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463 North 100 West, Suite 1
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October 21, 2016

Jon Black
Engineer
Major New Source Review Section
Utah Division of Air Quality
195 North 1950 West
Salt Lake City, UT 84114

RE: 3rd QT 2016 Report - Coal Hollow Mine
Project ID: N14047-0004

Dear Mr. Black,

Please find enclosed the Summary of PM_{10} Data Collected at the Coal Hollow Mine, Utah during the Third Quarter, 2016 prepare by Alton Coal Development, LLC.

Please do not hesitate to contact me if you have any questions. I can be reached at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes
Environmental Specialist
Alton Coal Development, LLC

Alton Coal Development, LLC.

Summary of PM_{10} Data
Collected at Coal Hollow Mine, Utah
During the Third Quarter, 2016

Submitted to:
Utah Division of Environmental Quality
Division of Air Quality
195 North 1950 West
Salt Lake City, Utah
Contact: Jon Black

Prepared by:
Alton Coal Development, LLC.
463 N 100W, Suite1
Cedar City, Utah 84721
Contact: Kirk Nicholes
435.867.5331

Alton Coal Development
Coal Hollow
Project

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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 third quarter of 2016.

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 I 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 compliance monitor for the North Private Lease (NPL) 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

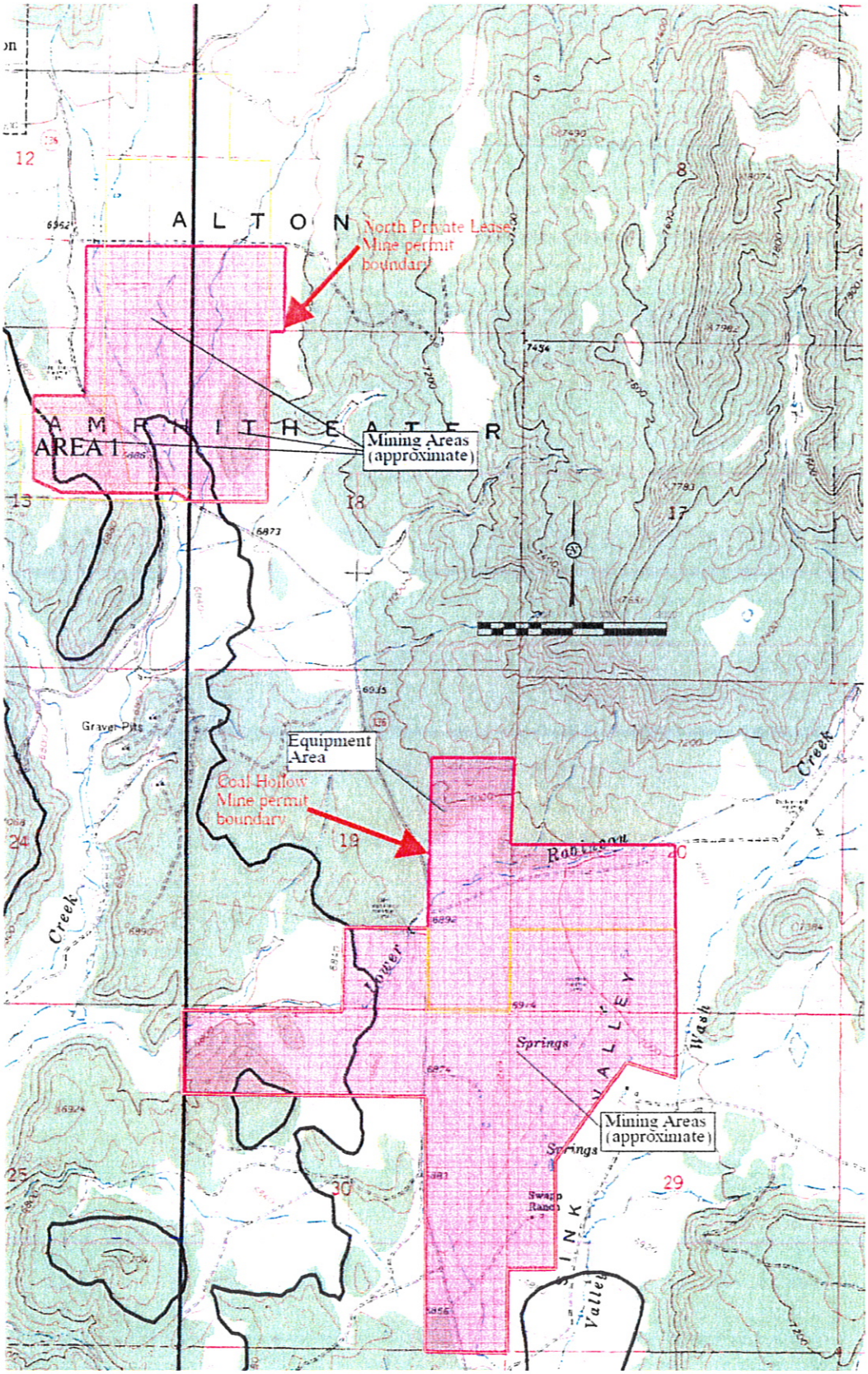
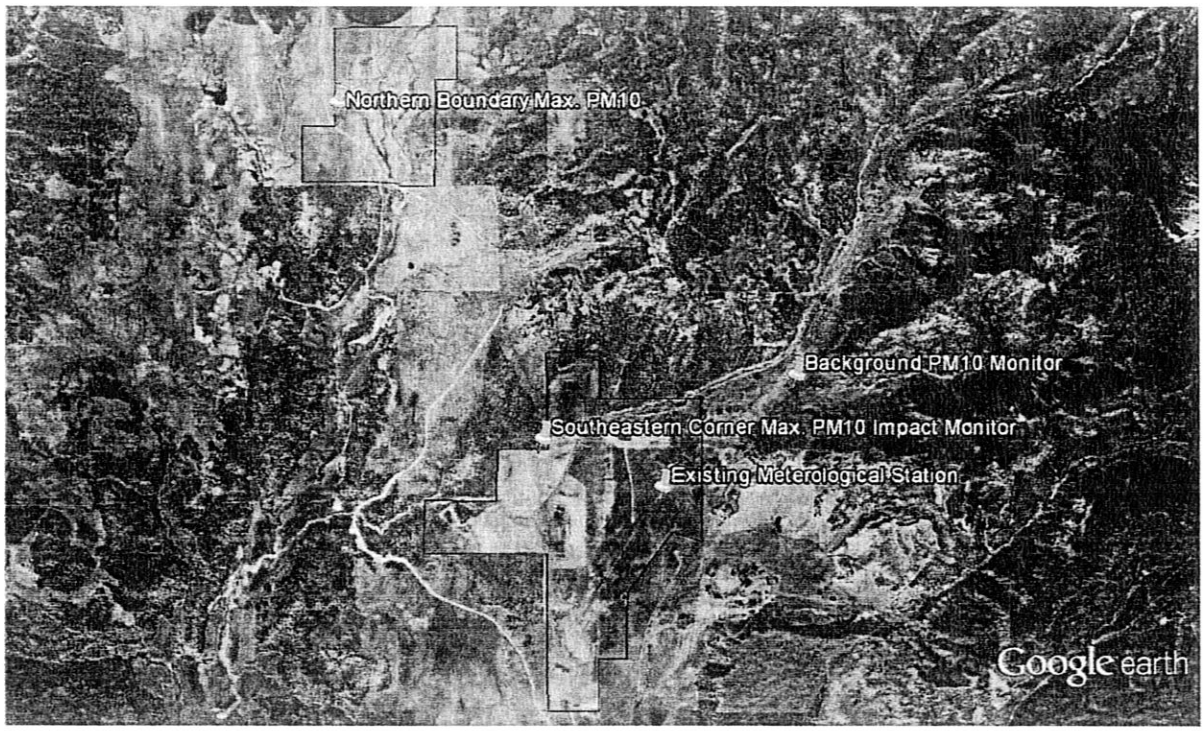


Figure 2 - Satellite View of Monitoring Locations



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. All measured PM_{10} concentrations were below the 24-hour National Ambient Air Quality Standard (NAAQS) of 150 $\mu g/m^3$ with the exception of September 9th for the CHM compliance monitor and the July 7th and July 11th for the NPL compliance & collocated monitors. The September 9th CHM compliance monitor sample was 187.4 $\mu g/m^3$ which is unsupported by the collocated monitor sample of 38.4 $\mu g/m^3$. Due to the lack of activity around near these monitors, it is assumed that the collocated monitor sample more accurately represents the conditions that sample period. The July 7th NPL compliance and collocated monitors samples were 272.3 & 268.4 $\mu g/m^3$ respectively and the July 11th NPL compliance and collocated monitors samples were 224.4 & 231.5 $\mu g/m^3$ respectively. ACD was maintaining road & mining dust suppression with a smaller rental water truck while it's larger water truck was out of service. Fugitive dust during this time period was primarily from a section of County Road 136 that was in construction near the location of these monitors.

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	7/11/2016	24.1
2nd Highest	8/10/2016	17.0
Monthly Mean	7/1/16-7/31/16	16.1
Monthly Mean	8/1/16-8/31/16	9.7
Monthly Mean	9/1/16-9/30/16	9.3
Quarterly Mean	7/1/16-9/30/16 (13 valid samples)	11.5

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	9/9/2016	187.4
2nd Highest	7/29/2016	83.1

Monthly Mean	7/1/16-7/31/16	38.2
Monthly Mean	8/1/16-8/31/16	29.3
Monthly Mean	9/1/16-9/30/16	56.8
Quarterly Mean	7/1/16-9/30/16 (15 valid samples)	41.4

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	7/29/2016	86.9
2nd Highest	7/11/2016 & 8/16/2016	64.4
Monthly Mean	7/1/16-7/31/16	44.4
Monthly Mean	8/1/16-8/31/16	30.7
Monthly Mean	9/1/16-9/30/16	31.2
Quarterly Mean	7/1/16-9/30/16 (15 valid samples)	35.4

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	7/5/2016	272.3
2nd Highest	6/29/2016	224.4
Monthly Mean	7/1/16-7/31/16	137.5
Monthly Mean	8/1/16-8/31/16	17.9

Monthly Mean	9/1/16-9/30/16	14.5
Quarterly Mean	7/1/16-9/30/16 (13 valid samples)	53.7

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	7/5/2016	268.4
2nd Highest	7/11/2016	231.5
Monthly Mean	7/1/16-7/31/16	116.8
Monthly Mean	8/1/16-8/31/16	18.8
Monthly Mean	9/1/16-9/30/16	15.3
Quarterly Mean	7/1/16-9/30/16 (13 valid samples)	55.7

Table VI – Mean Quarterly and Monthly Wind Speed

	3rd Quarter 2016	Jul.	Aug.	Sep.
Mean Wind Speed (m/s)	2.99	3.22	2.72	3.04

4.0 DATA RECOVERY AND QUALITY ASSURANCE

4.1 Data Recovery

Monitor 962A

Monitor 962A collected 13 of the 15 samples during the quarter. The percent recovery for this quarter is 87%. For the sample date of July 23rd variations in flow shut the monitor down at 11

hrs and 24 minutes of run time. For the sample date of Sept 27th the monitor stop time was incorrectly programed and the monitor over ran the 24-hour sample period.

Monitor 963B

Monitor 963B collected 15 of the 15 samples during the quarter. The percent recovery for this quarter is 100%.

Monitor 964C

Monitor 964C collected 15 of the 15 samples during the quarter. The percent recovery for this quarter is 100%.

Monitor 2366D

Monitor 2366D collected 13 of the 15 samples during the quarter. The percent recovery for this quarter is 87%. For the sample date of Jul 17th the monitor error code indicate that the monitor flow varied more than 5% and was shut down at 17:41 hours. For the sample date of Sep 9th the monitor did not collect data for the run.

Monitor 2398E

Monitor 2398E collected 13 of the 15 samples during the quarter. The percent recovery for this quarter is 87%. For the sample date of Sep 9th the monitor stop time was incorrectly programed and the monitor over ran the 24-hour sample period. For the sample date of Sep 27th the monitor did not collect data for the run.

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

Table VIII - Summary of Data Recovery

SAMPLER	POSSIBLE SAMPLES	VALID SAMPLES	PERCENT DATA RECOVERY
962A	15	13	87%
963B	15	15	100%
964C	15	15	100%
2366D	15	13	87%
2398E	15	13	87%

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 15 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 -50.6% to 132.0%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 39.32%. This value is not within the 10% goal for aggregate CV.

Precision calculations at the North Private Lease were developed based on 12 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 -29.9% to 18.8%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 12.86%. 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 Sept. 14, 2016. 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 VII III- Audit Summary

SAMPLER	AUDIT % DIFFERENCE	LIMIT*	DESIGN % DIFFERENCE	LIMIT*
962A	-1.5	±4%	1.5	± 5%
963B	-0.9	±4%	0.9	± 5%
964C	-0.1	±4%	0.1	± 5%
2366D	-0.6	±4%	0.6	± 5%
2398E	-0.3	±4%	0.3	± 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

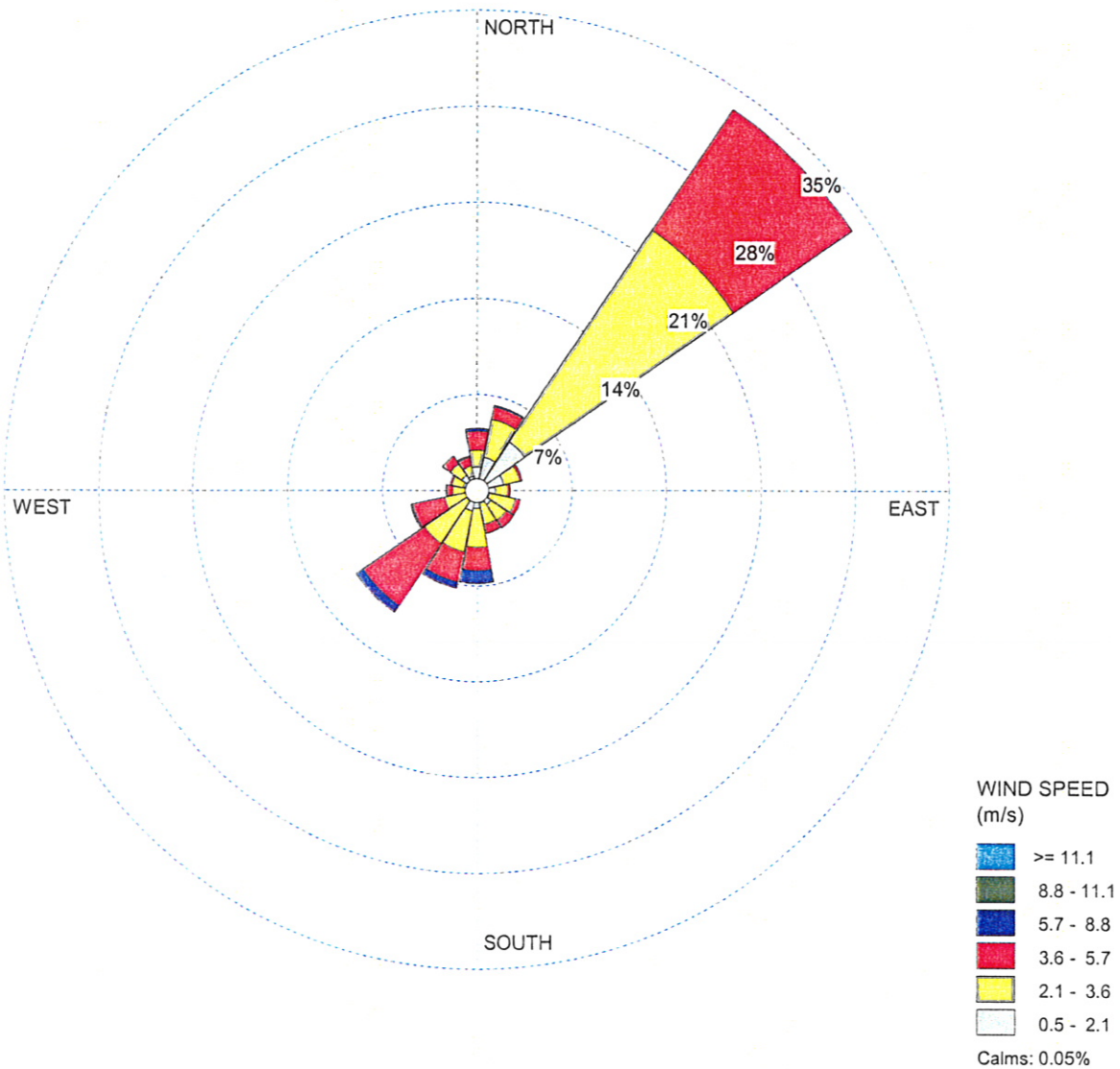
Windrose

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2016 3rd Quarter

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 7/1/2016 - 00:00 **End Date: 9/30/2016 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.05%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **2.99 m/s**	DATE: **10/11/2016**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1
Start Date: 7/1/2016 - 00:00
End Date: 9/30/2016 - 23:00

Run ID: Coal Hollow Mine

Frequency Distribution
(Count)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	38	27	31	4	0	0	100
11.25-33.75	55	62	20	3	0	0	140
33.75-56.25	95	411	234	0	0	0	740
56.25-78.75	45	27	4	0	0	0	76
78.75-101.25	31	19	4	1	0	0	55
101.25-123.75	21	44	8	0	0	0	73
123.75-146.25	28	30	15	0	0	0	73
146.25-168.75	21	35	15	0	0	0	71
168.75-191.25	29	63	37	21	0	0	150
191.25-213.75	34	67	50	10	0	0	161
213.75-236.25	20	84	121	13	0	0	238
236.25-258.75	16	38	53	3	0	0	110
258.75-281.25	17	22	10	1	0	0	50
281.25-303.75	23	19	3	0	0	0	45
303.75-326.25	30	22	15	0	0	0	67
326.25-348.75	24	17	14	2	0	0	57
Total	527	987	634	58	0	0	2208

Frequency of Calm Winds: 2
Average Wind Speed: 2.99 m/s

Station ID: 1
Start Date: 7/1/2016 - 00:00
End Date: 9/30/2016 - 23:00

Run ID: Coal Hollow Mine

Frequency Distribution
(Normalized)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.017210	0.012228	0.014040	0.001812	0.000000	0.000000	0.045290
11.25-33.75	0.024909	0.028080	0.009058	0.001359	0.000000	0.000000	0.063406
33.75-56.25	0.043025	0.186141	0.105978	0.000000	0.000000	0.000000	0.335145
56.25-78.75	0.020380	0.012228	0.001812	0.000000	0.000000	0.000000	0.034420
78.75-101.25	0.014040	0.008605	0.001812	0.000453	0.000000	0.000000	0.024909
101.25-123.75	0.009511	0.019928	0.003623	0.000000	0.000000	0.000000	0.033062
123.75-146.25	0.012681	0.013587	0.006793	0.000000	0.000000	0.000000	0.033062
146.25-168.75	0.009511	0.015851	0.006793	0.000000	0.000000	0.000000	0.032156
168.75-191.25	0.013134	0.028533	0.016757	0.009511	0.000000	0.000000	0.067935
191.25-213.75	0.015399	0.030344	0.022645	0.004529	0.000000	0.000000	0.072917
213.75-236.25	0.009058	0.038043	0.054801	0.005888	0.000000	0.000000	0.107790
236.25-258.75	0.007246	0.017210	0.024004	0.001359	0.000000	0.000000	0.049819
258.75-281.25	0.007699	0.009964	0.004529	0.000453	0.000000	0.000000	0.022645
281.25-303.75	0.010417	0.008605	0.001359	0.000000	0.000000	0.000000	0.020380
303.75-326.25	0.013587	0.009964	0.006793	0.000000	0.000000	0.000000	0.030344
326.25-348.75	0.010870	0.007699	0.006341	0.000906	0.000000	0.000000	0.025815
Total	0.238678	0.447011	0.287138	0.026268	0.000000	0.000000	0.999094

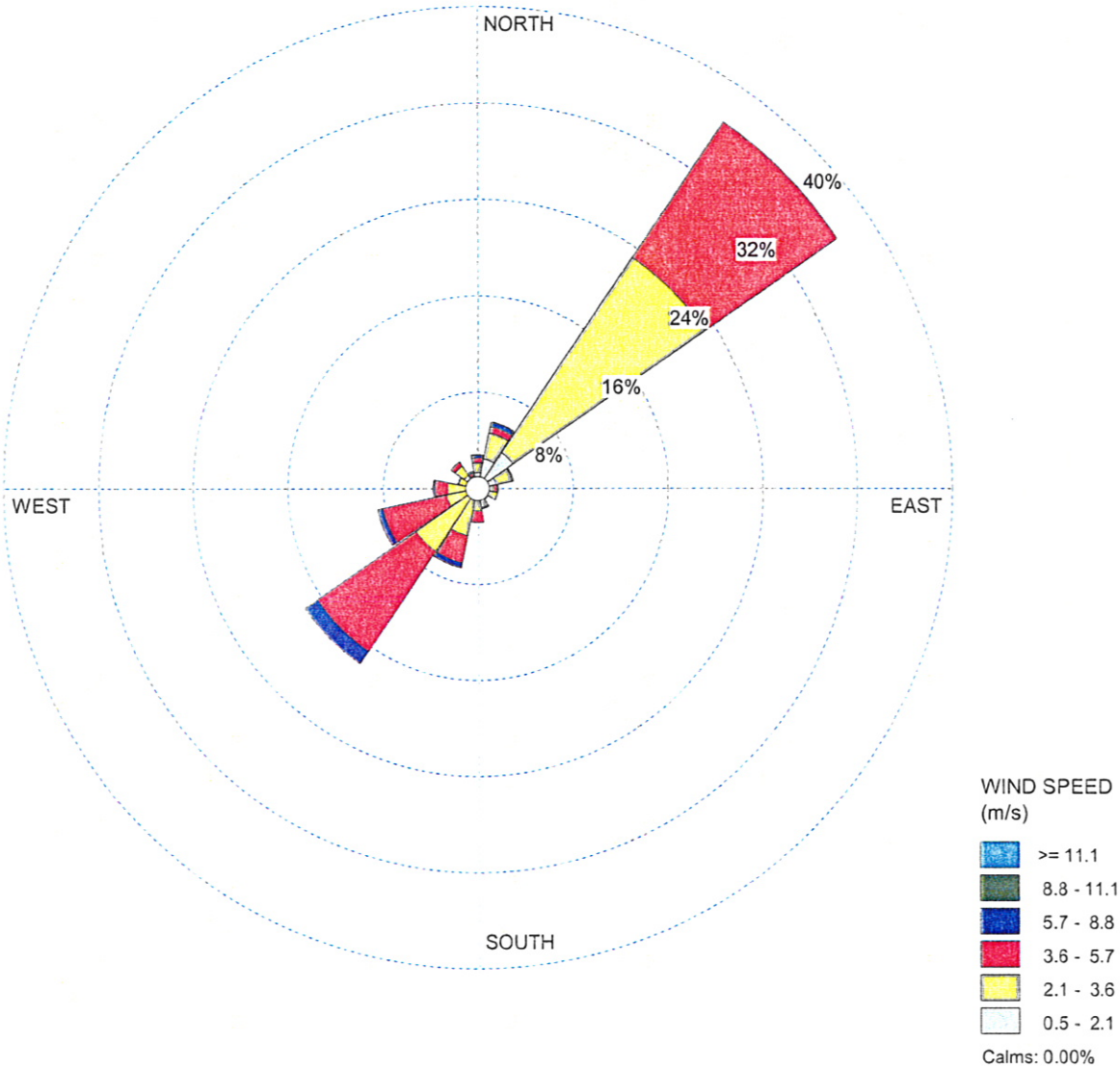
Frequency of Calm Winds: 0.09%
Average Wind Speed: 2.99 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2016 July

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 7/1/2016 - 00:00 **End Date: 7/31/2016 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **3.22 m/s**	DATE: **10/11/2016**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1
Start Date: 7/1/2016 - 00:00
End Date: 7/31/2016 - 23:00

Run ID:

Frequency Distribution
(Count)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	10	6	3	2	0	0	21
11.25-33.75	19	16	4	3	0	0	42
33.75-56.25	27	145	101	0	0	0	273
56.25-78.75	12	10	1	0	0	0	23
78.75-101.25	3	7	2	1	0	0	13
101.25-123.75	3	10	0	0	0	0	13
123.75-146.25	1	4	3	0	0	0	8
146.25-168.75	5	7	1	0	0	0	13
168.75-191.25	3	11	7	0	0	0	21
191.25-213.75	5	25	17	3	0	0	50
213.75-236.25	7	40	75	9	0	0	131
236.25-258.75	5	15	41	3	0	0	64
258.75-281.25	7	12	8	1	0	0	28
281.25-303.75	6	6	1	0	0	0	13
303.75-326.25	10	7	3	0	0	0	20
326.25-348.75	5	3	2	1	0	0	11
Total	128	324	269	23	0	0	744

Frequency of Calm Winds: 0
Average Wind Speed: 3.22 m/s

Station ID: 1
Start Date: 7/1/2016 - 00:00
End Date: 7/31/2016 - 23:00

Run ID:

Frequency Distribution
(Normalized)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.013441	0.008065	0.004032	0.002688	0.000000	0.000000	0.028226
11.25-33.75	0.025538	0.021505	0.005376	0.004032	0.000000	0.000000	0.056452
33.75-56.25	0.036290	0.194892	0.135753	0.000000	0.000000	0.000000	0.366935
56.25-78.75	0.016129	0.013441	0.001344	0.000000	0.000000	0.000000	0.030914
78.75-101.25	0.004032	0.009409	0.002688	0.001344	0.000000	0.000000	0.017473
101.25-123.75	0.004032	0.013441	0.000000	0.000000	0.000000	0.000000	0.017473
123.75-146.25	0.001344	0.005376	0.004032	0.000000	0.000000	0.000000	0.010753
146.25-168.75	0.006720	0.009409	0.001344	0.000000	0.000000	0.000000	0.017473
168.75-191.25	0.004032	0.014785	0.009409	0.000000	0.000000	0.000000	0.028226
191.25-213.75	0.006720	0.033602	0.022849	0.004032	0.000000	0.000000	0.067204
213.75-236.25	0.009409	0.053763	0.100806	0.012097	0.000000	0.000000	0.176075
236.25-258.75	0.006720	0.020161	0.055108	0.004032	0.000000	0.000000	0.086022
258.75-281.25	0.009409	0.016129	0.010753	0.001344	0.000000	0.000000	0.037634
281.25-303.75	0.008065	0.008065	0.001344	0.000000	0.000000	0.000000	0.017473
303.75-326.25	0.013441	0.009409	0.004032	0.000000	0.000000	0.000000	0.026882
326.25-348.75	0.006720	0.004032	0.002688	0.001344	0.000000	0.000000	0.014785
Total	0.172043	0.435484	0.361559	0.030914	0.000000	0.000000	1.000000

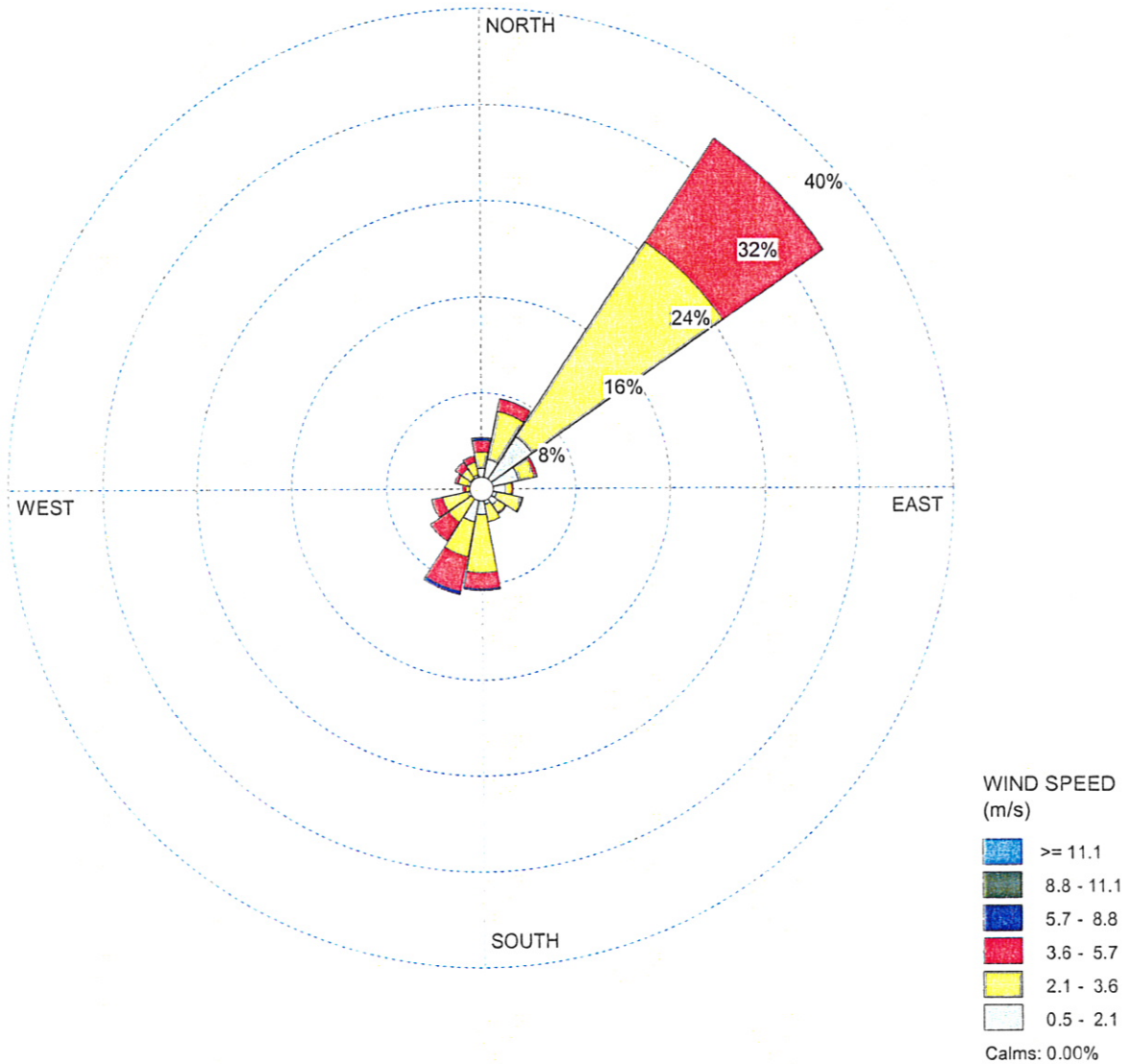
Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.22 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2016 August

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 8/1/2016 - 00:00 End Date: 8/31/2016 - 23:00	Alton Coal Development, LLC - Coal Hollow Mine	
		MODELER: B. Kirk Nicholes	
	CALM WINDS: 0.00%	TOTAL COUNT: 744 hrs.	
	AVG. WIND SPEED: 2.72 m/s	DATE: 10/11/2016	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1 Run ID:
Start Date: 8/1/2016 - 00:00
End Date: 8/31/2016 - 23:00

Frequency Distribution
(Count)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	13	10	7	2	0	0	32
11.25-33.75	19	30	8	0	0	0	57
33.75-56.25	39	145	77	0	0	0	261
56.25-78.75	24	10	2	0	0	0	36
78.75-101.25	15	4	1	0	0	0	20
101.25-123.75	10	16	1	0	0	0	27
123.75-146.25	12	6	1	0	0	0	19
146.25-168.75	10	11	0	0	0	0	21
168.75-191.25	16	36	10	1	0	0	63
191.25-213.75	21	22	22	2	0	0	67
213.75-236.25	7	18	14	0	0	0	39
236.25-258.75	9	16	7	0	0	0	32
258.75-281.25	7	3	2	0	0	0	12
281.25-303.75	9	6	2	0	0	0	17
303.75-326.25	8	7	5	0	0	0	20
326.25-348.75	9	8	4	0	0	0	21
Total	228	348	163	5	0	0	744

Frequency of Calm Winds: 0
Average Wind Speed: 2.72 m/s

Station ID: 1
Start Date: 8/1/2016 - 00:00
End Date: 8/31/2016 - 23:00

Run ID:

Frequency Distribution
(Normalized)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.017473	0.013441	0.009409	0.002688	0.000000	0.000000	0.043011
11.25-33.75	0.025538	0.040323	0.010753	0.000000	0.000000	0.000000	0.076613
33.75-56.25	0.052419	0.194892	0.103495	0.000000	0.000000	0.000000	0.350806
56.25-78.75	0.032258	0.013441	0.002688	0.000000	0.000000	0.000000	0.048387
78.75-101.25	0.020161	0.005376	0.001344	0.000000	0.000000	0.000000	0.026882
101.25-123.75	0.013441	0.021505	0.001344	0.000000	0.000000	0.000000	0.036290
123.75-146.25	0.016129	0.008065	0.001344	0.000000	0.000000	0.000000	0.025538
146.25-168.75	0.013441	0.014785	0.000000	0.000000	0.000000	0.000000	0.028226
168.75-191.25	0.021505	0.048387	0.013441	0.001344	0.000000	0.000000	0.084677
191.25-213.75	0.028226	0.029570	0.029570	0.002688	0.000000	0.000000	0.090054
213.75-236.25	0.009409	0.024194	0.018817	0.000000	0.000000	0.000000	0.052419
236.25-258.75	0.012097	0.021505	0.009409	0.000000	0.000000	0.000000	0.043011
258.75-281.25	0.009409	0.004032	0.002688	0.000000	0.000000	0.000000	0.016129
281.25-303.75	0.012097	0.008065	0.002688	0.000000	0.000000	0.000000	0.022849
303.75-326.25	0.010753	0.009409	0.006720	0.000000	0.000000	0.000000	0.026882
326.25-348.75	0.012097	0.010753	0.005376	0.000000	0.000000	0.000000	0.028226
Total	0.306452	0.467742	0.219086	0.006720	0.000000	0.000000	1.000000

