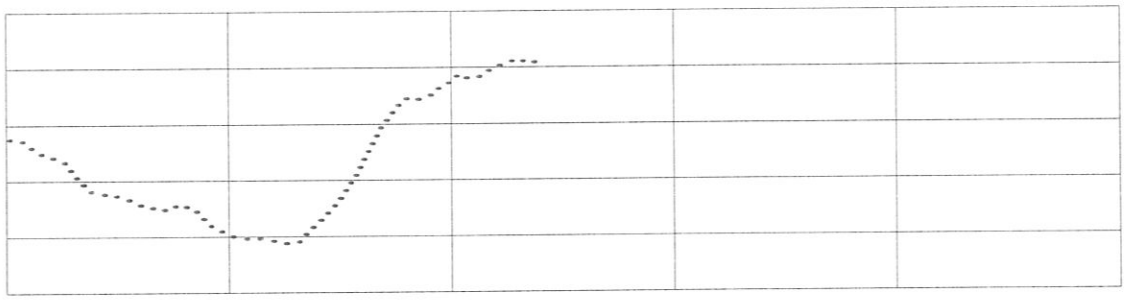
	Date dd-mmm	Time hh:mm:ss
Start:	18-08-apr	0:00:08
Stop:	18-09-apr	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	32	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-08-apr	0:05:08	587	9.2	8.0	-1.2	29	16.71
18-08-apr	1:05:08	587	5.9	5.5	-0.4	29	16.72
18-08-apr	2:05:08	587	4.8	3.5	-1.3	29	16.71
18-08-apr	3:05:08	587	4.6	2.6	-2.0	29	16.71
18-08-apr	4:05:08	587	2.2	1.4	-0.8	29	16.72
18-08-apr	5:05:08	587	1.0	-0.2	-1.2	29	16.71
18-08-apr	6:05:08	588	0.8	-0.1	-0.9	29	16.71
18-08-apr	7:05:08	588	4.6	3.7	-0.8	30	16.71
18-08-apr	8:05:08	589	10.1	10.1	0.0	31	16.71
18-08-apr	9:05:08	589	10.8	12.7	1.9	32	16.71
18-08-apr	10:05:08	590	12.2	14.3	2.1	32	16.71
18-08-apr	11:05:08	590	13.2	15.4	2.2	32	16.71
18-08-apr	12:05:08	590	13.8	15.6	1.7	32	16.72
18-08-apr	13:05:08	590	15.4	16.9	1.5	32	16.71
18-08-apr	14:05:08	590	14.9	16.8	2.0	32	16.71
18-08-apr	15:05:08	590	15.0	17.0	2.0	32	16.71
18-08-apr	16:05:08	590	14.5	16.2	1.7	32	16.71
18-08-apr	17:05:08	590	13.8	14.8	1.0	32	16.71
18-08-apr	18:05:08	590	11.4	11.4	-0.1	31	16.71
18-08-apr	19:05:08	591	6.1	6.3	0.2	31	16.71
18-08-apr	20:05:08	591	4.2	3.3	-0.9	30	16.72
18-08-apr	21:05:08	591	3.9	2.6	-1.3	30	16.71
18-08-apr	22:05:08	592	1.4	0.6	-0.8	30	16.71
18-08-apr	23:05:08	592	2.0	0.6	-1.4	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 10 apr 11:34:24

Job Details:

Job Name: 18Apr10E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 934:22
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	592	585	589	mmHg
TA	16.6	0	8.2	°C
Q	---	---	16.71	Lpm

QCV 0.55 %
Max overheat 3 °C
occured 08-apr 11:17:40

Timer Information:

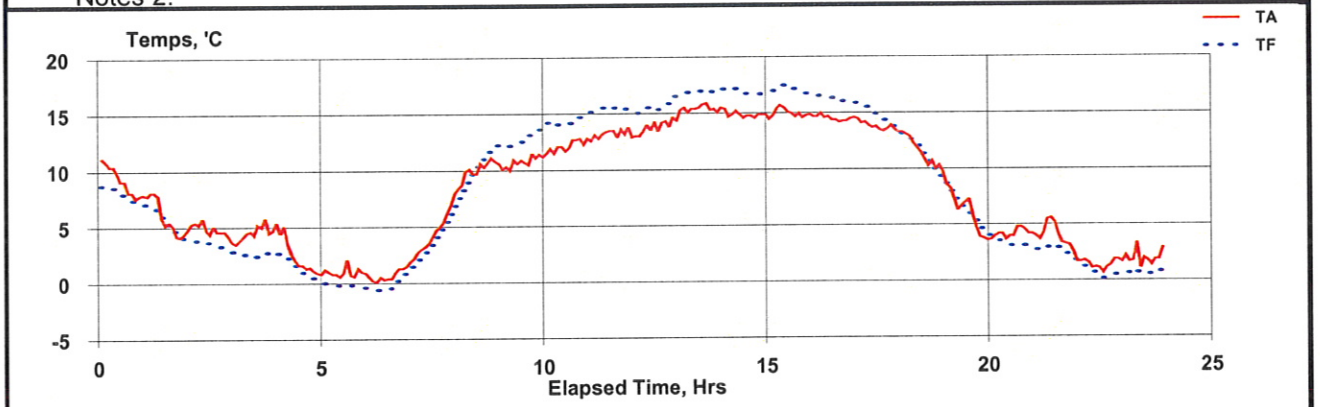
	Date dd-mmm	Time hh:mm:ss
Start:	18-08-apr	0:00:08
Stop:	18-09-apr	0:00:05

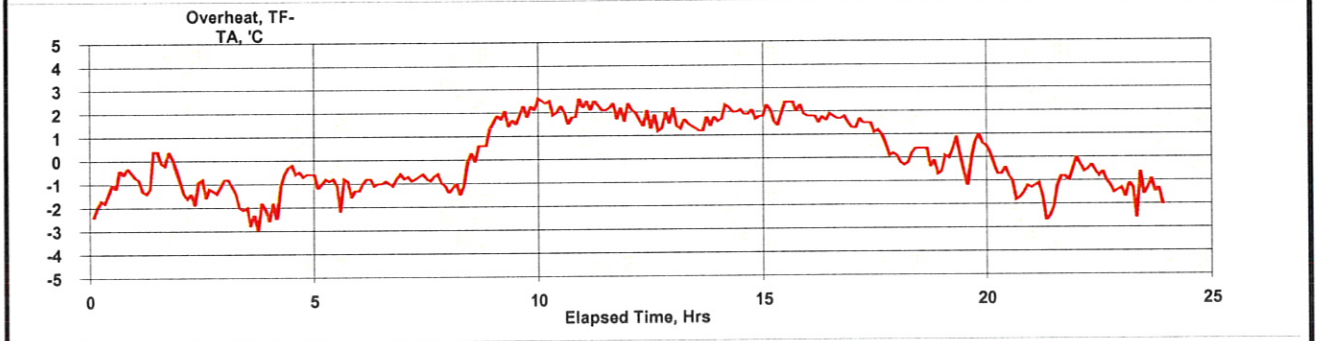
ET: 23:59

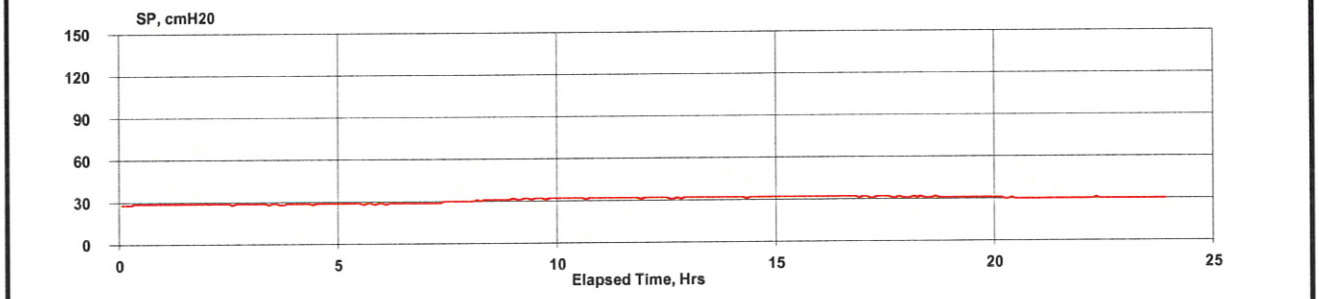
Mass Concentration Data:

Filter ID:	32	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-08-apr	0:05:08	587	9.2	8.0	-1.2	29	16.71
18-08-apr	1:05:08	587	5.9	5.5	-0.4	29	16.72
18-08-apr	2:05:08	587	4.8	3.5	-1.3	29	16.71
18-08-apr	3:05:08	587	4.6	2.6	-2.0	29	16.71
18-08-apr	4:05:08	587	2.2	1.4	-0.8	29	16.72
18-08-apr	5:05:08	587	1.0	-0.2	-1.2	29	16.71
18-08-apr	6:05:08	588	0.8	-0.1	-0.9	29	16.71
18-08-apr	7:05:08	588	4.6	3.7	-0.8	30	16.71
18-08-apr	8:05:08	589	10.1	10.1	0.0	31	16.71
18-08-apr	9:05:08	589	10.8	12.7	1.9	32	16.71
18-08-apr	10:05:08	590	12.2	14.3	2.1	32	16.71
18-08-apr	11:05:08	590	13.2	15.4	2.2	32	16.71
18-08-apr	12:05:08	590	13.8	15.6	1.7	32	16.72
18-08-apr	13:05:08	590	15.4	16.9	1.5	32	16.71
18-08-apr	14:05:08	590	14.9	16.8	2.0	32	16.71
18-08-apr	15:05:08	590	15.0	17.0	2.0	32	16.71
18-08-apr	16:05:08	590	14.5	16.2	1.7	32	16.71
18-08-apr	17:05:08	590	13.8	14.8	1.0	32	16.71
18-08-apr	18:05:08	590	11.4	11.4	-0.1	31	16.71
18-08-apr	19:05:08	591	6.1	6.3	0.2	31	16.71
18-08-apr	20:05:08	591	4.2	3.3	-0.9	30	16.72
18-08-apr	21:05:08	591	3.9	2.6	-1.3	30	16.71
18-08-apr	22:05:08	592	1.4	0.6	-0.8	30	16.71
18-08-apr	23:05:08	592	2.0	0.6	-1.4	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 23 apr 13:33:35

Job Details:

Job Name: 18Apr23E.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3300:08
Flags:

Job Code:
Site Name: 2398E
Station Code:
Operators: KN
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	591	582	586	mmHg
TA	9.1	-6.1	1.9	°C
Q	---	---	16.7	Lpm

QCV 0.53 %
Max overheat 3.2 °C
occured 20-apr 13:10:24

Timer Information:

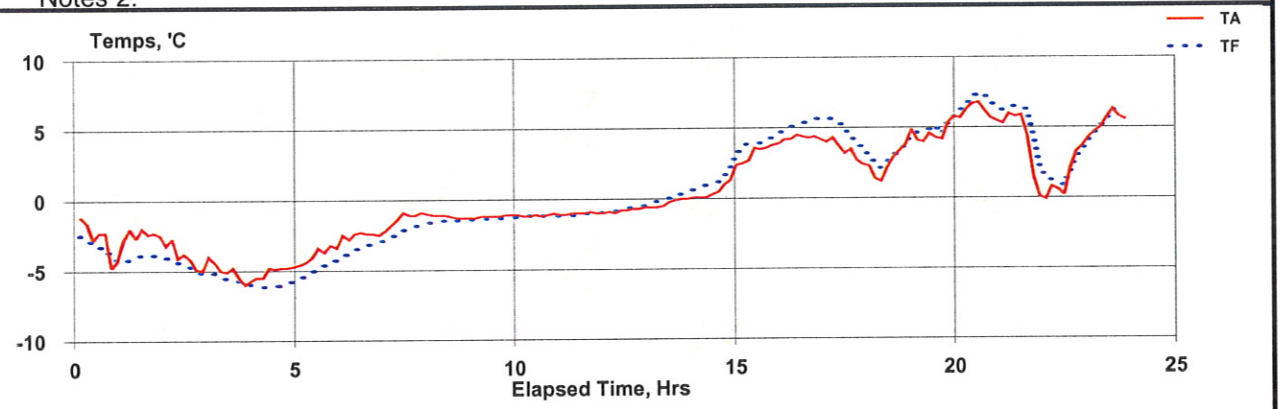
	Date dd-mmm	Time hh:mm:ss
Start:	18-20-apr	0:00:08
Stop:	18-21-apr	0:00:05

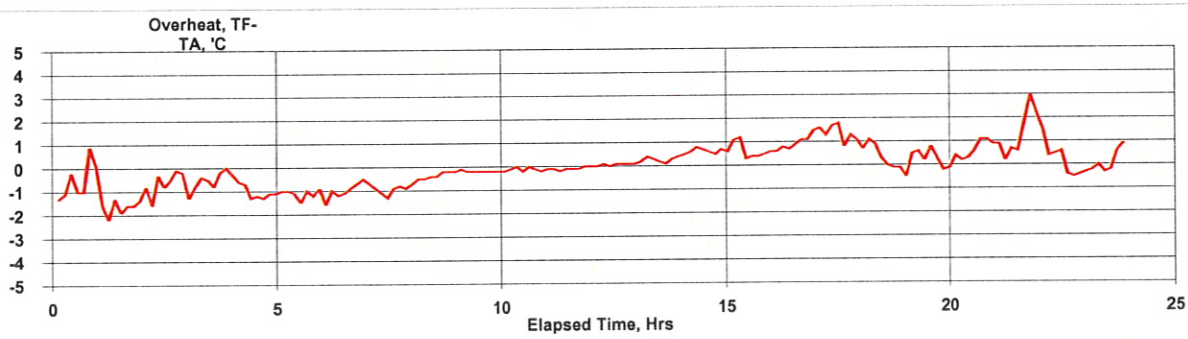
ET: 23:59

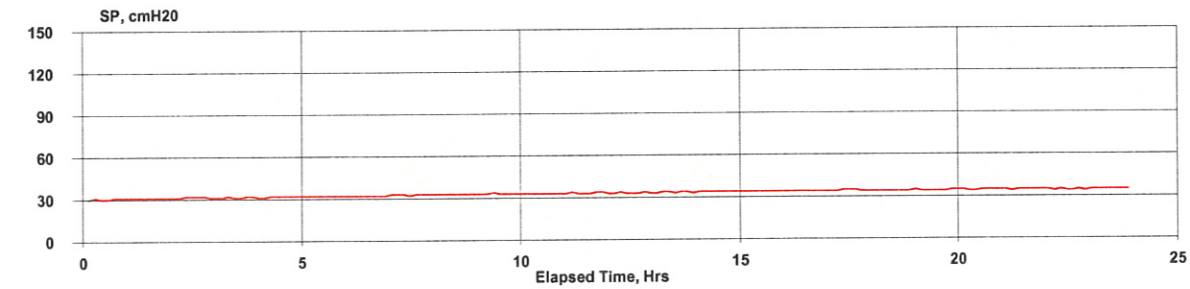
Mass Concentration Data:

Filter ID:	42	
		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-20-apr	0:05:08	584	-2.6	-3.6	-1.0	31	16.71
18-20-apr	1:05:08	584	-3.8	-4.7	-0.8	31	16.71
18-20-apr	2:05:08	584	-5.2	-5.9	-0.8	32	16.71
18-20-apr	3:05:08	584	-3.3	-4.4	-1.1	32	16.71
18-20-apr	4:05:08	583	-1.5	-2.3	-0.8	33	16.72
18-20-apr	5:05:08	583	-1.2	-1.4	-0.2	33	16.71
18-20-apr	6:05:08	584	-1.1	-1.2	-0.1	33	16.71
18-20-apr	7:05:08	584	-0.8	-0.7	0.1	33	16.72
18-20-apr	8:05:08	584	0.2	0.7	0.5	34	16.72
18-20-apr	9:05:08	585	3.6	4.3	0.7	34	16.70
18-20-apr	10:05:08	585	3.4	4.6	1.3	34	16.71
18-20-apr	11:05:08	586	3.8	4.0	0.2	34	16.72
18-20-apr	12:05:08	586	6.0	6.6	0.6	35	16.70
18-20-apr	13:05:08	588	2.1	2.8	0.7	35	16.72
18-20-apr	14:05:08	588	5.7	5.9	0.2	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 27 apr 09:19:31

Job Details:

Job Name: 18Apr27E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1006:19
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	595	591	592	mmHg
TA	25.1	5.4	14.9	°C
Q	---	---	16.7	Lpm

QCV	0.53 %
Max overheat	3.6 °C
occured	26-apr 13:08:04

Timer Information:

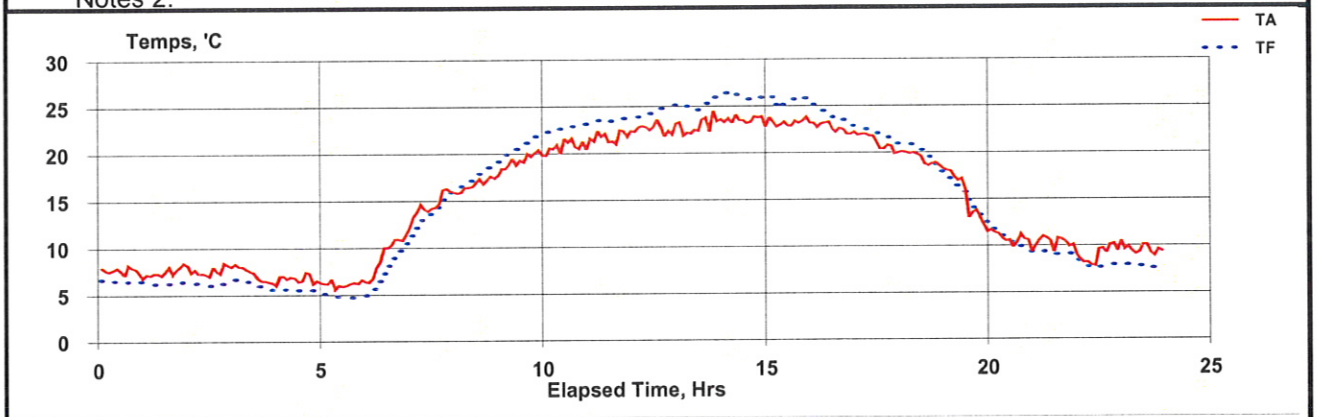
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-apr	0:00:08
Stop:	18-27-apr	0:00:04

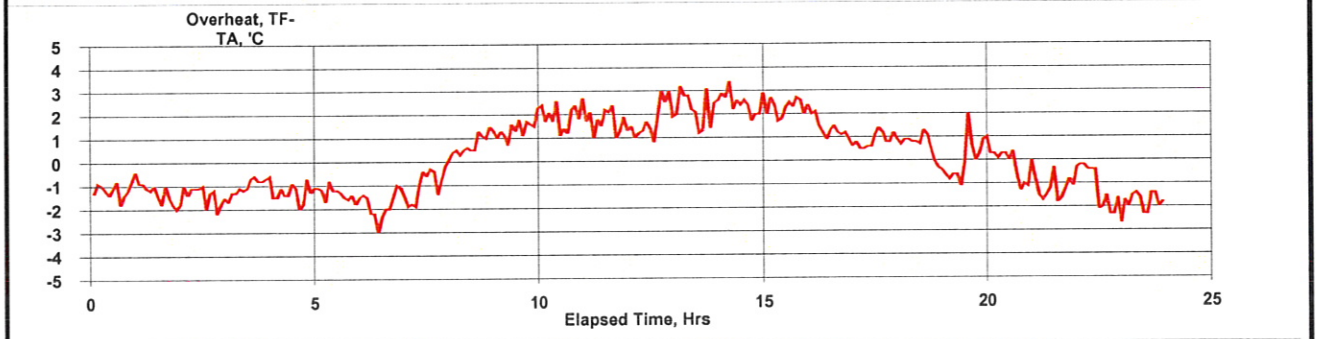
ET: 23:59

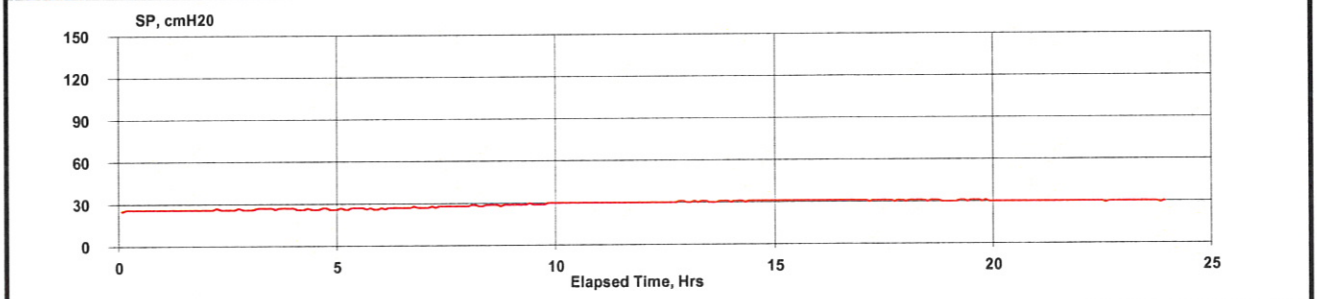
Mass Concentration Data:

Filter ID:	8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-26-apr	0:05:08	593	7.6	6.5	-1.1	26	16.71
18-26-apr	1:05:08	593	7.6	6.2	-1.4	26	16.71
18-26-apr	2:05:08	593	7.6	6.2	-1.4	26	16.71
18-26-apr	3:05:08	593	7.1	6.1	-1.0	27	16.71
18-26-apr	4:05:08	593	6.8	5.4	-1.3	26	16.71
18-26-apr	5:05:08	593	6.2	4.8	-1.4	27	16.72
18-26-apr	6:05:08	593	9.7	7.9	-1.8	27	16.71
18-26-apr	7:05:08	594	14.8	13.9	-0.9	28	16.72
18-26-apr	8:05:08	594	16.8	17.6	0.8	29	16.71
18-26-apr	9:05:08	594	19.4	20.8	1.4	29	16.70
18-26-apr	10:05:08	594	20.8	22.7	1.9	30	16.71
18-26-apr	11:05:08	594	21.8	23.5	1.7	30	16.71
18-26-apr	12:05:08	594	22.7	24.4	1.8	30	16.71
18-26-apr	13:05:08	593	23.0	25.2	2.3	31	16.71
18-26-apr	14:05:08	593	23.5	26.0	2.5	31	16.72
18-26-apr	15:05:08	592	23.3	25.5	2.3	31	16.71
18-26-apr	16:05:08	592	22.6	23.9	1.3	31	16.70
18-26-apr	17:05:08	592	21.1	21.9	0.9	31	16.70
18-26-apr	18:05:08	592	19.3	19.9	0.6	31	16.72
18-26-apr	19:05:08	592	15.1	15.2	0.1	31	16.71
18-26-apr	20:05:08	593	10.7	10.5	-0.2	30	16.71
18-26-apr	21:05:08	593	10.3	9.1	-1.2	30	16.71
18-26-apr	22:05:08	593	9.1	7.8	-1.3	30	16.71
18-26-apr	23:05:08	593	9.5	7.7	-1.8	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 04 may 13:09:53

Job Details:

Job Name: 18May04E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1030:18
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	590	583	586	mmHg
TA	4.5	-0.3	1.8	°C
Q	---	---	16.71	Lpm

QCV 0.54 %
Max overheat 3.7 °C
occured 03-may 13:52:01

Timer Information:

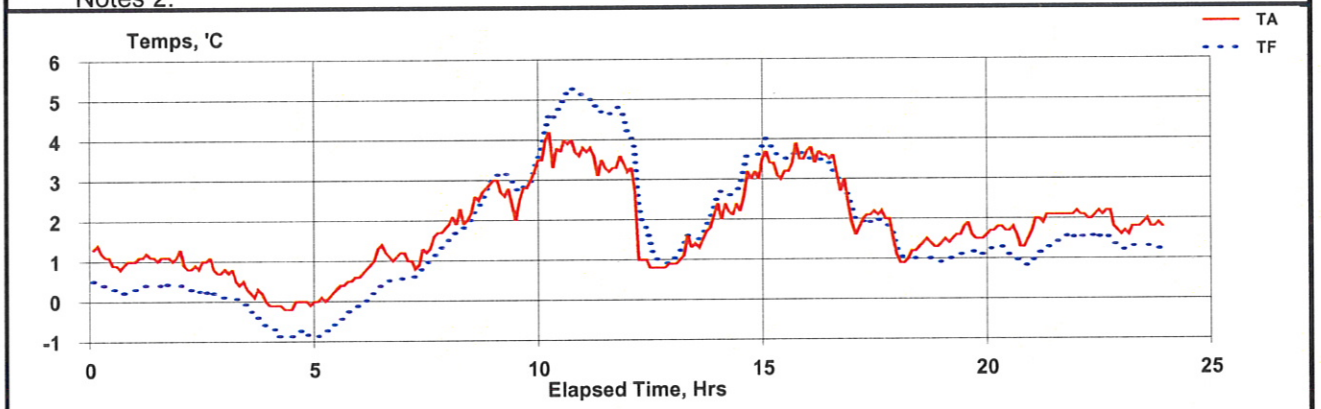
	Date dd-mmm	Time hh:mm:ss
Start:	18-02-may	0:00:08
Stop:	18-03-may	0:00:05

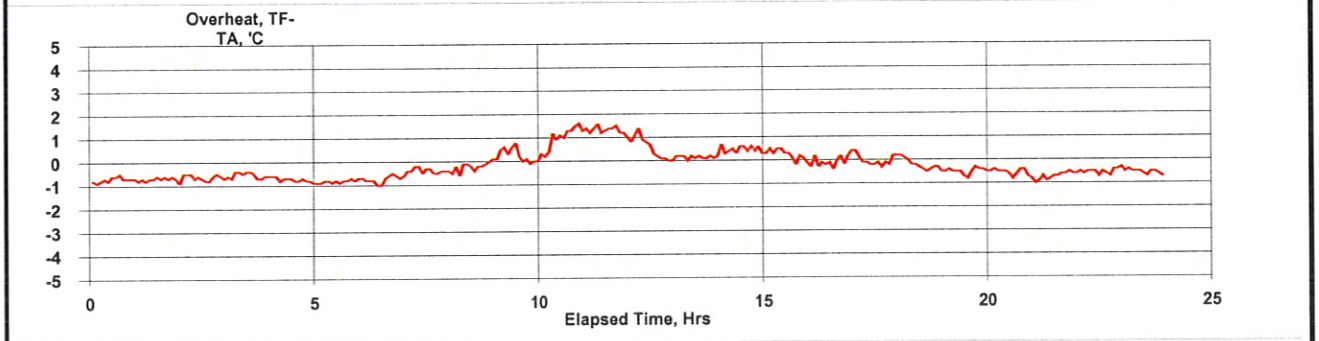
ET: 23:59

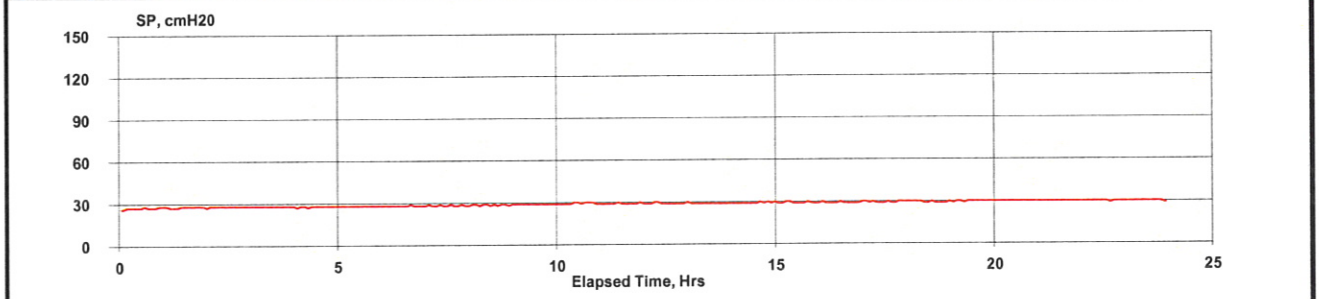
Mass Concentration Data:

Filter ID:	14	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-02-may	0:05:08	585	1.1	0.3	-0.7	27	16.72
18-02-may	1:05:08	585	1.1	0.4	-0.7	28	16.72
18-02-may	2:05:08	585	0.9	0.2	-0.6	28	16.72
18-02-may	3:05:08	585	0.3	-0.2	-0.5	28	16.71
18-02-may	4:05:08	585	-0.1	-0.8	-0.7	28	16.72
18-02-may	5:05:08	585	0.3	-0.5	-0.8	28	16.71
18-02-may	6:05:08	586	1.1	0.3	-0.7	28	16.72
18-02-may	7:05:08	586	1.4	1.0	-0.4	28	16.72
18-02-may	8:05:08	586	2.4	2.2	-0.2	29	16.71
18-02-may	9:05:08	586	2.8	3.0	0.3	29	16.71
18-02-may	10:05:08	587	3.8	4.8	1.0	29	16.72
18-02-may	11:05:08	587	3.4	4.7	1.3	29	16.71
18-02-may	12:05:08	587	1.2	1.8	0.5	29	16.71
18-02-may	13:05:08	587	1.5	1.7	0.2	29	16.70
18-02-may	14:05:08	587	2.7	3.1	0.5	29	16.71
18-02-may	15:05:08	587	3.4	3.7	0.2	29	16.71
18-02-may	16:05:08	587	3.2	3.1	0.0	29	16.72
18-02-may	17:05:08	588	1.9	1.9	0.0	30	16.70
18-02-may	18:05:08	588	1.2	1.0	-0.2	30	16.71
18-02-may	19:05:08	589	1.6	1.1	-0.5	30	16.70
18-02-may	20:05:08	589	1.6	1.1	-0.6	30	16.71
18-02-may	21:05:08	589	2.1	1.4	-0.7	30	16.71
18-02-may	22:05:08	590	2.0	1.5	-0.5	30	16.73
18-02-may	23:05:08	590	1.8	1.3	-0.5	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 09 may 09:53:11

Job Details:

Job Name: 18May09E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1054:17
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	29.5	7.3	18.3	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 3.1 °C
occured 08-may 12:29:58

Timer Information:

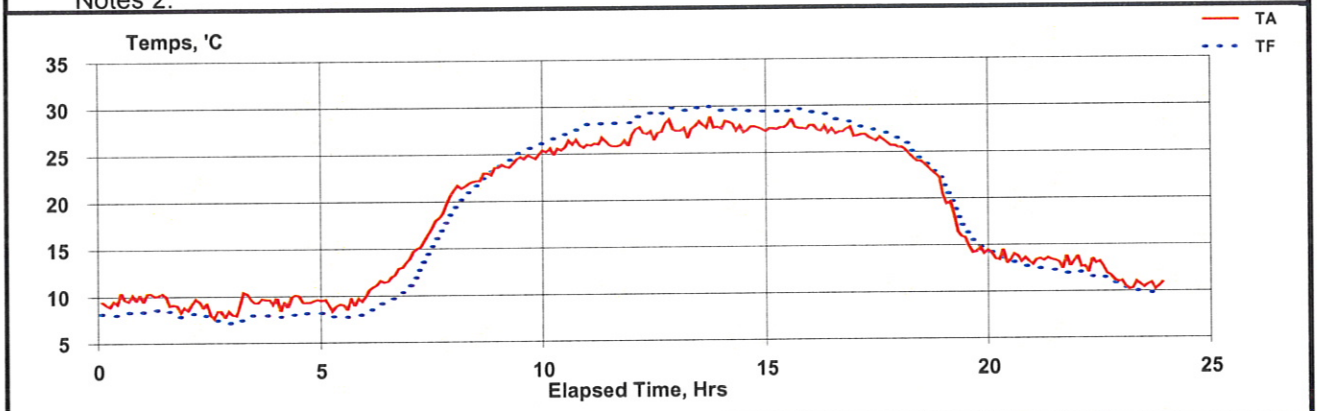
	Date dd-mmm	Time hh:mm:ss
Start:	18-08-may	0:00:08
Stop:	18-09-may	0:00:05

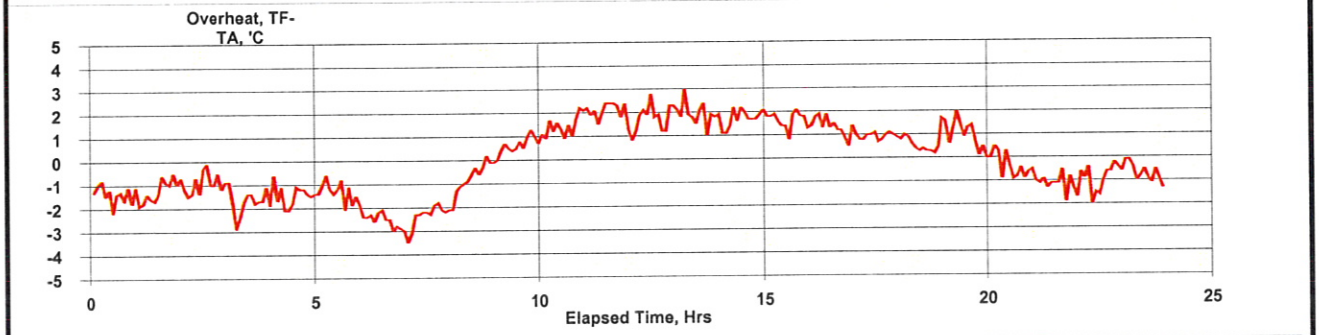
ET: 23:59

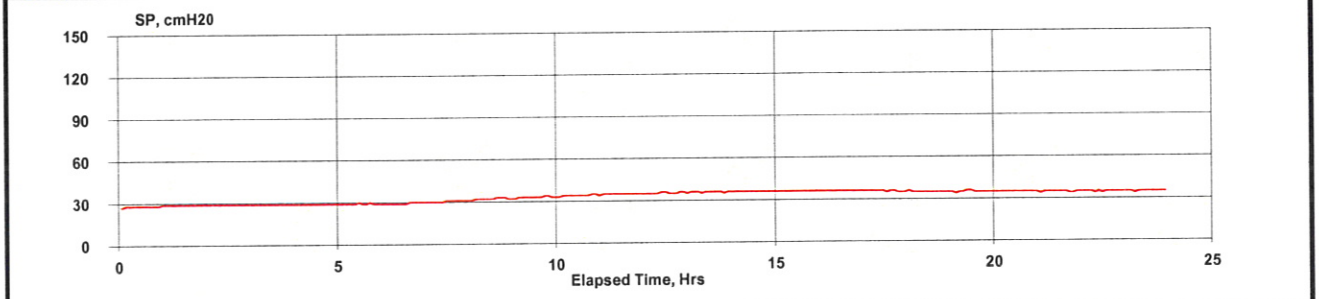
Mass Concentration Data:

Filter ID:	26	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-08-may	0:05:08	593	9.6	8.2	-1.4	28	16.71
18-08-may	1:05:08	593	9.5	8.3	-1.2	29	16.71
18-08-may	2:05:08	593	8.6	7.6	-0.9	29	16.71
18-08-may	3:05:08	594	9.5	7.7	-1.7	29	16.72
18-08-may	4:05:08	594	9.4	8.0	-1.4	29	16.71
18-08-may	5:05:08	594	9.2	7.8	-1.3	29	16.71
18-08-may	6:05:08	594	12.1	9.5	-2.6	29	16.70
18-08-may	7:05:08	594	17.6	15.3	-2.3	31	16.70
18-08-may	8:05:08	595	22.4	21.7	-0.7	32	16.71
18-08-may	9:05:08	595	24.5	25.1	0.6	33	16.71
18-08-may	10:05:08	595	25.7	27.2	1.4	34	16.71
18-08-may	11:05:08	595	26.1	28.2	2.1	35	16.71
18-08-may	12:05:08	594	27.5	29.3	1.8	35	16.71
18-08-may	13:05:08	594	27.8	29.7	1.9	36	16.71
18-08-may	14:05:08	594	27.7	29.5	1.7	36	16.71
18-08-may	15:05:08	593	27.8	29.4	1.6	36	16.71
18-08-may	16:05:08	593	27.4	28.7	1.4	36	16.71
18-08-may	17:05:08	593	26.3	27.2	0.9	36	16.71
18-08-may	18:05:08	593	23.6	24.2	0.6	35	16.71
18-08-may	19:05:08	593	16.0	17.0	1.0	35	16.71
18-08-may	20:05:08	593	13.6	13.2	-0.3	35	16.72
18-08-may	21:05:08	593	13.3	12.1	-1.2	35	16.71
18-08-may	22:05:08	593	12.2	11.3	-0.9	35	16.72
18-08-may	23:05:08	593	10.6	9.9	-0.7	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 15 may 11:06:31

Job Details:

Job Name: 18May15E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1078:16
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	591	587	589	mmHg
TA	19.9	1.8	11.4	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 3.6 °C
occured 14-may 10:26:31

Timer Information:

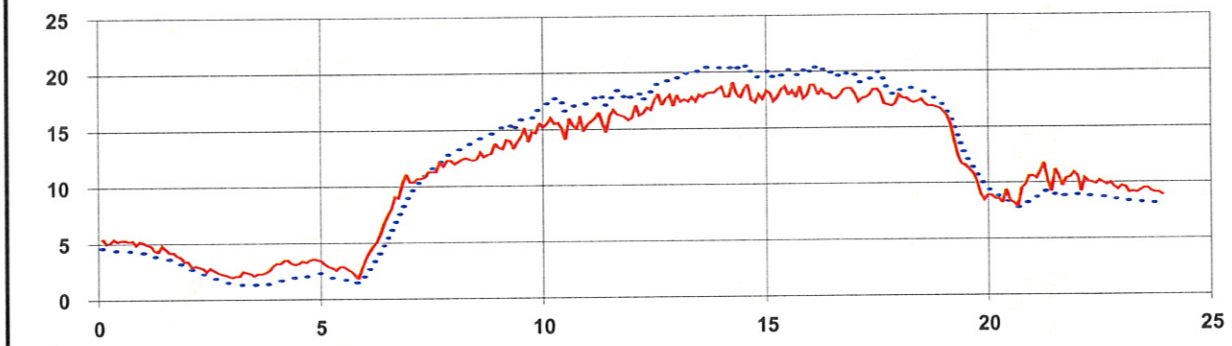
	Date dd-mmm	Time hh:mm:ss
Start:	18-14-may	0:00:08
Stop:	18-15-may	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	32	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:



Overheat, TF-

18-14-may	0:05:08	589	5.2	4.4	-0.8	24	16.71
18-14-may	1:05:08	588	4.2	3.6	-0.6	25	16.71
18-14-may	2:05:08	589	2.5	2.0	-0.5	25	16.71
18-14-may	3:05:08	589	2.4	1.3	-1.1	24	16.70
18-14-may	4:05:08	589	3.4	2.0	-1.4	25	16.70
18-14-may	5:05:08	589	2.7	1.8	-1.0	25	16.70
18-14-may	6:05:08	589	7.7	5.7	-2.0	25	16.72
18-14-may	7:05:08	590	11.4	11.5	0.1	27	16.71
18-14-may	8:05:08	590	12.7	14.1	1.3	27	16.71
18-14-may	9:05:08	590	14.4	15.8	1.5	28	16.71
18-14-may	10:05:08	590	15.4	17.2	1.8	28	16.71
18-14-may	11:05:08	591	16.0	17.8	1.8	28	16.72
18-14-may	12:05:08	590	17.2	18.6	1.4	28	16.70
18-14-may	13:05:08	590	17.9	20.1	2.2	29	16.71
18-14-may	14:05:08	590	18.1	20.1	2.1	29	16.70
18-14-may	15:05:08	589	18.1	19.8	1.7	29	16.70
18-14-may	16:05:08	589	18.1	19.9	1.8	29	16.71
18-14-may	17:05:08	589	17.6	18.9	1.3	29	16.71
18-14-may	18:05:08	589	17.1	18.0	0.9	29	16.71
18-14-may	19:05:08	589	11.6	12.6	1.0	28	16.71
18-14-may	20:05:08	589	9.1	8.4	-0.7	28	16.70
18-14-may	21:05:08	590	10.5	8.9	-1.6	28	16.71
18-14-may	22:05:08	590	9.9	8.7	-1.2	28	16.71
18-14-may	23:05:08	590	9.2	8.2	-1.1	28	16.68

BGI PQ200 Air Sampling System Downloaded 2018 22 may 12:29:03

Job Details:

Job Name: 18May22E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1102:15
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1:
User2:

	Max	Min	Avg	Units
BP	590	587	588	mmHg
TA	22.6	6	14.1	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 3.7 °C
occured 20-may 10:41:15

Timer Information:

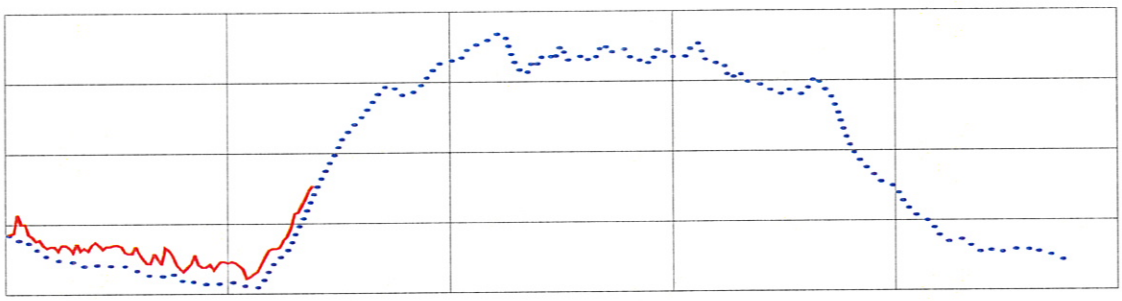
	Date dd-mmm	Time hh:mm:ss
Start:	18-20-may	0:00:08
Stop:	18-21-may	0:00:05