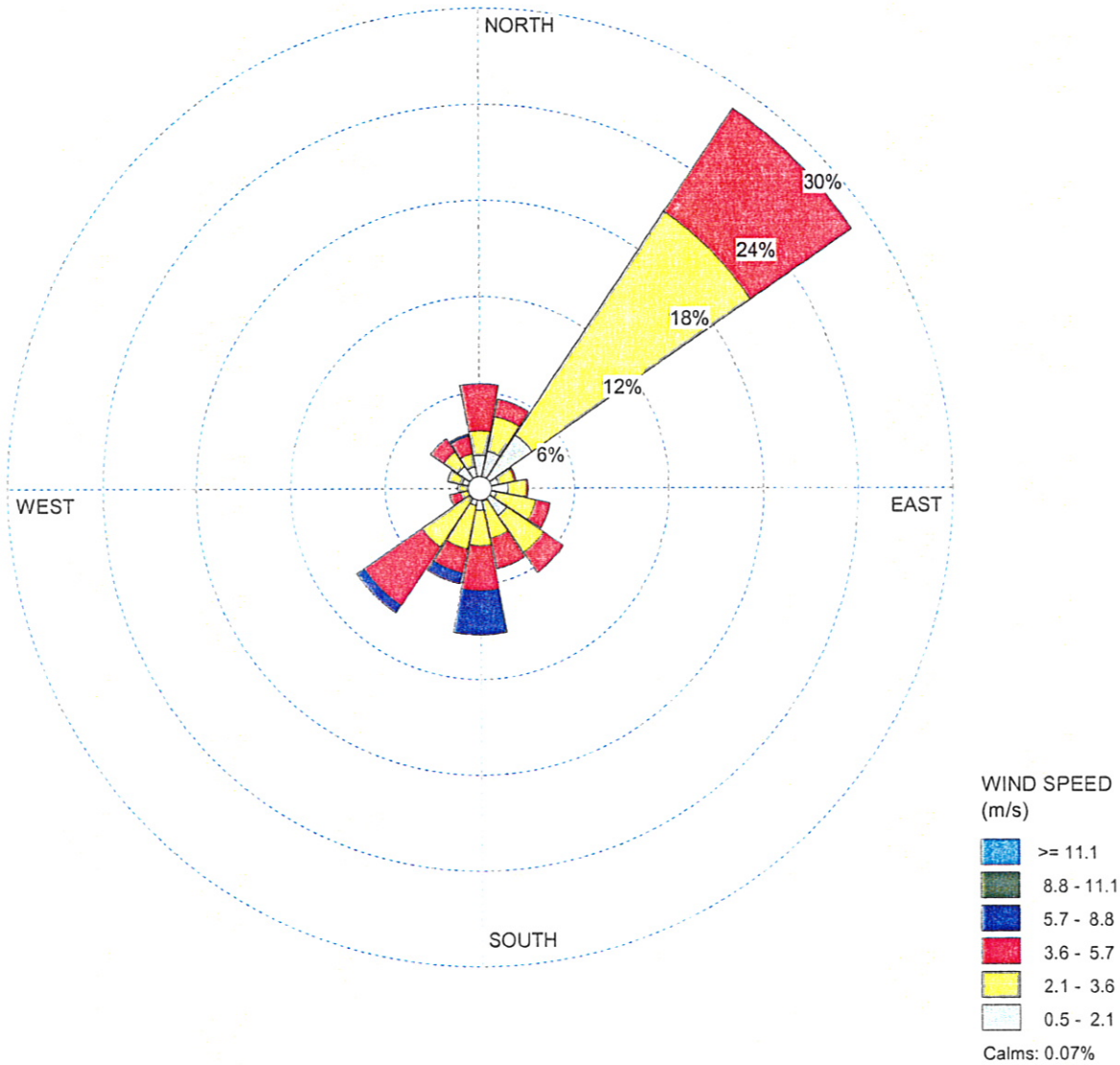
Frequency of Calm Winds: 0.00%
Average Wind Speed: 2.72 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
2016 September

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD:	COMPANY NAME:	
	Start Date: 9/1/2016 - 00:00 **End Date: 9/30/2016 - 23:00**	**Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.07%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **3.04 m/s**	DATE: **10/11/2016**	PROJECT NO.:

WRPLOT View - Lakes Environmental Software

Station ID: 1
Start Date: 9/1/2016 - 00:00
End Date: 9/30/2016 - 23:00

Run ID:

Frequency Distribution
(Count)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	15	11	21	0	0	0	47
11.25-33.75	17	16	8	0	0	0	41
33.75-56.25	29	121	56	0	0	0	206
56.25-78.75	9	7	1	0	0	0	17
78.75-101.25	13	8	1	0	0	0	22
101.25-123.75	8	18	7	0	0	0	33
123.75-146.25	15	20	11	0	0	0	46
146.25-168.75	6	17	14	0	0	0	37
168.75-191.25	10	16	20	20	0	0	66
191.25-213.75	8	20	11	5	0	0	44
213.75-236.25	6	26	32	4	0	0	68
236.25-258.75	2	7	5	0	0	0	14
258.75-281.25	3	7	0	0	0	0	10
281.25-303.75	8	7	0	0	0	0	15
303.75-326.25	12	8	7	0	0	0	27
326.25-348.75	10	6	8	1	0	0	25
Total	171	315	202	30	0	0	720

Frequency of Calm Winds: 2
Average Wind Speed: 3.04 m/s

Station ID: 1
Start Date: 9/1/2016 - 00:00
End Date: 9/30/2016 - 23:00

Run ID:

Frequency Distribution
(Normalized)

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

	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
348.75-11.25	0.020833	0.015278	0.029167	0.000000	0.000000	0.000000	0.065278
11.25-33.75	0.023611	0.022222	0.011111	0.000000	0.000000	0.000000	0.056944
33.75-56.25	0.040278	0.168056	0.077778	0.000000	0.000000	0.000000	0.286111
56.25-78.75	0.012500	0.009722	0.001389	0.000000	0.000000	0.000000	0.023611
78.75-101.25	0.018056	0.011111	0.001389	0.000000	0.000000	0.000000	0.030556
101.25-123.75	0.011111	0.025000	0.009722	0.000000	0.000000	0.000000	0.045833
123.75-146.25	0.020833	0.027778	0.015278	0.000000	0.000000	0.000000	0.063889
146.25-168.75	0.008333	0.023611	0.019444	0.000000	0.000000	0.000000	0.051389
168.75-191.25	0.013889	0.022222	0.027778	0.027778	0.000000	0.000000	0.091667
191.25-213.75	0.011111	0.027778	0.015278	0.006944	0.000000	0.000000	0.061111
213.75-236.25	0.008333	0.036111	0.044444	0.005556	0.000000	0.000000	0.094444
236.25-258.75	0.002778	0.009722	0.006944	0.000000	0.000000	0.000000	0.019444
258.75-281.25	0.004167	0.009722	0.000000	0.000000	0.000000	0.000000	0.013889
281.25-303.75	0.011111	0.009722	0.000000	0.000000	0.000000	0.000000	0.020833
303.75-326.25	0.016667	0.011111	0.009722	0.000000	0.000000	0.000000	0.037500
326.25-348.75	0.013889	0.008333	0.011111	0.001389	0.000000	0.000000	0.034722
Total	0.237500	0.437500	0.280556	0.041667	0.000000	0.000000	0.997222

Frequency of Calm Winds: 0.28%
Average Wind Speed: 3.04 m/s

APPENDIX B

Listing of PM_{10} Concentrations

Individual Data Sheets provided on CD

Background Monitor 962A

PM_{10} Sampler Summary

July 1, 2016 - September 30, 2016

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

AQS ID:

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
07/05/16	P2930767	**8.5**	**10.8**	23:59	24.0	18.9	374.589	374.794	0.205		
07/11/16	P2930772	**19.0**	**24.1**	23:59	24.0	18.9	378.573	379.030	0.457	HT	
07/17/16	P2930990	**10.6**	**13.5**	23:59	24.0	18.9	368.561	368.817	0.256	PI,HT	
07/23/16	P2930995	**Invalid - AG**	**Invalid - AG**	11:24	11.4	9.0	375.849	375.940	0.091	SP,TD,HT	
07/29/16	P2931000	**12.3**	**15.8**	23:59	24.0	18.7	389.056	389.352	0.296	TD	
08/04/16	P2931177	**8.8**	**11.0**	23:59	24.0	19.2	382.790	383.002	0.212	HT	
08/10/16	P2931182	**13.6**	**17.0**	23:59	24.0	19.3	375.660	375.988	0.328	HT	
08/16/16	P2931428	**7.5**	**9.6**	23:59	24.0	18.9	392.269	392.451	0.182		
08/22/16	P2931435	**5.0**	**6.3**	23:59	24.0	19.3	382.864	382.986	0.122		
08/28/16	P2931711	**3.6**	**4.4**	23:59	24.0	19.4	377.675	377.762	0.087		
09/03/16	P2931716	**6.5**	**8.2**	23:59	24.0	19.0	382.311	382.468	0.157	TD,HT	
09/09/16	P2931721	**10.6**	**13.4**	23:59	24.0	19.0	372.896	373.151	0.255	TD	
09/15/16	P2932013	**8.6**	**10.6**	24:00	24.0	19.4	377.990	378.197	0.207		
09/21/16	P2932020	**4.1**	**5.1**	23:59	24.0	19.4	374.678	374.777	0.099		
09/27/16	P2933157	**Invalid - AG**	**Invalid - AG**	61:11	61.3	49.5	381.323	381.566	0.243	SP,CI	
07/07/16	P2930777		**Field Blank**				400.056	400.069	0.013		
09/16/16	P2932026		**Field Blank**				378.783	378.788	0.005		

# Valid	Recovery	Average	St. Dev.	Max	Min
13	**87%**	**11.5**	**5.4**	**24.1**	**4.4**

BGI PQ200 Air Sampling System Downloaded 2016 07 jul 12:52:24

Job Details:

Job Name: 16Jul07A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7934:21
Flags:

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

	Max	Min	Avg	Units
BP	588	585	586	mmHg
TA	29.6	8.4	19.2	°C
Q	---	---	16.71	Lpm

QCV 0.42 %

Max overheat 7.6 °C
occured 06-jul 20:17:25

Timer Information:

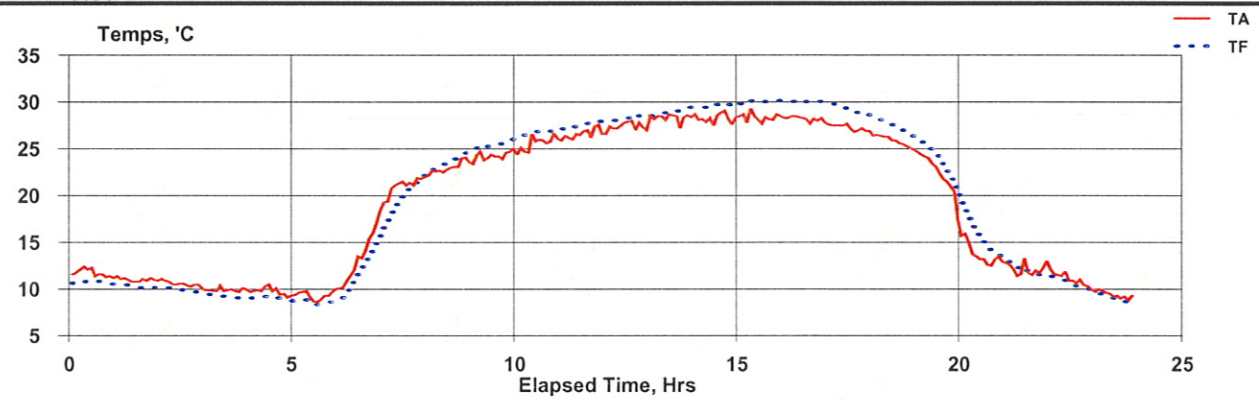
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jul	0:00:08
Stop:	16-06-jul	0:00:04

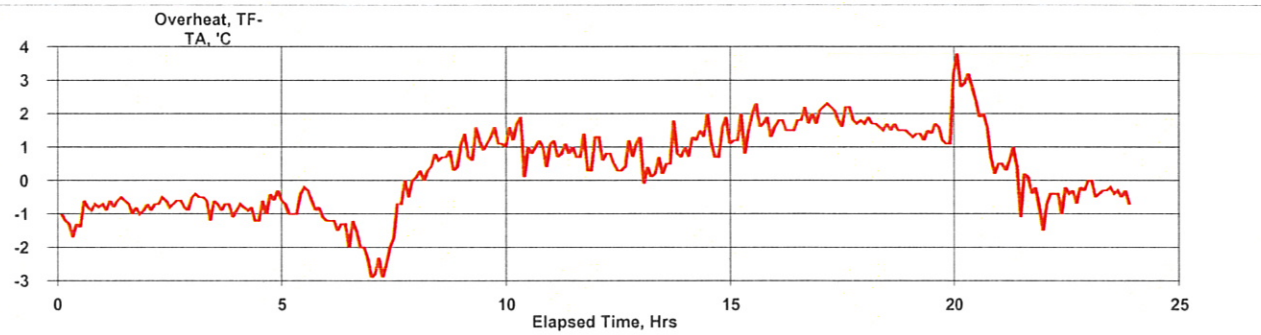
ET: 23:59

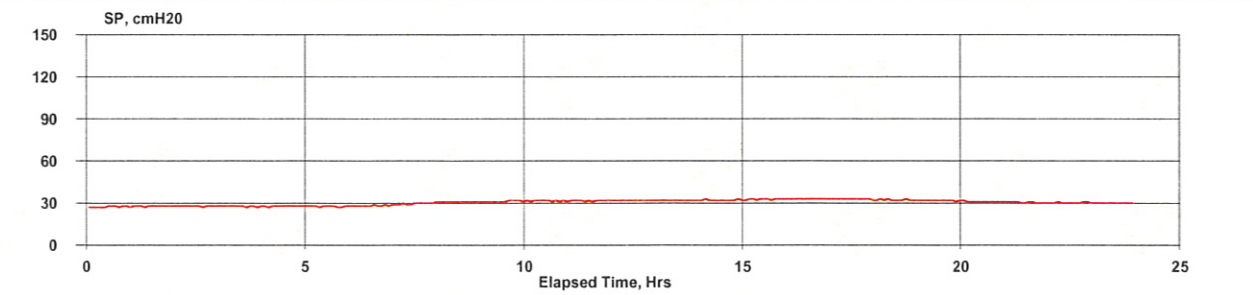
Mass Concentration Data:

Filter ID:	13	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-05-jul	0:05:08	587	11.7	10.7	-1.0	27	16.71
16-05-jul	1:05:08	587	11.0	10.3	-0.8	28	16.71
16-05-jul	2:05:08	587	10.6	9.9	-0.7	28	16.71
16-05-jul	3:05:08	587	9.9	9.2	-0.7	28	16.72
16-05-jul	4:05:08	587	9.8	9.0	-0.8	28	16.71
16-05-jul	5:05:08	587	9.4	8.6	-0.8	28	16.71
16-05-jul	6:05:08	587	13.6	11.9	-1.7	28	16.72
16-05-jul	7:05:08	587	21.1	19.7	-1.3	30	16.71
16-05-jul	8:05:08	587	23.0	23.6	0.5	31	16.71
16-05-jul	9:05:08	587	24.3	25.4	1.1	31	16.72
16-05-jul	10:05:08	587	25.6	26.7	1.1	32	16.71
16-05-jul	11:05:08	587	26.6	27.5	0.9	32	16.71
16-05-jul	12:05:08	587	27.4	28.2	0.8	32	16.71
16-05-jul	13:05:08	587	28.4	28.9	0.6	32	16.72
16-05-jul	14:05:08	586	28.3	29.6	1.3	32	16.70
16-05-jul	15:05:08	586	28.4	30.0	1.6	33	16.71
16-05-jul	16:05:08	586	28.2	30.0	1.8	33	16.71
16-05-jul	17:05:08	585	27.3	29.2	2.0	33	16.70
16-05-jul	18:05:08	585	25.8	27.4	1.6	32	16.72
16-05-jul	19:05:08	585	22.4	23.9	1.5	32	16.70
16-05-jul	20:05:08	585	13.7	15.8	2.1	31	16.70
16-05-jul	21:05:08	586	12.2	12.1	-0.1	31	16.73
16-05-jul	22:05:08	586	11.0	10.6	-0.4	30	16.72
16-05-jul	23:05:08	586	9.4	9.0	-0.4	30	16.72

BGI PQ200 Air Sampling System Downloaded 2016 12 jul 09:29:43

Job Details:

Job Name:	16Jul12A.JOB	Job Code:	
Version:	5.62	Site Name:	962A
Serial No:	962	Station Code:	
Pump Time:	7958:20	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	585	582	584	mmHg
TA	29	8.2	17.9	°C
Q	---	---	16.7	Lpm

QCV	0.43 %
Max overheat	5.4 °C
occured	11-jul 19:37:17

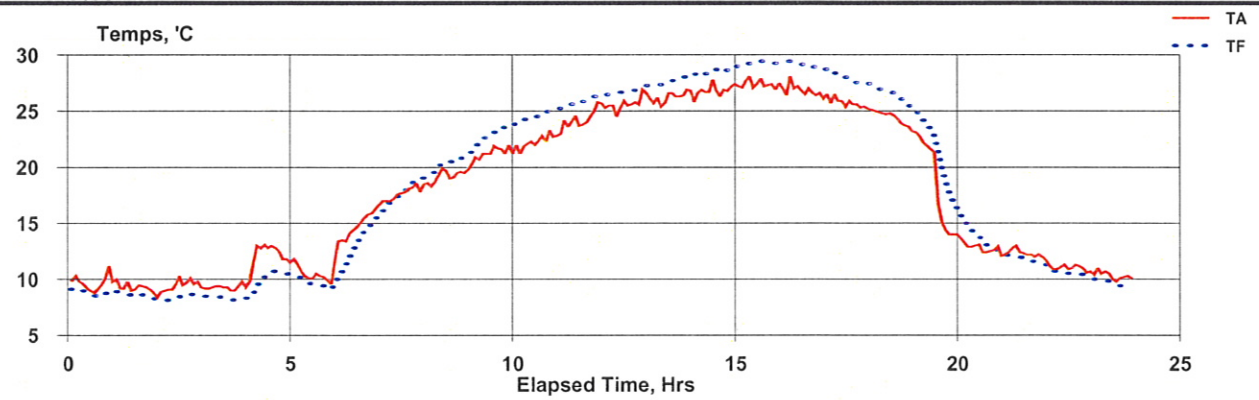
Timer Information:

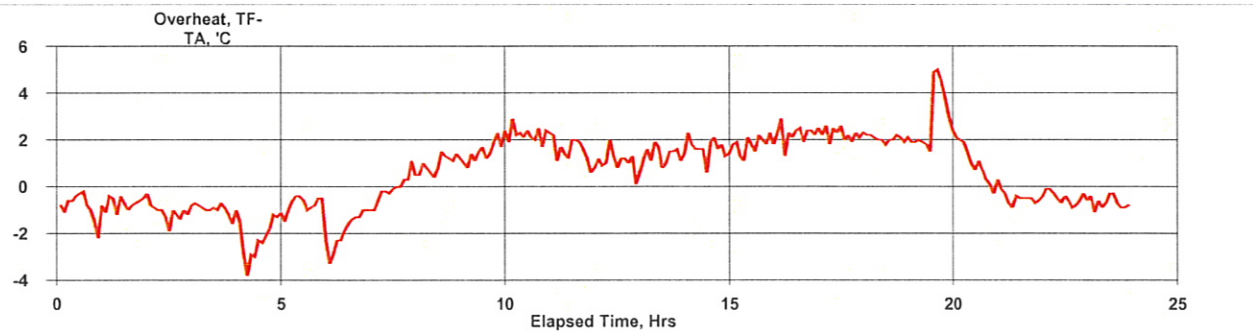
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jul	0:00:08
Stop:	16-12-jul	0:00:05
ET:	23:59	

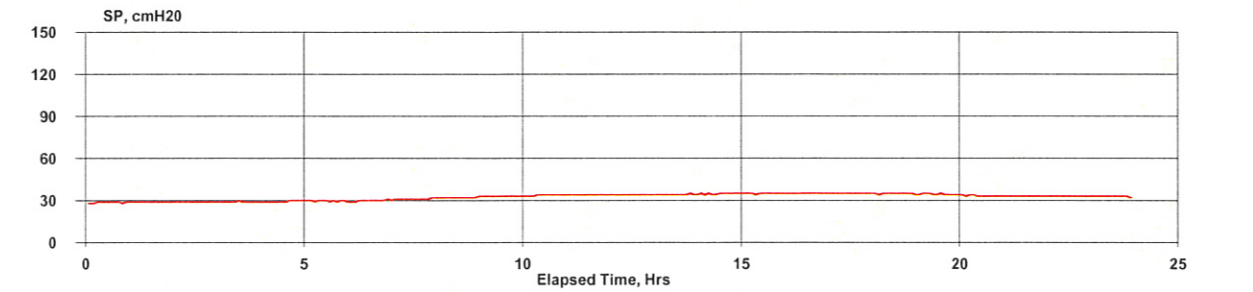
Mass Concentration Data:

Filter ID:	18	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.029	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-11-jul	0:05:08	583	9.7	8.8	-0.9	29	16.71
16-11-jul	1:05:08	583	9.2	8.6	-0.7	29	16.71
16-11-jul	2:05:08	583	9.5	8.4	-1.1	29	16.71
16-11-jul	3:05:08	583	9.3	8.3	-1.0	29	16.71
16-11-jul	4:05:08	583	12.2	10.0	-2.2	29	16.71
16-11-jul	5:05:08	584	10.5	9.7	-0.9	30	16.71
16-11-jul	6:05:08	584	14.9	13.1	-1.8	30	16.72
16-11-jul	7:05:08	585	17.7	17.7	0.0	31	16.72
16-11-jul	8:05:08	585	19.3	20.2	1.0	32	16.71
16-11-jul	9:05:08	585	21.3	22.8	1.5	33	16.71
16-11-jul	10:05:08	585	22.3	24.6	2.2	34	16.69
16-11-jul	11:05:08	585	24.3	25.8	1.5	34	16.70
16-11-jul	12:05:08	585	25.7	26.7	1.1	34	16.70
16-11-jul	13:05:08	584	26.3	27.6	1.4	34	16.69
16-11-jul	14:05:08	584	26.8	28.5	1.6	35	16.70
16-11-jul	15:05:08	584	27.4	29.2	1.8	35	16.71
16-11-jul	16:05:08	584	26.8	29.1	2.3	35	16.70
16-11-jul	17:05:08	584	25.7	28.0	2.2	35	16.69
16-11-jul	18:05:08	584	24.4	26.4	2.1	35	16.70
16-11-jul	19:05:08	584	18.4	21.3	2.9	34	16.71
16-11-jul	20:05:08	584	12.8	13.8	1.0	33	16.71
16-11-jul	21:05:08	584	12.3	11.8	-0.5	33	16.73
16-11-jul	22:05:08	584	11.0	10.5	-0.5	33	16.72
16-11-jul	23:05:08	584	10.3	9.6	-0.7	33	16.72

BGI PQ200 Air Sampling System Downloaded 2016 19 jul 08:51:55

Job Details:

Job Name: 16Jul19A.JOB
Version: 5.62
Serial No: 962
Pump Time: 7982:19
Flags: P

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

	Max	Min	Avg	Units
BP	588	584	586	mmHg
TA	31	9.6	19.9	°C
Q	---	---	16.71	Lpm

QCV 0.47 %

Max overheat 6.3 °C
occured 18-jul 13:36:20

Timer Information:

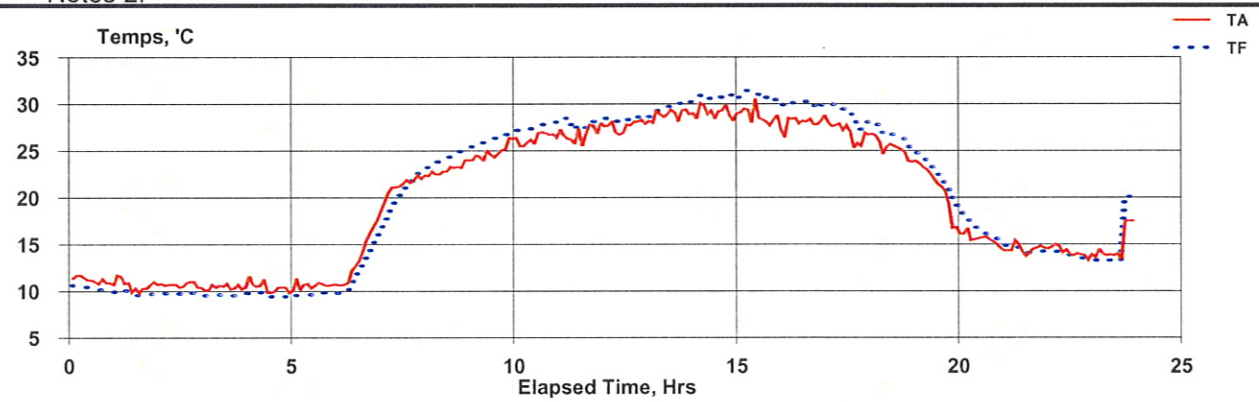
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jul	0:00:08
Stop:	16-18-jul	0:00:05

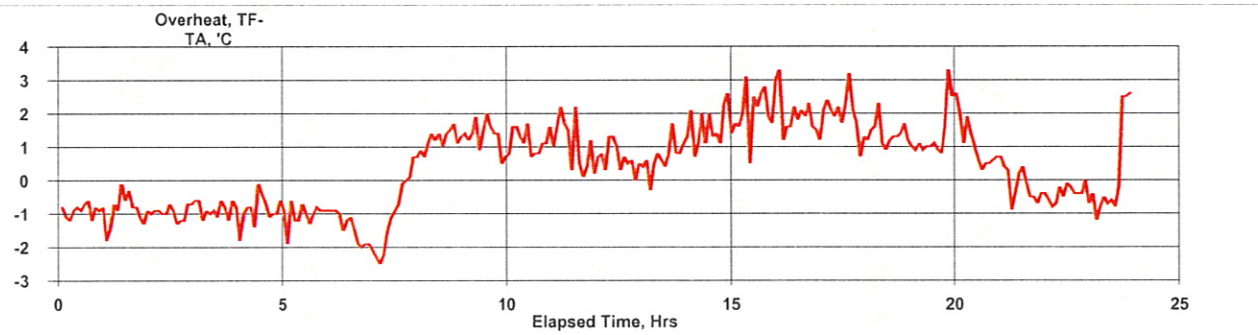
ET: 23:59

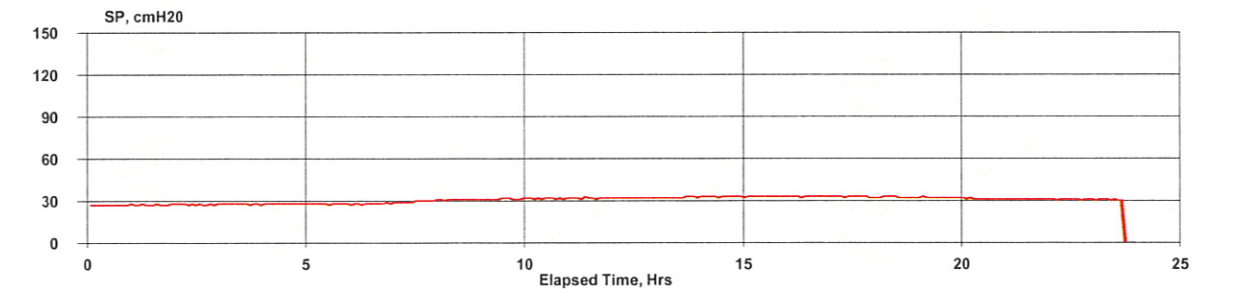
Mass Concentration Data:

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

Notes 1:
Notes 2:







16-17-jul	0:05:08	586	11.2	10.3	-0.9	27	16.71
16-17-jul	1:05:08	586	10.7	9.8	-0.9	27	16.71
16-17-jul	2:05:08	586	10.7	9.7	-1.0	28	16.70
16-17-jul	3:05:08	586	10.4	9.6	-0.9	28	16.71
16-17-jul	4:05:08	586	10.4	9.6	-0.9	28	16.73
16-17-jul	5:05:08	586	10.6	9.6	-1.0	28	16.71
16-17-jul	6:05:08	586	13.4	12.1	-1.4	28	16.71
16-17-jul	7:05:08	587	21.1	20.1	-1.1	30	16.71
16-17-jul	8:05:08	587	22.9	24.1	1.2	31	16.71
16-17-jul	9:05:08	587	24.7	26.1	1.4	31	16.72
16-17-jul	10:05:08	587	26.3	27.4	1.1	32	16.72
16-17-jul	11:05:08	588	26.7	27.9	1.2	32	16.73
16-17-jul	12:05:08	587	27.7	28.3	0.6	32	16.71
16-17-jul	13:05:08	587	28.8	29.4	0.6	32	16.72
16-17-jul	14:05:08	587	29.2	30.6	1.5	33	16.71
16-17-jul	15:05:08	587	28.7	30.8	2.1	33	16.70
16-17-jul	16:05:08	587	28.0	30.0	2.0	33	16.71
16-17-jul	17:05:08	586	27.2	29.3	2.0	33	16.70
16-17-jul	18:05:08	587	25.8	27.1	1.3	32	16.72
16-17-jul	19:05:08	587	22.4	23.5	1.1	32	16.70
16-17-jul	20:05:08	587	15.9	17.4	1.5	31	16.71
16-17-jul	21:05:08	588	14.5	14.6	0.1	31	16.72
16-17-jul	22:05:08	588	14.4	13.9	-0.4	31	16.71
16-17-jul	23:05:08	588	13.8	13.2	-0.6	31	16.71
16-18-jul	14:03:08	590	17.5	20.0	2.5		0.00

BGI PQ200 Air Sampling System Downloaded 2016 25 jul 13:07:41

Job Details:

Job Name:	16Jul25A.JOB	Job Code:	
Version:	5.62	Site Name:	962A
Serial No:	962	Station Code:	
Pump Time:	7993:43	Operators:	KN
Flags:	F T	User1:	
		User2:	

	Max	Min	Avg	Units
BP	589	587	588	mmHg
TA	31.7	11	19.4	°C
Q	---	---	16.71	Lpm

QCV	0	%
Max overheat	8.3	°C
occured 23-jul 19:54:22		

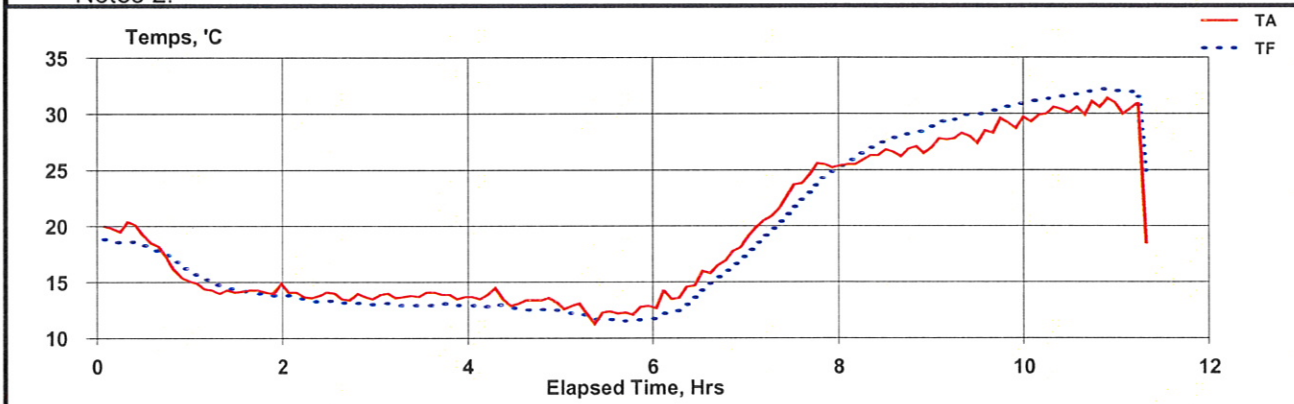
Timer Information:

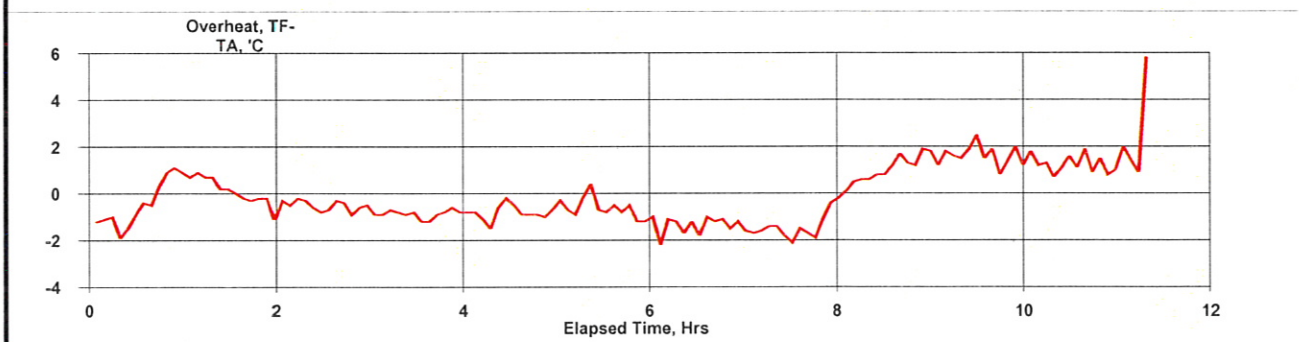
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jul	0:00:08
Stop:	16-24-jul	0:00:05
ET:	11:24	

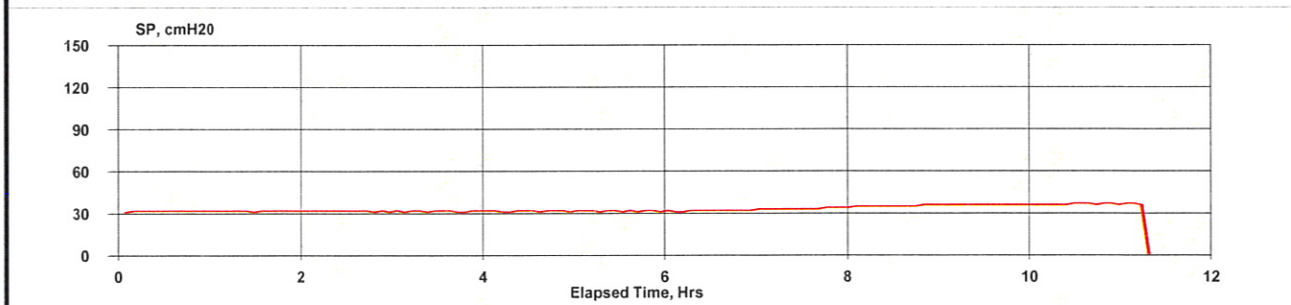
Mass Concentration Data:

Filter ID:	21	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	11.435	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-23-jul	0:05:08	589	18.3	17.9	-0.4	32	16.72
16-23-jul	1:05:08	589	14.3	14.4	0.1	32	16.73
16-23-jul	2:05:08	588	13.8	13.3	-0.5	32	16.72
16-23-jul	3:05:08	588	13.8	13.0	-0.9	32	16.72
16-23-jul	4:05:08	588	13.5	12.7	-0.8	32	16.72
16-23-jul	5:05:08	588	12.4	11.8	-0.6	32	16.72
16-23-jul	6:05:08	588	15.4	14.0	-1.4	32	16.72
16-23-jul	7:05:08	588	22.7	21.2	-1.5	33	16.71
16-23-jul	8:05:08	589	26.3	27.1	0.9	35	16.73
16-23-jul	9:05:08	588	28.2	29.9	1.7	36	16.71
16-23-jul	10:05:08	588	30.3	31.6	1.3	36	16.72
16-23-jul	11:05:08	588	30.6	32.0	1.3	37	16.72
16-23-jul	20:11:09	586	18.5	24.3	5.8		0.00

BGI PQ200 Air Sampling System Downloaded 2016_01 aug_14:56:04

Job Details:

Job Name: 16Aug01A.JOB
Version: 5.62
Serial No: 962
Pump Time: 8017:42
Flags: F

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

	Max	Min	Avg	Units
BP	588	586	586	mmHg
TA	34.8	14.7	22.9	°C
Q	---	---	16.7	Lpm

QCV 0.56 %

Max overheat 7.5 °C
occured 31-jul 14:25:52

Timer Information:

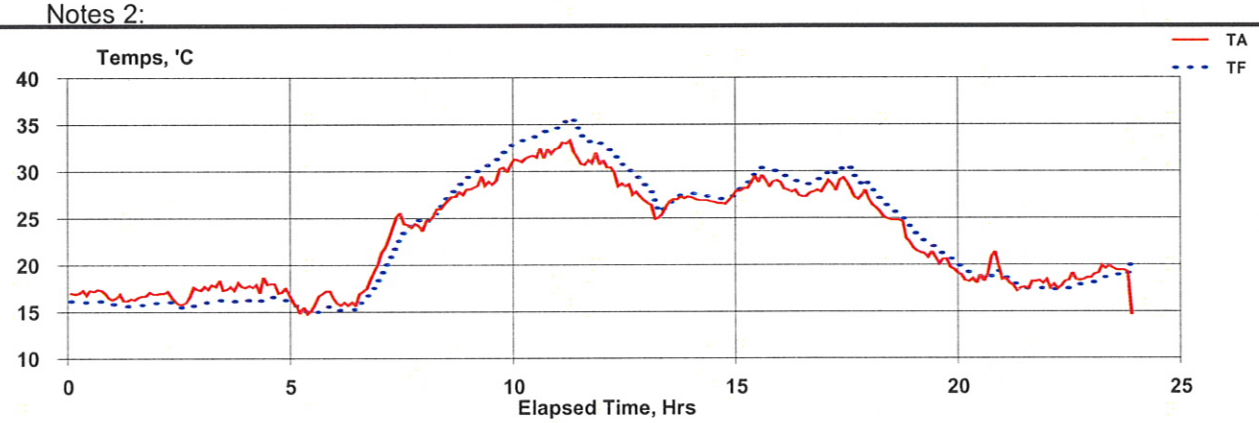
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jul	0:00:08
Stop:	16-30-jul	0:00:05

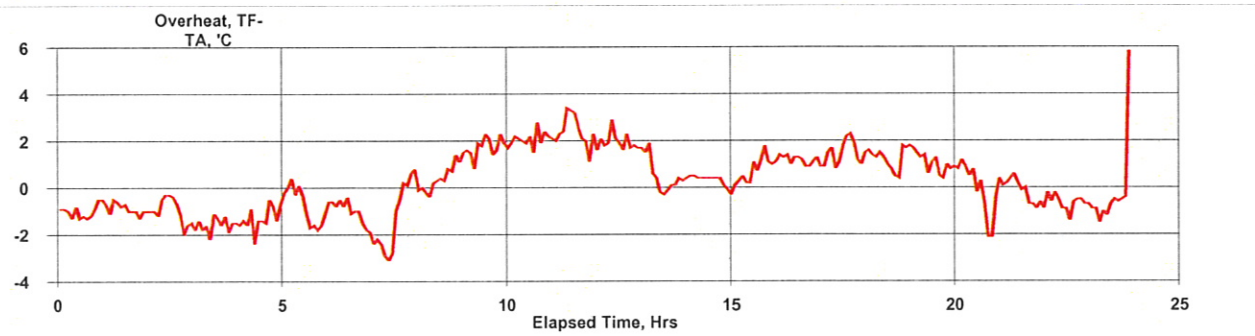
ET: 23:59

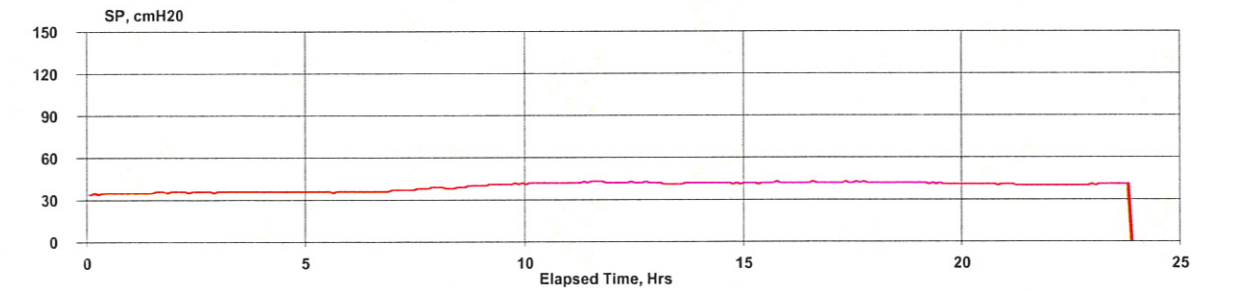
Mass Concentration Data:

Filter ID:	27	
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:







16-29-jul	0:05:08	588	17.0	16.0	-1.0	35	16.72
16-29-jul	1:05:08	587	16.6	15.7	-0.9	35	16.70
16-29-jul	2:05:08	587	16.7	15.7	-1.0	36	16.72
16-29-jul	3:05:08	587	17.7	16.1	-1.6	36	16.73
16-29-jul	4:05:08	587	17.6	16.3	-1.3	36	16.72
16-29-jul	5:05:08	587	16.0	15.3	-0.8	36	16.71
16-29-jul	6:05:08	587	17.0	16.0	-1.0	36	16.70
16-29-jul	7:05:08	588	23.8	22.5	-1.3	38	16.71
16-29-jul	8:05:08	588	26.5	26.9	0.4	39	16.71
16-29-jul	9:05:08	588	29.2	31.0	1.7	41	16.72
16-29-jul	10:05:08	588	31.7	33.8	2.1	42	16.71
16-29-jul	11:05:08	587	31.8	34.2	2.4	42	16.71
16-29-jul	12:05:08	587	28.8	30.7	2.0	42	16.71
16-29-jul	13:05:08	587	26.4	27.0	0.5	42	16.70
16-29-jul	14:05:08	587	26.9	27.2	0.4	42	16.71
16-29-jul	15:05:08	587	28.7	29.3	0.7	42	16.72
16-29-jul	16:05:08	587	27.8	29.0	1.2	42	16.70
16-29-jul	17:05:08	586	28.2	29.7	1.4	42	16.71
16-29-jul	18:05:08	586	25.0	26.2	1.2	42	16.71
16-29-jul	19:05:08	586	20.8	21.9	1.1	41	16.71
16-29-jul	20:05:08	587	19.1	19.1	0.0	41	16.71
16-29-jul	21:05:08	587	17.9	17.8	-0.1	40	16.71
16-29-jul	22:05:08	587	18.2	17.5	-0.7	40	16.71
16-29-jul	23:05:08	586	19.4	18.6	-0.8	41	16.71
16-31-jul	14:30:09	586	14.7	20.5	5.8		0.00

BGI PQ200 Air Sampling System Downloaded 2016 05 aug 08:06:56

Job Details:

Job Name: 16Aug05A.JOB
Version: 5.62
Serial No: 962
Pump Time: 8041:41
Flags:

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

	Max	Min	Avg	Units
BP	587	585	586	mmHg
TA	23.7	11.7	15.3	°C
Q	---	---	16.7	Lpm

QCV 0.57 %

Max overheat 4.3 °C
occured 04-aug 11:14:21

Timer Information:

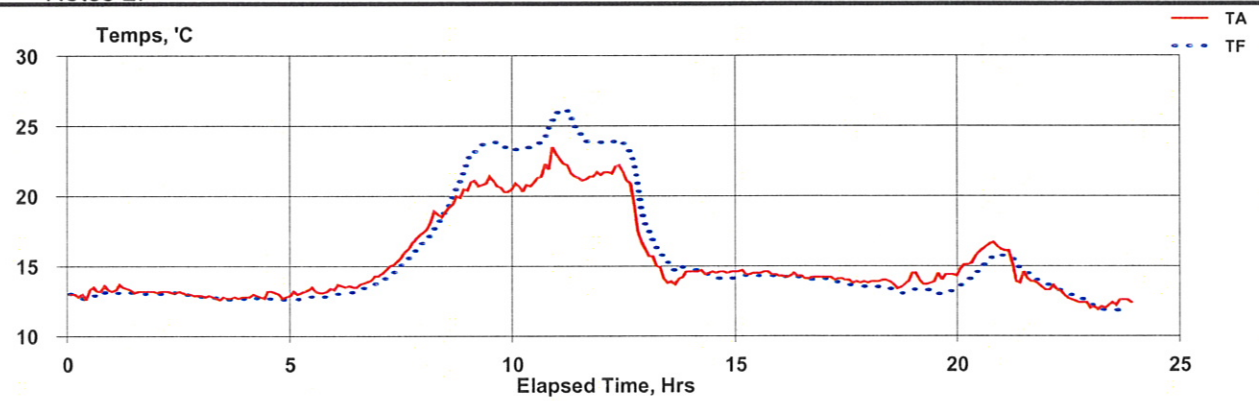
	Date dd-mmm	Time hh:mm:ss
Start:	16-04-aug	0:00:08
Stop:	16-05-aug	0:00:04

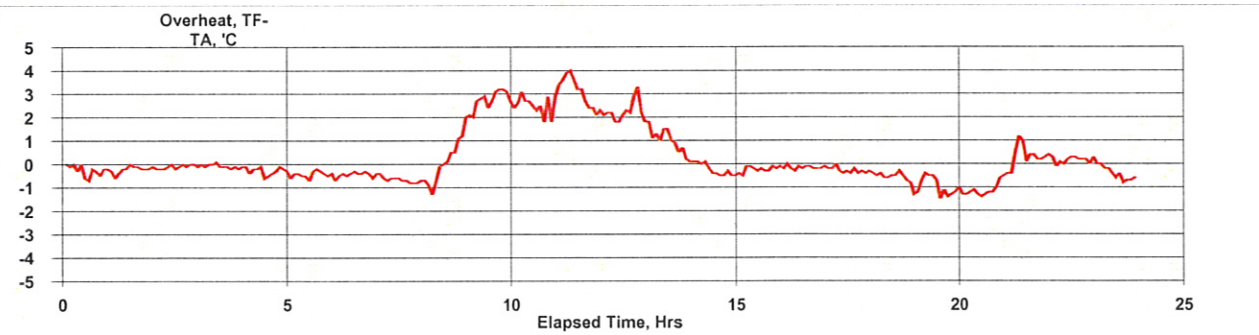
ET: 23:59

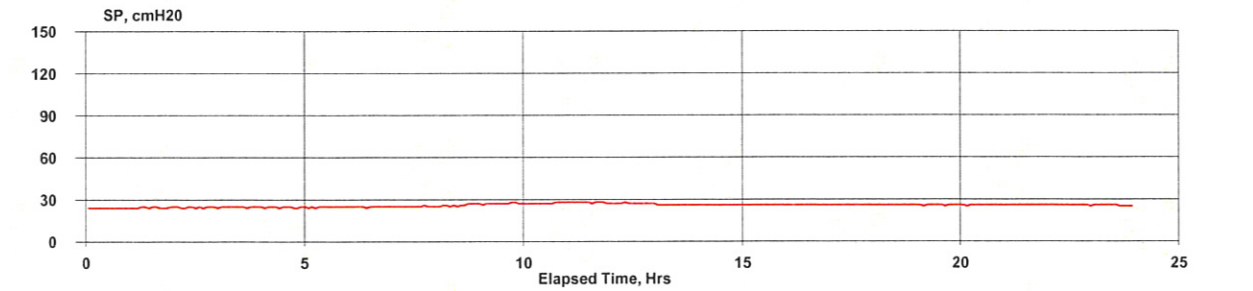
Mass Concentration Data:

Filter ID:	9	
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:







16-04-aug	0:05:08	586	13.1	12.9	-0.3	24	16.71
16-04-aug	1:05:08	586	13.3	13.1	-0.2	25	16.71
16-04-aug	2:05:08	587	13.1	13.0	-0.1	25	16.71
16-04-aug	3:05:08	587	12.8	12.7	-0.1	25	16.71
16-04-aug	4:05:08	587	12.9	12.6	-0.3	25	16.71
16-04-aug	5:05:08	587	13.2	12.8	-0.4	25	16.71
16-04-aug	6:05:08	587	13.8	13.3	-0.4	25	16.71
16-04-aug	7:05:08	587	15.9	15.2	-0.7	25	16.72
16-04-aug	8:05:08	587	19.2	19.3	0.1	26	16.71
16-04-aug	9:05:08	587	20.8	23.5	2.7	27	16.71
16-04-aug	10:05:08	587	21.5	24.0	2.5	27	16.71
16-04-aug	11:05:08	587	21.6	24.7	3.1	28	16.72
16-04-aug	12:05:08	587	20.2	22.5	2.2	27	16.71
16-04-aug	13:05:08	586	14.5	15.5	1.0	26	16.71
16-04-aug	14:05:08	586	14.6	14.3	-0.3	26	16.71
16-04-aug	15:05:08	587	14.5	14.3	-0.2	26	16.71
16-04-aug	16:05:08	587	14.2	14.1	-0.2	26	16.72
16-04-aug	17:05:08	587	14.0	13.7	-0.3	26	16.72
16-04-aug	18:05:08	586	13.9	13.3	-0.6	26	16.71
16-04-aug	19:05:08	586	14.1	13.2	-1.0	26	16.71
16-04-aug	20:05:08	587	15.9	14.8	-1.1	26	16.70
16-04-aug	21:05:08	587	14.3	14.7	0.3	26	16.71
16-04-aug	22:05:08	587	12.8	12.9	0.2	26	16.70
16-04-aug	23:05:08	586	12.3	11.9	-0.4	26	16.68

BGI PQ200 Air Sampling System Downloaded 2016 11 aug 14:15:22

Job Details:

Job Name:	16Aug11A.JOB
Version:	5.62
Serial No:	962
Pump Time:	8065:40
Flags:	

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

	Max	Min	Avg	Units
BP	588	584	586	mmHg
TA	22	9.2	13.9	°C
Q	---	---	16.7	Lpm

QCV	0.6 %
Max overheat	5.6 °C
occured	10-aug 15:47:07

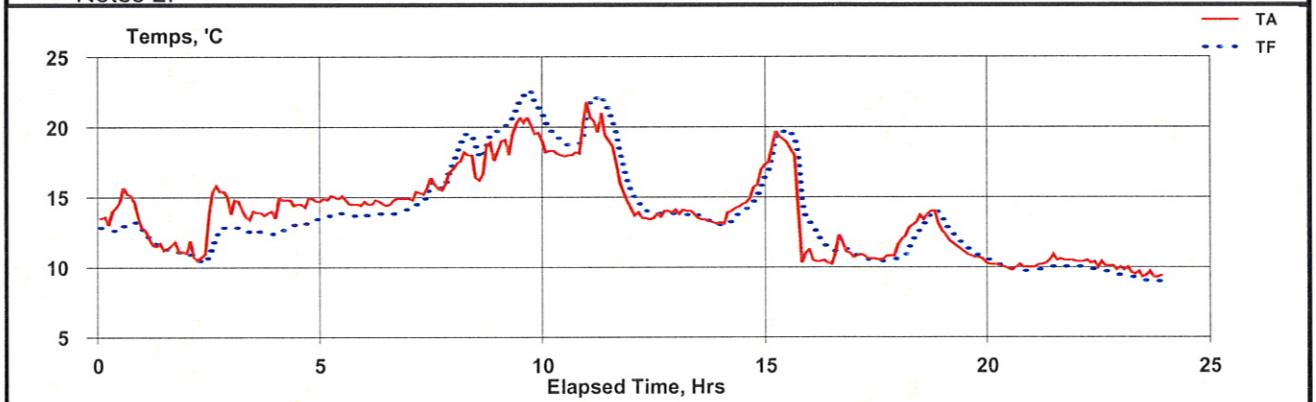
Timer Information:

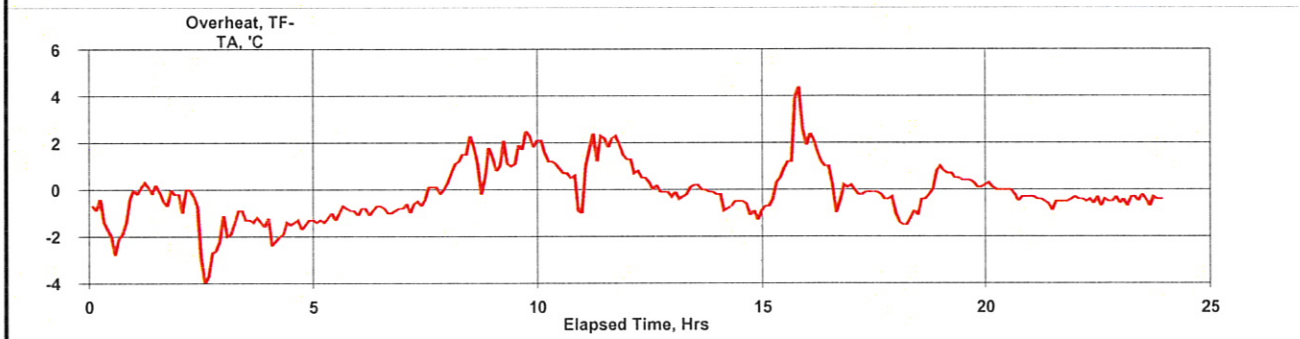
	Date dd-mmm	Time hh:mm:ss
Start:	16-10-aug	0:00:08
Stop:	16-11-aug	0:00:05
ET:	23:59	

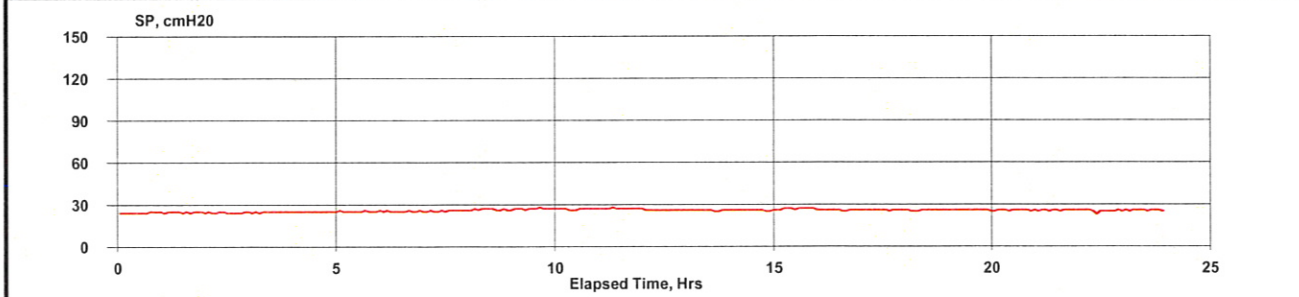
Mass Concentration Data:

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:







16-10-aug	0:05:08	585	14.2	12.9	-1.3	24	16.71
16-10-aug	1:05:08	586	11.5	11.4	-0.1	25	16.71
16-10-aug	2:05:08	586	13.3	11.5	-1.8	24	16.71
16-10-aug	3:05:08	586	14.0	12.6	-1.4	25	16.72
16-10-aug	4:05:08	586	14.7	13.0	-1.7	25	16.71
16-10-aug	5:05:08	586	14.8	13.7	-1.1	25	16.71
16-10-aug	6:05:08	587	14.7	13.8	-0.9	25	16.71
16-10-aug	7:05:08	587	15.8	15.5	-0.3	26	16.71
16-10-aug	8:05:08	587	17.7	18.9	1.2	27	16.71
16-10-aug	9:05:08	587	19.6	21.3	1.6	27	16.71
16-10-aug	10:05:08	587	18.6	19.3	0.7	27	16.71
16-10-aug	11:05:08	587	18.0	19.8	1.8	27	16.69
16-10-aug	12:05:08	587	13.7	14.1	0.3	26	16.71
16-10-aug	13:05:08	587	13.6	13.5	-0.1	26	16.71
16-10-aug	14:05:08	587	15.0	14.2	-0.7	26	16.71
16-10-aug	15:05:08	587	16.4	17.6	1.3	27	16.71
16-10-aug	16:05:08	588	10.8	11.6	0.7	26	16.71
16-10-aug	17:05:08	588	10.8	10.5	-0.3	26	16.71
16-10-aug	18:05:08	587	13.2	12.6	-0.6	26	16.72
16-10-aug	19:05:08	587	11.2	11.6	0.4	26	16.71
16-10-aug	20:05:08	587	10.1	10.0	-0.1	26	16.71
16-10-aug	21:05:08	587	10.4	9.9	-0.5	26	16.71
16-10-aug	22:05:08	587	10.2	9.7	-0.5	25	16.61
16-10-aug	23:05:08	587	9.5	9.1	-0.4	26	16.70

BGI PQ200 Air Sampling System Downloaded 2016 19 aug 10:20:43

Job Details:

Job Name:	16Aug19A.JOB	Job Code:	
Version:	5.62	Site Name:	
Serial No:	962	Station Code:	
Pump Time:	8089:39	Operators:	
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	589	587	587	mmHg
TA	28.6	9.6	20.2	°C
Q	---	---	16.7	Lpm

QCV	0.52 %
Max overheat	5.3 °C
occured	18-aug 13:01:20

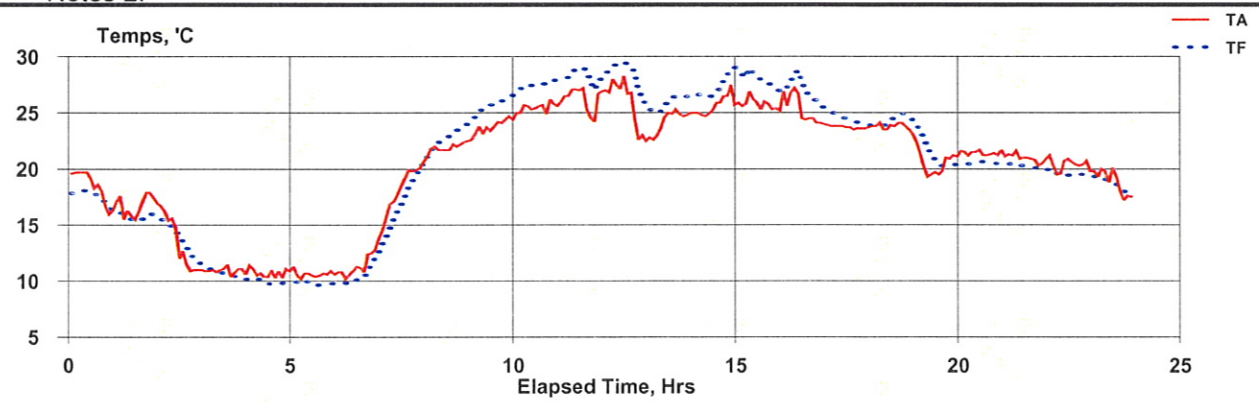
Timer Information:

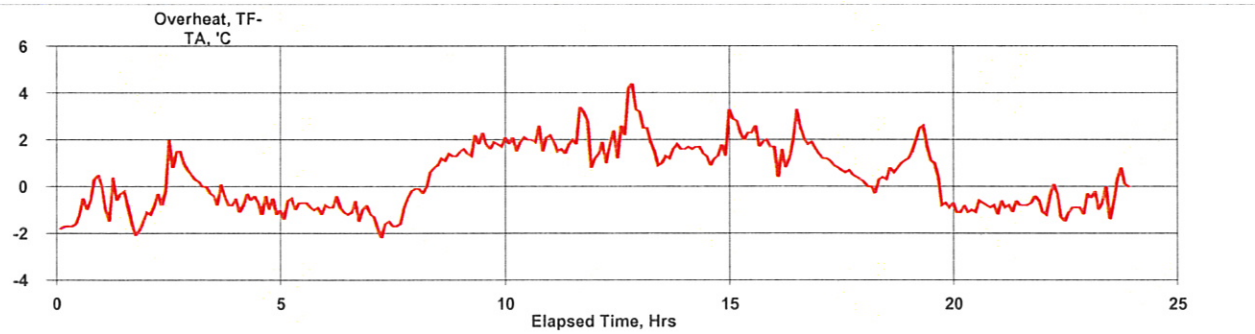
	Date dd-mmm	Time hh:mm:ss
Start:	16-16-aug	0:00:08
Stop:	16-17-aug	0:00:05
ET:	23:59	

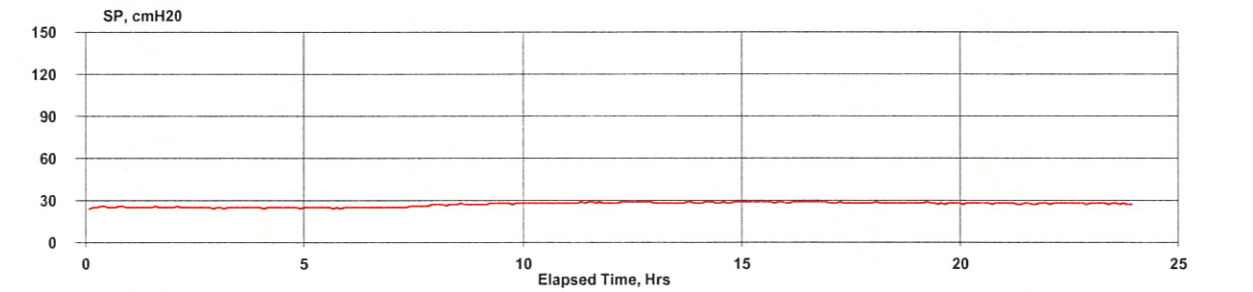
Mass Concentration Data:

Filter ID:	19	
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:







16-16-aug	0:05:08	588	18.5	17.5	-0.9	25	16.71
16-16-aug	1:05:08	588	16.8	15.7	-1.0	25	16.70
16-16-aug	2:05:08	588	13.2	13.6	0.4	25	16.68
16-16-aug	3:05:08	588	10.9	10.7	-0.3	25	16.67
16-16-aug	4:05:08	588	10.8	10.0	-0.8	25	16.71
16-16-aug	5:05:08	588	10.6	9.8	-0.9	25	16.71
16-16-aug	6:05:08	588	11.5	10.5	-1.0	25	16.71
16-16-aug	7:05:08	589	18.3	17.1	-1.3	26	16.72
16-16-aug	8:05:08	589	21.9	22.7	0.8	27	16.71
16-16-aug	9:05:08	589	23.8	25.6	1.8	28	16.70
16-16-aug	10:05:08	589	25.5	27.5	2.0	28	16.70
16-16-aug	11:05:08	589	26.3	28.2	2.0	28	16.71
16-16-aug	12:05:08	588	25.9	28.4	2.5	29	16.71
16-16-aug	13:05:08	588	24.3	25.9	1.6	28	16.71
16-16-aug	14:05:08	588	25.6	27.2	1.6	29	16.73
16-16-aug	15:05:08	587	25.8	28.0	2.2	29	16.71
16-16-aug	16:05:08	587	25.3	27.0	1.7	29	16.71
16-16-aug	17:05:08	587	23.7	24.4	0.7	28	16.72
16-16-aug	18:05:08	587	23.8	24.3	0.5	28	16.71
16-16-aug	19:05:08	587	20.5	21.3	0.8	28	16.71
16-16-aug	20:05:08	588	21.4	20.5	-0.9	28	16.71
16-16-aug	21:05:08	588	21.0	20.2	-0.8	28	16.71
16-16-aug	22:05:08	588	20.4	19.5	-0.8	28	16.71
16-16-aug	23:05:08	588	18.9	18.6	-0.3	28	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 aug 09:11:34

Job Details:

Job Name: 16Aug25A.JOB
Version: 5.62
Serial No: 962
Pump Time: 8113:38
Flags:

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

	Max	Min	Avg	Units
BP	588	584	586	mmHg
TA	26.1	9.3	13.7	°C
Q	---	---	16.7	Lpm

QCV 0.64 %

Max overheat 7.3 °C
occured 24-aug 14:05:58

Timer Information:

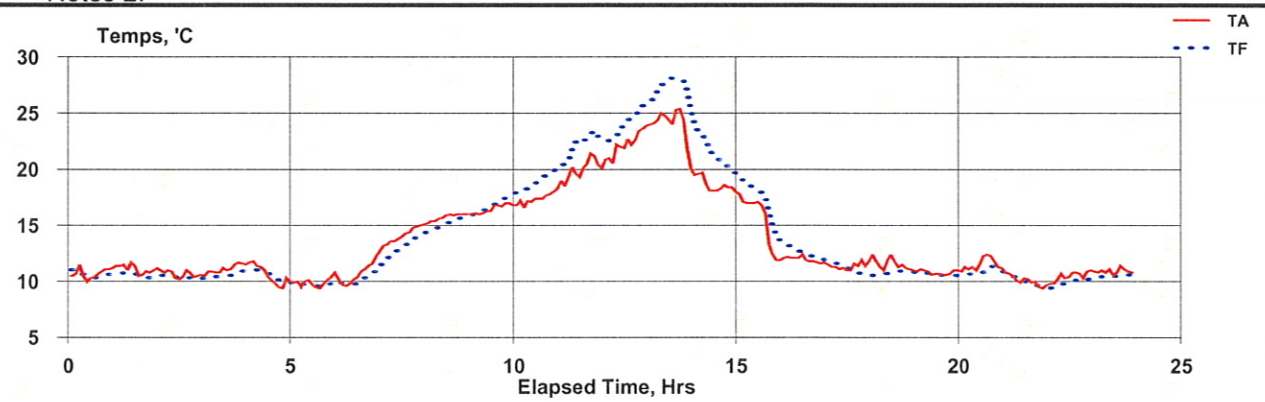
	Date dd-mmm	Time hh:mm:ss
Start:	16-22-aug	0:00:08
Stop:	16-23-aug	0:00:05

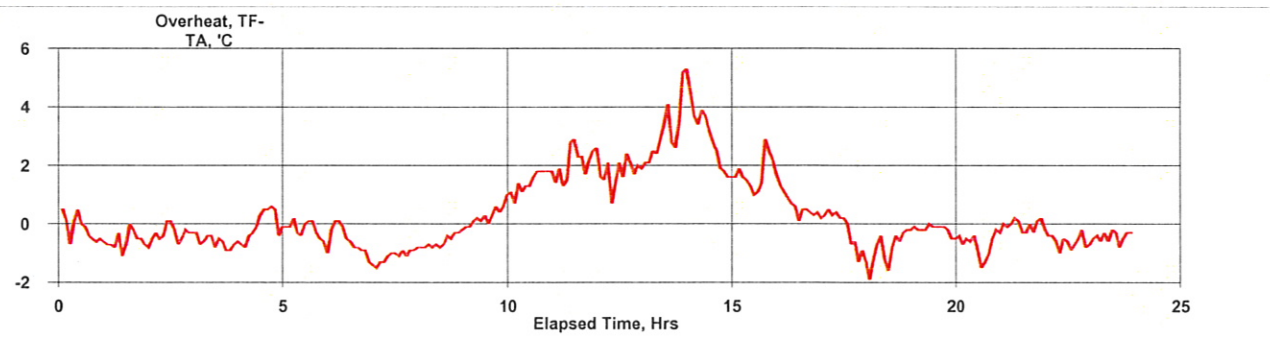
ET: 23:59

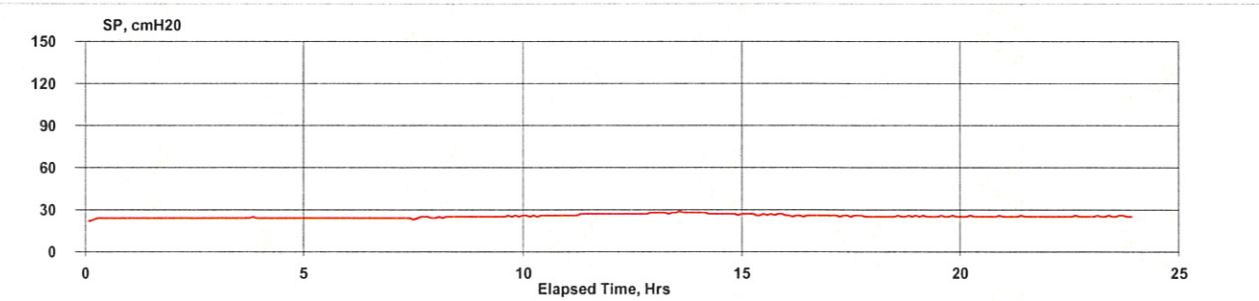
Mass Concentration Data:

Filter ID:	37	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-22-aug	0:05:08	586	10.7	10.6	-0.2	24	16.70
16-22-aug	1:05:08	586	11.1	10.5	-0.6	24	16.71
16-22-aug	2:05:08	586	10.7	10.4	-0.3	24	16.72
16-22-aug	3:05:08	585	11.1	10.5	-0.6	24	16.71
16-22-aug	4:05:08	586	10.6	10.5	0.0	24	16.71
16-22-aug	5:05:08	586	9.9	9.7	-0.2	24	16.72
16-22-aug	6:05:08	586	10.8	10.2	-0.6	24	16.71
16-22-aug	7:05:08	586	14.2	13.1	-1.1	24	16.65
16-22-aug	8:05:08	587	15.8	15.2	-0.6	25	16.71
16-22-aug	9:05:08	587	16.5	16.8	0.3	25	16.71
16-22-aug	10:05:08	587	17.4	18.9	1.5	26	16.71
16-22-aug	11:05:08	587	20.0	22.1	2.1	27	16.71
16-22-aug	12:05:08	586	22.2	24.0	1.8	27	16.71
16-22-aug	13:05:08	585	24.0	27.2	3.2	28	16.71
16-22-aug	14:05:08	585	18.6	21.5	2.9	27	16.70
16-22-aug	15:05:08	586	15.5	17.2	1.7	27	16.71
16-22-aug	16:05:08	587	12.0	12.5	0.6	26	16.72
16-22-aug	17:05:08	587	11.4	11.1	-0.2	26	16.71
16-22-aug	18:05:08	586	11.6	10.8	-0.8	25	16.71
16-22-aug	19:05:08	586	10.8	10.6	-0.2	25	16.71
16-22-aug	20:05:08	586	11.5	10.9	-0.7	25	16.71
16-22-aug	21:05:08	586	10.1	10.0	0.0	25	16.71
16-22-aug	22:05:08	586	10.5	9.9	-0.6	25	16.71
16-22-aug	23:05:08	586	10.9	10.5	-0.4	25	16.71

BGI PQ200 Air Sampling System Downloaded 2016 29 aug 14:23:21

Job Details:

Job Name:	16Aug29A.JOB
Version:	5.62
Serial No:	962
Pump Time:	8137:37
Flags:	