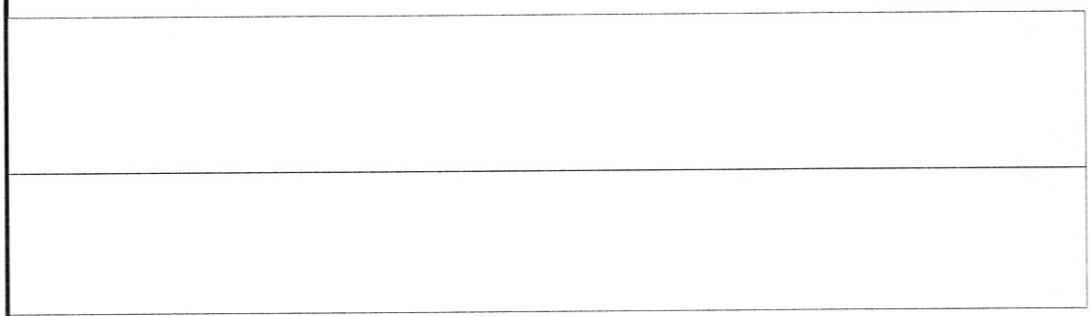
ET: 23:59

Mass Concentration Data:

Filter ID:	21	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:





Overheat, TF-

18-20-may	0:05:08	589	9.2	8.4	-0.8	28	16.72
18-20-may	1:05:08	589	8.3	7.2	-1.2	28	16.71
18-20-may	2:05:08	589	8.3	6.9	-1.3	28	16.71
18-20-may	3:05:08	589	7.4	6.3	-1.1	28	16.71
18-20-may	4:05:08	589	7.1	5.7	-1.4	28	16.71
18-20-may	5:05:08	589	7.0	5.8	-1.2	28	16.71
18-20-may	6:05:08	590	10.6	9.5	-1.1	29	16.71
18-20-may	7:05:08	590	15.7	15.4	-0.3	30	16.71
18-20-may	8:05:08	590	17.7	19.0	1.3	30	16.71
18-20-may	9:05:08	590	18.7	20.4	1.7	31	16.72
18-20-may	10:05:08	590	20.2	22.4	2.1	31	16.71
18-20-may	11:05:08	589	20.1	21.8	1.7	31	16.71
18-20-may	12:05:08	589	20.6	21.8	1.3	31	16.70
18-20-may	13:05:08	589	20.9	22.0	1.2	31	16.71
18-20-may	14:05:08	589	20.8	21.7	0.9	31	16.71
18-20-may	15:05:08	589	20.2	21.8	1.7	31	16.72
18-20-may	16:05:08	588	18.9	20.3	1.3	31	16.70
18-20-may	17:05:08	588	18.5	19.2	0.7	31	16.71
18-20-may	18:05:08	588	17.2	18.4	1.2	31	16.71
18-20-may	19:05:08	588	13.6	13.4	-0.2	30	16.71
18-20-may	20:05:08	588	10.2	10.4	0.2	30	16.71
18-20-may	21:05:08	588	8.9	8.3	-0.7	30	16.71
18-20-may	22:05:08	589	8.8	7.8	-1.1	30	16.71
18-20-may	23:05:08	589	8.2	7.4	-0.8	30	16.72

BGI PQ200 Air Sampling System Downloaded 2018 29 may 11:15:34

Job Details:

Job Name: 18May29E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1126:14
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	590	585	588	mmHg
TA	22.5	0.6	12.3	°C
Q	---	---	16.71	Lpm

QCV 0.53 %
Max overheat 3.8 °C
occured 28-may 13:52:08

Timer Information:

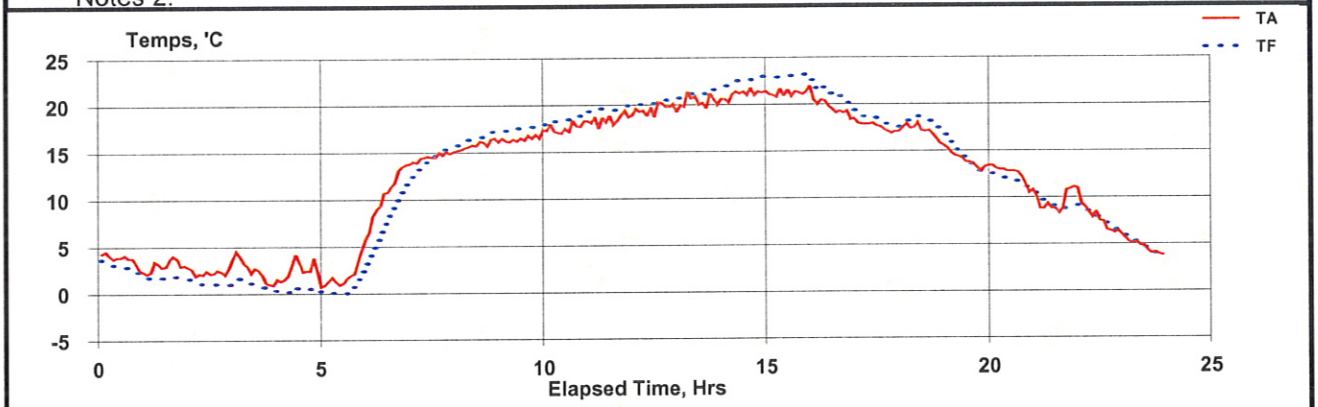
	Date dd-mmm	Time hh:mm:ss
Start:	18-26-may	0:00:08
Stop:	18-27-may	0:00:05

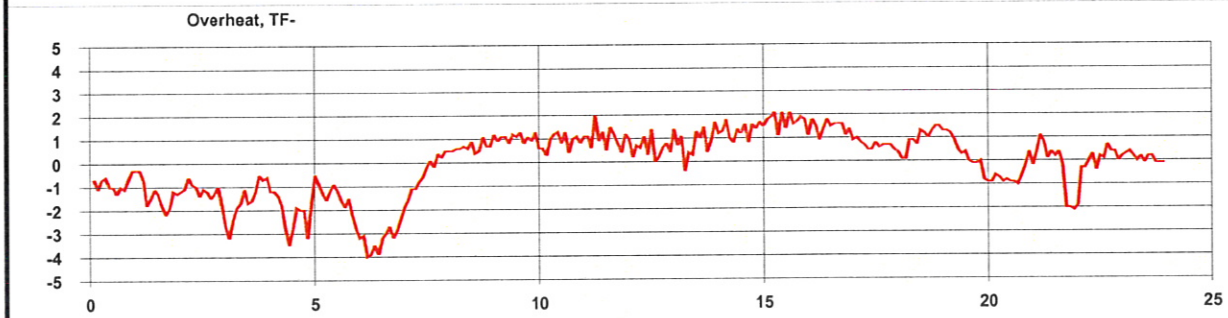
ET: 23:59

Mass Concentration Data:

Filter ID:	37	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-26-may	0:05:08	589	3.7	2.9	-0.8	30	16.72
18-26-may	1:05:08	589	3.1	1.7	-1.4	31	16.71
18-26-may	2:05:08	589	2.4	1.1	-1.3	31	16.71
18-26-may	3:05:08	589	2.4	0.9	-1.5	31	16.71
18-26-may	4:05:08	589	2.4	0.4	-2.1	31	16.71
18-26-may	5:05:08	588	2.2	0.5	-1.7	31	16.71
18-26-may	6:05:08	588	11.0	7.8	-3.1	32	16.72
18-26-may	7:05:08	589	14.6	14.3	-0.3	34	16.71
18-26-may	8:05:08	589	15.8	16.6	0.7	35	16.71
18-26-may	9:05:08	589	16.5	17.5	1.0	35	16.72
18-26-may	10:05:08	589	17.6	18.6	0.9	35	16.71
18-26-may	11:05:08	588	18.5	19.6	1.0	35	16.71
18-26-may	12:05:08	588	19.6	20.2	0.6	35	16.71
18-26-may	13:05:08	588	20.4	21.3	0.8	36	16.70
18-26-may	14:05:08	587	21.2	22.5	1.3	36	16.70
18-26-may	15:05:08	586	21.3	23.0	1.7	36	16.70
18-26-may	16:05:08	586	19.5	21.0	1.4	36	16.71
18-26-may	17:05:08	587	17.5	18.2	0.7	36	16.71
18-26-may	18:05:08	587	17.0	18.0	1.0	36	16.71
18-26-may	19:05:08	587	13.9	14.2	0.2	35	16.71
18-26-may	20:05:08	587	12.4	11.8	-0.6	35	16.71
18-26-may	21:05:08	588	9.6	9.2	-0.4	35	16.70
18-26-may	22:05:08	588	7.5	7.6	0.1	35	16.71
18-26-may	23:05:08	588	4.6	4.7	0.1	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 04 jun 15:26:47

Job Details:

Job Name: 18Jun04E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1150:13
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	595	587	592	mmHg
TA	25.5	3.7	16.1	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 5.7 °C
occured 02-jun 19:27:56

Timer Information:

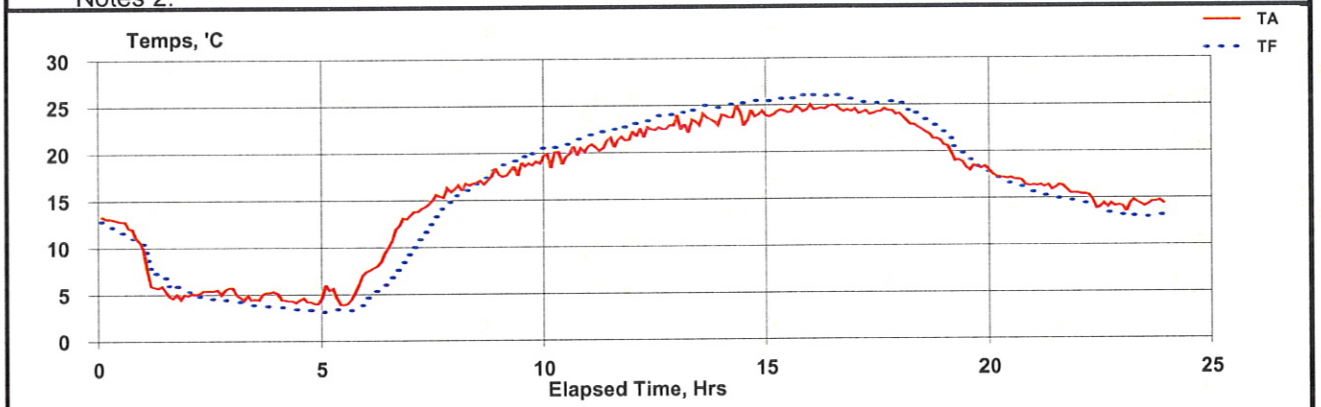
	Date dd-mmm	Time hh:mm:ss
Start:	18-01-jun	0:00:08
Stop:	18-02-jun	0:00:05

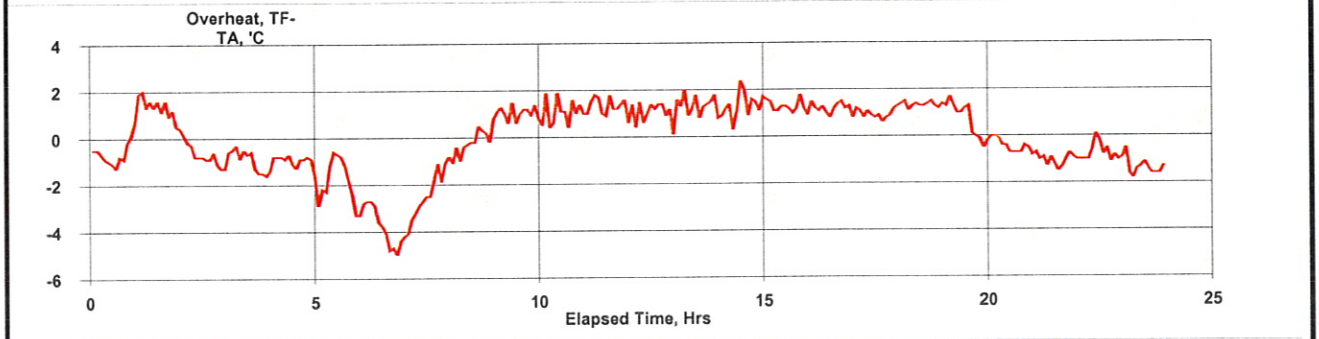
ET: 23:59

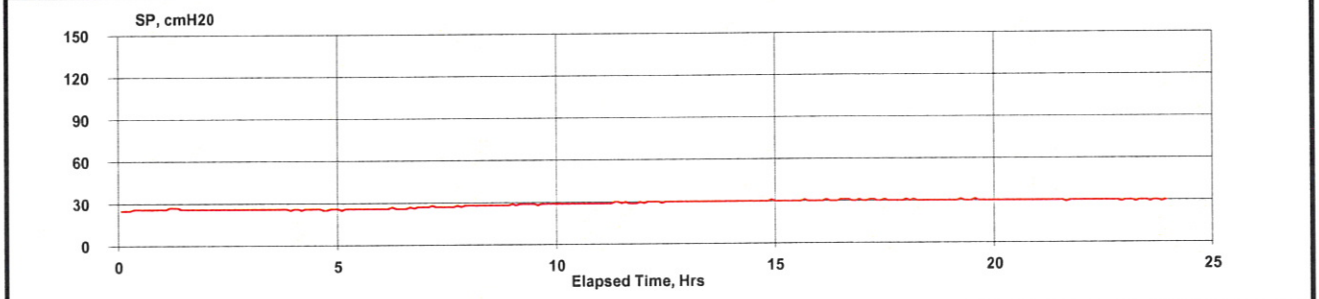
Mass Concentration Data:

Filter ID:	42	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-01-jun	0:05:08	589	12.2	11.6	-0.6	26	16.71
18-01-jun	1:05:08	589	5.4	6.7	1.3	26	16.71
18-01-jun	2:05:08	589	5.4	4.6	-0.7	26	16.71
18-01-jun	3:05:08	589	4.8	3.9	-1.0	26	16.71
18-01-jun	4:05:08	590	4.3	3.3	-1.0	26	16.71
18-01-jun	5:05:08	590	5.3	3.4	-1.9	26	16.70
18-01-jun	6:05:08	591	10.5	6.7	-3.8	26	16.71
18-01-jun	7:05:08	592	15.0	12.7	-2.3	27	16.71
18-01-jun	8:05:08	592	17.0	16.9	-0.2	28	16.71
18-01-jun	9:05:08	592	18.5	19.6	1.1	29	16.71
18-01-jun	10:05:08	592	19.9	21.0	1.1	29	16.71
18-01-jun	11:05:08	593	21.2	22.5	1.3	29	16.71
18-01-jun	12:05:08	593	22.6	23.6	1.0	30	16.71
18-01-jun	13:05:08	593	23.2	24.6	1.4	30	16.70
18-01-jun	14:05:08	593	24.0	25.3	1.3	30	16.71
18-01-jun	15:05:08	593	24.4	25.7	1.3	30	16.71
18-01-jun	16:05:08	593	24.6	25.8	1.2	30	16.71
18-01-jun	17:05:08	593	24.2	25.2	1.0	30	16.71
18-01-jun	18:05:08	593	22.2	23.6	1.3	30	16.71
18-01-jun	19:05:08	594	18.8	19.4	0.7	30	16.71
18-01-jun	20:05:08	594	17.0	16.5	-0.5	30	16.70
18-01-jun	21:05:08	594	16.0	15.0	-1.0	30	16.71
18-01-jun	22:05:08	595	14.5	13.8	-0.7	30	16.70
18-01-jun	23:05:08	595	14.4	13.0	-1.4	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 08 jun 12:23:29

Job Details:

Job Name: 18Jun08E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1174:12
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2: ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	593	588	591	mmHg
TA	28.1	6	17.8	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 2.7 °C
occured 07-jun 15:01:31

Timer Information:

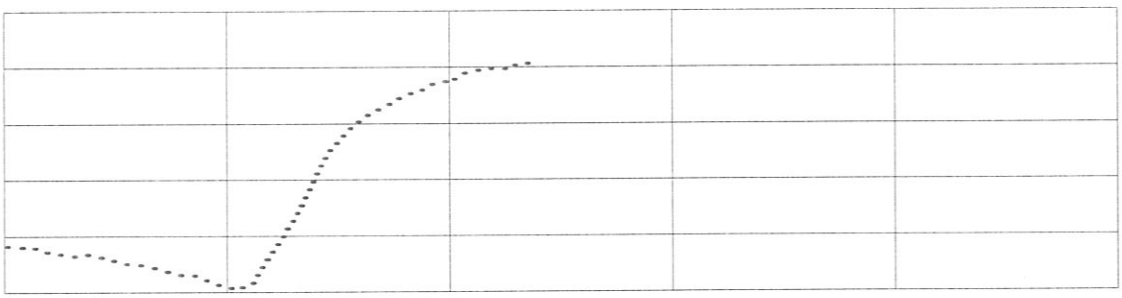
	Date dd-mmm	Time hh:mm:ss
Start:	18-07-jun	0:00:08
Stop:	18-08-jun	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	16	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-07-jun	0:05:08	590	10.2	8.9	-1.2	25	16.71
18-07-jun	1:05:08	590	9.4	8.3	-1.1	26	16.72
18-07-jun	2:05:08	590	8.8	7.7	-1.1	26	16.71
18-07-jun	3:05:08	590	7.9	7.0	-1.0	26	16.71
18-07-jun	4:05:08	591	6.9	6.0	-0.9	26	16.71
18-07-jun	5:05:08	591	7.7	6.2	-1.5	26	16.71
18-07-jun	6:05:08	591	14.0	11.9	-2.1	27	16.71
18-07-jun	7:05:08	592	19.2	18.4	-0.8	28	16.71
18-07-jun	8:05:08	593	20.7	21.5	0.7	29	16.71
18-07-jun	9:05:08	593	21.9	23.2	1.3	30	16.71
18-07-jun	10:05:08	593	23.1	24.5	1.4	30	16.71
18-07-jun	11:05:08	593	23.8	25.1	1.4	30	16.71
18-07-jun	12:05:08	593	24.8	25.9	1.1	30	16.71
18-07-jun	13:05:08	592	25.8	27.1	1.2	31	16.71
18-07-jun	14:05:08	592	26.5	28.0	1.5	31	16.72
18-07-jun	15:05:08	592	26.7	28.3	1.6	31	16.71
18-07-jun	16:05:08	592	26.6	27.9	1.4	32	16.71
18-07-jun	17:05:08	592	25.8	27.0	1.2	31	16.71
18-07-jun	18:05:08	592	23.2	23.4	0.1	31	16.71
18-07-jun	19:05:08	592	20.3	20.1	-0.2	31	16.71
18-07-jun	20:05:08	592	14.9	15.5	0.5	31	16.71
18-07-jun	21:05:08	593	13.1	12.7	-0.5	31	16.71
18-07-jun	22:05:08	593	12.4	11.6	-0.8	30	16.71
18-07-jun	23:05:08	593	11.3	10.5	-0.8	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 14 jun 14:29:58

Job Details:

Job Name: 18Jun14E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1198:11
Flags:

Job Code:
Site Name: 2398E
Station Code:
Operators: KN
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	32.1	10.1	21.3	°C
Q	---	---	16.71	Lpm

QCV 0.54 %
Max overheat 3.3 °C
occured 13-jun 15:01:02

Timer Information:

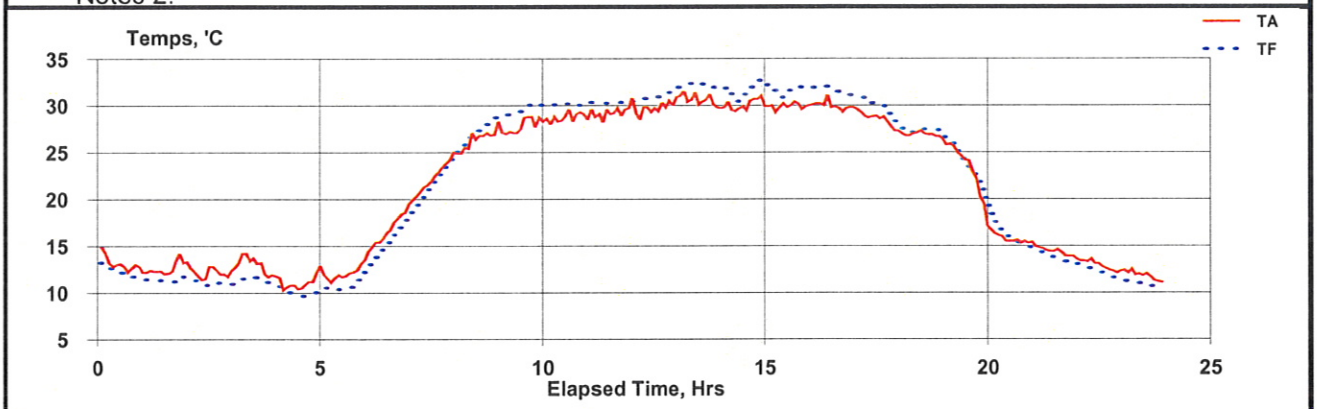
	Date dd-mmm	Time hh:mm:ss
Start:	18-13-jun	0:00:08
Stop:	18-14-jun	0:00:05

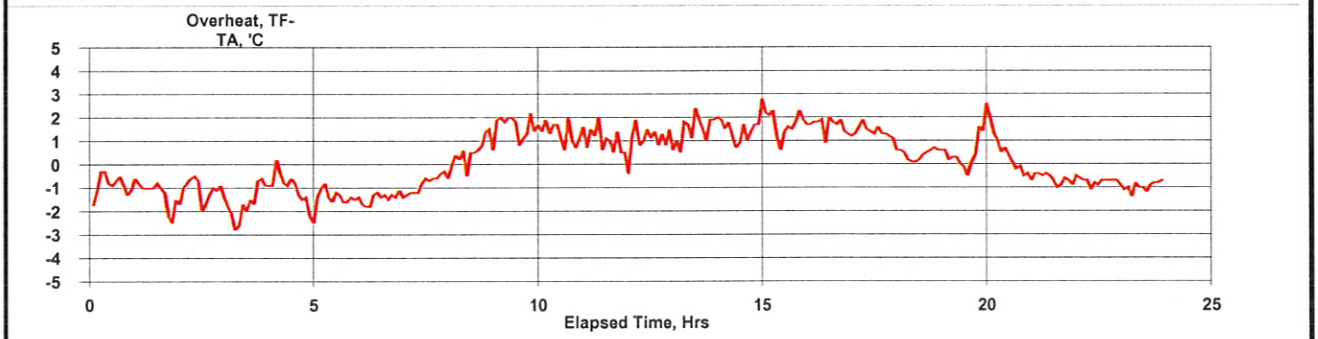
ET: 23:59

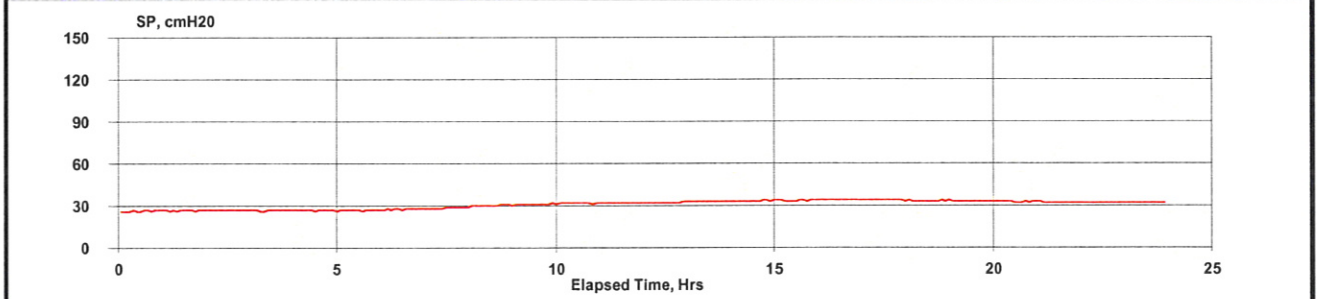
Mass Concentration Data:

Filter ID:	26	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-13-jun	0:05:08	592	13.1	12.2	-0.9	27	16.71
18-13-jun	1:05:08	591	12.7	11.4	-1.3	27	16.71
18-13-jun	2:05:08	591	12.1	11.0	-1.1	27	16.71
18-13-jun	3:05:08	592	12.9	11.3	-1.6	27	16.71
18-13-jun	4:05:08	592	11.1	10.0	-1.1	27	16.71
18-13-jun	5:05:08	592	12.1	10.7	-1.4	27	16.71
18-13-jun	6:05:08	592	16.7	15.3	-1.4	28	16.71
18-13-jun	7:05:08	592	22.3	21.5	-0.8	29	16.71
18-13-jun	8:05:08	593	26.4	27.0	0.6	30	16.71
18-13-jun	9:05:08	593	27.8	29.5	1.7	31	16.72
18-13-jun	10:05:08	592	28.7	30.1	1.3	32	16.71
18-13-jun	11:05:08	592	29.4	30.2	0.9	32	16.70
18-13-jun	12:05:08	592	29.8	30.9	1.2	32	16.71
18-13-jun	13:05:08	592	30.6	32.1	1.6	33	16.72
18-13-jun	14:05:08	591	30.1	31.6	1.5	33	16.71
18-13-jun	15:05:08	591	29.9	31.6	1.7	34	16.71
18-13-jun	16:05:08	591	30.0	31.6	1.6	34	16.71
18-13-jun	17:05:08	591	28.5	29.9	1.3	34	16.71
18-13-jun	18:05:08	591	26.9	27.3	0.4	33	16.71
18-13-jun	19:05:08	591	23.1	23.7	0.6	33	16.71
18-13-jun	20:05:08	591	15.7	16.1	0.3	33	16.71
18-13-jun	21:05:08	591	14.3	13.7	-0.6	32	16.71
18-13-jun	22:05:08	591	12.9	12.1	-0.8	32	16.71
18-13-jun	23:05:08	591	11.8	10.8	-1.0	32	16.72

BGI PQ200 Air Sampling System Downloaded 2018 27 jun 15:16:38

Job Details:

Job Name: 18Jun27E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1246:09
Flags:

Job Code:
Site Name:
Station Code:
Operators:
User1: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy
User2: yyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyyy

	Max	Min	Avg	Units
BP	594	590	593	mmHg
TA	32.9	10.5	22.1	°C
Q	---	---	16.7	Lpm

QCV	0.51 %
Max overheat	3.3 °C
occured	26-jun 20:08:35

Timer Information:

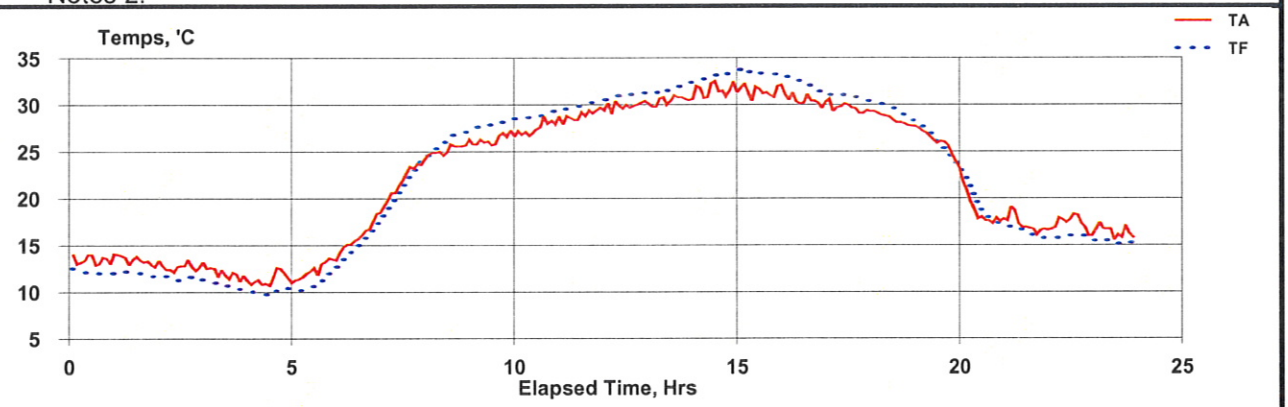
	Date dd-mmm	Time hh:mm:ss
Start:	18-25-jun	0:00:08
Stop:	18-26-jun	0:00:05