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

	Max	Min	Avg	Units
BP	590	586	588	mmHg
TA	23.3	6.5	13.2	°C
Q	---	---	16.7	Lpm

QCV	0.56 %
Max overheat	5.1 °C
occured	28-aug 14:39:06

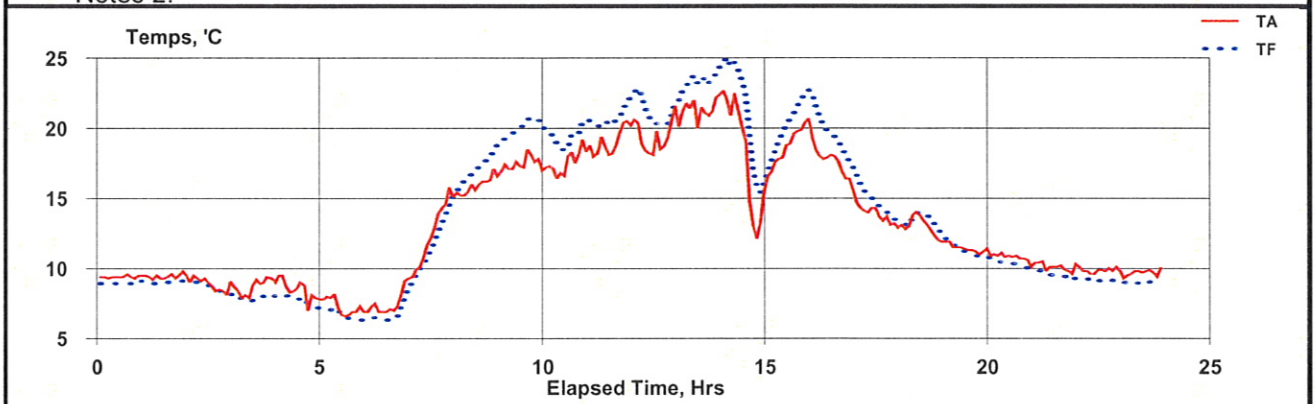
Timer Information:

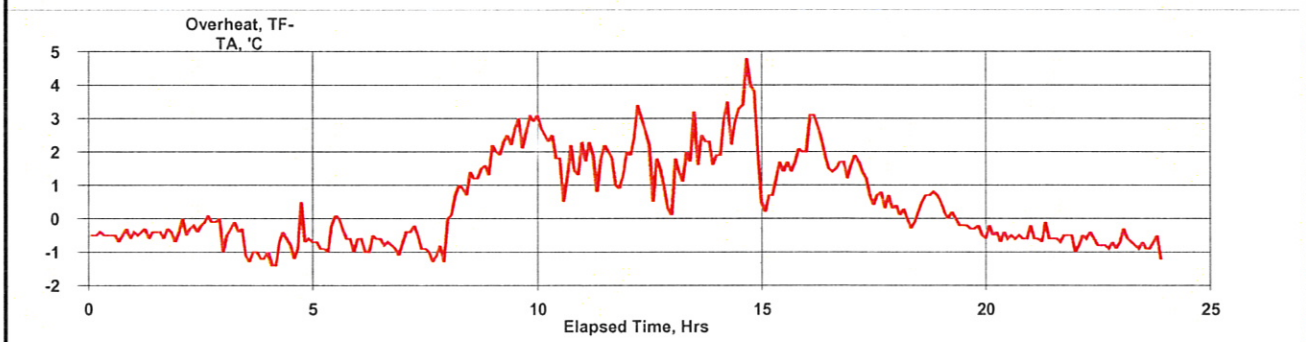
	Date dd-mmm	Time hh:mm:ss
Start:	16-28-aug	0:00:08
Stop:	16-29-aug	0:00:04
ET:	23:59	

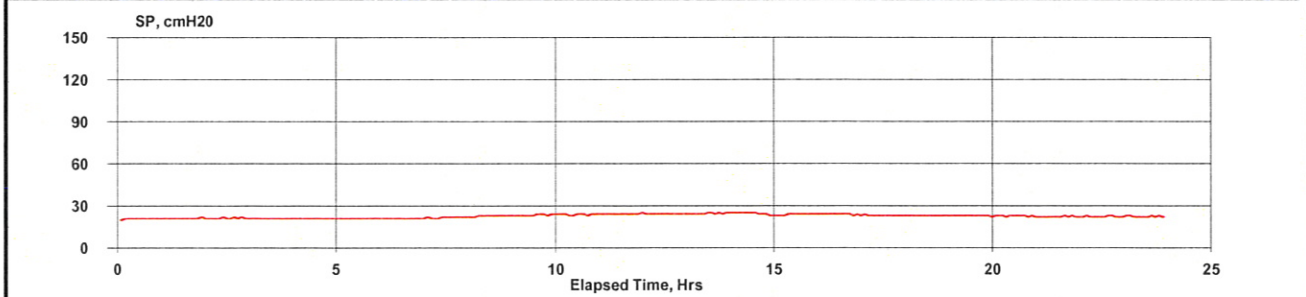
Mass Concentration Data:

Filter ID:	4	
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:







16-28-aug	0:05:08	588	9.4	8.9	-0.5	21	16.71
16-28-aug	1:05:08	588	9.4	9.0	-0.5	21	16.71
16-28-aug	2:05:08	588	8.9	8.6	-0.2	21	16.71
16-28-aug	3:05:08	588	8.7	7.9	-0.8	21	16.71
16-28-aug	4:05:08	588	8.5	7.7	-0.7	21	16.71
16-28-aug	5:05:08	588	7.3	6.7	-0.6	21	16.71
16-28-aug	6:05:08	588	7.5	6.8	-0.8	21	16.70
16-28-aug	7:05:08	589	12.6	11.8	-0.7	22	16.71
16-28-aug	8:05:08	589	15.9	17.1	1.2	23	16.71
16-28-aug	9:05:08	589	17.5	20.0	2.5	23	16.70
16-28-aug	10:05:08	589	17.6	19.5	1.9	24	16.71
16-28-aug	11:05:08	589	19.1	20.7	1.6	24	16.71
16-28-aug	12:05:08	589	19.4	21.1	1.7	24	16.71
16-28-aug	13:05:08	589	21.3	23.3	2.0	24	16.71
16-28-aug	14:05:08	589	18.1	21.1	3.0	24	16.71
16-28-aug	15:05:08	588	18.7	20.1	1.4	24	16.70
16-28-aug	16:05:08	589	17.5	19.5	2.0	24	16.70
16-28-aug	17:05:08	589	13.8	14.7	0.9	23	16.69
16-28-aug	18:05:08	588	13.0	13.3	0.3	23	16.72
16-28-aug	19:05:08	589	11.4	11.3	-0.2	23	16.71
16-28-aug	20:05:08	589	10.8	10.3	-0.5	23	16.71
16-28-aug	21:05:08	589	10.1	9.5	-0.6	22	16.71
16-28-aug	22:05:08	589	9.9	9.1	-0.7	22	16.71
16-28-aug	23:05:08	589	9.7	8.9	-0.7	22	16.70

BGI PQ200 Air Sampling System Downloaded 2016 06 sep 16:57:53

Job Details:

Job Name:	16Sep06A.JOB
Version:	5.62
Serial No:	962
Pump Time:	8161:36
Flags:	F

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

	Max	Min	Avg	Units
BP	585	582	583	mmHg
TA	23	9.1	16.2	°C
Q	---	---	16.7	Lpm

QCV	0.58	%
Max overheat	6.8	°C
occured 05-sep 18:49:21		

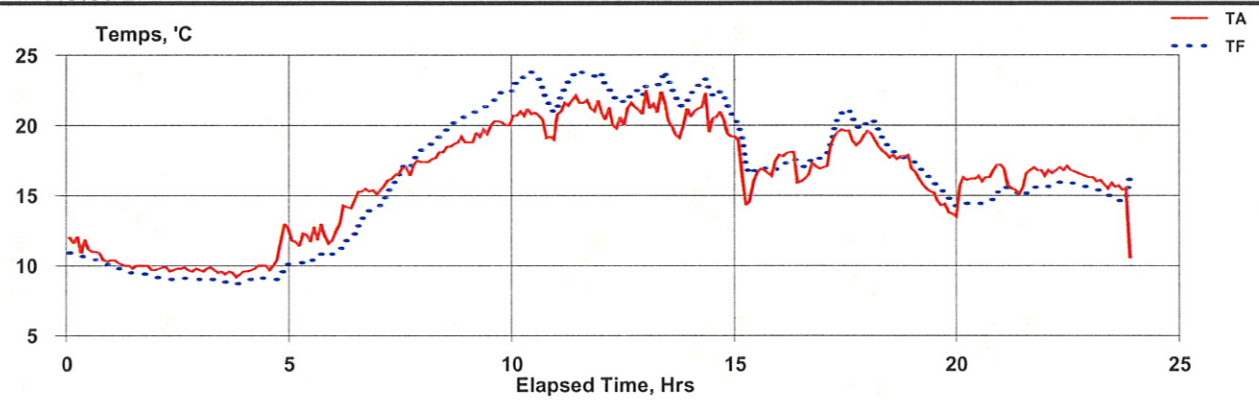
Timer Information:

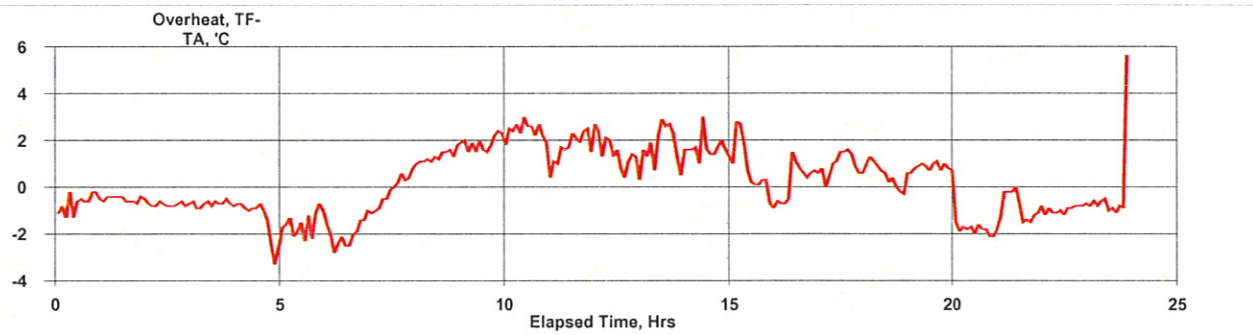
	Date dd-mmm	Time hh:mm:ss
Start:	16-03-sep	0:00:08
Stop:	16-04-sep	0:00:05
ET:	23:59	

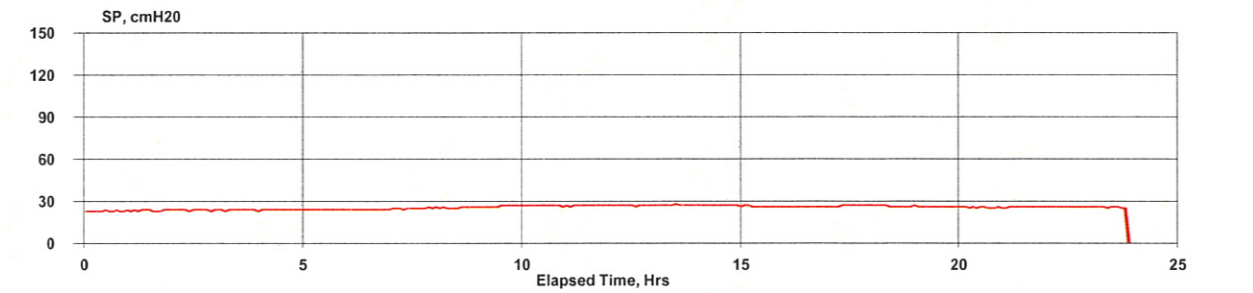
Mass Concentration Data:

Filter ID:	18	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-03-sep	0:05:08	585	11.1	10.5	-0.7	23	16.71
16-03-sep	1:05:08	585	10.0	9.5	-0.5	24	16.73
16-03-sep	2:05:08	585	9.8	9.0	-0.7	24	16.71
16-03-sep	3:05:08	585	9.6	8.9	-0.7	24	16.72
16-03-sep	4:05:08	585	10.6	9.2	-1.4	24	16.71
16-03-sep	5:05:08	584	12.0	10.5	-1.6	24	16.71
16-03-sep	6:05:08	585	14.6	12.6	-2.0	24	16.71
16-03-sep	7:05:08	585	16.6	16.4	-0.2	25	16.72
16-03-sep	8:05:08	585	18.2	19.5	1.3	26	16.70
16-03-sep	9:05:08	585	19.7	21.6	1.9	27	16.71
16-03-sep	10:05:08	585	20.4	22.8	2.4	27	16.72
16-03-sep	11:05:08	585	21.5	23.2	1.7	27	16.71
16-03-sep	12:05:08	584	20.8	22.3	1.5	27	16.72
16-03-sep	13:05:08	584	20.8	22.5	1.7	27	16.71
16-03-sep	14:05:08	583	20.6	22.3	1.7	27	16.71
16-03-sep	15:05:08	583	16.7	17.6	0.9	26	16.72
16-03-sep	16:05:08	583	17.2	17.3	0.2	26	16.71
16-03-sep	17:05:08	582	18.8	19.8	1.0	27	16.72
16-03-sep	18:05:08	582	18.3	18.8	0.5	26	16.71
16-03-sep	19:05:08	582	15.2	16.0	0.8	26	16.70
16-03-sep	20:05:08	582	16.1	14.5	-1.6	26	16.70
16-03-sep	21:05:08	582	16.3	15.4	-0.9	26	16.71
16-03-sep	22:05:08	582	16.7	15.8	-1.0	26	16.71
16-03-sep	23:05:08	582	15.8	15.0	-0.8	26	16.71
16-05-sep	19:14:09	582	10.6	16.2	5.6		0.00

BGI PQ200 Air Sampling System Downloaded 2016 12 sep 14:43:16

Job Details:

Job Name: 16Sep12A.JOB
Version: 5.62
Serial No: 962
Pump Time: 8185:35
Flags: F

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

	Max	Min	Avg	Units
BP	589	586	587	mmHg
TA	27.8	8.6	18.2	°C
Q	---	---	16.7	Lpm

QCV 0.6 %

Max overheat 7 °C
occured 11-sep 19:07:29

Timer Information:

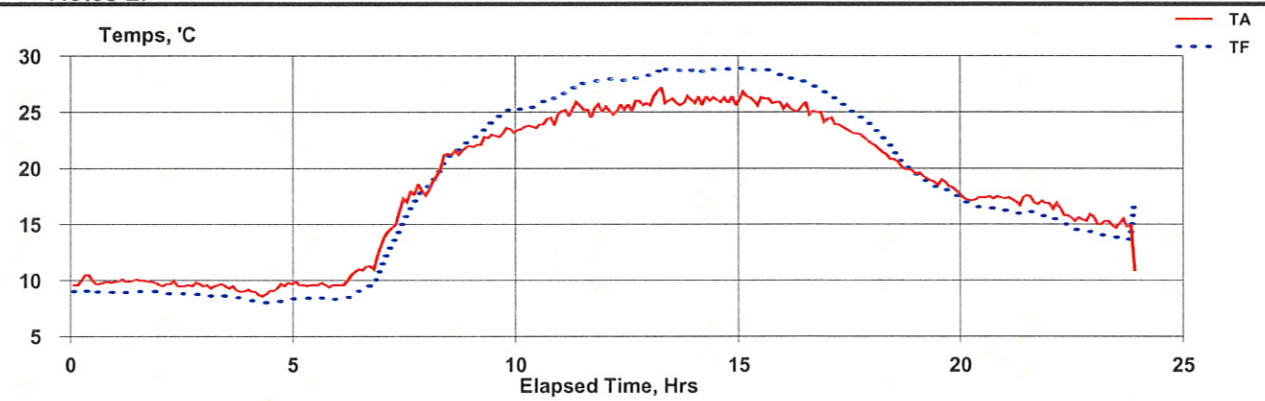
	Date dd-mmm	Time hh:mm:ss
Start:	16-09-sep	0:00:08
Stop:	16-10-sep	0:00:04

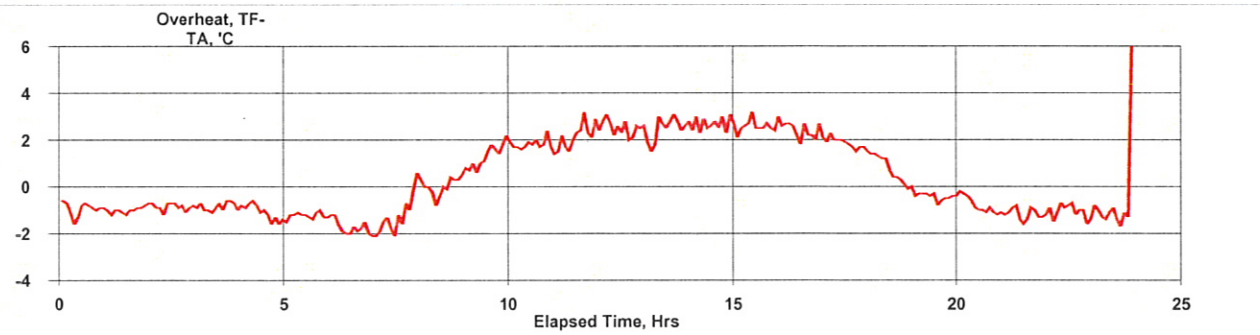
ET: 23:59

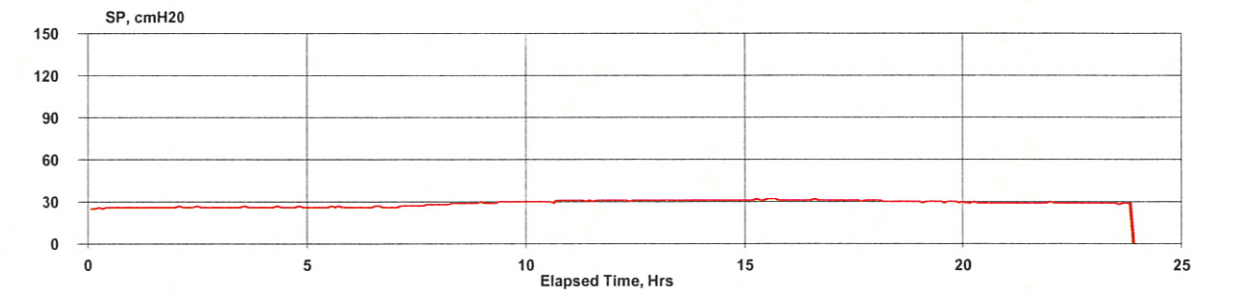
Mass Concentration Data:

Filter ID:	25	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-09-sep	0:05:08	587	9.9	9.0	-0.9	26	16.70
16-09-sep	1:05:08	587	9.9	8.9	-1.0	26	16.70
16-09-sep	2:05:08	587	9.6	8.8	-0.9	26	16.70
16-09-sep	3:05:08	587	9.4	8.5	-0.9	26	16.70
16-09-sep	4:05:08	587	9.2	8.1	-1.1	26	16.71
16-09-sep	5:05:08	587	9.6	8.4	-1.2	26	16.72
16-09-sep	6:05:08	587	10.9	9.2	-1.7	26	16.70
16-09-sep	7:05:08	588	16.5	15.3	-1.2	27	16.71
16-09-sep	8:05:08	588	20.7	20.7	0.0	29	16.71
16-09-sep	9:05:08	588	22.8	24.1	1.3	30	16.70
16-09-sep	10:05:08	588	23.9	25.7	1.8	30	16.69
16-09-sep	11:05:08	588	25.2	27.4	2.1	31	16.70
16-09-sep	12:05:08	588	25.5	28.0	2.5	31	16.67
16-09-sep	13:05:08	588	26.2	28.6	2.5	31	16.69
16-09-sep	14:05:08	588	26.1	28.7	2.7	31	16.71
16-09-sep	15:05:08	588	26.1	28.7	2.6	31	16.71
16-09-sep	16:05:08	588	25.2	27.6	2.5	31	16.70
16-09-sep	17:05:08	588	23.5	25.3	1.9	31	16.69
16-09-sep	18:05:08	588	20.9	21.7	0.8	30	16.72
16-09-sep	19:05:08	588	18.9	18.5	-0.4	30	16.71
16-09-sep	20:05:08	589	17.4	16.6	-0.8	29	16.71
16-09-sep	21:05:08	589	17.2	16.0	-1.2	29	16.71
16-09-sep	22:05:08	589	15.9	14.9	-1.1	29	16.71
16-09-sep	23:05:08	589	15.1	13.9	-1.2	29	16.71
16-11-sep	19:24:08	586	10.9	16.9	6.0		0.00

BGI PQ200 Air Sampling System Downloaded 2016 16 sep 13:49:13

Job Details:

Job Name:	16Sep16A.JOB
Version:	5.62
Serial No:	962
Pump Time:	8209:35
Flags:	

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

	Max	Min	Avg	Units
BP	587	584	586	mmHg
TA	21.6	1.9	11.7	°C
Q	---	---	16.7	Lpm

QCV	0.56 %
Max overheat	4.1 °C
occured	15-sep 18:42:40

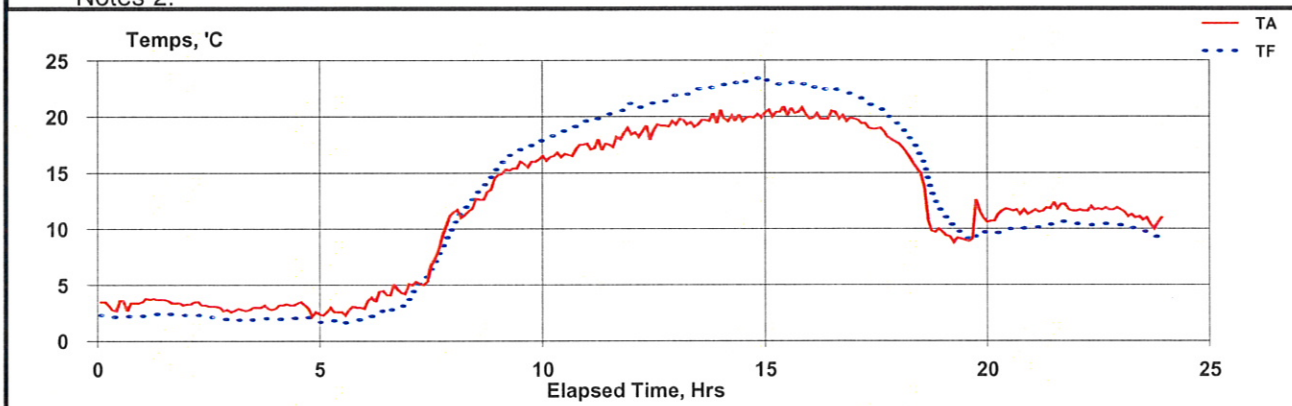
Timer Information:

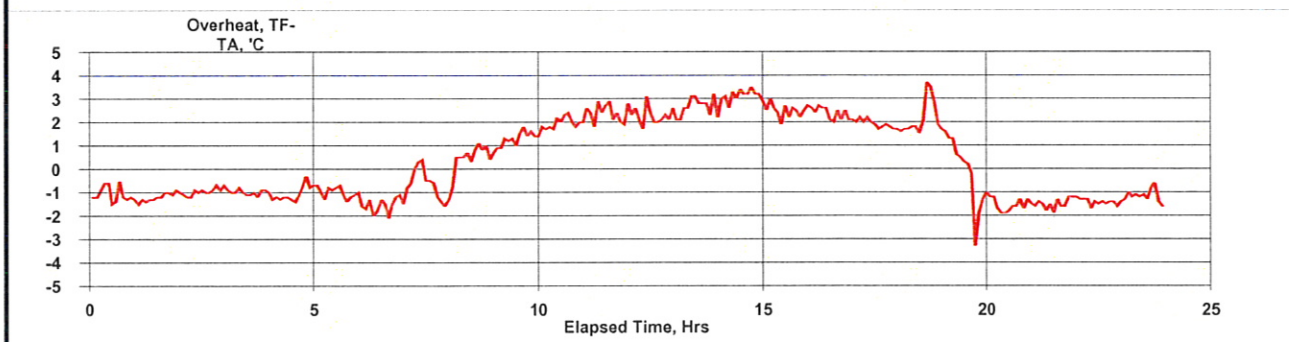
	Date dd-mmm	Time hh:mm:ss
Start:	16-15-sep	0:00:08
Stop:	16-16-sep	0:00:05
ET:	24:00:00	

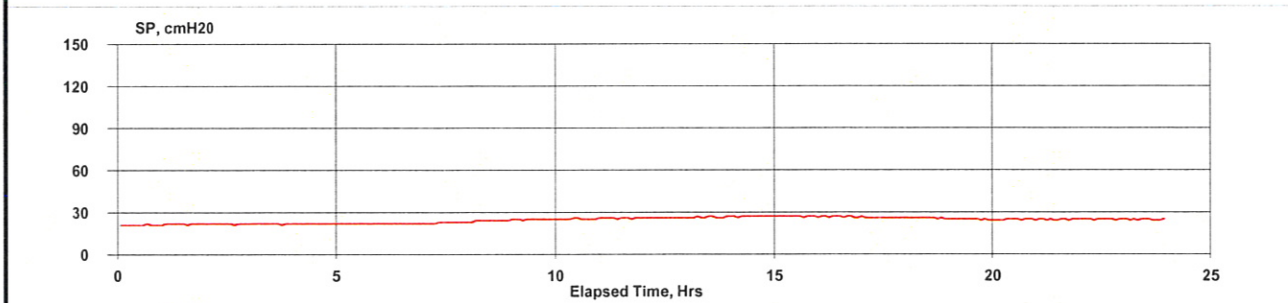
Mass Concentration Data:

Filter ID:	9	
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:







16-15-sep	0:05:09	586	3.3	2.2	-1.1	21	16.72
16-15-sep	1:05:09	586	3.6	2.4	-1.2	22	16.72
16-15-sep	2:05:09	586	3.1	2.1	-1.0	22	16.71
16-15-sep	3:05:09	586	2.9	1.9	-1.0	22	16.70
16-15-sep	4:05:09	586	3.0	2.0	-1.1	22	16.71
16-15-sep	5:05:09	586	2.7	1.7	-1.0	22	16.71
16-15-sep	6:05:09	586	4.3	2.7	-1.6	22	16.71
16-15-sep	7:05:09	587	7.5	6.9	-0.7	23	16.71
16-15-sep	8:05:09	587	12.6	13.2	0.5	24	16.70
16-15-sep	9:05:09	587	15.7	17.0	1.3	25	16.71
16-15-sep	10:05:09	587	16.8	18.8	2.0	25	16.70
16-15-sep	11:05:09	587	17.8	20.2	2.4	26	16.72
16-15-sep	12:05:09	586	18.9	21.2	2.3	26	16.71
16-15-sep	13:05:09	586	19.7	22.3	2.6	26	16.71
16-15-sep	14:05:09	586	19.9	23.1	3.1	27	16.71
16-15-sep	15:05:09	585	20.4	22.9	2.5	27	16.70
16-15-sep	16:05:09	585	20.0	22.3	2.4	27	16.71
16-15-sep	17:05:09	585	18.7	20.6	1.9	26	16.71
16-15-sep	18:05:09	585	13.4	15.5	2.2	26	16.71
16-15-sep	19:05:09	586	9.9	9.7	-0.2	25	16.71
16-15-sep	20:05:09	586	11.4	9.8	-1.6	25	16.71
16-15-sep	21:05:09	586	11.8	10.4	-1.5	25	16.71
16-15-sep	22:05:09	586	11.8	10.3	-1.4	25	16.72
16-15-sep	23:05:09	586	10.9	9.7	-1.1	25	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 23 sep 13:11:14

Job Details:

Job Name:	16Sep23A.JOB	Job Code:	
Version:	5.62	Site Name:	962A
Serial No:	962	Station Code:	
Pump Time:	8233:34	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	587	583	585	mmHg
TA	13.3	10.3	11.8	°C
Q	---	---	16.7	Lpm

QCV 0.65 %

Max overheat 6.7 °C

occured 22-sep 17:54:57

Timer Information:

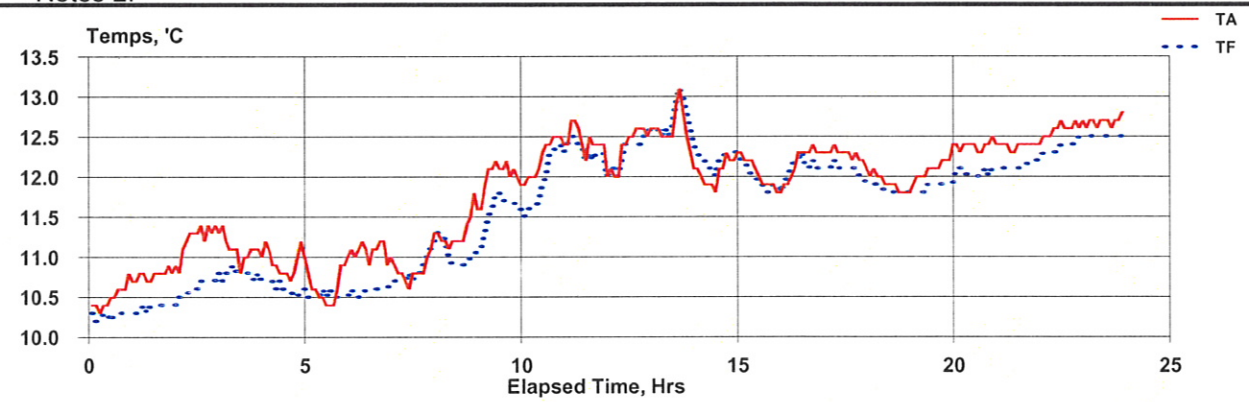
	Date dd-mmm	Time hh:mm:ss
Start:	16-21-sep	0:00:08
Stop:	16-22-sep	0:00:05
ET:	23:59	

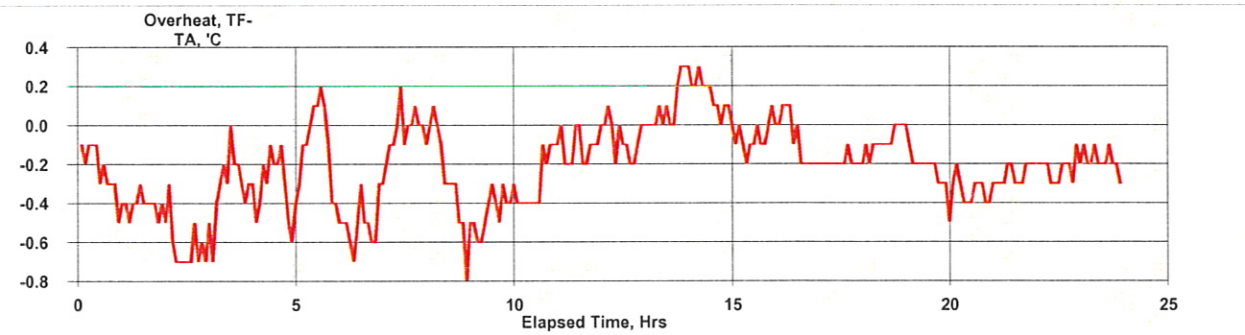
Mass Concentration Data:

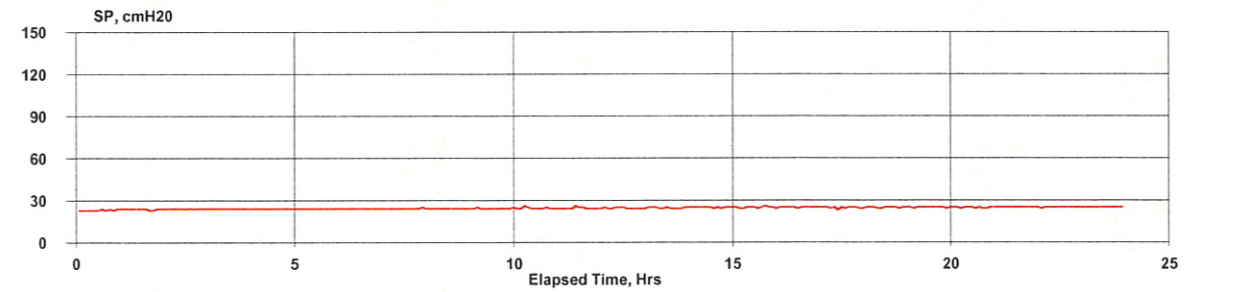
Filter ID:	15	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.034	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-21-sep	0:05:08	587	10.5	10.3	-0.2	23	16.71
16-21-sep	1:05:08	587	10.8	10.4	-0.4	24	16.71
16-21-sep	2:05:08	586	11.3	10.6	-0.6	24	16.70
16-21-sep	3:05:08	586	11.1	10.8	-0.3	24	16.71
16-21-sep	4:05:08	586	10.9	10.6	-0.3	24	16.71
16-21-sep	5:05:08	586	10.6	10.5	-0.1	24	16.71
16-21-sep	6:05:08	586	11.1	10.6	-0.5	24	16.71
16-21-sep	7:05:08	586	10.9	10.8	0.0	24	16.70
16-21-sep	8:05:08	586	11.3	11.0	-0.3	24	16.70
16-21-sep	9:05:08	586	12.0	11.6	-0.4	24	16.75
16-21-sep	10:05:08	586	12.3	12.0	-0.3	24	16.77
16-21-sep	11:05:08	586	12.4	12.3	-0.1	24	16.76
16-21-sep	12:05:08	586	12.4	12.3	-0.1	24	16.75
16-21-sep	13:05:08	586	12.6	12.7	0.1	25	16.68
16-21-sep	14:05:08	585	12.1	12.2	0.1	25	16.72
16-21-sep	15:05:08	585	12.0	12.0	-0.1	25	16.71
16-21-sep	16:05:08	585	12.2	12.1	-0.1	25	16.71
16-21-sep	17:05:08	585	12.3	12.1	-0.2	25	16.65
16-21-sep	18:05:08	585	11.9	11.8	-0.1	25	16.70
16-21-sep	19:05:08	585	12.1	11.9	-0.2	25	16.71
16-21-sep	20:05:08	584	12.4	12.1	-0.3	25	16.71
16-21-sep	21:05:08	584	12.4	12.1	-0.2	25	16.71
16-21-sep	22:05:08	584	12.6	12.4	-0.2	25	16.71
16-21-sep	23:05:08	584	12.7	12.5	-0.2	25	16.71

BGI PQ200 Air Sampling System Downloaded 2016 29 sep 13:15:17

Job Details:

Job Name: 16Sep29A.JOB
Version: 5.62
Serial No: 962
Pump Time: 8294:45
Flags:

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

	Max	Min	Avg	Units
BP	591	587	588	mmHg
TA	21.5	2.6	12.3	°C
Q	---	---	16.7	Lpm

QCV 0.78 %

Max overheat 4.6 °C
occured 29-sep 13:15:08

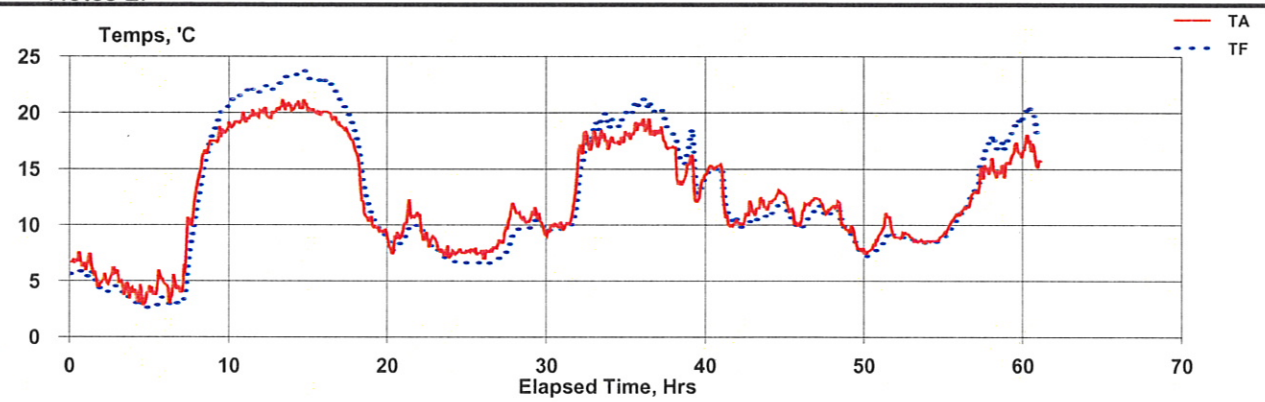
Timer Information:

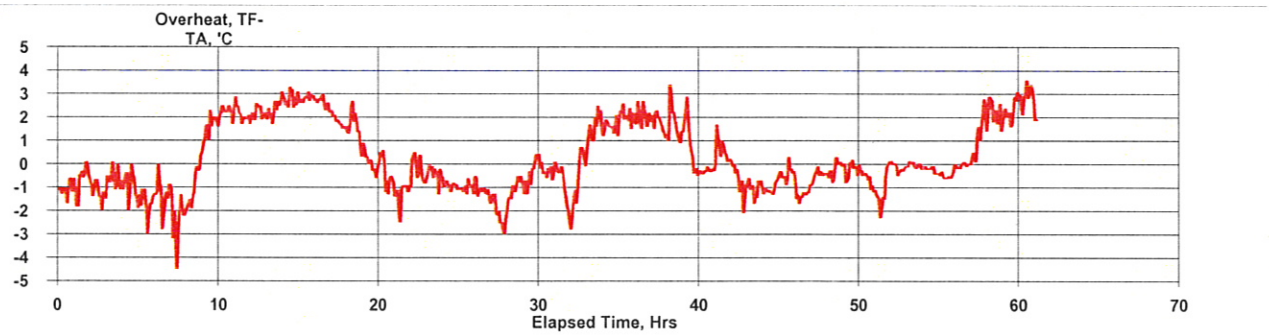
	Date dd-mmm	Time hh:mm:ss
Start:	16-27-sep	0:00:08
Stop:	16-29-sep	13:11:54
ET:	61:11:00	

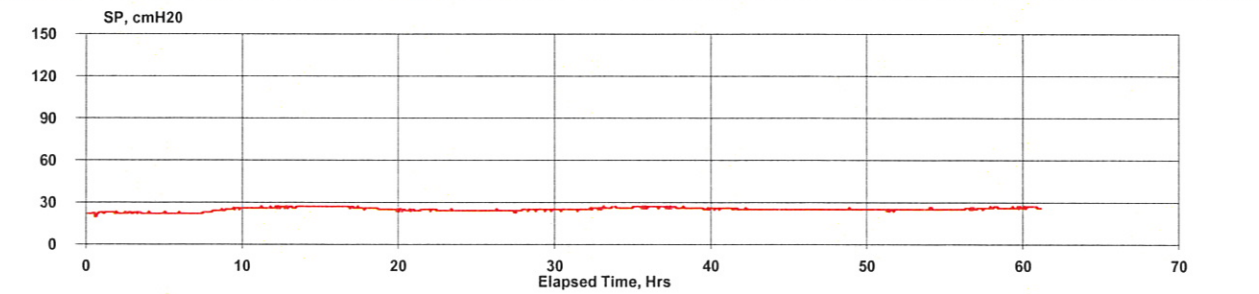
Mass Concentration Data:

Filter ID:	31	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	61.297	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-27-sep	0:05:08	589	6.7	5.7	-1.0	22	16.59
16-27-sep	1:05:08	589	5.7	5.1	-0.7	23	16.71
16-27-sep	2:05:08	589	5.5	4.2	-1.2	22	16.69
16-27-sep	3:05:08	588	4.4	3.8	-0.6	22	16.71
16-27-sep	4:05:08	588	3.7	2.8	-1.0	22	16.74
16-27-sep	5:05:08	588	4.7	3.0	-1.6	22	16.72
16-27-sep	6:05:08	588	4.3	3.0	-1.3	22	16.72
16-27-sep	7:05:08	589	9.6	7.2	-2.4	23	16.71
16-27-sep	8:05:08	589	16.3	15.5	-0.8	24	16.70
16-27-sep	9:05:08	589	18.1	19.8	1.6	26	16.70
16-27-sep	10:05:08	589	19.2	21.4	2.3	26	16.70
16-27-sep	11:05:08	589	19.8	21.9	2.1	26	16.70
16-27-sep	12:05:08	588	20.0	22.2	2.2	27	16.71
16-27-sep	13:05:08	588	20.6	23.0	2.4	27	16.71
16-27-sep	14:05:08	587	20.6	23.4	2.8	27	16.72
16-27-sep	15:05:08	587	20.1	22.9	2.8	27	16.70
16-27-sep	16:05:08	587	19.7	22.3	2.6	27	16.71
16-27-sep	17:05:08	587	18.0	19.9	1.9	26	16.71
16-27-sep	18:05:08	587	12.4	14.0	1.6	26	16.71
16-27-sep	19:05:08	587	9.6	9.7	0.1	25	16.71
16-27-sep	20:05:08	587	8.6	8.2	-0.4	25	16.69
16-27-sep	21:05:08	587	10.8	9.6	-1.3	25	16.71
16-27-sep	22:05:08	587	9.0	8.8	-0.2	24	16.71
16-27-sep	23:05:08	587	7.7	7.3	-0.4	24	16.71
16-28-sep	0:05:08	587	7.6	6.7	-0.9	24	16.71
16-28-sep	1:05:08	588	7.6	6.6	-1.0	24	16.70
16-28-sep	2:05:08	587	7.7	6.6	-1.1	24	16.74
16-28-sep	3:05:08	587	9.9	7.8	-2.1	24	16.63
16-28-sep	4:05:08	587	10.7	9.6	-1.1	25	16.71
16-28-sep	5:05:08	588	10.5	10.0	-0.5	25	16.71
16-28-sep	6:05:08	588	9.8	9.6	-0.2	25	16.71
16-28-sep	7:05:08	588	11.1	10.3	-0.9	25	16.71
16-28-sep	8:05:08	588	17.3	16.6	-0.7	26	16.71
16-28-sep	9:05:08	589	17.6	19.2	1.6	26	16.71
16-28-sep	10:05:08	589	17.6	19.2	1.6	26	16.71
16-28-sep	11:05:08	588	18.4	20.5	2.1	27	16.72
16-28-sep	12:05:08	588	18.6	20.6	2.0	27	16.71
16-28-sep	13:05:08	588	17.5	19.2	1.8	27	16.71
16-28-sep	14:05:08	588	14.7	16.4	1.7	26	16.71
16-28-sep	15:05:08	588	13.9	14.8	0.9	26	16.71
16-28-sep	16:05:08	588	15.1	14.8	-0.3	26	16.72
16-28-sep	17:05:08	588	10.9	11.5	0.6	26	16.70
16-28-sep	18:05:08	588	10.8	10.1	-0.7	25	16.71
16-28-sep	19:05:08	588	11.6	10.6	-1.0	25	16.71
16-28-sep	20:05:08	589	12.6	11.5	-1.1	25	16.70
16-28-sep	21:05:08	589	10.9	10.5	-0.4	25	16.71
16-28-sep	22:05:08	589	11.8	10.5	-1.3	25	16.72
16-28-sep	23:05:08	589	11.7	11.2	-0.5	25	16.71
16-29-sep	0:05:08	590	10.9	10.6	-0.2	25	16.73
16-29-sep	1:05:08	589	8.7	8.4	-0.2	25	16.72
16-29-sep	2:05:08	589	8.0	7.5	-0.6	25	16.71
16-29-sep	3:05:08	589	9.9	8.8	-1.1	25	16.70
16-29-sep	4:05:08	589	9.1	8.9	-0.2	25	16.71
16-29-sep	5:05:08	589	8.6	8.6	0.0	25	16.71
16-29-sep	6:05:08	590	8.7	8.5	-0.2	25	16.78

16-29-sep	7:05:08	590	10.1	9.6	-0.5	25	16.71
16-29-sep	8:05:08	590	11.8	11.7	-0.1	25	16.71
16-29-sep	9:05:08	591	14.2	15.4	1.2	26	16.68
16-29-sep	10:05:08	591	15.0	17.2	2.2	26	16.72
16-29-sep	11:05:08	590	16.3	18.5	2.3	26	16.72
16-29-sep	12:05:08	590	16.8	19.7	2.9	27	16.70
16-29-sep	13:05:08	590	15.8	17.7	1.9	26	16.71

Compliance Monitor 963B

PM_{10} Sampler Summary

July 1, 2016 - September 30, 2016

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

AQS ID:

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
07/05/16	P2930768	**17.7**	**22.4**	23:59	24.0	19.0	373.110	373.537	0.427		
07/11/16	P2930773	**42.0**	**52.9**	23:59	24.0	19.1	374.373	375.383	1.010	HT	Smudged
07/17/16	P2930991	**9.1**	**11.5**	23:59	24.0	18.9	373.007	373.226	0.219	HT	
07/23/16	P2930996	**16.4**	**21.0**	23:59	24.0	18.8	369.665	370.061	0.396		
07/29/16	P2931001	**65.1**	**83.1**	23:59	24.0	18.8	374.976	376.541	1.565		
08/04/16	P2931178	**14.0**	**17.4**	23:59	24.0	19.3	382.165	382.502	0.337	HT	
08/10/16	P2931183	**17.6**	**21.8**	23:59	24.0	19.4	374.766	375.190	0.424	HT	
08/16/16	P2931429	**44.4**	**56.0**	23:59	24.0	19.1	385.287	386.356	1.069		Smudged
08/22/16	P2931436	**37.5**	**46.5**	23:59	24.0	19.4	375.306	376.209	0.903		
08/28/16	P2931712	**3.9**	**4.8**	23:59	24.0	19.5	397.613	397.707	0.094		
09/03/16	P2931717	**9.5**	**11.9**	23:59	24.0	19.2	384.175	384.404	0.229	HT	
09/09/16	P2931722	**149.6**	**187.4**	23:59	24.0	19.2	369.238	372.833	3.595		Much darker
09/15/16	P2932014	**40.5**	**49.8**	24:00	24.0	19.6	376.331	377.307	0.976		
09/21/16	P2932021	**3.5**	**4.4**	23:59	24.0	19.5	383.888	383.974	0.086		
09/27/16	P2933158	**25.1**	**30.7**	23:59	24.0	19.7	377.292	377.897	0.605		Lighter
08/01/16	P2931186		**Field Blank**				375.142	375.145	0.003		
09/29/16	P2933163		**Field Blank**				368.124	368.130	0.006		

# Valid	Recovery	Average	St. Dev.	Max	Min
15	100%	41.4	46.2	187.4	4.4

BGI PQ200 Air Sampling System Downloaded 2016 07 jul 13:12:04

Job Details:

Job Name: 16Jul07B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3504:24
Flags:

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	30.4	9.6	20.6	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 2.4 °C
occured 05-jul 14:37:09

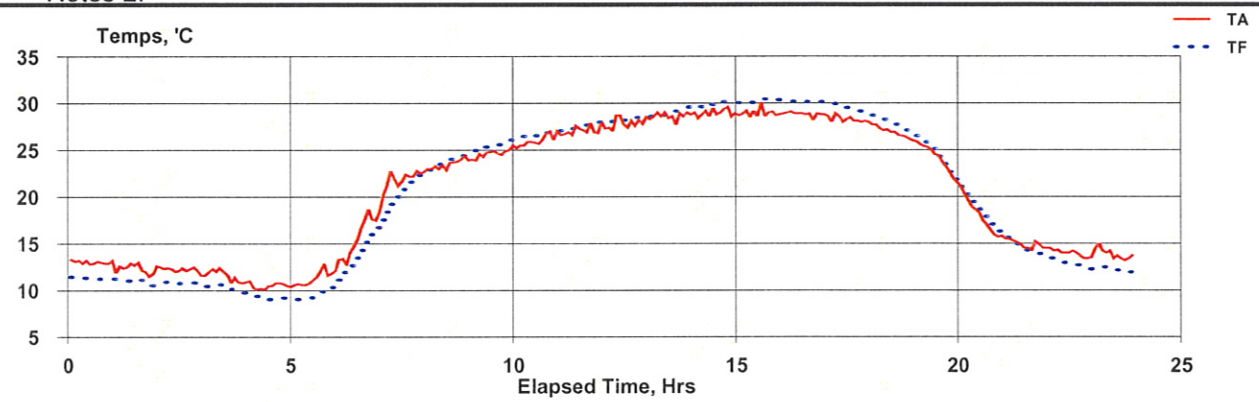
Timer Information:

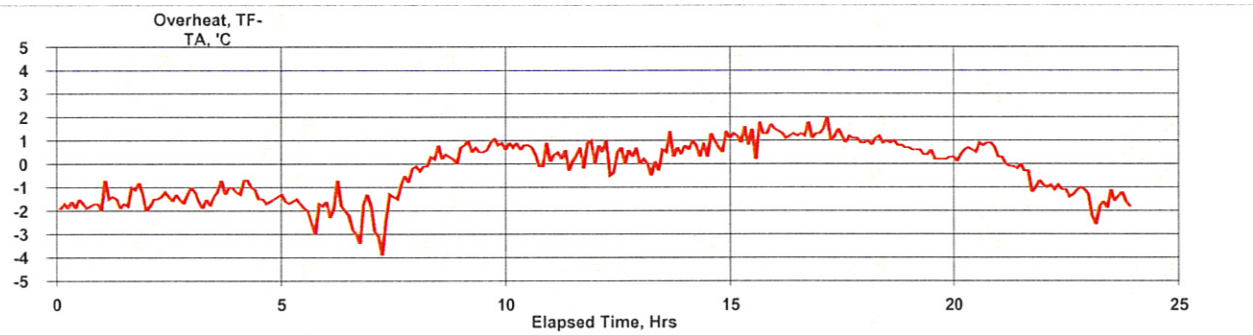
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jul	0:00:08
Stop:	16-06-jul	0:00:04
ET:	23:59	

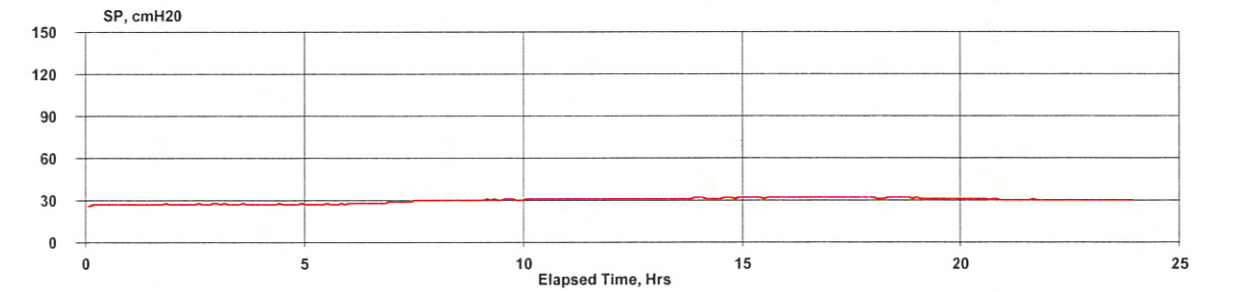
Mass Concentration Data:

Filter ID:	14	
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:







16-05-jul	0:05:08	593	13.0	11.3	-1.8	27	16.70
16-05-jul	1:05:08	593	12.3	10.9	-1.4	27	16.71
16-05-jul	2:05:08	593	12.2	10.8	-1.4	27	16.71
16-05-jul	3:05:08	593	11.6	10.2	-1.3	27	16.71
16-05-jul	4:05:08	593	10.5	9.2	-1.3	27	16.70
16-05-jul	5:05:08	593	11.4	9.5	-1.9	27	16.71
16-05-jul	6:05:08	593	15.9	13.8	-2.1	28	16.71
16-05-jul	7:05:08	593	22.0	20.4	-1.6	30	16.71
16-05-jul	8:05:08	593	23.5	23.7	0.2	30	16.71
16-05-jul	9:05:08	593	24.7	25.4	0.7	30	16.71
16-05-jul	10:05:08	593	26.0	26.6	0.6	31	16.70
16-05-jul	11:05:08	593	27.1	27.5	0.4	31	16.72
16-05-jul	12:05:08	593	27.9	28.2	0.4	31	16.70
16-05-jul	13:05:08	593	28.6	29.0	0.4	31	16.71
16-05-jul	14:05:08	592	29.0	29.8	0.8	32	16.70
16-05-jul	15:05:08	592	29.0	30.2	1.3	32	16.71
16-05-jul	16:05:08	592	28.8	30.1	1.3	32	16.70
16-05-jul	17:05:08	591	28.3	29.5	1.2	32	16.70
16-05-jul	18:05:08	591	26.9	27.8	0.9	32	16.71
16-05-jul	19:05:08	591	24.1	24.5	0.4	31	16.71
16-05-jul	20:05:08	591	17.9	18.5	0.6	31	16.70
16-05-jul	21:05:08	592	14.9	14.5	-0.4	30	16.71
16-05-jul	22:05:08	592	13.9	12.8	-1.1	30	16.71
16-05-jul	23:05:08	592	13.9	12.2	-1.7	30	16.72

BGI PQ200 Air Sampling System Downloaded 2016 12 jul 11:28:31

Job Details:

Job Name: 16Jul12B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3528:23
Flags:

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

	Max	Min	Avg	Units
BP	591	587	590	mmHg
TA	28.6	8.1	18.4	°C
Q	---	---	16.7	Lpm

QCV 0.5 %
Max overheat 2.6 °C
occured 11-jul 15:22:21

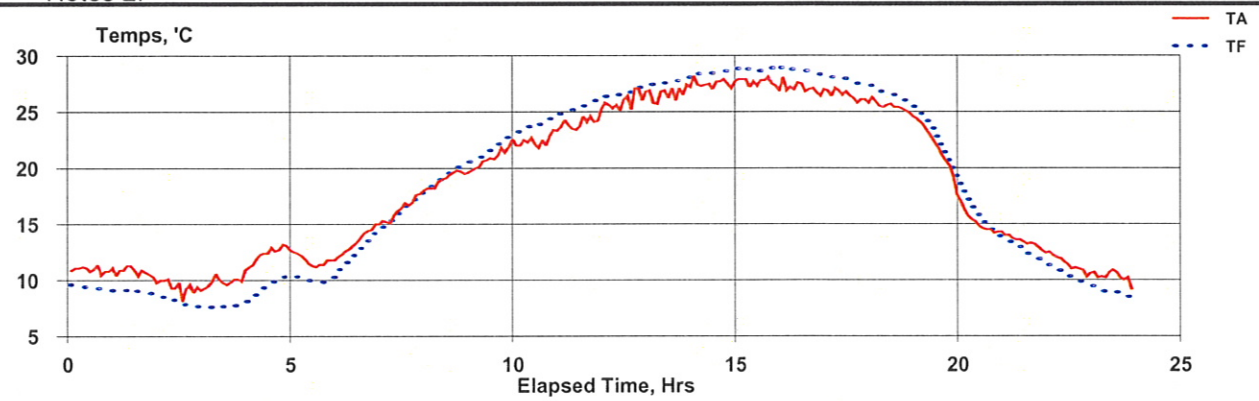
Timer Information:

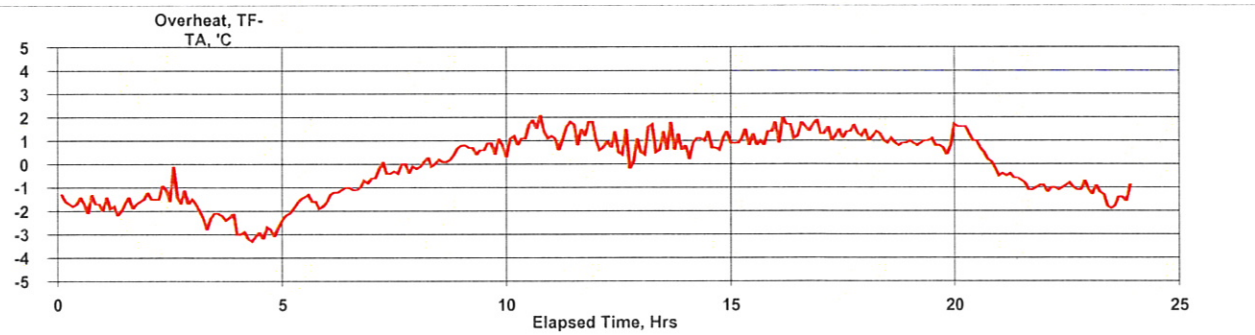
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jul	0:00:08
Stop:	16-12-jul	0:00:04
ET:	23:59	

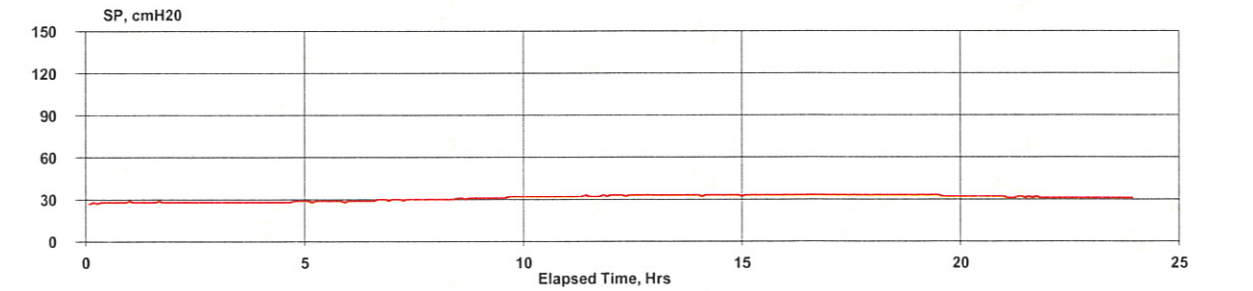
Mass Concentration Data:

Filter ID:	19	
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:







16-11-jul	0:05:08	589	11.0	9.3	-1.7	28	16.71
16-11-jul	1:05:08	589	10.7	9.0	-1.7	28	16.71
16-11-jul	2:05:08	589	9.4	8.1	-1.3	28	16.71
16-11-jul	3:05:08	589	10.0	7.7	-2.3	28	16.71
16-11-jul	4:05:08	590	12.4	9.5	-2.9	28	16.71
16-11-jul	5:05:08	590	11.8	10.1	-1.7	29	16.71
16-11-jul	6:05:08	590	13.6	12.6	-1.0	29	16.71
16-11-jul	7:05:08	591	16.5	16.2	-0.2	30	16.71
16-11-jul	8:05:08	591	19.1	19.3	0.2	31	16.71
16-11-jul	9:05:08	591	21.0	21.7	0.7	31	16.71
16-11-jul	10:05:08	591	22.5	23.8	1.4	32	16.70
16-11-jul	11:05:08	591	24.1	25.4	1.3	32	16.70
16-11-jul	12:05:08	591	26.0	26.7	0.7	33	16.71
16-11-jul	13:05:08	591	26.6	27.6	1.0	33	16.71
16-11-jul	14:05:08	590	27.5	28.5	0.9	33	16.71
16-11-jul	15:05:08	590	27.6	28.7	1.1	33	16.70
16-11-jul	16:05:08	590	27.1	28.6	1.5	33	16.71
16-11-jul	17:05:08	590	26.4	27.8	1.4	33	16.71
16-11-jul	18:05:08	590	25.4	26.5	1.0	33	16.71
16-11-jul	19:05:08	590	21.8	22.7	0.9	33	16.71
16-11-jul	20:05:08	590	15.1	15.8	0.7	32	16.70
16-11-jul	21:05:08	590	13.3	12.6	-0.8	31	16.69
16-11-jul	22:05:08	590	11.4	10.4	-1.0	31	16.71
16-11-jul	23:05:08	591	10.3	8.9	-1.4	31	16.71

BGI PQ200 Air Sampling System Downloaded 2016 19 jul 09:04:57

Job Details:

Job Name: 16Jul19B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3552:22
Flags:

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

	Max	Min	Avg	Units
BP	594	589	592	mmHg
TA	31.4	10.8	21.5	°C
Q	---	---	16.7	Lpm

QCV 0.48 %

Max overheat 4.4 °C
occured 18-jul 13:34:02

Timer Information:

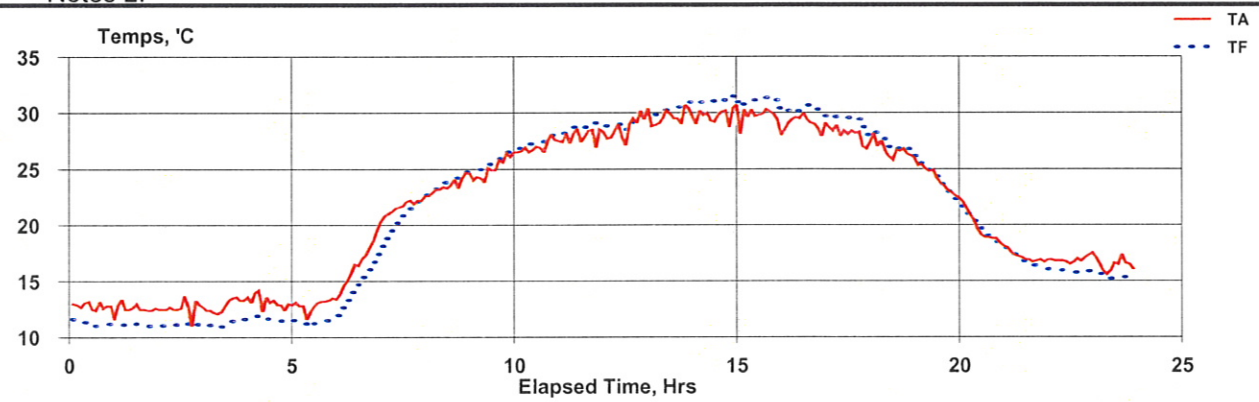
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jul	0:00:08
Stop:	16-18-jul	0:00:05

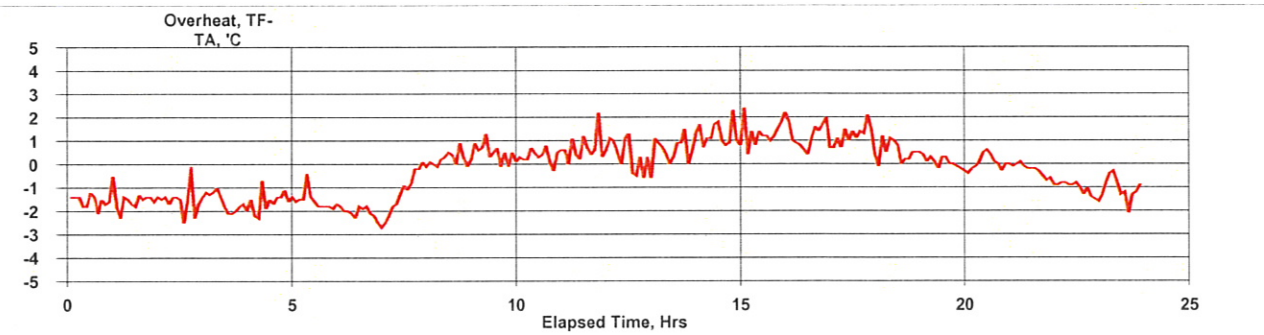
ET: 23:59

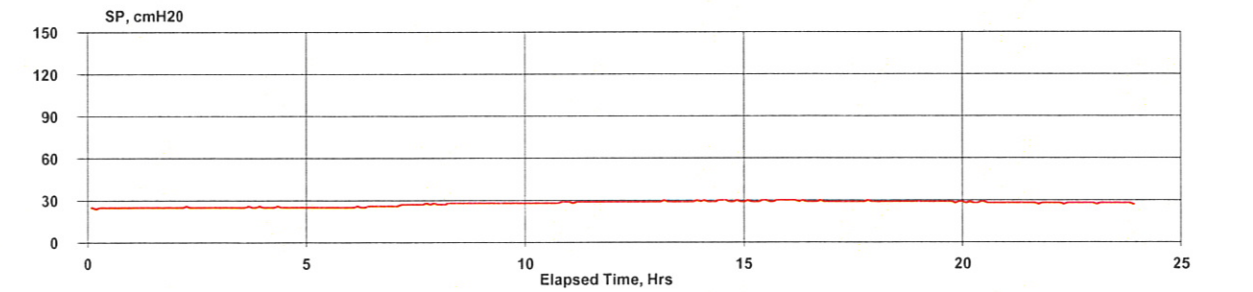
Mass Concentration Data:

Filter ID:	5	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-17-jul	0:05:08	591	12.7	11.3	-1.5	25	16.71
16-17-jul	1:05:08	592	12.7	11.1	-1.6	25	16.71
16-17-jul	2:05:08	592	12.6	11.1	-1.5	25	16.71
16-17-jul	3:05:08	592	12.9	11.3	-1.6	25	16.70
16-17-jul	4:05:08	592	13.1	11.6	-1.6	25	16.71
16-17-jul	5:05:08	592	12.9	11.4	-1.6	25	16.70
16-17-jul	6:05:08	592	16.9	14.8	-2.1	26	16.71
16-17-jul	7:05:08	593	21.8	20.7	-1.1	27	16.71
16-17-jul	8:05:08	593	23.6	23.8	0.2	28	16.71
16-17-jul	9:05:08	593	25.1	25.6	0.5	28	16.72
16-17-jul	10:05:08	594	27.0	27.4	0.4	28	16.69
16-17-jul	11:05:08	594	28.0	28.7	0.7	29	16.71
16-17-jul	12:05:08	593	28.8	29.1	0.3	29	16.71
16-17-jul	13:05:08	593	29.6	30.3	0.7	29	16.71
16-17-jul	14:05:08	593	29.8	31.0	1.2	29	16.70
16-17-jul	15:05:08	593	29.6	31.0	1.4	30	16.71
16-17-jul	16:05:08	593	29.1	30.3	1.2	29	16.71
16-17-jul	17:05:08	593	28.0	29.2	1.2	29	16.70
16-17-jul	18:05:08	593	26.7	27.2	0.5	29	16.70
16-17-jul	19:05:08	593	24.0	24.0	0.1	29	16.71
16-17-jul	20:05:08	593	19.6	19.7	0.1	28	16.71
16-17-jul	21:05:08	594	17.1	16.8	-0.3	28	16.71
16-17-jul	22:05:08	594	16.9	15.8	-1.1	28	16.73
16-17-jul	23:05:08	594	16.4	15.4	-1.1	28	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 25 jul 14:08:29

Job Details:

Job Name: 16Jul25B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3576:21
Flags:

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

	Max	Min	Avg	Units
BP	595	592	593	mmHg
TA	33.8	11.9	23.8	°C
Q	---	---	16.7	Lpm

QCV 0.5 %

Max overheat 5.5 °C
occured 24-jul 16:42:22

Timer Information:

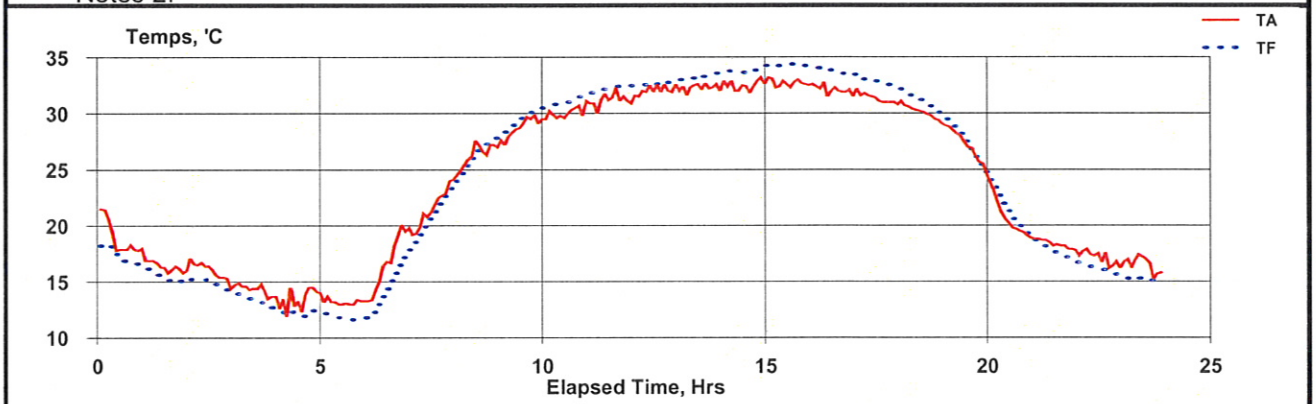
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jul	0:00:08
Stop:	16-24-jul	0:00:05

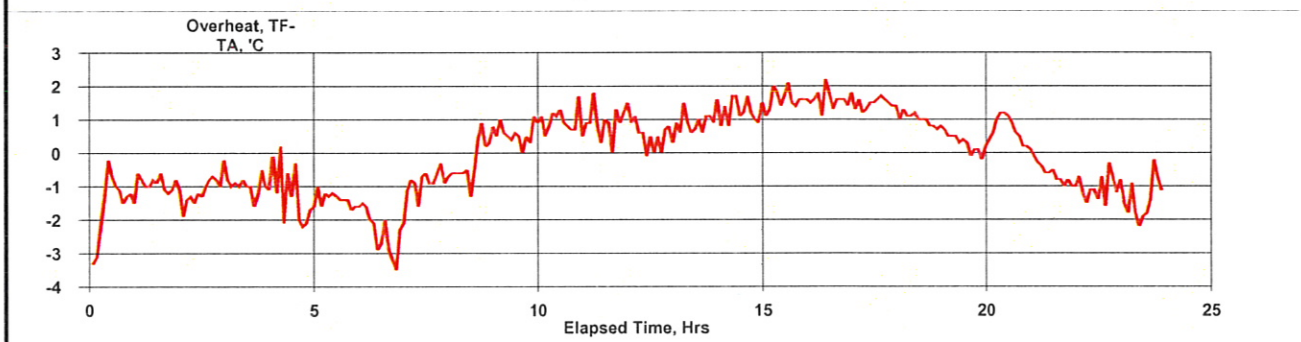
ET: 23:59

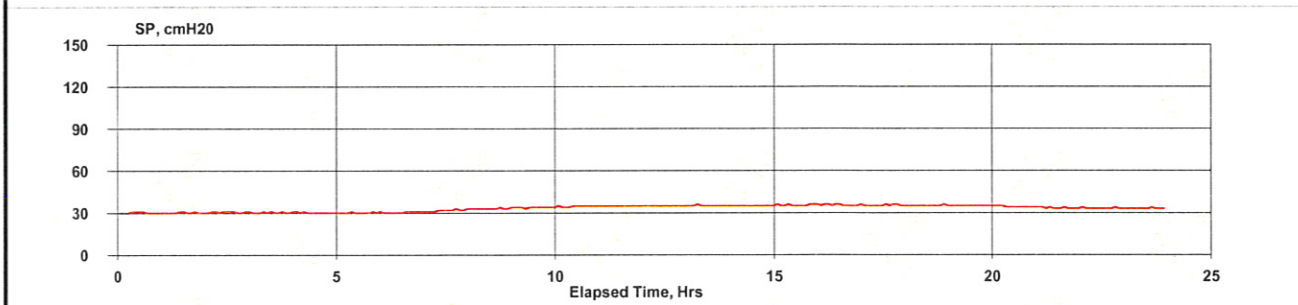
Mass Concentration Data:

Filter ID:	22	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-23-jul	0:05:08	595	18.9	17.3	-1.5	30	16.71
16-23-jul	1:05:08	595	16.4	15.4	-0.9	30	16.71
16-23-jul	2:05:08	594	16.0	14.9	-1.1	31	16.71
16-23-jul	3:05:08	594	14.3	13.3	-1.0	30	16.73
16-23-jul	4:05:08	594	13.5	12.2	-1.3	30	16.71
16-23-jul	5:05:08	594	13.2	11.8	-1.4	30	16.70
16-23-jul	6:05:08	594	16.9	14.5	-2.4	31	16.72
16-23-jul	7:05:08	595	21.6	20.8	-0.8	32	16.71
16-23-jul	8:05:08	595	26.3	26.2	-0.2	33	16.70
16-23-jul	9:05:08	595	28.8	29.3	0.6	34	16.69
16-23-jul	10:05:08	594	30.1	31.0	0.9	35	16.71
16-23-jul	11:05:08	594	31.2	32.2	1.0	35	16.71
16-23-jul	12:05:08	594	32.1	32.6	0.5	35	16.73
16-23-jul	13:05:08	594	32.3	33.2	1.0	35	16.71
16-23-jul	14:05:08	593	32.5	33.8	1.2	35	16.70
16-23-jul	15:05:08	593	32.7	34.3	1.6	35	16.73
16-23-jul	16:05:08	592	32.1	33.7	1.6	35	16.70
16-23-jul	17:05:08	592	31.3	32.8	1.5	35	16.71
16-23-jul	18:05:08	592	30.1	31.1	1.0	35	16.71
16-23-jul	19:05:08	592	27.2	27.4	0.3	35	16.71
16-23-jul	20:05:08	592	20.6	21.3	0.7	34	16.71
16-23-jul	21:05:08	593	18.3	17.7	-0.7	33	16.72
16-23-jul	22:05:08	593	17.1	16.1	-1.0	33	16.71
16-23-jul	23:05:08	593	16.5	15.1	-1.4	33	16.71

BGI PQ200 Air Sampling System Downloaded 2016 01 aug 15:31:14

Job Details:

Job Name:	16Aug01B.JOB
Version:	5.62
Serial No:	963
Pump Time:	3600:20
Flags:	

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

	Max	Min	Avg	Units
BP	594	591	593	mmHg
TA	34.1	14	23.8	°C
Q	---	---	16.7	Lpm

QCV	0.47	%
Max overheat	5.9	°C
occured 30-jul 18:12:30		

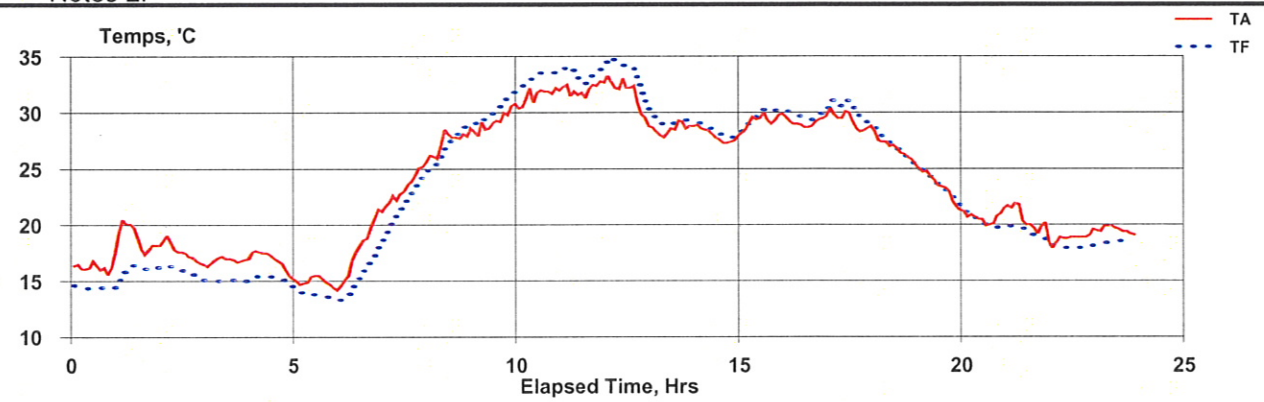
Timer Information:

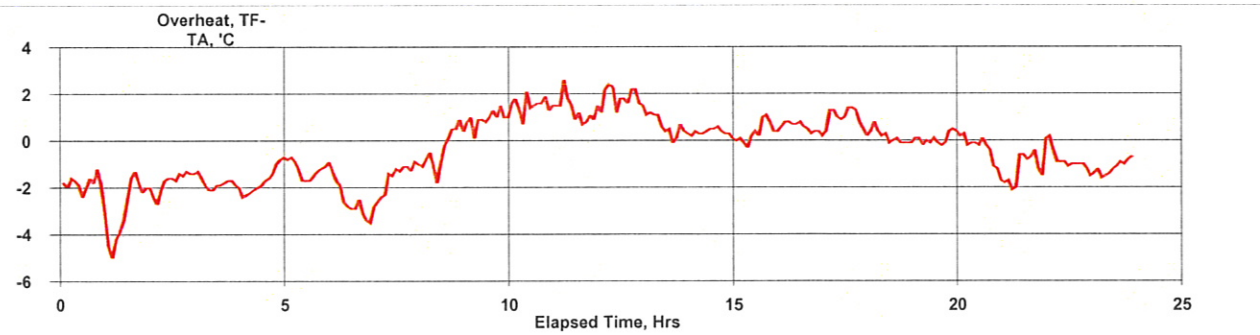
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jul	0:00:08
Stop:	16-30-jul	0:00:05
ET:	23:59	

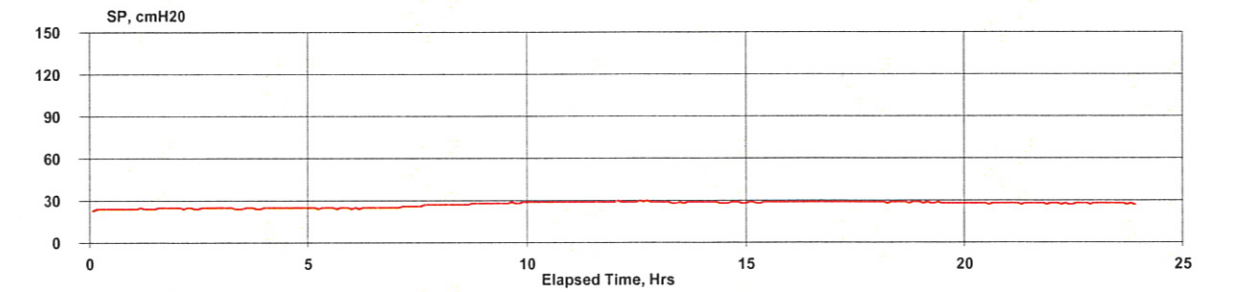
Mass Concentration Data:

Filter ID:		
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:







16-29-jul	0:05:08	594	16.3	14.4	-1.9	24	16.72
16-29-jul	1:05:08	593	18.9	16.0	-2.9	25	16.70
16-29-jul	2:05:08	593	17.6	15.8	-1.7	25	16.70
16-29-jul	3:05:08	593	16.9	15.0	-1.8	25	16.70
16-29-jul	4:05:08	593	16.9	15.2	-1.7	25	16.71
16-29-jul	5:05:08	593	14.9	13.7	-1.2	25	16.71
16-29-jul	6:05:08	593	18.2	15.6	-2.6	25	16.71
16-29-jul	7:05:08	594	23.5	22.0	-1.5	26	16.71
16-29-jul	8:05:08	594	27.5	27.2	-0.3	27	16.71
16-29-jul	9:05:08	594	29.3	30.2	0.9	28	16.72
16-29-jul	10:05:08	594	31.6	33.1	1.5	29	16.71
16-29-jul	11:05:08	593	32.1	33.5	1.3	29	16.70
16-29-jul	12:05:08	593	31.6	33.4	1.8	29	16.71
16-29-jul	13:05:08	593	28.6	29.2	0.6	29	16.71
16-29-jul	14:05:08	593	27.9	28.3	0.4	29	16.71
16-29-jul	15:05:08	593	29.3	29.7	0.4	29	16.70
16-29-jul	16:05:08	593	29.1	29.7	0.6	29	16.70
16-29-jul	17:05:08	592	29.3	30.2	1.0	29	16.70
16-29-jul	18:05:08	592	26.8	26.9	0.1	29	16.71
16-29-jul	19:05:08	592	23.4	23.5	0.1	28	16.71
16-29-jul	20:05:08	593	20.7	20.3	-0.4	28	16.71
16-29-jul	21:05:08	593	20.4	19.3	-1.1	28	16.71
16-29-jul	22:05:08	593	18.8	17.9	-0.9	28	16.71
16-29-jul	23:05:08	592	19.5	18.4	-1.2	28	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 05 aug 08:24:43

Job Details:

Job Name: 16Aug05B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3624:19
Flags:

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	22.9	12	15.8	°C
Q	---	---	16.7	Lpm

QCV 0.55 %

Max overheat 2.8 °C
occured 04-aug 12:41:35

Timer Information:

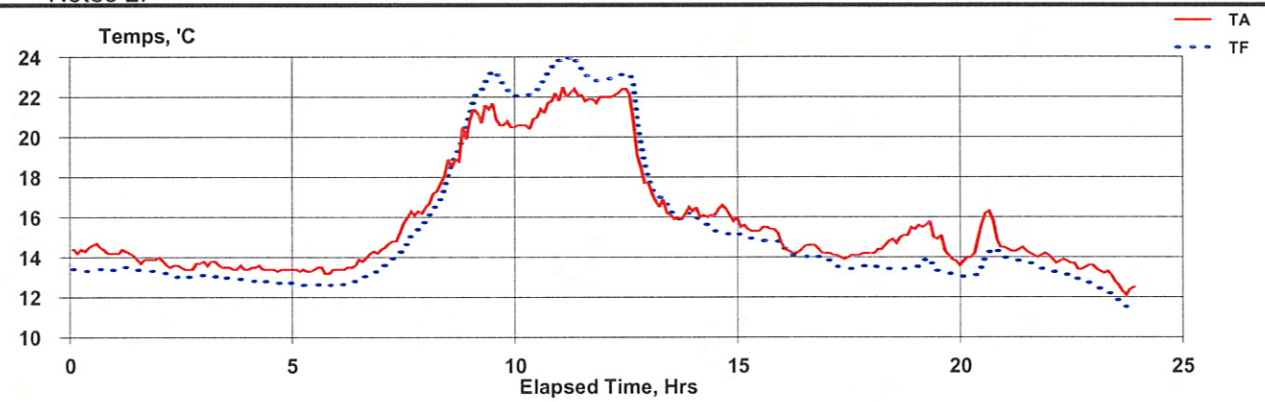
	Date dd-mmm	Time hh:mm:ss
Start:	16-04-aug	0:00:08
Stop:	16-05-aug	0:00:04

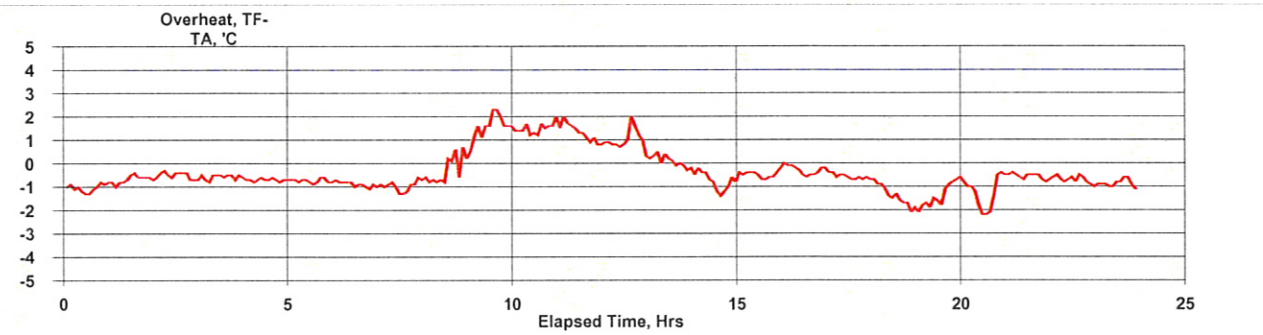
ET: 23:59

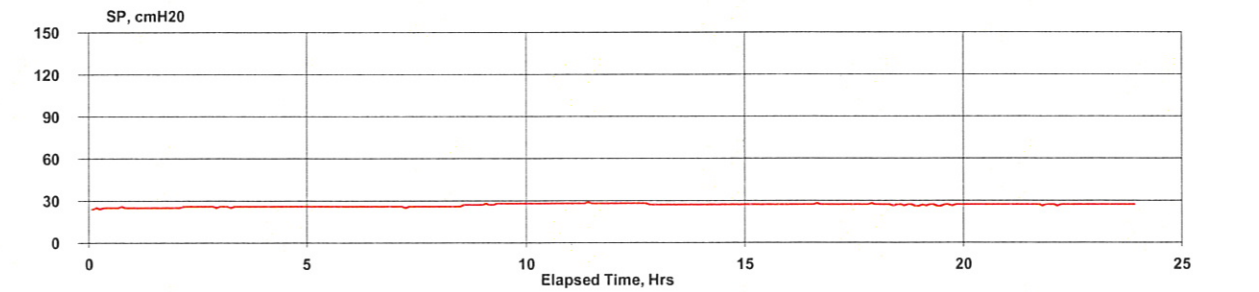
Mass Concentration Data:

Filter ID:	10	
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:







16-04-aug	0:05:08	592	14.4	13.4	-1.0	25	16.70
16-04-aug	1:05:08	593	14.0	13.4	-0.7	25	16.71
16-04-aug	2:05:08	593	13.6	13.1	-0.5	26	16.71
16-04-aug	3:05:08	593	13.5	13.0	-0.6	26	16.70
16-04-aug	4:05:08	593	13.4	12.7	-0.7	26	16.70
16-04-aug	5:05:08	593	13.4	12.6	-0.7	26	16.71
16-04-aug	6:05:08	593	13.9	13.0	-0.9	26	16.70
16-04-aug	7:05:08	593	15.6	14.6	-1.0	26	16.71
16-04-aug	8:05:08	593	18.6	18.4	-0.3	27	16.71
16-04-aug	9:05:08	593	21.0	22.6	1.6	28	16.71
16-04-aug	10:05:08	593	21.2	22.7	1.5	28	16.71
16-04-aug	11:05:08	593	22.1	23.4	1.3	28	16.70
16-04-aug	12:05:08	593	20.8	21.8	1.0	28	16.70
16-04-aug	13:05:08	593	16.4	16.5	0.1	27	16.71
16-04-aug	14:05:08	592	16.2	15.4	-0.8	27	16.71
16-04-aug	15:05:08	593	15.3	14.9	-0.5	27	16.71
16-04-aug	16:05:08	593	14.4	14.1	-0.3	27	16.70
16-04-aug	17:05:08	593	14.1	13.5	-0.6	27	16.71
16-04-aug	18:05:08	592	14.8	13.4	-1.4	27	16.71
16-04-aug	19:05:08	592	14.8	13.4	-1.4	27	16.71
16-04-aug	20:05:08	593	14.9	13.7	-1.3	27	16.71
16-04-aug	21:05:08	593	14.2	13.7	-0.6	27	16.71
16-04-aug	22:05:08	593	13.7	13.0	-0.7	27	16.71
16-04-aug	23:05:08	592	12.8	12.0	-0.9	27	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 11 aug 14:31:19

Job Details:

Job Name: 16Aug11B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3648:18
Flags:

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

	Max	Min	Avg	Units
BP	594	589	592	mmHg
TA	22.3	10.2	15.1	°C
Q	---	---	16.7	Lpm

QCV 0.55 %

Max overheat 5.5 °C
occured 10-aug 15:46:25

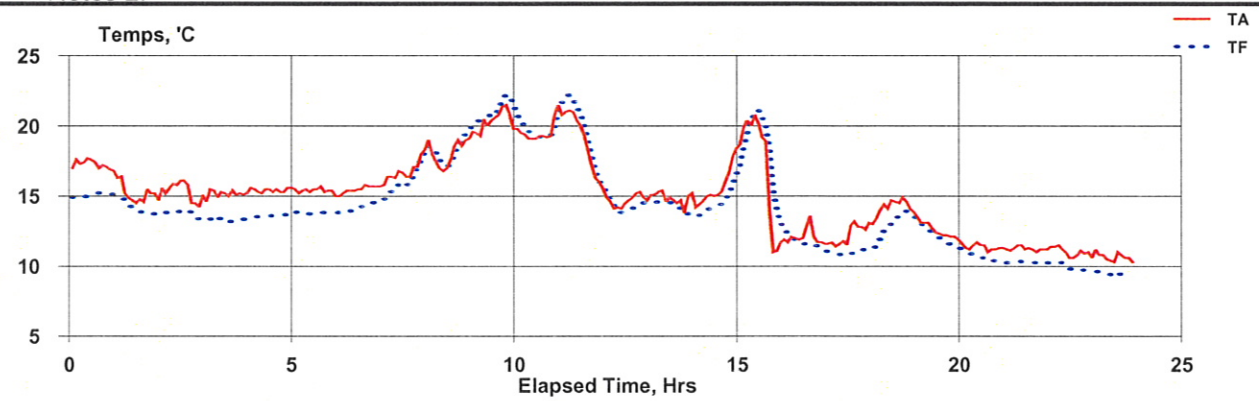
Timer Information:

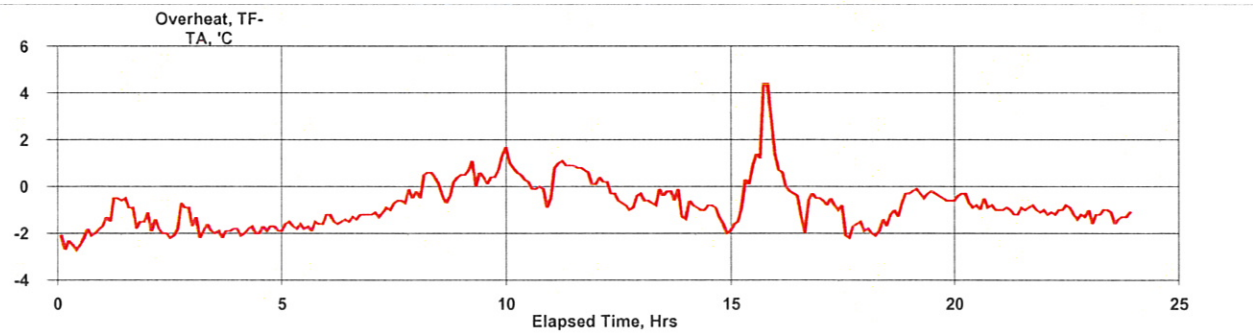
	Date dd-mmm	Time hh:mm:ss
Start:	16-10-aug	0:00:08
Stop:	16-11-aug	0:00:04
ET:	23:59	

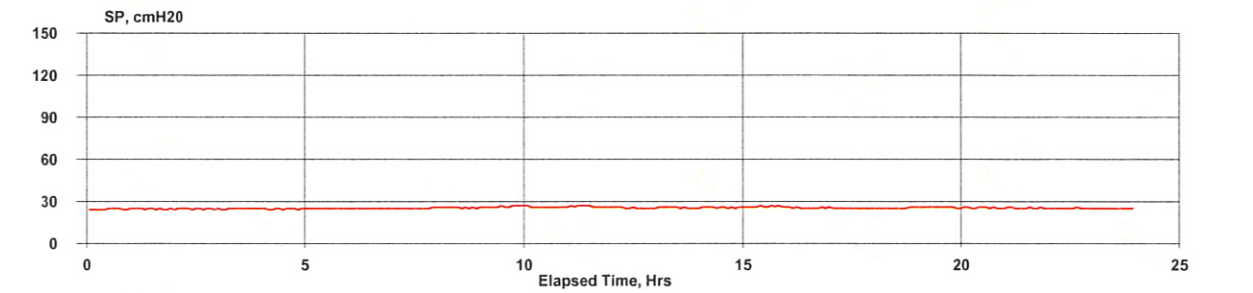
Mass Concentration Data:

Filter ID:	15	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-10-aug	0:05:08	592	17.3	15.1	-2.2	24	16.71
16-10-aug	1:05:08	592	15.2	14.1	-1.1	25	16.71
16-10-aug	2:05:08	592	15.4	13.8	-1.6	25	16.71
16-10-aug	3:05:08	592	15.2	13.3	-1.9	25	16.71
16-10-aug	4:05:08	592	15.4	13.6	-1.9	25	16.71
16-10-aug	5:05:08	592	15.4	13.8	-1.6	25	16.70
16-10-aug	6:05:08	593	15.5	14.2	-1.4	25	16.70
16-10-aug	7:05:08	593	16.8	16.1	-0.7	25	16.71
16-10-aug	8:05:08	593	18.1	18.2	0.1	26	16.70
16-10-aug	9:05:08	593	20.4	21.0	0.7	26	16.71
16-10-aug	10:05:08	593	19.6	19.8	0.1	26	16.71
16-10-aug	11:05:08	593	18.9	19.6	0.7	26	16.71
16-10-aug	12:05:08	593	14.7	14.3	-0.4	25	16.71
16-10-aug	13:05:08	593	14.9	14.3	-0.6	26	16.71
16-10-aug	14:05:08	593	15.6	14.5	-1.1	26	16.72
16-10-aug	15:05:08	593	17.2	18.2	1.1	26	16.71
16-10-aug	16:05:08	594	12.1	11.7	-0.4	25	16.72
16-10-aug	17:05:08	594	12.3	11.0	-1.3	25	16.71
16-10-aug	18:05:08	593	14.2	12.9	-1.3	25	16.71
16-10-aug	19:05:08	593	12.6	12.2	-0.4	26	16.71
16-10-aug	20:05:08	593	11.4	10.6	-0.7	26	16.71
16-10-aug	21:05:08	593	11.2	10.2	-1.0	25	16.72
16-10-aug	22:05:08	593	11.0	9.9	-1.1	25	16.71
16-10-aug	23:05:08	593	10.7	9.4	-1.3	25	16.71

BGI PQ200 Air Sampling System Downloaded 2016 19 aug 10:33:17

Job Details:

Job Name: 16Aug19B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3672:17
Flags:

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

	Max	Min	Avg	Units
BP	595	592	594	mmHg
TA	29.1	9.4	20.2	°C
Q	---	---	16.7	Lpm

QCV 0.5 %
Max overheat 4.8 °C
occured 18-aug 13:24:09

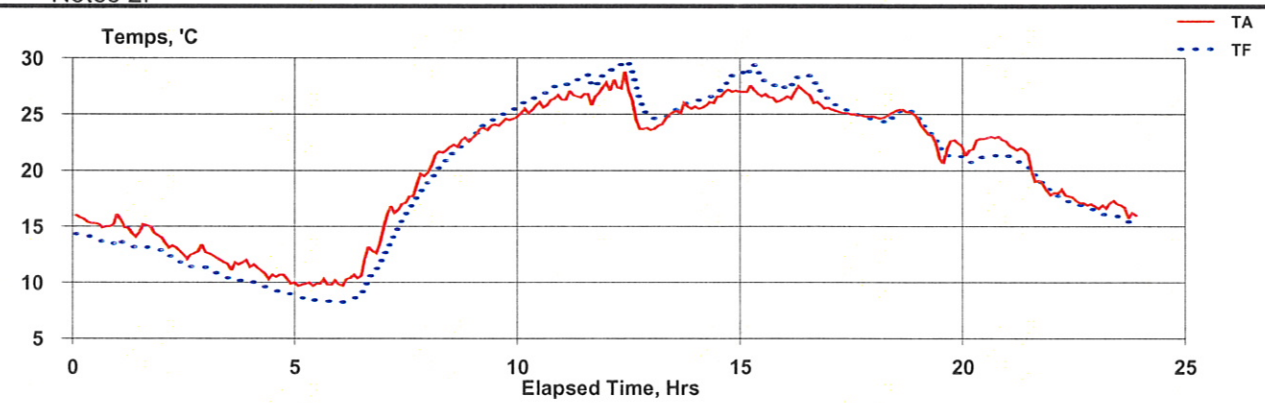
Timer Information:

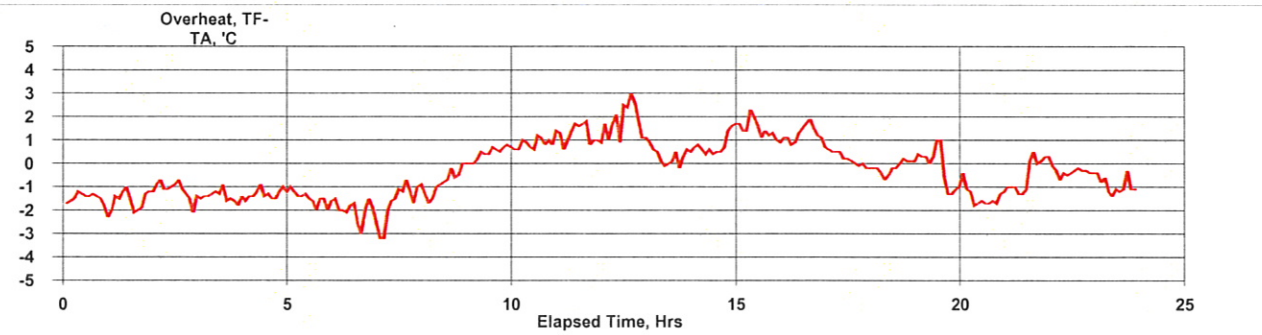
	Date dd-mmm	Time hh:mm:ss
Start:	16-16-aug	0:00:08
Stop:	16-17-aug	0:00:05
ET:	23:59	

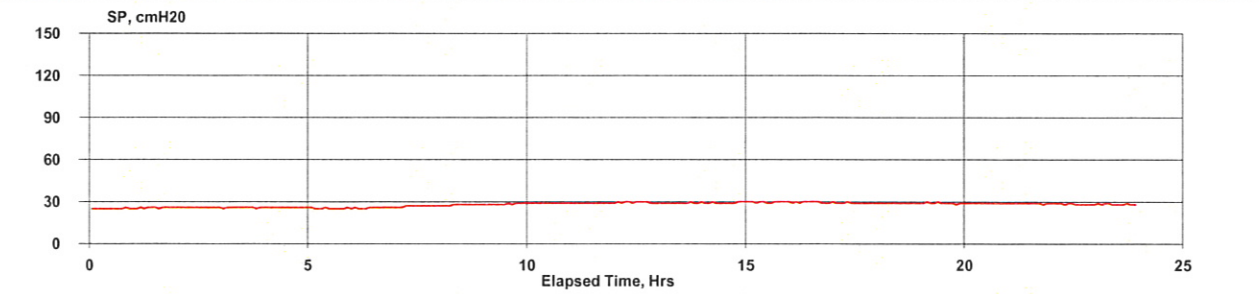
Mass Concentration Data:

Filter ID:	20	
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:







16-16-aug	0:05:08	594	15.4	13.9	-1.5	25	16.70
16-16-aug	1:05:08	594	14.7	13.2	-1.5	26	16.71
16-16-aug	2:05:08	594	12.9	11.7	-1.2	26	16.70
16-16-aug	3:05:08	594	11.9	10.5	-1.4	26	16.70
16-16-aug	4:05:08	594	10.7	9.4	-1.3	26	16.71
16-16-aug	5:05:08	594	9.9	8.4	-1.5	25	16.72
16-16-aug	6:05:08	594	11.8	9.7	-2.1	26	16.71
16-16-aug	7:05:08	595	17.7	16.1	-1.6	27	16.71
16-16-aug	8:05:08	595	22.1	21.3	-0.8	28	16.71
16-16-aug	9:05:08	595	24.1	24.6	0.5	28	16.71
16-16-aug	10:05:08	595	25.8	26.7	0.9	29	16.71
16-16-aug	11:05:08	595	26.8	28.0	1.2	29	16.70
16-16-aug	12:05:08	594	26.0	27.8	1.8	30	16.70
16-16-aug	13:05:08	594	25.0	25.3	0.3	29	16.70
16-16-aug	14:05:08	594	26.5	27.3	0.8	29	16.71
16-16-aug	15:05:08	594	26.7	28.2	1.4	30	16.70
16-16-aug	16:05:08	593	26.4	27.7	1.2	30	16.70
16-16-aug	17:05:08	593	25.0	25.2	0.2	29	16.71
16-16-aug	18:05:08	593	25.0	24.9	-0.2	29	16.71
16-16-aug	19:05:08	593	22.5	22.3	-0.2	29	16.71
16-16-aug	20:05:08	594	22.5	21.1	-1.4	29	16.71
16-16-aug	21:05:08	594	20.3	19.9	-0.5	29	16.71
16-16-aug	22:05:08	594	17.5	17.1	-0.4	28	16.71
16-16-aug	23:05:08	594	16.6	15.7	-0.9	28	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 aug 09:28:12

Job Details:

Job Name: 16Aug25B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3696:16
Flags:

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	25.3	10.2	14.4	°C
Q	---	---	16.7	Lpm

QCV 0.54 %

Max overheat 3.3 °C
occured 22-aug 13:11:15

Timer Information:

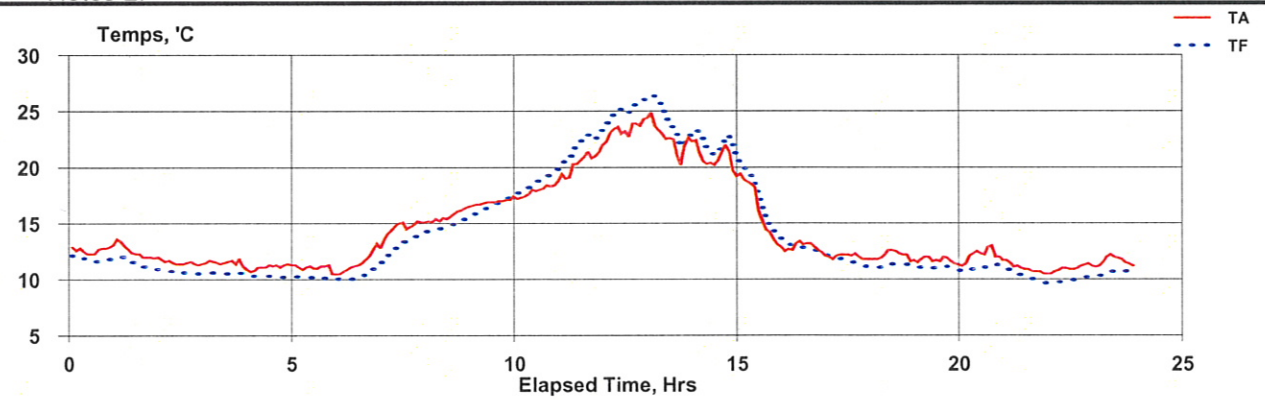
	Date dd-mmm	Time hh:mm:ss
Start:	16-22-aug	0:00:08
Stop:	16-23-aug	0:00:05

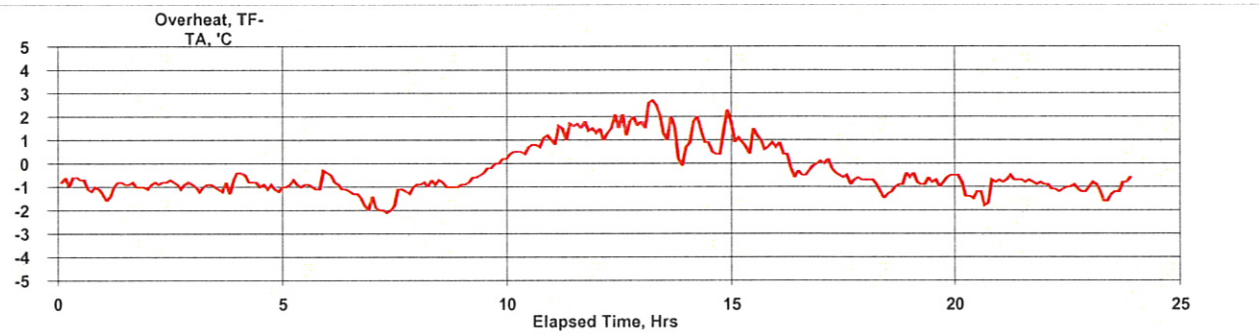
ET: 23:59

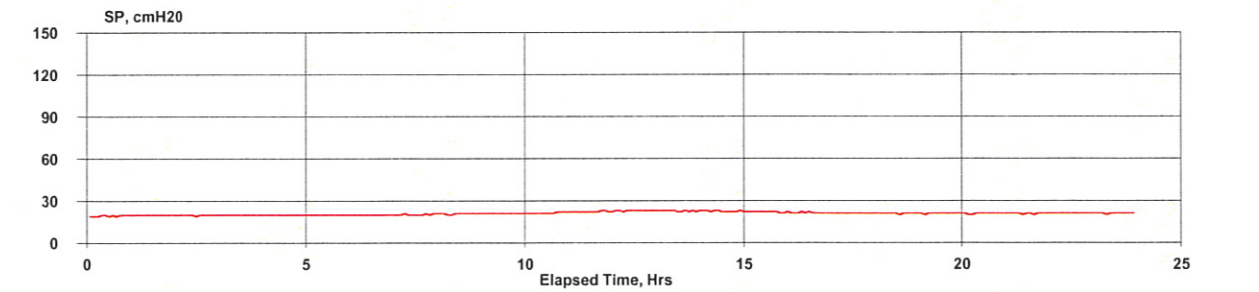
Mass Concentration Data:

Filter ID:	38	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-22-aug	0:05:08	592	12.7	11.8	-0.9	20	16.71
16-22-aug	1:05:08	592	12.5	11.4	-1.0	20	16.71
16-22-aug	2:05:08	592	11.5	10.6	-0.9	20	16.71
16-22-aug	3:05:08	592	11.5	10.5	-1.0	20	16.71
16-22-aug	4:05:08	592	11.1	10.3	-0.9	20	16.71
16-22-aug	5:05:08	592	11.0	10.2	-0.9	20	16.71
16-22-aug	6:05:08	592	11.7	10.4	-1.2	20	16.71
16-22-aug	7:05:08	592	14.7	13.2	-1.5	20	16.71
16-22-aug	8:05:08	593	15.7	14.8	-0.9	21	16.71
16-22-aug	9:05:08	593	16.9	16.6	-0.3	21	16.71
16-22-aug	10:05:08	593	18.0	18.7	0.7	21	16.71
16-22-aug	11:05:08	593	20.5	22.0	1.5	22	16.71
16-22-aug	12:05:08	592	23.5	25.1	1.6	23	16.71
16-22-aug	13:05:08	592	22.6	24.1	1.5	23	16.70
16-22-aug	14:05:08	592	20.8	22.0	1.2	22	16.71
16-22-aug	15:05:08	592	16.1	17.0	0.9	22	16.70
16-22-aug	16:05:08	593	12.8	12.8	-0.1	21	16.71
16-22-aug	17:05:08	593	12.0	11.6	-0.5	21	16.71
16-22-aug	18:05:08	592	12.1	11.2	-0.9	21	16.71
16-22-aug	19:05:08	592	11.7	11.0	-0.7	21	16.71
16-22-aug	20:05:08	592	12.1	11.0	-1.1	21	16.71
16-22-aug	21:05:08	592	11.0	10.2	-0.7	21	16.72
16-22-aug	22:05:08	592	11.0	9.9	-1.1	21	16.71
16-22-aug	23:05:08	592	11.6	10.5	-1.1	21	16.71