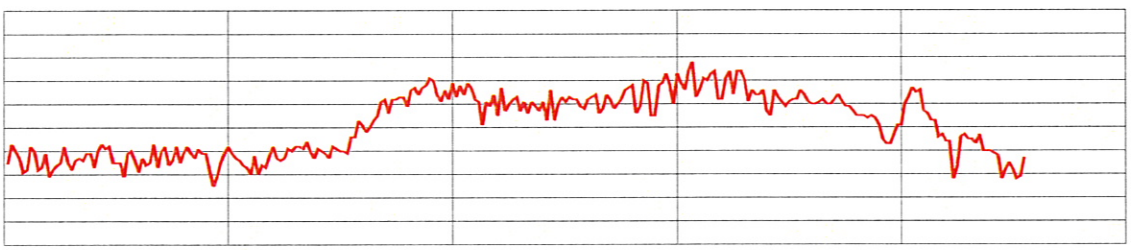
ET: 23:59

Mass Concentration Data:

Filter ID:	JBR11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-25-jun	0:05:08	592	13.5	12.1	-1.4	27	16.72
18-25-jun	1:05:08	592	13.4	12.0	-1.4	28	16.71
18-25-jun	2:05:08	592	12.7	11.4	-1.3	28	16.72
18-25-jun	3:05:08	593	11.9	10.7	-1.3	28	16.70
18-25-jun	4:05:08	593	11.4	10.1	-1.3	28	16.71
18-25-jun	5:05:08	593	12.5	11.0	-1.5	28	16.71
18-25-jun	6:05:08	593	16.2	15.2	-1.0	29	16.71
18-25-jun	7:05:08	594	22.0	21.3	-0.7	30	16.72
18-25-jun	8:05:08	594	25.3	26.1	0.8	31	16.71
18-25-jun	9:05:08	594	26.3	27.9	1.6	32	16.71
18-25-jun	10:05:08	594	27.6	28.8	1.2	33	16.70
18-25-jun	11:05:08	594	28.9	29.9	1.0	33	16.71
18-25-jun	12:05:08	593	30.0	31.0	1.0	34	16.72
18-25-jun	13:05:08	593	30.5	31.7	1.2	34	16.71
18-25-jun	14:05:08	593	31.6	33.1	1.5	34	16.71
18-25-jun	15:05:08	593	31.5	33.4	1.9	34	16.70
18-25-jun	16:05:08	593	30.5	32.2	1.7	34	16.71
18-25-jun	17:05:08	593	29.6	30.8	1.2	34	16.71
18-25-jun	18:05:08	593	28.4	29.4	1.0	34	16.72
18-25-jun	19:05:08	593	25.8	25.9	0.0	34	16.70
18-25-jun	20:05:08	593	18.6	19.2	0.6	34	16.71
18-25-jun	21:05:08	593	17.2	16.3	-0.9	33	16.71
18-25-jun	22:05:08	593	17.3	15.8	-1.4	33	16.72
18-25-jun	23:05:08	593	16.4	15.3	-1.1	33	16.72

APPENDIX C

Precision and Single-Point Flow Rate Checks

Alton Coal Development

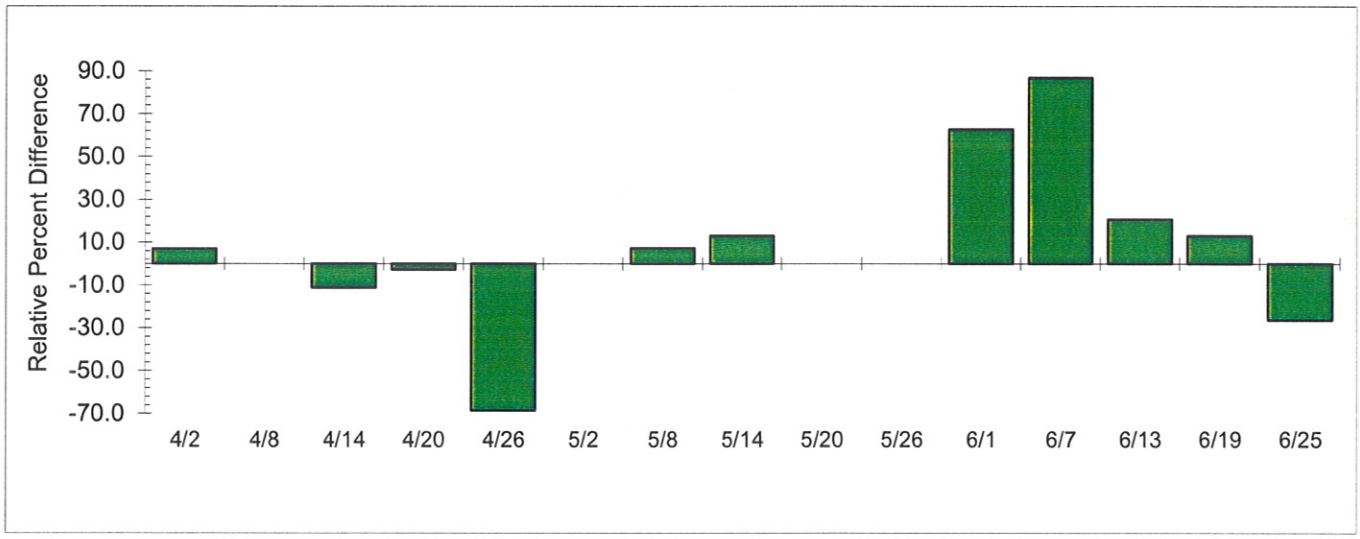
Coal Hollow

Precision Report For Collocated Samplers

STP PM10 Concentrations(µg/m³)
April 1, 2018 - June 30, 2018

Date	4/2	4/8	4/14	4/20	4/26	5/2	5/8	5/14	5/20	5/26	6/1	6/7	6/13	6/19	6/25
Coal Hollow-B	13.5		7.7	21.6	20.8	7.3	54.9	44.9	8.2	17.5	24.9	81.1	64.0	40.1	30.8
Coal Hollow-C	12.6	8.8	8.6	22.2	42.5		51.1	39.4			13.0	32.0	52.0	35.2	40.1
Rel. %Diff.	6.9	*	-11.0	-2.7	-68.6	*	7.2	13.0	*	*	62.8	86.8	20.7	13.0	-26.2

Relative Percent Difference = ((X - Y) / ((X + Y) / 2)) * 100 X=Coal Hollow-B Y =Coal Hollow-C



Statistical Calculations:

n=	11.0	S Dev=	41.1 %
Mean=	9.3	** CV=	41.7 %

*** Both sample concentrations must be greater than or equal to 3 µg/m³ to be used for these precision calculations.**

For a detailed discussion of these precision calculations, refer to 40 CFR 58, Appendix A.

**** CV - Upper 90% Confidence bound for Coefficient of Variation**

Alton Coal Development

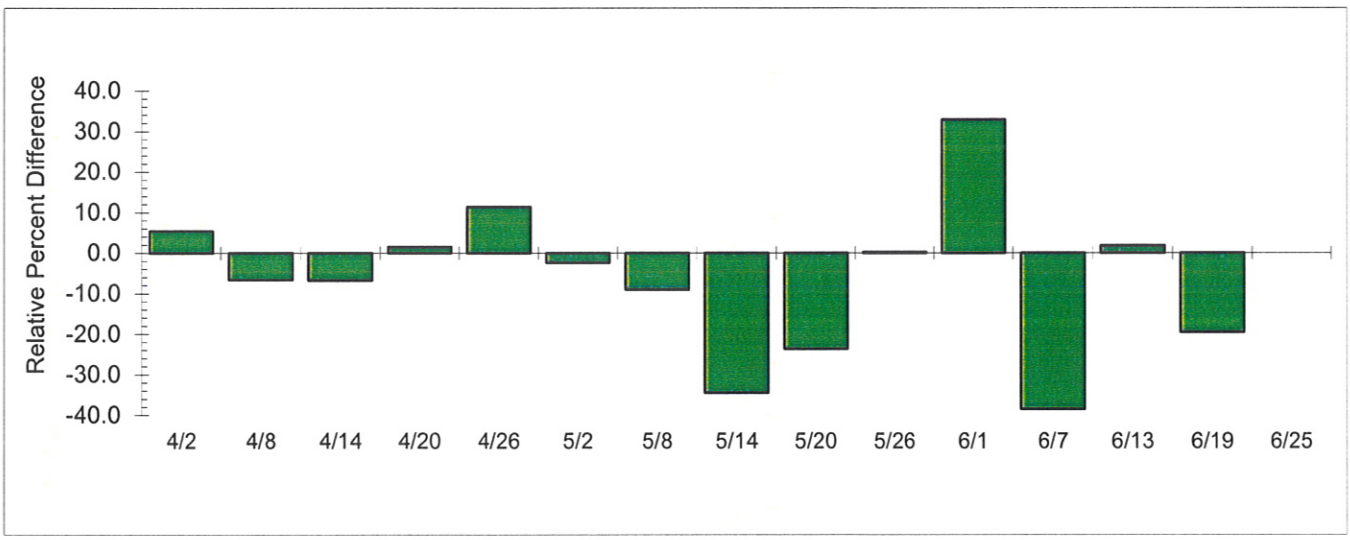
Coal Hollow

Precision Report For Collocated Samplers

STP PM10 Concentrations(µg/m³)
April 1, 2018 - June 30, 2018

Date	4/2	4/8	4/14	4/20	4/26	5/2	5/8	5/14	5/20	5/26	6/1	6/7	6/13	6/19	6/25
Coal Hollow-D	58.8	8.8	8.6	26.4	70.8	8.2	47.8	45.2	8.6	42.6	48.2	60.0	410.1	170.3	
Coal Hollow-E	55.7	9.4	9.2	26.0	63.2	8.4	52.3	64.0	10.9	42.5	34.6	88.6	402.6	207.2	146.7
Rel. %Diff.	5.4	-6.6	-6.7	1.5	11.3	-2.4	-9.0	-34.4	-23.6	0.2	32.9	-38.5	1.8	-19.5	*

Relative Percent Difference = ((X - Y) / ((X + Y) / 2)) * 100 X=Coal Hollow-D Y =Coal Hollow-E



Statistical Calculations:

n=	14.0	S Dev=	18.6 %
Mean=	-6.3	** CV=	17.8 %

*** Both sample concentrations must be greater than or equal to 3 µg/m³ to be used for these precision calculations.**

For a detailed discussion of these precision calculations, refer to 40 CFR 58, Appendix A.

**** CV - Upper 90% Confidence bound for Coefficient of Variation**

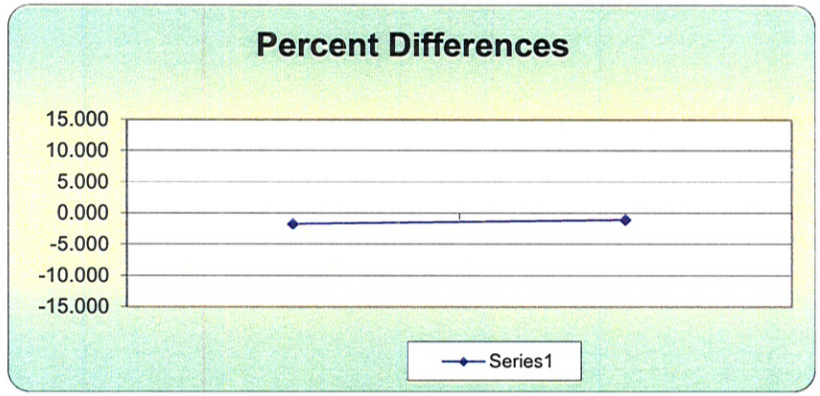
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 962A		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**$\|d\|$**	**$\|d\|^2$**	
16.72	17	-1.647	-1.487	2.713	1.647	2.713	
16.7	16.87	-1.008	**75th Percentile**	1.015	1.008	1.015	
			-1.168				

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	2.655	1.327
n-1	$\Sigma\|d\|^2$	**"AS" (Eqn 5)**
1	3.728	0.452

Bias (%) (Eqn 3)	Both Signs Positive
3.35	FALSE
Signed Bias (%)	Both Signs Negative
-3.35	TRUE



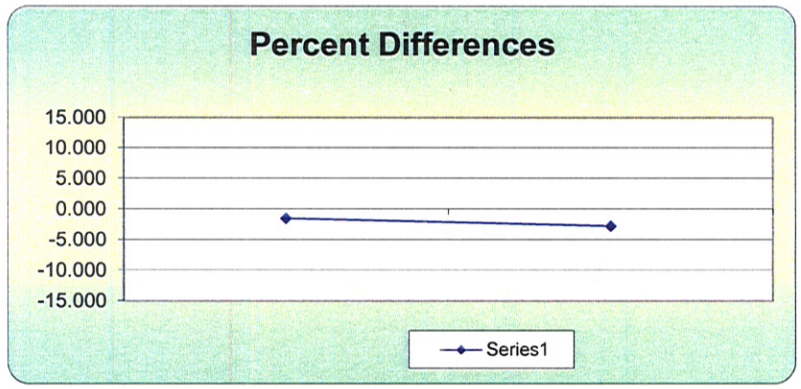
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 963B		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**$\|d\|$**	**$\|d\|^2$**	
16.7	16.95	-1.475	-2.422	2.175	1.475	2.175	
16.7	17.17	-2.737	**75th Percentile**	7.493	2.737	7.493	
			-1.791				

n	**$\sum\|d\|$**	**"AB" (Eqn 4)**
2	4.212	2.106
n-1	**$\sum\|d\|^2$**	**"AS" (Eqn 5)**
1	9.668	0.893

Bias (%) (Eqn 3)	Both Signs Positive
6.09	FALSE
Signed Bias (%)	Both Signs Negative
-6.09	TRUE



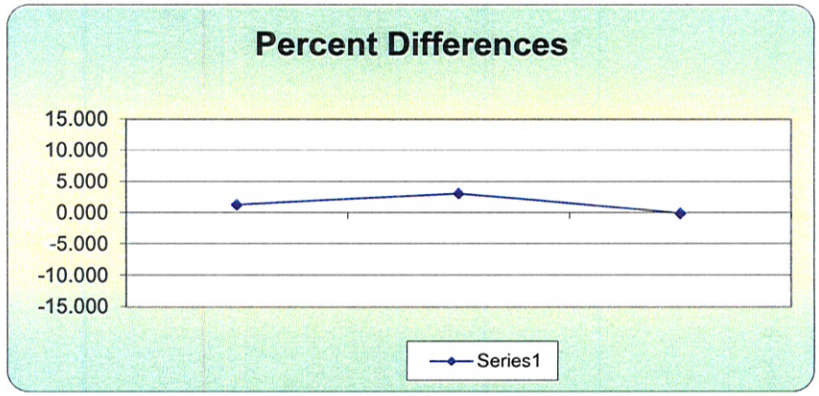
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 964C		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**$\|d\|$**	**$\|d\|^2$**	
16.7	16.48	1.335	1.788	1.782	1.335	1.782	
16.72	16.21	3.146	**75th Percentile**	9.899	3.146	9.899	
			2.693				

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	4.481	2.241
n-1	$\Sigma\|d\|^2$	**"AS" (Eqn 5)**
1	11.681	1.281

Bias (%) (Eqn 3)	Both Signs Positive
7.96	TRUE
Signed Bias (%)	Both Signs Negative
+7.96	FALSE



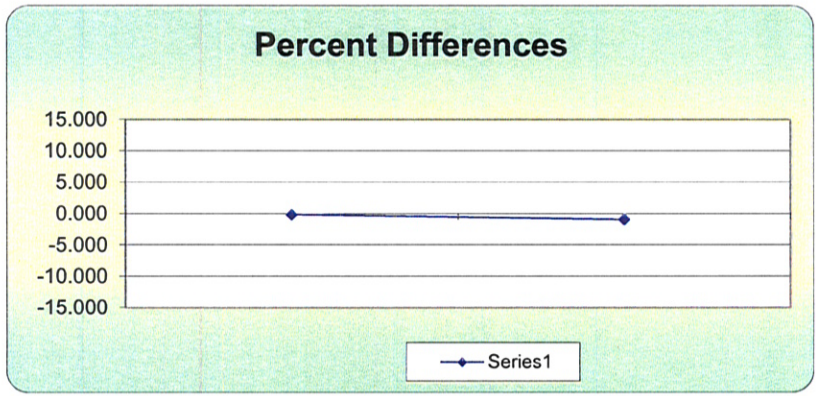
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 2366D		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**$\|d\|$**	**$\|d\|^2$**	
16.7	16.71	-0.060	-0.683	0.004	0.060	0.004	
16.7	16.85	-0.890	**75th Percentile**	0.792	0.890	0.792	
			-0.267				

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	0.950	0.475
n-1	$\Sigma\|d\|^2$	**"AS" (Eqn 5)**
1	0.796	0.587

Bias (%) (Eqn 3)	Both Signs Positive
3.1	FALSE
Signed Bias (%)	Both Signs Negative
-3.1	TRUE



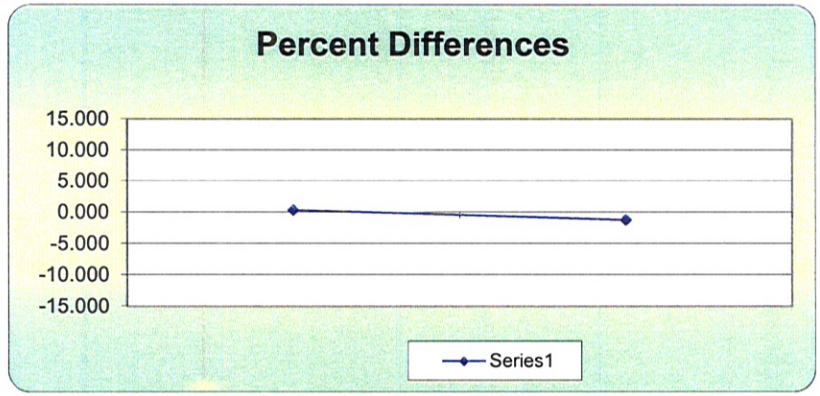
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 2398E		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**$\|d\|$**	**$\|d\|^2$**	
16.7	16.63	0.421	-0.782	0.177	0.421	0.177	
16.7	16.9	-1.183	**75th Percentile**	1.401	1.183	1.401	
			0.020				

n	$\Sigma\|d\|$	**"AB" (Eqn 4)**
2	1.604	0.802
n-1	$\Sigma\|d\|^2$	**"AS" (Eqn 5)**
1	1.578	0.539

Bias (%) (Eqn 3)	Both Signs Positive
3.21	FALSE
Signed Bias (%)	Both Signs Negative
+/-3.21	FALSE



APPENDIX D

Field Data Sheets

Background Monitor 962A

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
03-28-18	1207	03-28-18	1107	9	15	M-M	04-02-18	JKSR	
04-05-18	1131	04-05-18	1030	15	26	M-M	04-08-18	JKSR	
04-10-18	1146	04-10-18	1045	26	33	M-M	04-14-18	JKSR	
04-16-18	1501	04-16-18	1400	33	38	M-M	04-20-18	JKSR	
04-23-18	09:42	04-23-18	0841	38	4	M-M	0926-18	KN	
04-27-18	0953	04-27-18	0852	4	9	0852	04-27-18	JKSR	Blank
04-27-18	0955	04-27-18	0854	9	10	M-M	05-02-18	JKSR	
05-04-18	1351	05-04-18	1250	10	22	M-M	05-08-18	JKSR	
05-09-18	1029	05-09-18	0928	22	28	M-M	05-14-18	JKSR	
05-15-18	1147	05-15-18	1045	28	17	M-M	05-20-18	JKSR	
05-22-18	1309	05-22-18	1208	17	33	M-M	05-26-18	JKSR	
05-29-18	1116	05-29-18	1015	33	38	M-M	06-01-18	JKSR	
06-04-18	1604	06-04-18	1502	38	11	M-M	06-07-18	JKSR	Code F
06-08-18	1300	06-08-18	1158	11	22	M-M	06-13-18	JKSR	
06-14-18	1511	06-14-18	1410	22	4	M-M	06-19-18	JKSR	
06-22-18	1018	06-22-18	0918	4	9	10:18	06-22-18	KN	
06-27-18	1556	06-27-18	1455	9	17	AM M	07-01-18	JKSR	Code F

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-23-18	0947	94	93	Pass	KN	Cleaned Manifold
0	1023					
06-22-18	1024	95	93	Pass	KN	Cleaned Manifold

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-23-18	0951	16.72	585	587	17.1	17.9	13.441	17.00	-1.6	KN
06-22-18	1024	16.70	586	587.3	[redacted]	25.1	13.03	16.87	-1.0	KN

Compliance Monitor 963B

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
03-28-18	1220	03-28-18	1117	10	17	M-M	04-02-18	JKSR	
04-05-18	1150	04-03-18	1047	17	27	M-M	04-08-18	JKSR	
04-10-18	1201	04-10-18	1058	27	34	M-M	04-14-18	JKSR	still Running
04-16-18	1513	04-16-18	1410	34	39	M-M	04-20-18	JKSR	
04-23-18	1054	04-16-18	0956	39	5	M-M	04-26-18	KN	
04-27-18	1009	04-27-18	0906	5	11	M-M	05-02-18	JKSR	
05-04-18	1403	05-04-18	1300	11	16	1403	05-08-18	JKSR	Blank
05-04-18	1404	05-04-18	1301	16	23	M-M	05-08-18	JKSR	
05-09-18	1043	05-09-18	0940	23	29	M-M	05-14-18	JKSR	
05-15-18	1159	05-15-18	1056	29	18	M-M	05-20-18	JKSR	
05-22-18	1320	05-22-18	1217	18	34	M-M	05-22-18	JKSR	
05-29-18	1206	05-29-18	1103	34	39	M-M	06-01-18	JKSR	
06-04-18	1621	06-04-18	1518	39	12	M-M	06-07-18	JKSR	
06-08-18	1312	06-08-18	1209	12	23	M-M	06-13-18	JKSR	
06-14-18	1523	06-14-18	1420	23	5	M-M	06-19-18	JKSR	
06-22-18	1049	06-22-18	0946	5	JBR1	M-M	06-25-18	KN	
06-27-18	1609	06-27-18	1507	JBR1	18	M-M	07-01-18	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-23-18	1103	108	99	Pass	KN	Cleaned Manifold
06-22-18	10:53	108	100	Pass	KN	Cleaned Manifold

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-23-18	1110	16.76	592	593	18.5	19.3	13.49	16.95	-1.5	KN
06-22-18	1108	16.70	592	593	26.2	27.1	13.28	17.17	-2.7	KN

Co-located Monitor 964C

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
03-28-18	1221	03-28-18	1117	11	18	M-M	04-02-18	JKSR	
04-05-18	1151	04-05-18	1047	18	28	M-M	04-08-18	JKSR	
04-10-18	1203	04-10-18	1059	28	35	M-M	04-14-18	JKSR	
04-16-18	1515	04-16-18	1410	35	40	M-M	04-20-18	JKSR	
04-23-18	1112	04-23-18	1008	40	6	M-M	04-26-18	KN	
04-27-18	1012	04-27-18	0907	6	12	M-M	05-02-18	JKSR	
05-04-18	1405	05-04-18	1301	12	24	M-M	05-08-18	JKSR	QT
05-09-18	1042	05-09-18	0937	24	27	0937	05-09-18	JKSR	Blank
05-09-18	1044	05-09-18	0939	27	30	M-M	05-14-18	JKSR	
05-15-18	1201	05-15-18	1056	30	19	M-M	05-20-18	JKSR	
05-22-18	1322	05-22-18	1217	19	35	M-M	05-26-18	JKSR	QT
05-29-18	1208	05-29-18	1103	35	40	M-M	06-01-18	JKSR	No codes
06-04-18	1623	06-04-18	1517	40	13	M-M	06-07-18	JKSR	
06-08-18	1314	06-08-18	1210	13	24	M-M	06-13-18	JKSR	
06-14-18	1525	06-14-18	1420	24	6	M-M	06-19-18	JKSR	
06-22-18	1057	06-22-18	9947	6	7	M-M	06-25-18	KN	
06-27-18	1611	06-27-18	1505	JSR7	19	M-M	07-01-18	JKSR	

Still Running Data 6 hrs

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-23-18	1118	115	112	Pass	KN	Cleaned Manifold
06-22-18	1113	110	105	Pass	KN	Cleaned Manifold

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-27-18	1128	16.70	594	593	18.0	19.3	13.10	16.47	1.3	KN
06-22-18	1115	16.70	594	593	26.1	26.4	12.57	12.21	3.1	KN

Compliance Monitor 2366D

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
03-28-18	1233	03-28-18	1128	12	19	M-M	04-02-18	JKSR	
04-05-18	1206	04-05-18	1100	19	29	M-M	04-08-18	JKSR	
04-10-18	1239	04-10-18	1133	29	36	M-M	04-14-18	JKSR	
04-16-18	1533	04-16-18	1427	36	41	M-M	04-20-18	JKSR	
04-23-18	1435	04-23-18	1331	41	7	M-M	04-26-18	KN	
04-27-18	1025	04-27-18	0919	7	13	M-M	05-02-18	JKSR	
05-04-18	1415	05-04-18	1309	13	25	M-M	05-08-18	JKSR	
05-09-18	1058	05-09-18	0952	25	31	M-M	05-14-18	JKSR	
05-15-18	1211	05-15-18	1105	31	20	M-M	05-20-18	JKSR	
05-22-18	1334	05-22-18	1228	20	35	M-M	05-26-18	JKSR	
05-29-18	1221	05-29-18	1114	35	41	M-M	06-01-18	JKSR	
06-04-18	1630	06-04-18	1523	41	14		06-04-18	JKSR	Blank
06-04-18	1631	06-04-18	1524	14	15	M-M	06-07-18	JKSR	
06-08-18	1728	06-08-18	1221	15	26	M-M	06-13-18	JKSR	
06-14-18	1535	06-14-18	1428	26	7	M-M	06-19-18	JKSR	
06-22-18	1258	06-23-18	11:51	7	JBR 8	M-M	06-25-18	KN	
06-27-18	1621	06-22-18	1514	JBR 8	20	M-M	07-01-18	JKSR	still Running

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-23-18	1442	111	107	Pass	KN	Cleaned Manifold
06-22-18	1259	128	125	Pass	KN	Cleaned Manifold

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-23-18	1444	16.70	589	591	20.1	21.1	13.23	16.79	-0.5	KN
06-22-18	1303	16.70	590	591.8	28.9	29.3	12.64	16.45	1.5	KN

Co-located Monitor 2398E

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
03-28-18	1236	03-28-18	03-28-18	31	30	M-M	04-02-18	JKSR	
04-05-18	1207	04-05-18	1101	30	32	M-M	04-08-18	JKSR	
04-10-18	1241	04-10-18	1134	32	37	M-M	04-14-18	JKSR	
04-16-18	1534	04-16-18	1428	37	42	M-M	04-20-18	JKSR	
04-23-18	1447	04-23-18	13:41	42	8	M-M	04-26-18	KN	
04-27-18	1026	04-27-18	0919	8	14	M-M	05-02-18	JKSR	
05-04-18	1416	05-04-18	1310	14	26	M-M	05-08-18	JKSR	
05-09-18	1100	05-09-18	0953	26	32	M-M	05-14-18	JKSR	
05-15-18	1213	05-15-18	1106	32	21	M-M	05-20-18	JKSR	
05-22-18	1336	05-22-18	1229	21	37	M-M	05-26-18	JKSR	
05-29-18	1222	05-29-18	1115	37	42	M-M	06-01-18	JKSR	
06-04-18	1634	06-04-18	1526	42	16	M-M	06-07-18	JKSR	
06-08-18	1329	06-08-18	1222	16	27	1222	06-08-18	JKSR	Blank
06-08-18	1330	06-08-18	1223	27	26	M-M	06-13-18	JKSR	
06-14-18	1537	06-14-18	1430	26	8	M-M	06-19-18	JKSR	
06-22-18	1300	06-22-18	1154	8	JBR11	M-M	06-25-18	KN	
06-27-18	1624	06-27-18	1516	JBR11	21	M-M	07-01-18	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
04-23-18	1451	100	99	Pass	KN	Cleaned Manifold
06-22-18	1310	100	99	Pass	KN	Cleaned Manifold

Table III - Monthly Flow Rate Verification

Date	Time	Monitor Flow (Q Lpm)	Monitor Baro Pressure (mmHg)	Delta Cal Baro Pressure (mmHg)	Monitor Temp (A)	Delta Cal Temp (Ta)	Delta Cal Flow (Qs)	Delta Cal Flow (Qa)	Accuracy	Initials
04-23-18	1454	16.70	593	592	20.9	21.3	13.24	16.79	-0.5	KN
06-22-18	1312	16.70	593	592.0	28.7	28.4	12.57	16.81	-0.7	KN

APPENDIX E

Independent PM_{10} Sampler Performance Audit Report

AUDIT REPORT
FOR

ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE
ALTON, UTAH
SECOND QUARTER 2018

Prepared for

Kirk Nicholes
Alton Coal Development, LLC
463 N 100 W
Cedar City, Utah, 84721

Prepared by

Air Resource SPECIALISTS

1901 Sharp Point Drive, Suite F
Fort Collins, CO 80525
970-484-7941

Site Audited: June 28, 2018

TABLE OF CONTENTS

LIST OF TABLES

1.0 INTRODUCTION

Air Resource Specialists, Inc. (ARS) conducted a performance audit of Alton Coal Development, LLC ambient air quality monitoring systems on June 28, 2018. The monitoring sites are located at the Coal Hollow Mine near Alton, Utah.