BGI PQ200 Air Sampling System Downloaded 2016 29 aug 14:37:38

Job Details:

Job Name: 16Aug29B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3720:15
Flags:

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	22.8	6.6	13.9	°C
Q	---	---	16.7	Lpm

QCV 0.59 %

Max overheat 3.6 °C
occured 28-aug 14:46:31

Timer Information:

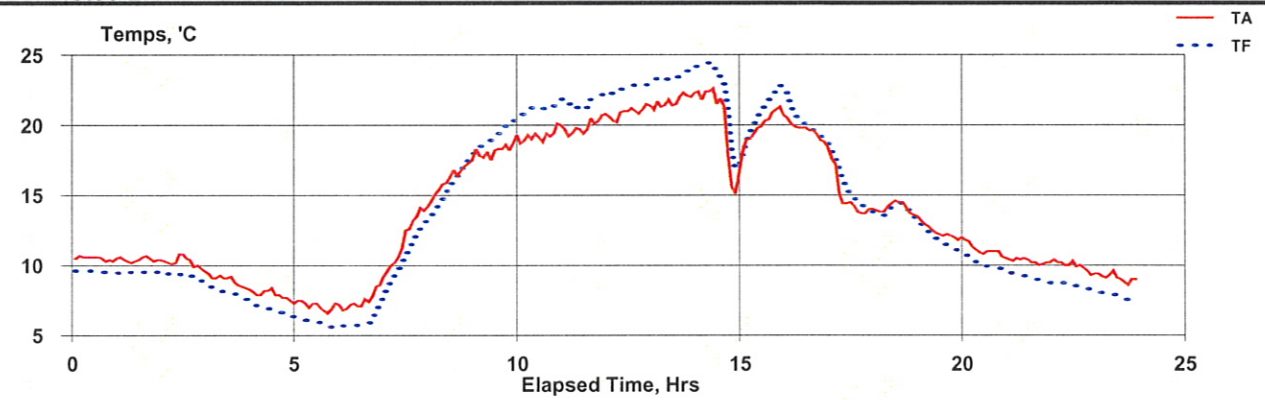
	Date dd-mmm	Time hh:mm:ss
Start:	16-28-aug	0:00:08
Stop:	16-29-aug	0:00:05

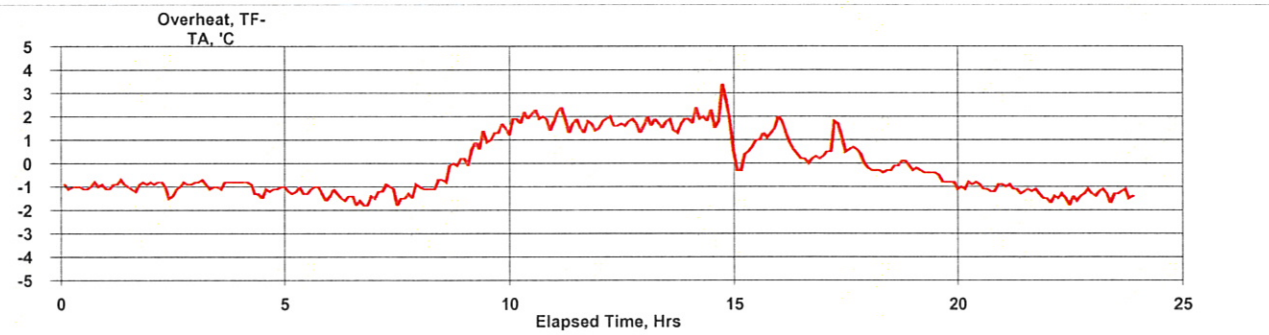
ET: 23:59

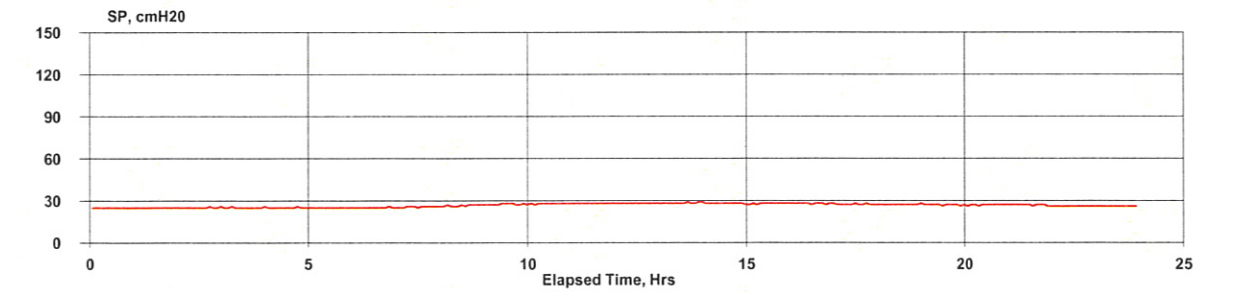
Mass Concentration Data:

Filter ID:	5	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.006	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-28-aug	0:05:08	594	10.5	9.5	-1.0	25	16.71
16-28-aug	1:05:08	594	10.4	9.5	-0.9	25	16.72
16-28-aug	2:05:08	594	10.2	9.2	-1.0	25	16.74
16-28-aug	3:05:08	594	8.9	8.0	-0.9	25	16.74
16-28-aug	4:05:08	594	7.9	6.8	-1.1	25	16.74
16-28-aug	5:05:08	594	7.1	5.9	-1.2	25	16.69
16-28-aug	6:05:08	595	7.6	6.1	-1.5	25	16.70
16-28-aug	7:05:08	595	12.1	10.9	-1.2	26	16.72
16-28-aug	8:05:08	595	16.3	15.7	-0.5	27	16.74
16-28-aug	9:05:08	596	18.3	19.3	1.0	27	16.73
16-28-aug	10:05:08	596	19.3	21.2	1.9	28	16.67
16-28-aug	11:05:08	595	19.9	21.7	1.7	28	16.69
16-28-aug	12:05:08	595	20.9	22.6	1.7	28	16.60
16-28-aug	13:05:08	595	21.7	23.5	1.7	28	16.63
16-28-aug	14:05:08	595	20.1	22.1	2.0	28	16.62
16-28-aug	15:05:08	595	20.0	20.8	0.9	28	16.73
16-28-aug	16:05:08	595	19.5	20.1	0.5	28	16.73
16-28-aug	17:05:08	595	14.7	15.4	0.7	27	16.73
16-28-aug	18:05:08	595	14.1	13.9	-0.2	27	16.72
16-28-aug	19:05:08	595	12.3	11.8	-0.6	27	16.73
16-28-aug	20:05:08	595	11.1	10.1	-1.0	27	16.73
16-28-aug	21:05:08	595	10.3	9.1	-1.2	27	16.73
16-28-aug	22:05:08	595	9.9	8.5	-1.4	26	16.71
16-28-aug	23:05:08	595	9.1	7.8	-1.3	26	16.72

BGI PQ200 Air Sampling System

Downloaded 2016 06 sep 17:11:13

Job Details:

Job Name: 16Sep06B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3744:14
Flags:

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

	Max	Min	Avg	Units
BP	591	588	589	mmHg
TA	24.1	8.7	15.7	°C
Q	---	---	16.71	Lpm

QCV 0.44 %

Max overheat 5.2 °C
occured 03-sep 15:11:13

Timer Information:

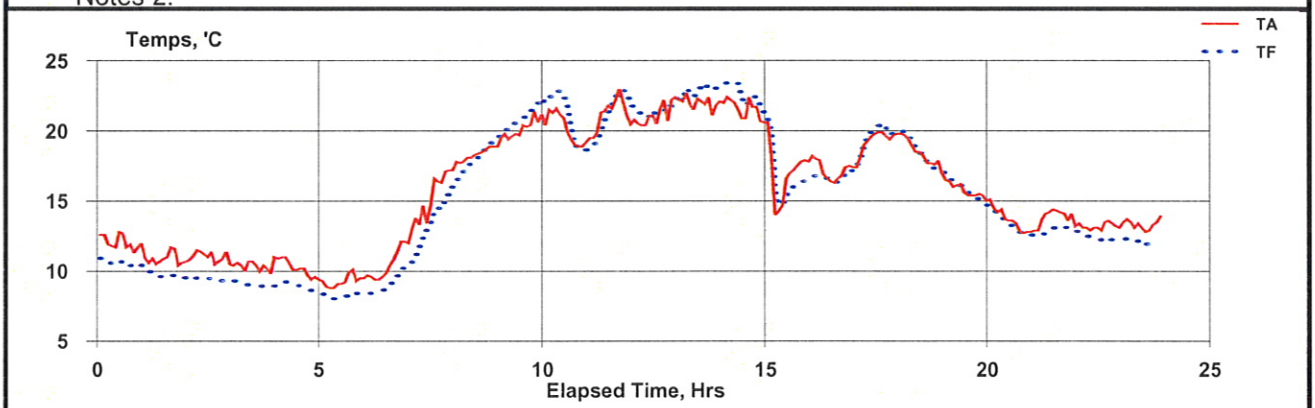
	Date dd-mmm	Time hh:mm:ss
Start:	16-03-sep	0:00:08
Stop:	16-04-sep	0:00:05

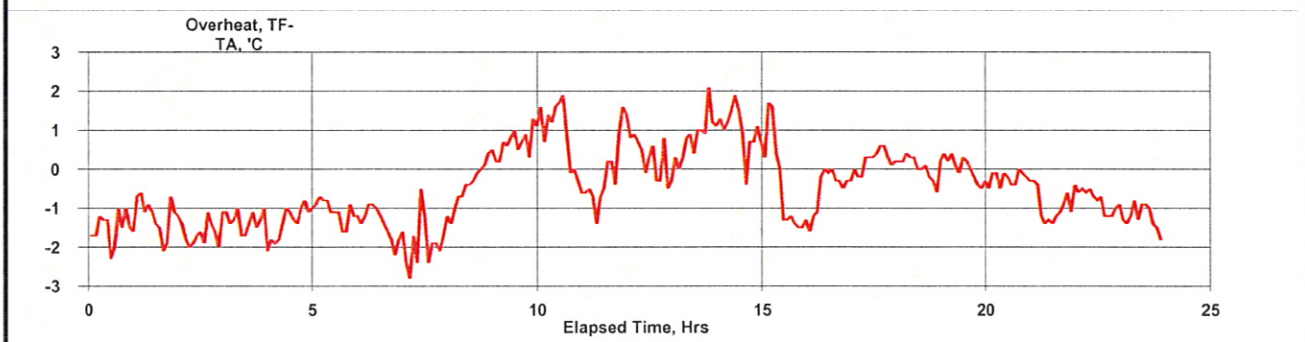
ET: 23:59

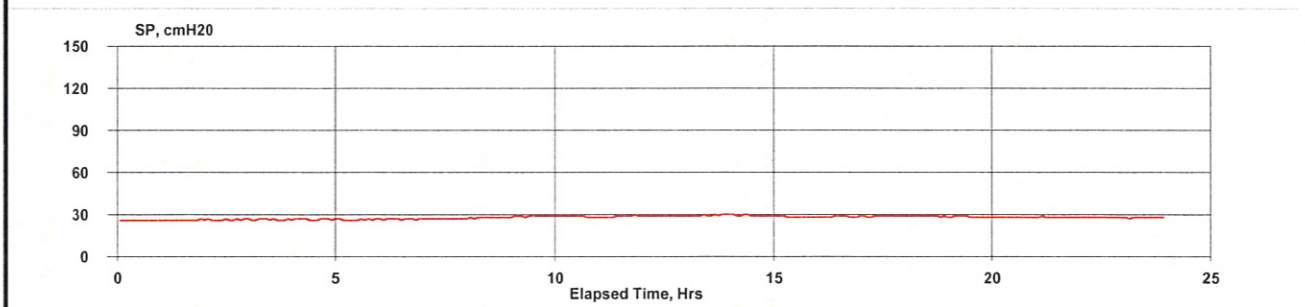
Mass Concentration Data:

Filter ID:	21	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.012	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-03-sep	0:05:08	591	12.1	10.6	-1.5	26	16.73
16-03-sep	1:05:08	591	10.9	9.7	-1.2	26	16.72
16-03-sep	2:05:08	591	11.0	9.4	-1.6	26	16.74
16-03-sep	3:05:08	591	10.4	9.0	-1.4	26	16.74
16-03-sep	4:05:08	591	10.2	8.9	-1.3	27	16.72
16-03-sep	5:05:08	591	9.3	8.2	-1.1	26	16.72
16-03-sep	6:05:08	591	10.5	9.1	-1.4	27	16.71
16-03-sep	7:05:08	591	15.3	13.5	-1.9	27	16.72
16-03-sep	8:05:08	591	18.3	18.0	-0.3	28	16.70
16-03-sep	9:05:08	591	20.2	20.9	0.7	29	16.69
16-03-sep	10:05:08	591	20.2	21.0	0.8	29	16.71
16-03-sep	11:05:08	591	21.2	21.1	0.0	29	16.70
16-03-sep	12:05:08	590	21.2	21.4	0.3	29	16.72
16-03-sep	13:05:08	590	22.0	22.8	0.8	29	16.72
16-03-sep	14:05:08	589	21.6	22.6	1.0	29	16.71
16-03-sep	15:05:08	589	17.0	16.5	-0.5	28	16.69
16-03-sep	16:05:08	589	17.2	16.7	-0.5	28	16.68
16-03-sep	17:05:08	589	19.3	19.5	0.2	29	16.66
16-03-sep	18:05:08	588	18.4	18.5	0.0	29	16.68
16-03-sep	19:05:08	588	15.7	15.8	0.0	28	16.69
16-03-sep	20:05:08	588	13.6	13.4	-0.2	28	16.73
16-03-sep	21:05:08	588	13.8	12.9	-0.9	28	16.69
16-03-sep	22:05:08	588	13.2	12.4	-0.8	28	16.72
16-03-sep	23:05:08	588	13.3	12.1	-1.2	28	16.68

BGI PQ200 Air Sampling System Downloaded 2016 12 sep 14:58:13

Job Details:

Job Name: 16Sep12B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3768:13
Flags:

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

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	28.5	7	18.3	°C
Q	---	---	16.7	Lpm

QCV 0.53 %

Max overheat 3.1 °C
occured 10-sep 15:06:18

Timer Information:

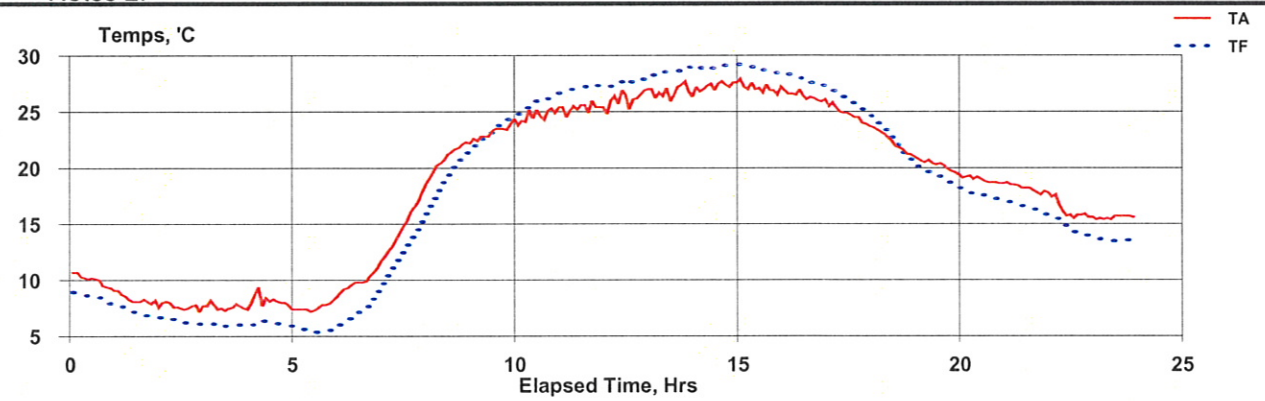
	Date dd-mmm	Time hh:mm:ss
Start:	16-09-sep	0:00:08
Stop:	16-10-sep	0:00:04

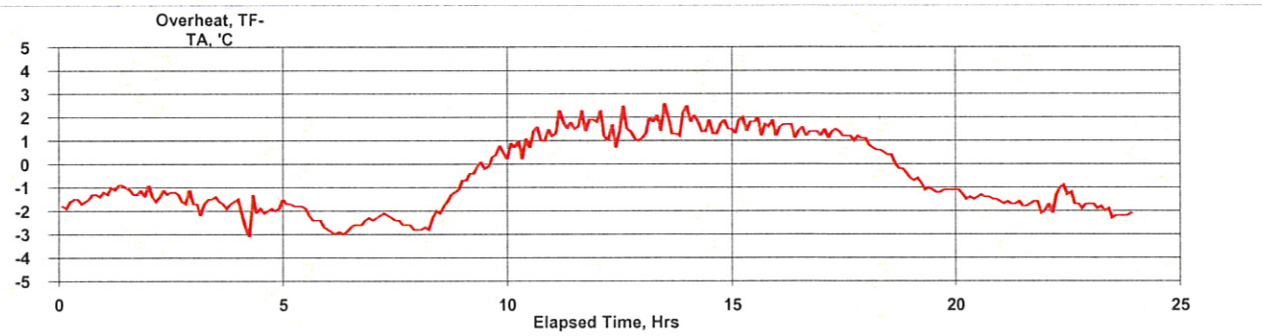
ET: 23:59

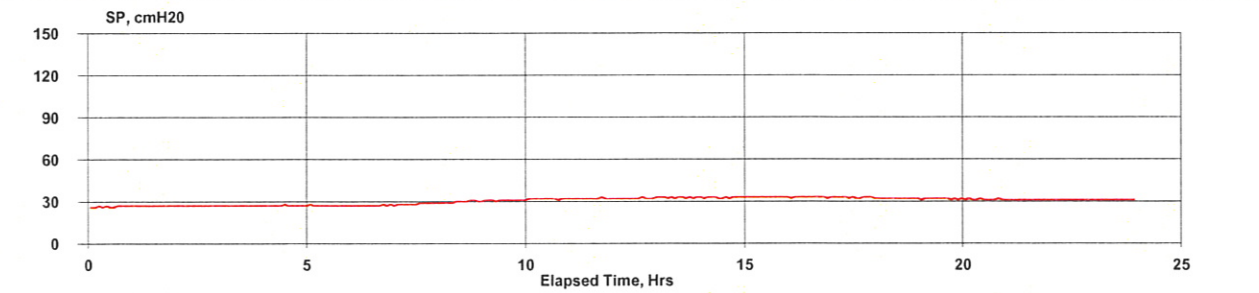
Mass Concentration Data:

Filter ID:	27	
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:







16-09-sep	0:05:08	593	10.0	8.4	-1.5	27	16.71
16-09-sep	1:05:08	593	8.3	7.2	-1.1	27	16.71
16-09-sep	2:05:08	593	7.7	6.3	-1.4	27	16.70
16-09-sep	3:05:08	593	7.6	6.0	-1.7	27	16.71
16-09-sep	4:05:08	593	8.2	6.1	-2.1	27	16.71
16-09-sep	5:05:08	593	7.7	5.5	-2.1	27	16.71
16-09-sep	6:05:08	594	10.0	7.3	-2.7	27	16.70
16-09-sep	7:05:08	594	15.1	12.7	-2.4	29	16.71
16-09-sep	8:05:08	594	21.1	19.2	-1.9	30	16.71
16-09-sep	9:05:08	594	23.2	23.3	0.0	31	16.70
16-09-sep	10:05:08	594	24.7	25.7	1.0	32	16.71
16-09-sep	11:05:08	594	25.3	27.1	1.8	32	16.70
16-09-sep	12:05:08	594	26.2	27.6	1.4	32	16.70
16-09-sep	13:05:08	594	26.8	28.6	1.8	33	16.70
16-09-sep	14:05:08	594	27.3	28.9	1.6	33	16.71
16-09-sep	15:05:08	594	27.1	28.8	1.7	33	16.71
16-09-sep	16:05:08	594	26.4	27.8	1.5	33	16.71
16-09-sep	17:05:08	594	24.7	26.0	1.2	33	16.71
16-09-sep	18:05:08	594	22.3	22.5	0.2	32	16.70
16-09-sep	19:05:08	594	20.2	19.2	-1.0	32	16.71
16-09-sep	20:05:08	595	18.9	17.5	-1.4	31	16.70
16-09-sep	21:05:08	595	18.2	16.4	-1.7	31	16.71
16-09-sep	22:05:08	595	16.1	14.6	-1.5	31	16.71
16-09-sep	23:05:08	595	15.6	13.5	-2.0	31	16.70

BGI PQ200 Air Sampling System Downloaded 2016 16 sep 14:03:29

Job Details:

Job Name: 16Sep16B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3792:13
Flags:

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	21.7	0.7	12	°C
Q	---	---	16.71	Lpm

QCV 0.55 %

Max overheat 2.4 °C
occured 15-sep 11:03:32

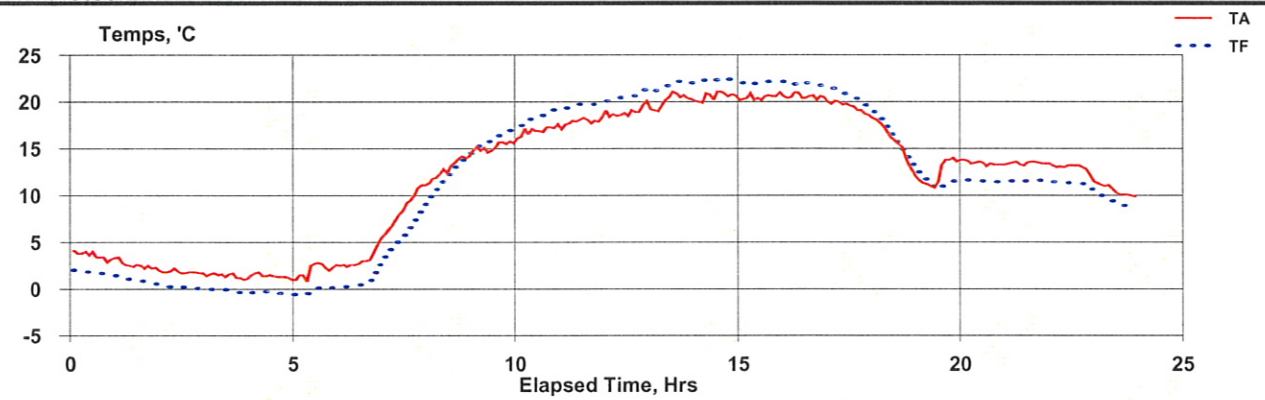
Timer Information:

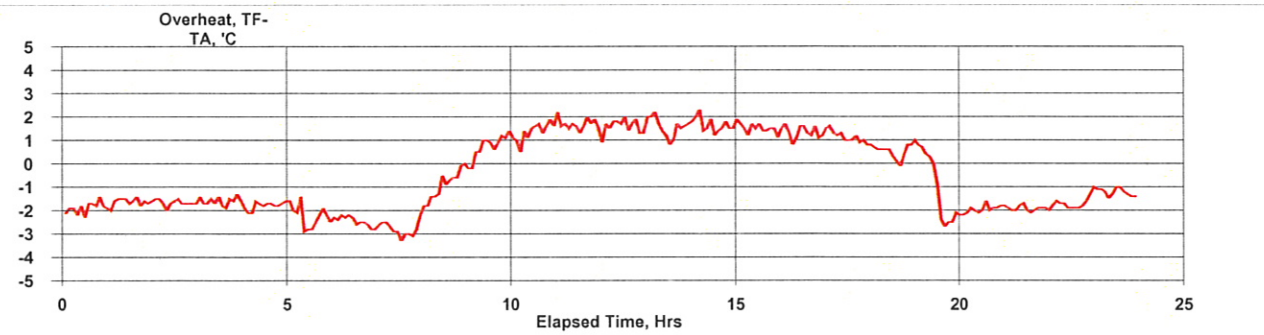
	Date dd-mmm	Time hh:mm:ss
Start:	16-15-sep	0:00:08
Stop:	16-16-sep	0:00:04
ET:	24:00:00	

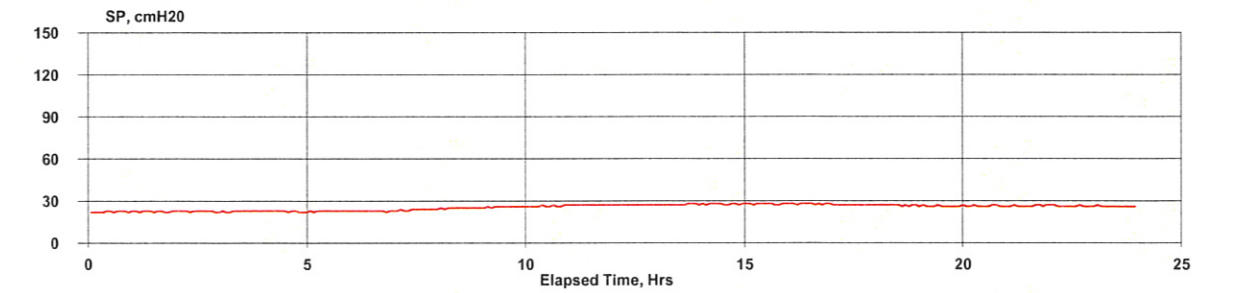
Mass Concentration Data:

Filter ID:	10	
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:







16-15-sep	0:04:44	592	3.6	1.7	-1.9	23	16.71
16-15-sep	1:04:44	592	2.5	0.9	-1.6	23	16.71
16-15-sep	2:04:44	592	1.8	0.2	-1.7	23	16.72
16-15-sep	3:04:44	592	1.4	-0.2	-1.6	23	16.71
16-15-sep	4:04:44	592	1.4	-0.4	-1.8	23	16.72
16-15-sep	5:04:44	592	2.1	-0.2	-2.2	23	16.71
16-15-sep	6:04:44	593	3.2	0.7	-2.5	23	16.72
16-15-sep	7:04:44	593	8.7	5.9	-2.8	24	16.71
16-15-sep	8:04:44	593	13.0	12.0	-0.9	25	16.71
16-15-sep	9:04:44	593	15.2	16.0	0.7	26	16.71
16-15-sep	10:04:44	593	16.9	18.3	1.4	26	16.71
16-15-sep	11:04:44	593	17.9	19.6	1.7	27	16.71
16-15-sep	12:04:44	593	18.9	20.5	1.6	27	16.71
16-15-sep	13:04:44	592	20.1	21.7	1.6	27	16.71
16-15-sep	14:04:44	592	20.6	22.2	1.7	28	16.71
16-15-sep	15:04:44	592	20.5	22.0	1.5	28	16.72
16-15-sep	16:04:44	591	20.6	21.9	1.3	28	16.71
16-15-sep	17:04:44	591	19.5	20.7	1.2	27	16.71
16-15-sep	18:04:44	591	15.9	16.5	0.5	27	16.70
16-15-sep	19:04:44	592	12.3	11.5	-0.8	26	16.71
16-15-sep	20:04:44	592	13.5	11.5	-2.0	26	16.71
16-15-sep	21:04:44	592	13.4	11.5	-1.9	26	16.71
16-15-sep	22:04:44	592	13.0	11.3	-1.8	26	16.71
16-15-sep	23:04:44	592	10.6	9.4	-1.2	26	16.71

BGI PQ200 Air Sampling System Downloaded 2016 23 sep 13:24:15

Job Details:

Job Name: 16Sep23B.JOB
Version: 5.62
Serial No: 963
Pump Time: 3816:12
Flags:

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

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	13.7	10.9	12.4	°C
Q	---	---	16.7	Lpm

QCV 0.55 %

Max overheat 5.2 °C
occured 22-sep 17:54:03

Timer Information:

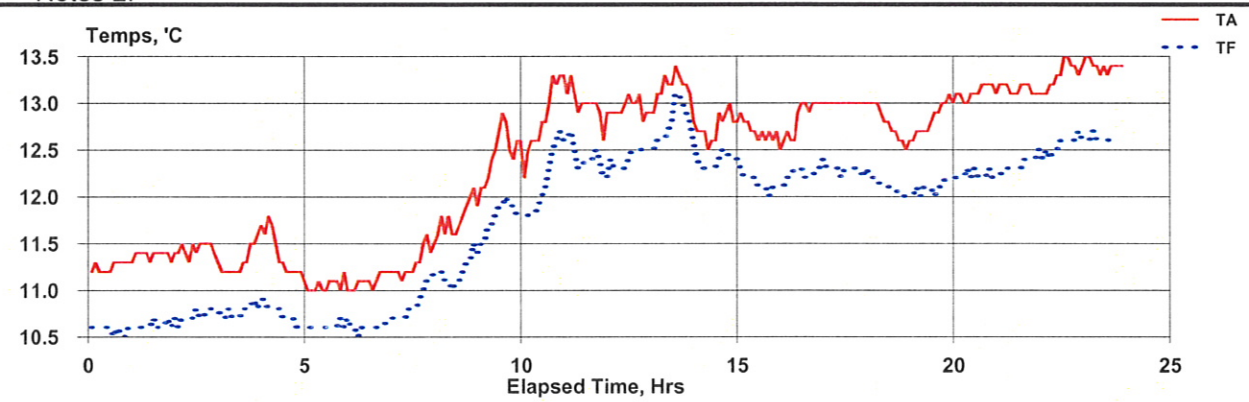
	Date dd-mmm	Time hh:mm:ss
Start:	16-21-sep	0:00:08
Stop:	16-22-sep	0:00:05

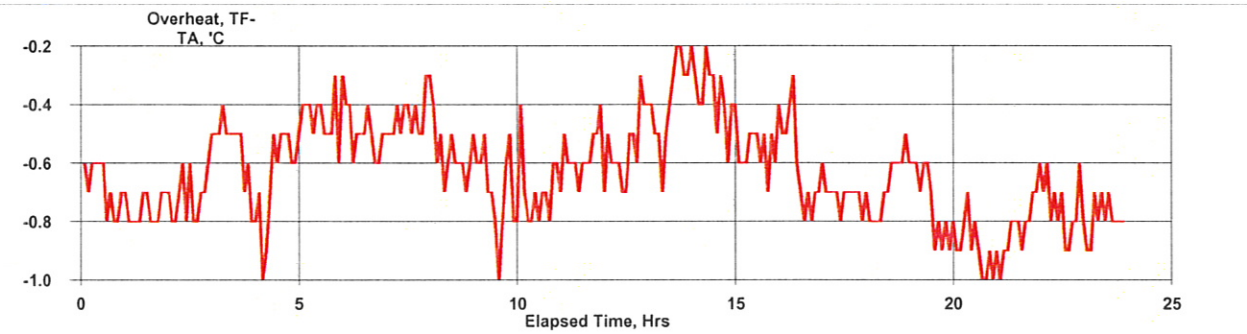
ET: 23:59

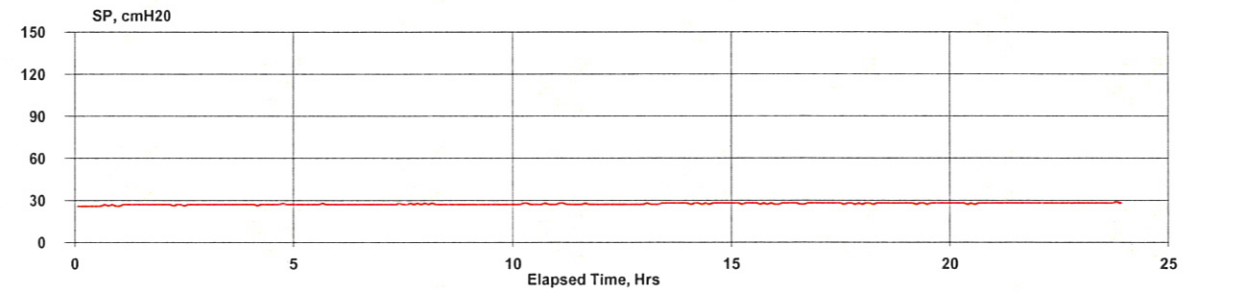
Mass Concentration Data:

Filter ID:	16	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-21-sep	0:05:08	593	11.3	10.6	-0.7	26	16.71
16-21-sep	1:05:08	593	11.4	10.6	-0.8	27	16.71
16-21-sep	2:05:08	593	11.4	10.7	-0.7	27	16.71
16-21-sep	3:05:08	593	11.3	10.8	-0.6	27	16.72
16-21-sep	4:05:08	593	11.4	10.7	-0.6	27	16.71
16-21-sep	5:05:08	592	11.1	10.6	-0.4	27	16.71
16-21-sep	6:05:08	592	11.1	10.6	-0.5	27	16.71
16-21-sep	7:05:08	593	11.3	10.9	-0.4	27	16.71
16-21-sep	8:05:08	593	11.8	11.2	-0.6	27	16.69
16-21-sep	9:05:08	593	12.5	11.8	-0.7	27	16.71
16-21-sep	10:05:08	593	12.9	12.2	-0.7	27	16.70
16-21-sep	11:05:08	592	13.0	12.4	-0.6	27	16.71
16-21-sep	12:05:08	592	13.0	12.4	-0.5	27	16.71
16-21-sep	13:05:08	592	13.2	12.8	-0.4	28	16.72
16-21-sep	14:05:08	592	12.8	12.4	-0.4	28	16.71
16-21-sep	15:05:08	591	12.7	12.1	-0.5	28	16.71
16-21-sep	16:05:08	591	12.9	12.3	-0.6	28	16.71
16-21-sep	17:05:08	591	13.0	12.3	-0.7	28	16.72
16-21-sep	18:05:08	591	12.8	12.1	-0.7	28	16.71
16-21-sep	19:05:08	591	12.8	12.1	-0.7	28	16.71
16-21-sep	20:05:08	591	13.1	12.2	-0.9	28	16.71
16-21-sep	21:05:08	591	13.2	12.3	-0.8	28	16.71
16-21-sep	22:05:08	590	13.3	12.6	-0.8	28	16.71
16-21-sep	23:05:08	590	13.4	12.6	-0.8	28	16.71

BGI PQ200 Air Sampling System Downloaded 2016 29 sep 13:45:22

Job Details:

Job Name:	16Sep29B.JOB
Version:	5.62
Serial No:	964
Pump Time:	5976:47
Flags:	