Table 1-1

Site Location Information

	Primary CHM	Background	Primary NPL
Latitude	37° 24' 5.0" N	37° 24' 20.9" N	37° 24' 43" N
Longitude	112° 27' 21.0" W	112° 26' 1.1" W	112° 27’ 30.6" W
UTM	12S 371147 4140396	12S 373119 4140856	12S 370928 4141570
Elevation	6,890 feet MSL	7,158 feet MSL	6,959 feet MSL

Audit results for the particulate samplers are summarized in Table 1-2. Detailed discussions of performance audit findings and other findings can be found in Section 3.0.

Table 1-2

Summary of Particulate Sampler Audit Results

	Parameter	**Instrument**	**Within Accuracy Goal**
Primary CHM	PM_{10}	BGI PQ200S	Yes
	PM_{10} (collocated)	BGI PQ200S	Yes
Background #1	PM_{10}	BGI PQ200S	Yes
Primary NPL	PM_{10}	BGI PQ200	Yes
	PM_{10} (collocated)	BGI PQ200	Yes

Details of the audit are presented in the following sections:

Section 2.0	Audit Methods and Equipment
Section 3.0	Audit Results
Appendix A	Audit Data Forms
Appendix B	Audit Standards Certifications

Any questions related to this audit or audit report should be addressed to:

Christian A. Kirk
Quality Assurance Officer / Lead Auditor
Air Resource Specialists, Inc.
1901 Sharp Point Drive, Suite F
Fort Collins, Colorado 80525
Telephone: 970-484-7941
Fax: 970-484-3423
E-mail: ckirk@air-resource.com

2.0 AUDIT METHODS

Audit procedures, audit challenge ranges, and acceptance criteria are described below. These ranges and limits conform to EPA's PSD guidelines. Audit results were verbally communicated to the site operator prior to departure from the site. A follow-up e-mail summarizing audit findings was also sent to Alton Coal Development, LLC personnel. Audit details are provided in Appendix A.

Guidance from the following EPA documents was used to establish the audit procedures:

- 40 CFR 58, Appendix A. *Quality Assurance Requirements for SLAMS, SPMs, and PSD Air Monitoring*
- EPA *Quality Assurance Handbook for Air Pollution Measurement Systems:*
  - *Volume I. A Field Guide to Environmental Quality Assurance*
  - *Volume II. Ambient Air Quality Monitoring Program*
  - *Volume IV. Meteorological Measurements*
- EPA *Meteorological Monitoring Guidance for Regulatory Modeling Applications*
- EPA *Transfer Standards for Calibration of Air Monitoring Analyzers for Ozone*

2.1 PARTICULATE SAMPLERS (FRM PM_{10})

The filter-based FRM PM_{10} particulate samplers are audited in their normal operating mode. ARS audits the samplers with a BGI DeltaCal audit standard which measures flow, temperature, and barometric pressure. Prior to conducting the flow audit, a system leak check is performed in accordance with the manufacturer's specifications. The observed volumetric operational flow and design flow of the sampler are compared to the audit flows measured by the audit standard. Differences between the operational sampler flow and audit flow that are greater than ±10% are considered out of tolerance. Differences between the designated design flow and the audit flow greater than ±10% are considered out of tolerance. In addition to the flow audits, observed ambient temperature, filter temperature, and barometric pressure measurements of the particulate samplers are also audited by comparison to the audit standard. A temperature difference greater than $\pm 2^{o}C$ and a barometric pressure difference greater than ±10mm Hg are considered out of tolerance. Audit methods and acceptable criteria for the particulate samplers are summarized in Table 2-1.

Table 2-1

Particulate Samplers
Audit Acceptance Criteria

Parameter	Audit Method	Acceptance Criteria
FRM PM_{10}	Leak Check	Manufacturer specs
	Audit flow to actual sampler flow	$\leq \pm$ 10%
	Design criteria flow to audit flow	$\leq \pm$ 10%
	Audit temperature to sampler temperature	$\leq \pm 2^{o}C$
	Audit temperature to sampler filter temperature	$\leq \pm 2^{o}C$
	Audit barometric pressure to sampler pressure	$\leq \pm$10 mm Hg

Table 2-2

Particulate Samplers
Audit Equipment

References	Manufacturer	Model Number	Serial Number	Expiration Date
FRM Flow	BGI	DeltaCal	1220	3/16/2019

3.0 AUDIT RESULTS

Audit findings and recommendations are discussed below. Detailed audit results are provided in Appendix A.

Performance Audit Results

- There were no performance audit findings.

APPENDIX A

AUDIT DATA FORMS

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N963B

Date and Time correct?
☑ Yes ☐ No
If no, time off by:
0 min

SETTINGS	
Total Flow	16.70

	Automated LEAK CHECK	
	Vacuum Loss Rate	Pass/Fail
	1 cm	PASS

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.95	16.70	-1.5%	1.5%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

	AMBIENT TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	25.9	25.8	-0.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	FILTER TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	27.8	26.7	-1.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	PRESSURE SENSOR (mmHg)			
	Reference	Instrument	Difference	
	591.5	591.0	-0.5	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N964C

Date and Time correct?
☑ Yes ☐ No
If no, time off by:
0 min

SETTINGS	
Total Flow	16.70

Automated LEAK CHECK		
	Vacuum Loss Rate	Pass/Fail
	3 cm	PASS

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.72	16.39	-2.0%	0.1%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

AMBIENT TEMPERATURE SENSOR (°C)				
Reference	Instrument	Difference		
26.0	26.1	0.1	PASS	

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
27.1	27.1	0.0	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
591.5	592.0	0.5	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PG200S
SERIAL NUMBER	N962

Date and Time correct?
☑ Yes ☐ No
If no, time off by:
0 min

SETTINGS	
Total Flow	16.70

	Automated LEAK CHECK	
	Vacuum Loss Rate	Pass/Fail
	3 cm	PASS

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	17.00	16.70	-1.8%	1.8%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

	AMBIENT TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	24.7	24.6	-0.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	FILTER TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	26.0	25.3	-0.7	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	PRESSURE SENSOR (mmHg)			
	Reference	Instrument	Difference	
	586.0	585.0	-1.0	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES: Fluccuated around 16.67-16.7

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2366D

Date and Time correct?
☑ Yes ☐ No
If no, time off by:
0 min

SETTINGS	
Total Flow	16.70

	Automated LEAK CHECK	
	Vacuum Loss Rate	Pass/Fail
	4 cm	PASS

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.64	16.70	0.4%	-0.4%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

	AMBIENT TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	26.3	26.2	-0.1	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	FILTER TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	27.8	27.3	-0.5	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	PRESSURE SENSOR (mmHg)			
	Reference	Instrument	Difference	
	591.0	589.0	-2.0	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2398E

Date and Time correct?
☑ Yes ☐ No
If no, time off by:
0 min

SETTINGS	
Total Flow	16.70

	Automated LEAK CHECK	
	Vacuum Loss Rate	Pass/Fail
	4.0	PASS

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.82	16.67	-0.9%	0.7%	PASS

AUDIT CRITERIA (<=)	
Actual Flow % Diff	10%
Design Flow % Diff	10%

	AMBIENT TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	26.7	27.2	0.5	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	FILTER TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	28.1	27.9	-0.2	PASS

AUDIT CRITERIA (<=)	
Temperature Difference (°C)	2

	PRESSURE SENSOR (mmHg)			
	Reference	Instrument	Difference	
	590.5	592.0	1.5	PASS

AUDIT CRITERIA (<=)	
Pressure Difference (mmHg)	10

NOTES:

Air Resource SPECIALISTS

SITE INFORMATION

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hollow Mine					
NETWORK TYPE		Alton Coal- Coal Hollow					

		Deg	Min	Sec		Decimal
LATITUDE	North				--CALCULATE->	
LONGITUDE	West					

Decimal		Deg	Min	Sec
	--CALCULATE->			

	Meters		Feet
ELEVATION		--CALCULATE->	

Feet		Meters
	--CALCULATE->	

Please verify site standards used by the site operator

SITE STANDARDS	MANUFACTURER	MODEL	SERIAL #	Calibration Expiration Date
PM Flow Reference				

NOTES:	

Air Resource SPECIALISTS

CALIBRATION AND VERIFICATION STANDARDS

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	M. Gosselin	DATE	6/28/2018
SITE NAME		Coal Hollow Mine					
Network type		Alton Coal- Coal Hollov					

	MANUFACTURER	MODEL	SERIAL #	Calibration Expiration Date
Ozone Transfer Standard				
Gas Dilution Transfer Standard				
MFC High Flow Reference				
MFC Low Flow Reference				
Temperature Reference				
AT/RH Sensor Reference				
Barometric Pressure Reference				
Wind Speed Reference (high rpm)				
Wind Speed Reference (low rpm)				
Wind Speed Torque Gauge				
Wind Direction Alignment Reference				
Wind Direction Linearity Reference				
Wind Direction Torque Gauge				
Solar Radiation Reference				
Multiplier	W/m2 / mV			
UV Radiation Reference				
Multiplier	W/m2 / mV			
Precipitation Reference				
Volume 1000	mL			

PM Flow Standard #1	BGI	deltaCal	1220	3/16/2019
PM Flow Standard #2				
PM Flow Standard #3				
PM Flow Standard #4				

PM Temperature Standard #1	BGI	deltaCal	1220	3/16/2019
PM Temperature Standard #2				
PM Temperature Standard #3				
PM Temperature Standard #4				

PM Barometric Pressure Standard #1	BGI	deltaCal	1220	3/16/2019
PM Barometric Pressure Standard #2				
PM Barometric Pressure Standard #3				
PM Barometric Pressure Standard #4				

TEOM MTV Standard				

HiVol Direct Flow Reference				
Orifice				
ΔP orifice manometer				

APPENDIX B

AUDIT STANDARDS CERTIFICATIONS

Mesa Labs 10 Park Place Butler, NJ 07405
NIST Traceable Calibration Facility, ISO 9001:2008 Registered

CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

(Refer to instruction manual for further details of calibration)

deltaCal Serial Number: **1220** DATE: 16-Mar-2018

Calibration Operator: P.Pitty

Critical Venturi Flow Meter: Max Uncertainity = 0.346%
Serial Number: 1A *CEESI NVLAP NIST Data File 07BGI-0001*
Serial Number: 2A *CEESI NVLAP NIST Data File 07BGI-0003*
Serial Number: 5C COX Nist Data File CCAL33222 - 5 C
Serial Number: 4A *CEESI NVLAP NIST Data File 07BGI-0002*
Serial Number: 3A *CEESI NVLAP NIST Data File 07BGI-0004*

Room Temperature: +- 0.03°C from -5°C - 70°C Room Temperature: 24.0 °C
Brand: Telatemp Serial Number: 358921
Std Cal Date 19-Apr-17 Std Cal Due Date 19-Apr-18
deltaCal:
Ambient Temperature (set): 24.0 °C
Aux (filter) Temperature (set): 24.0 °C

Barometric Pressure ans Absolute Pressure
Vaisala Model PTB330(50-1100) Digital Accuracy: 0.03371%
Serial Number: HO850001
Std Cal Date 27-Mar-17 Std Cal Due Date 27-Mar-18
deltaCal:
Barometric pressure (set): 744.5 mm of Hg

Results of Venturi Calibration
Flow Rate (Q) vs. Pressure Drop (ΔP). Where: Q=Lpm, ΔP= Cm of H2O

Q= 4.03153 ΔP ^ 0.51384 Overall Uncertainty: 0.35%
Q= 4.03950 ΔP ^ 0.48616 Overall Uncertainty: 0.35%

Date Placed In Service 4/6/18
(To be filled in by operator upon receipt)
Recommended Recalibration Date 4/6/19
(12 months from date placed in service)

To Check a deltaCal 16-Mar-18 P.Pitty

1.5-19.5 VER 4.00P

BP= 744.5 mm of Hg

Maximum allowable error at any flow rate is .75%.

Serial No. 1220

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 2	148.31	24.00	1.694	1.687	**-0.41**
	213.33	24.00	2.458	2.457	**-0.05**
	394.60	24.00	4.588	4.590	**0.04**
	475.49	24.00	5.539	5.532	**-0.13**
	527.63	24.00	6.152	6.122	**-0.48**
#1	178.24	24.60	7.175	7.208	**0.46**
	271.68	24.60	11.018	11.022	**0.04**
	341.52	24.60	13.890	13.881	**-0.06**
	415.33	24.60	16.925	16.910	**-0.09**
	478.46	24.60	19.521	19.522	**0.01**
				Average %	**-0.07**

To Check a deltaCal 16-Mar-18 Pre-Recert

1.5-19.5 VER 4.00P

BP= 743 mm of Hg

Maximum allowable error at any flow rate is .75%.

Serial No. 1220

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 2	140.58	21.50	1.593	1.676	**5.22**
	296.30	21.50	3.411	3.400	**-0.33**
	533.94	21.50	6.186	6.170	**-0.26**
#1	199.13	21.50	7.966	7.776	**-2.39**
	329.20	21.50	13.270	12.950	**-2.41**
	481.00	21.50	19.460	19.325	**-0.69**
				Average %	**-0.14**