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

	Max	Min	Avg	Units
BP	598	595	596	mmHg
TA	22	3.8	12.9	°C
Q	---	---	16.7	Lpm

QCV	0.56 %
Max overheat	3.5 °C
occured	29-sep 13:16:58

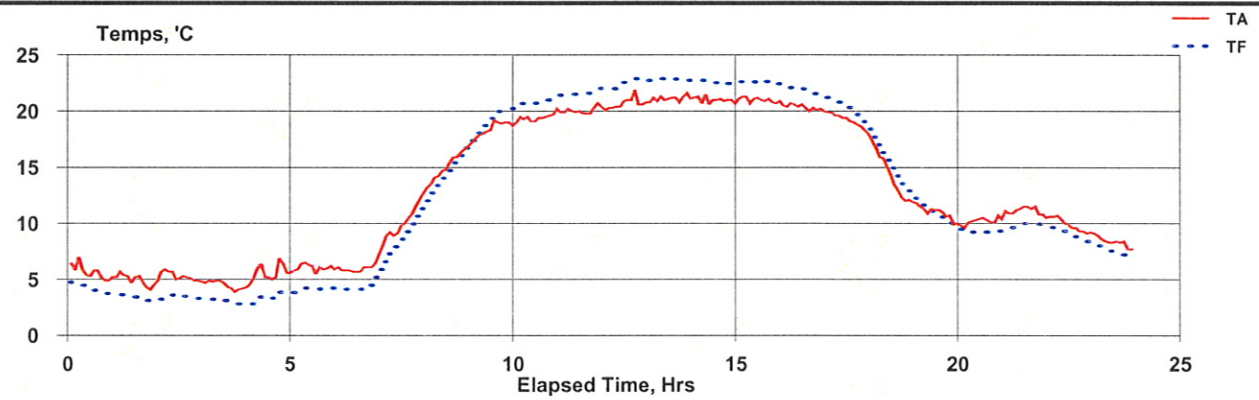
Timer Information:

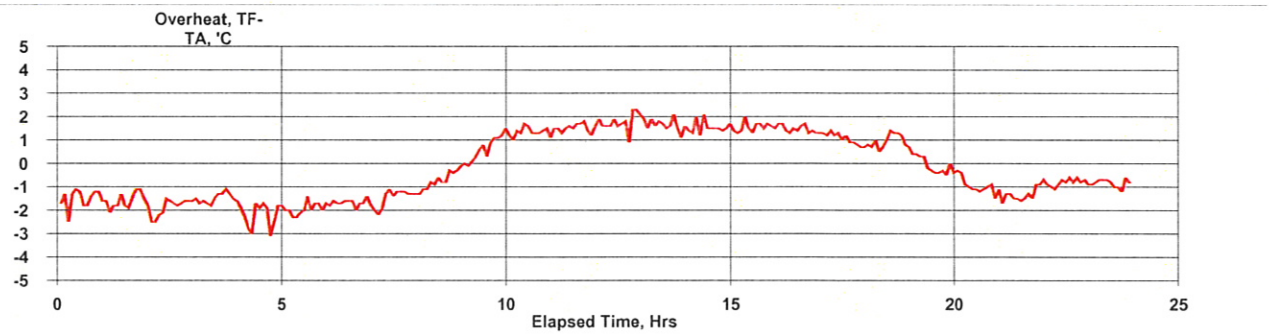
	Date dd-mmm	Time hh:mm:ss
Start:	16-27-sep	0:00:08
Stop:	16-28-sep	0:00:05
ET:	23:59	

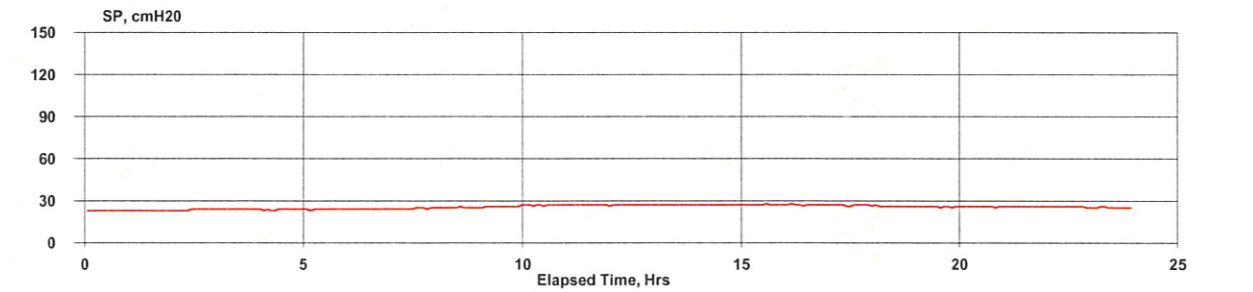
Mass Concentration Data:

Filter ID:	33	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-27-sep	0:05:08	597	5.6	4.1	-1.5	23	16.71
16-27-sep	1:05:08	597	5.0	3.4	-1.6	23	16.71
16-27-sep	2:05:08	597	5.3	3.4	-1.9	24	16.72
16-27-sep	3:05:08	597	4.5	3.0	-1.5	24	16.71
16-27-sep	4:05:08	597	5.6	3.4	-2.2	24	16.70
16-27-sep	5:05:08	597	6.1	4.1	-1.9	24	16.71
16-27-sep	6:05:08	597	6.0	4.4	-1.7	24	16.72
16-27-sep	7:05:08	597	10.2	8.7	-1.5	24	16.70
16-27-sep	8:05:08	597	15.1	14.4	-0.7	25	16.71
16-27-sep	9:05:08	597	18.4	19.1	0.6	26	16.71
16-27-sep	10:05:08	597	19.4	20.8	1.3	27	16.71
16-27-sep	11:05:08	596	20.1	21.6	1.5	27	16.71
16-27-sep	12:05:08	596	20.7	22.5	1.8	27	16.71
16-27-sep	13:05:08	596	21.1	22.8	1.7	27	16.72
16-27-sep	14:05:08	595	21.0	22.6	1.6	27	16.71
16-27-sep	15:05:08	595	21.0	22.6	1.6	27	16.71
16-27-sep	16:05:08	595	20.3	21.8	1.5	27	16.71
16-27-sep	17:05:08	595	19.1	20.2	1.1	27	16.71
16-27-sep	18:05:08	595	14.2	15.1	1.0	26	16.71
16-27-sep	19:05:08	595	11.0	10.9	-0.1	26	16.71
16-27-sep	20:05:08	595	10.2	9.2	-1.0	26	16.71
16-27-sep	21:05:08	596	11.1	9.8	-1.3	26	16.71
16-27-sep	22:05:08	596	9.9	9.0	-0.8	26	16.71
16-27-sep	23:05:08	596	8.4	7.5	-0.8	25	16.71

Collocated Monitor 964C

PM_{10} Sampler Summary

July 1, 2016 - September 30, 2016

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

AQS ID:

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
07/05/16	P2930769	**18.2**	**23.0**	23:59	24.0	19.1	375.913	376.352	0.439		
07/11/16	P2930774	**51.2**	**64.4**	23:59	24.0	19.1	372.381	373.613	1.232	HT	
07/17/16	P2930992	**15.3**	**19.3**	23:59	24.0	19.0	365.520	365.888	0.368	HT	
07/23/16	P2930997	**22.2**	**28.2**	23:59	24.0	18.9	365.580	366.114	0.534		
07/29/16	P2931002	**68.2**	**86.9**	23:59	24.0	18.9	379.098	380.738	1.640		
08/04/16	P2931179	**13.8**	**17.2**	23:59	24.0	19.4	382.704	383.038	0.334	HT	
08/10/16	P2931184	**17.5**	**21.7**	23:59	24.0	19.4	371.421	371.844	0.423	HT	
08/16/16	P2931430	**51.2**	**64.4**	23:59	24.0	19.1	384.246	385.478	1.232		Smudged
08/22/16	P2931437	**36.6**	**45.3**	23:59	24.0	19.5	386.713	387.595	0.882		
08/28/16	P2931713	**4.2**	**5.1**	23:59	24.0	19.6	387.939	388.040	0.101		
09/03/16	P2931718	**12.0**	**15.0**	23:59	24.0	19.3	369.854	370.144	0.290	HT	
09/09/16	P2931723	**30.7**	**38.4**	23:59	24.0	19.2	374.877	375.616	0.739		Much lighter
09/15/16	P2932015	**39.3**	**48.1**	24:00	24.0	19.6	373.451	374.396	0.945		
09/21/16	P2932022	**3.6**	**4.4**	23:59	24.0	19.6	379.026	379.113	0.087		
09/27/16	P2933159	**40.5**	**49.9**	23:59	24.0	19.5	377.907	378.882	0.975		Darker
08/05/16	P2931188		**Field Blank**				379.797	379.800	0.003		

# Valid	Recovery	Average	St. Dev.	Max	Min
15	**100%**	**35.4**	**24.0**	**86.9**	**4.4**

BGI PQ200 Air Sampling System Downloaded 2016_07 jul_13:11:00

Job Details:

Job Name: 16Jul07C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5641:00
Flags:

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	30.6	9.9	20.7	°C
Q	---	---	16.71	Lpm

QCV 0.56 %

Max overheat 2.6 °C
occured 05-jul 14:35:03

Timer Information:

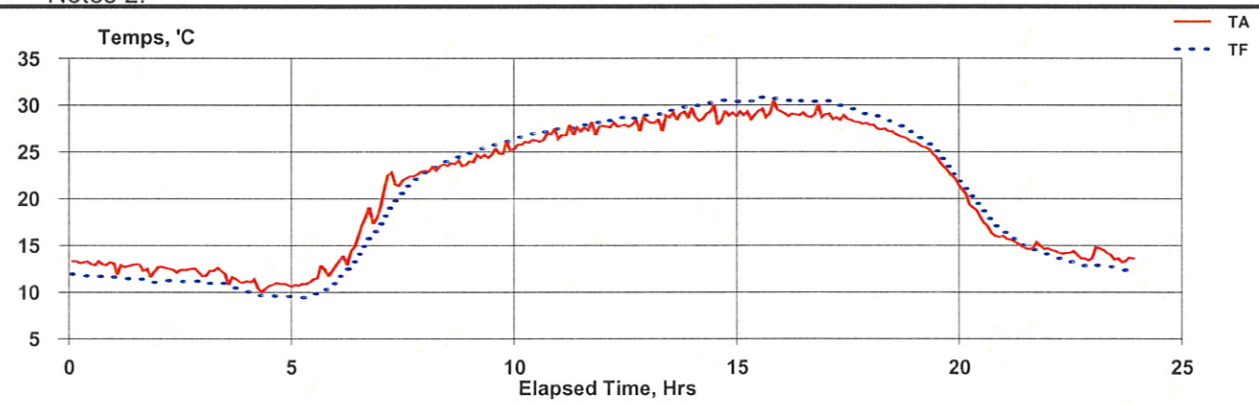
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jul	0:00:08
Stop:	16-06-jul	0:00:04

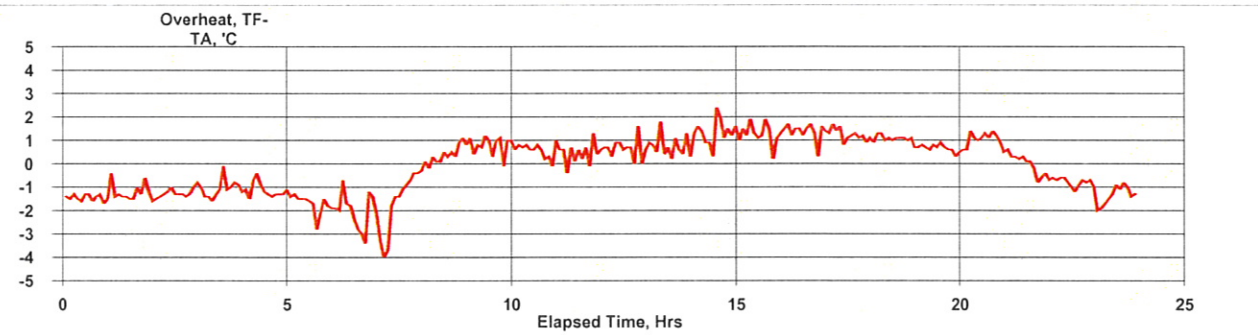
ET: 23:59

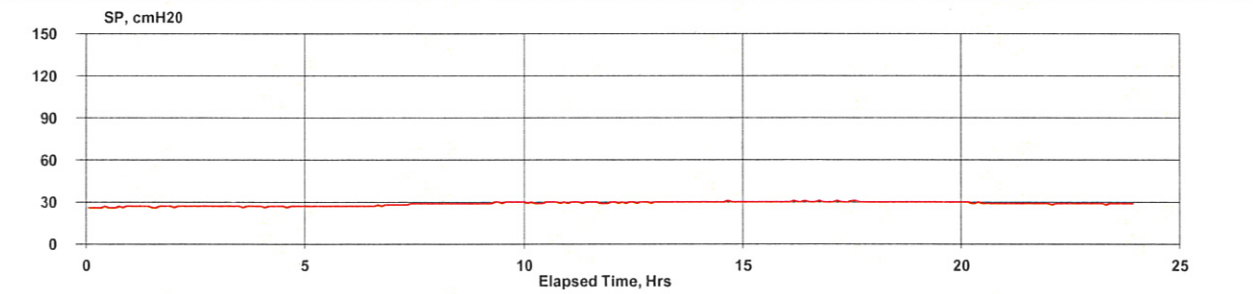
Mass Concentration Data:

Filter ID:	15	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-05-jul	0:05:08	595	13.1	11.7	-1.5	26	16.71
16-05-jul	1:05:08	595	12.5	11.3	-1.2	27	16.72
16-05-jul	2:05:08	595	12.4	11.1	-1.2	27	16.71
16-05-jul	3:05:08	595	11.7	10.6	-1.1	27	16.72
16-05-jul	4:05:08	595	10.8	9.6	-1.1	27	16.71
16-05-jul	5:05:08	595	11.6	9.9	-1.7	27	16.71
16-05-jul	6:05:08	595	16.2	14.1	-2.0	27	16.71
16-05-jul	7:05:08	595	22.2	20.6	-1.6	29	16.71
16-05-jul	8:05:08	595	23.6	24.0	0.4	29	16.71
16-05-jul	9:05:08	595	24.9	25.7	0.8	30	16.71
16-05-jul	10:05:08	595	26.4	26.9	0.6	30	16.71
16-05-jul	11:05:08	595	27.4	27.8	0.4	30	16.71
16-05-jul	12:05:08	595	27.9	28.6	0.6	30	16.71
16-05-jul	13:05:08	594	28.7	29.4	0.7	30	16.71
16-05-jul	14:05:08	594	28.9	30.2	1.4	30	16.71
16-05-jul	15:05:08	594	29.3	30.5	1.3	30	16.71
16-05-jul	16:05:08	593	29.0	30.4	1.4	30	16.72
16-05-jul	17:05:08	593	28.4	29.6	1.2	30	16.70
16-05-jul	18:05:08	593	27.0	28.0	1.1	30	16.71
16-05-jul	19:05:08	593	24.0	24.7	0.7	30	16.71
16-05-jul	20:05:08	593	17.9	18.9	1.0	29	16.71
16-05-jul	21:05:08	593	15.0	15.0	-0.1	29	16.71
16-05-jul	22:05:08	594	14.0	13.2	-0.8	29	16.71
16-05-jul	23:05:08	594	13.9	12.6	-1.4	29	16.70

BGI PQ200 Air Sampling System

Downloaded 2016 12 jul 11:30:12

Job Details:

Job Name:	16Jul12C.JOB	Job Code:	
Version:	5.62	Site Name:	964C
Serial No:	964	Station Code:	
Pump Time:	5664:59	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	593	589	592	mmHg
TA	28.8	8.4	18.6	°C
Q	---	---	16.7	Lpm
QCV			0.52	%
Max overheat			2.9	°C
occured	11-jul 15:20:06			

Timer Information:

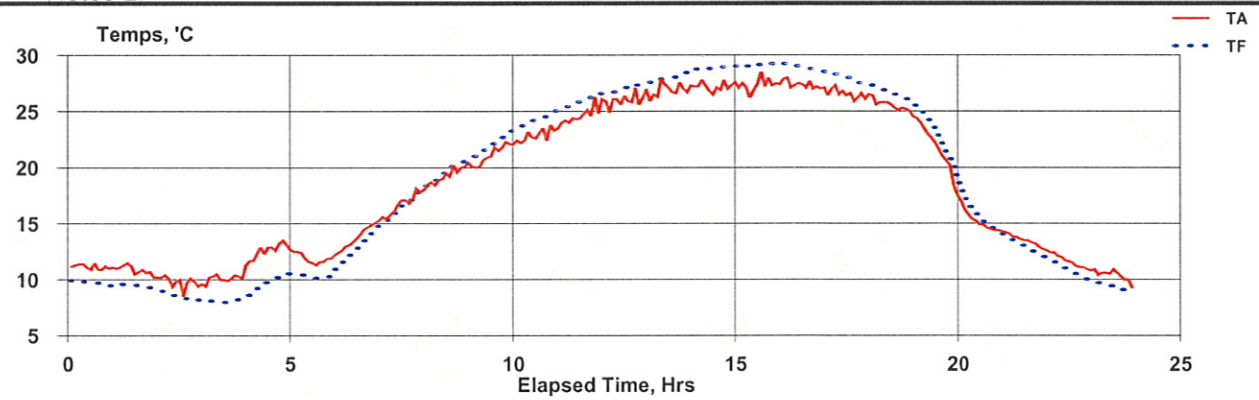
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jul	0:00:08
Stop:	16-12-jul	0:00:05
ET:	23:59	

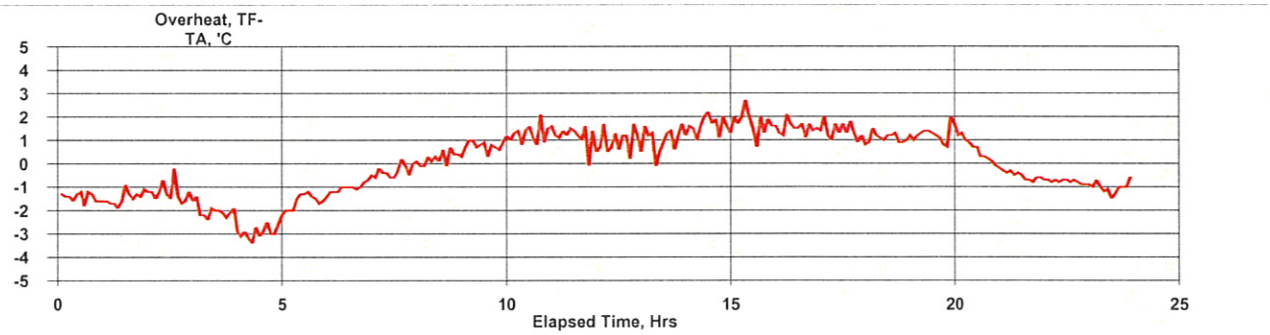
Mass Concentration Data:

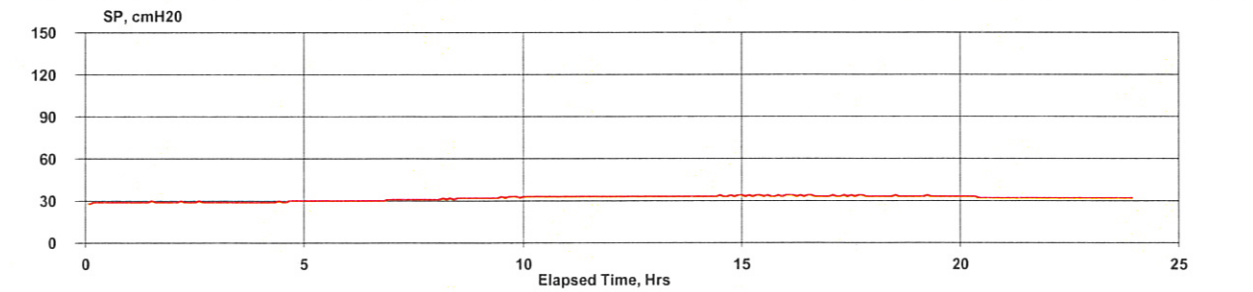
Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-11-jul	0:05:08	591	11.2	9.7	-1.4	29	16.71
16-11-jul	1:05:08	591	10.8	9.4	-1.4	29	16.72
16-11-jul	2:05:08	591	9.7	8.5	-1.3	29	16.72
16-11-jul	3:05:08	591	10.2	8.1	-2.1	29	16.71
16-11-jul	4:05:08	592	12.7	9.8	-2.9	30	16.70
16-11-jul	5:05:08	592	11.9	10.3	-1.6	30	16.71
16-11-jul	6:05:08	592	13.9	12.9	-1.0	30	16.71
16-11-jul	7:05:08	593	16.8	16.5	-0.3	31	16.72
16-11-jul	8:05:08	593	19.4	19.6	0.2	32	16.71
16-11-jul	9:05:08	593	21.2	22.0	0.8	32	16.71
16-11-jul	10:05:08	593	22.9	24.2	1.3	33	16.71
16-11-jul	11:05:08	593	24.8	25.9	1.1	33	16.72
16-11-jul	12:05:08	592	26.1	27.0	1.0	33	16.72
16-11-jul	13:05:08	592	26.9	28.0	1.1	33	16.70
16-11-jul	14:05:08	592	27.2	28.8	1.6	33	16.70
16-11-jul	15:05:08	592	27.3	29.1	1.8	34	16.70
16-11-jul	16:05:08	592	27.4	28.9	1.5	33	16.71
16-11-jul	17:05:08	592	26.5	27.9	1.4	33	16.71
16-11-jul	18:05:08	592	25.5	26.6	1.1	33	16.71
16-11-jul	19:05:08	592	21.6	22.8	1.3	33	16.71
16-11-jul	20:05:08	592	15.1	15.7	0.5	32	16.70
16-11-jul	21:05:08	592	13.4	12.9	-0.5	32	16.69
16-11-jul	22:05:08	592	11.6	10.8	-0.8	32	16.68
16-11-jul	23:05:08	593	10.4	9.3	-1.0	32	16.68

BGI PQ200 Air Sampling System Downloaded 2016 19 jul 09:04:12

Job Details:

Job Name: 16Jul19C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5688:58
Flags:

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

	Max	Min	Avg	Units
BP	596	591	594	mmHg
TA	31.6	11.3	21.6	°C
Q	---	---	16.7	Lpm

QCV 0.57 %
Max overheat 4.5 °C
occured 18-jul 13:32:23

Timer Information:

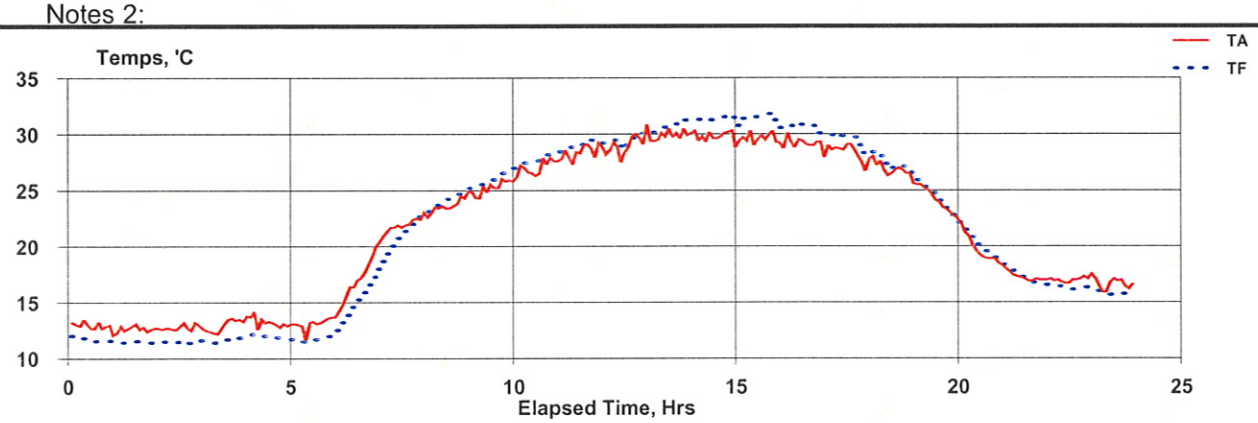
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jul	0:00:08
Stop:	16-18-jul	0:00:04

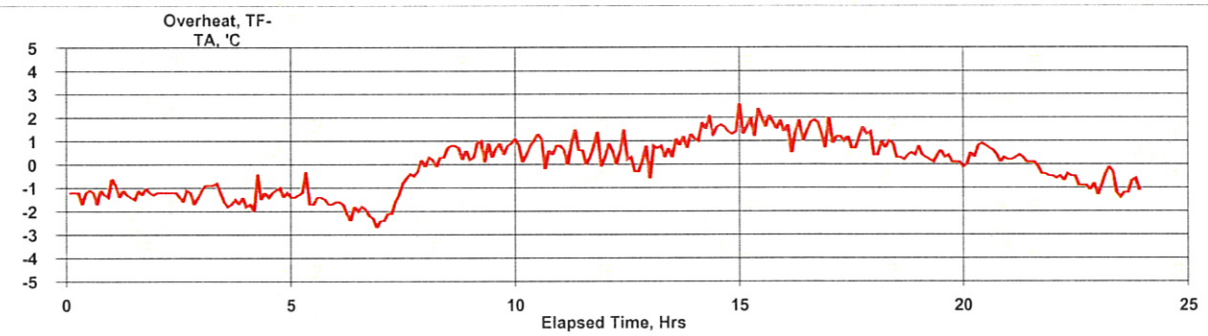
ET: 23:59

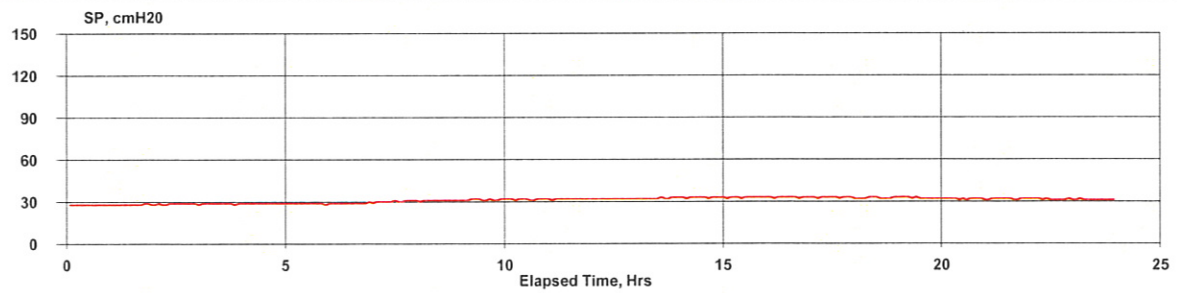
Mass Concentration Data:

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

Notes 1:
Notes 2:







16-17-jul	0:05:08	594	12.9	11.7	-1.2	28	16.71
16-17-jul	1:05:08	593	12.7	11.5	-1.2	28	16.71
16-17-jul	2:05:08	594	12.8	11.5	-1.3	29	16.72
16-17-jul	3:05:08	594	13.0	11.7	-1.4	29	16.71
16-17-jul	4:05:08	594	13.2	11.9	-1.3	29	16.71
16-17-jul	5:05:08	594	13.2	11.8	-1.4	29	16.72
16-17-jul	6:05:08	594	17.3	15.2	-2.1	29	16.71
16-17-jul	7:05:08	595	22.0	21.0	-1.0	30	16.71
16-17-jul	8:05:08	595	23.7	24.1	0.4	31	16.72
16-17-jul	9:05:08	595	25.3	26.0	0.7	32	16.71
16-17-jul	10:05:08	595	27.1	27.7	0.7	32	16.70
16-17-jul	11:05:08	595	28.4	29.0	0.6	32	16.71
16-17-jul	12:05:08	595	29.1	29.4	0.3	32	16.71
16-17-jul	13:05:08	595	29.9	30.7	0.8	32	16.71
16-17-jul	14:05:08	595	29.8	31.4	1.6	33	16.71
16-17-jul	15:05:08	594	29.6	31.4	1.7	33	16.71
16-17-jul	16:05:08	594	29.1	30.6	1.5	33	16.71
16-17-jul	17:05:08	594	28.4	29.4	1.1	33	16.72
16-17-jul	18:05:08	594	26.8	27.4	0.6	32	16.71
16-17-jul	19:05:08	595	24.1	24.3	0.2	32	16.71
16-17-jul	20:05:08	595	19.6	20.1	0.5	32	16.71
16-17-jul	21:05:08	596	17.2	17.2	0.0	32	16.71
16-17-jul	22:05:08	596	17.0	16.3	-0.8	31	16.71
16-17-jul	23:05:08	596	16.6	15.7	-0.8	31	16.70

BGI PQ200 Air Sampling System

Downloaded 2016 25 jul 14:07:55

Job Details:

Job Name:	16Jul25C.JOB
Version:	5.62
Serial No:	964
Pump Time:	5712:57
Flags:	

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

	Max	Min	Avg	Units
BP	597	593	595	mmHg
TA	34.1	12.1	24	°C
Q	---	---	16.7	Lpm

QCV	0.57 %
Max overheat	5.6 °C
occured	24-jul 16:39:53

Timer Information:

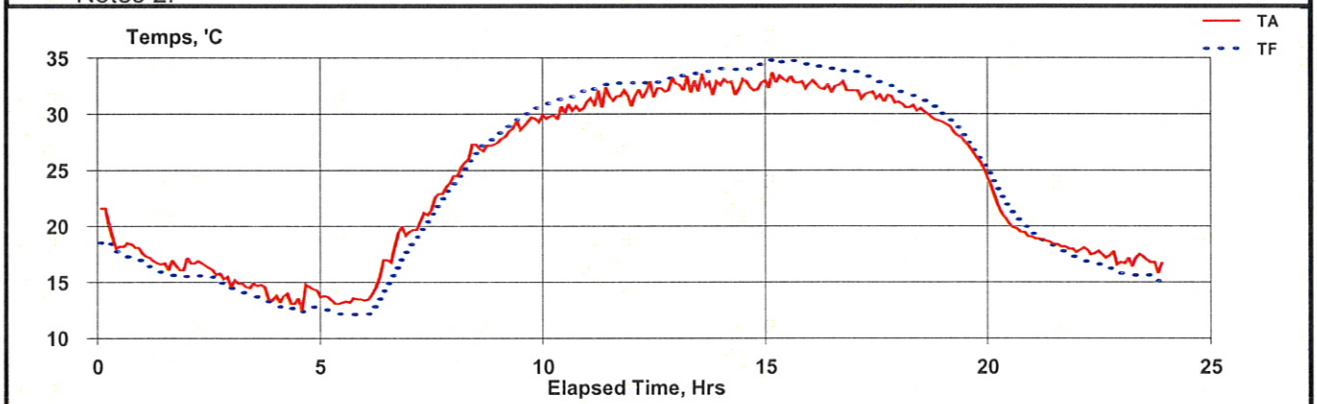
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jul	0:00:08
Stop:	16-24-jul	0:00:05
ET:	23:59	

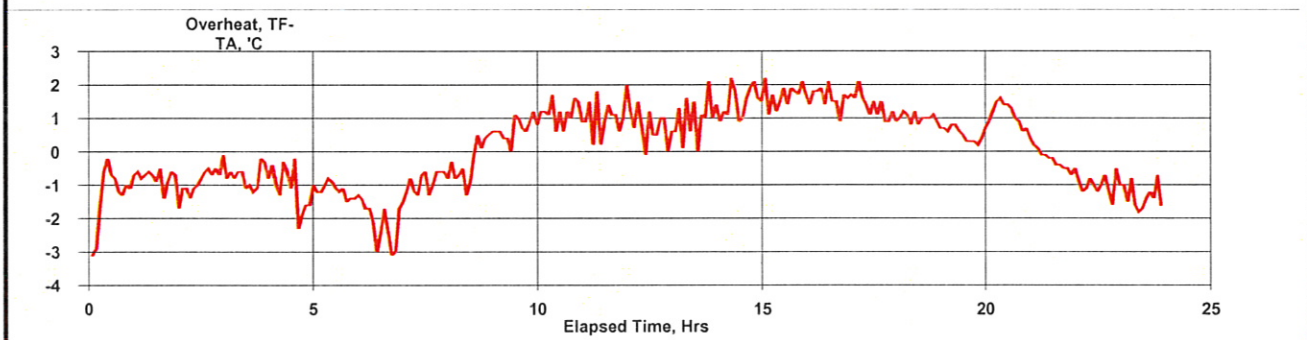
Mass Concentration Data:

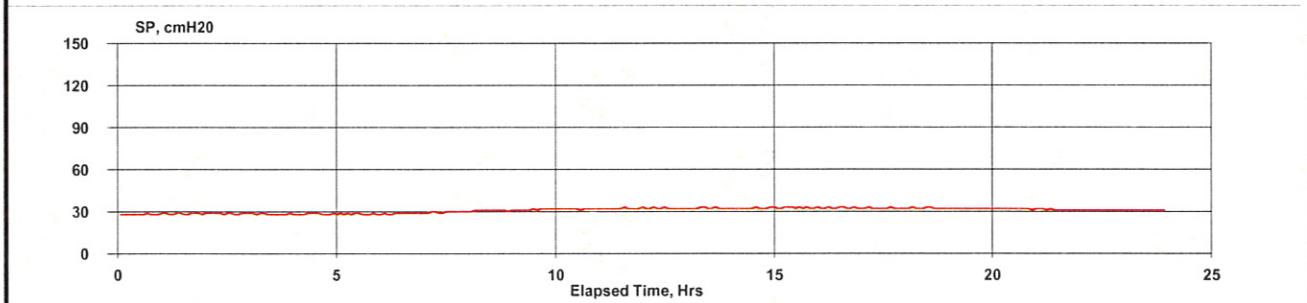
Filter ID:	23	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-23-jul	0:05:08	597	19.0	17.7	-1.3	28	16.71
16-23-jul	1:05:08	597	16.7	15.9	-0.8	29	16.71
16-23-jul	2:05:08	596	16.1	15.3	-0.8	29	16.71
16-23-jul	3:05:08	596	14.5	13.7	-0.8	28	16.71
16-23-jul	4:05:08	596	13.8	12.7	-1.1	28	16.71
16-23-jul	5:05:08	596	13.4	12.2	-1.2	28	16.71
16-23-jul	6:05:08	596	17.1	14.9	-2.1	29	16.71
16-23-jul	7:05:08	596	22.0	21.1	-0.9	30	16.71
16-23-jul	8:05:08	596	26.6	26.4	-0.2	31	16.71
16-23-jul	9:05:08	596	29.0	29.7	0.7	32	16.72
16-23-jul	10:05:08	596	30.3	31.4	1.2	32	16.71
16-23-jul	11:05:08	596	31.5	32.5	1.1	32	16.72
16-23-jul	12:05:08	595	32.2	32.9	0.7	32	16.71
16-23-jul	13:05:08	595	32.6	33.6	1.0	32	16.71
16-23-jul	14:05:08	595	32.6	34.1	1.5	32	16.71
16-23-jul	15:05:08	594	32.9	34.6	1.7	33	16.71
16-23-jul	16:05:08	594	32.4	34.0	1.6	32	16.72
16-23-jul	17:05:08	594	31.6	32.9	1.3	32	16.71
16-23-jul	18:05:08	594	30.2	31.1	1.0	32	16.72
16-23-jul	19:05:08	594	27.1	27.6	0.5	32	16.71
16-23-jul	20:05:08	594	20.6	21.7	1.1	32	16.71
16-23-jul	21:05:08	595	18.4	18.1	-0.3	31	16.72
16-23-jul	22:05:08	595	17.5	16.5	-1.0	31	16.71
16-23-jul	23:05:08	595	16.9	15.5	-1.3	31	16.71

BGI PQ200 Air Sampling System Downloaded 2016 01 aug 15:30:43

Job Details:

Job Name: 16Aug01C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5736:56
Flags:

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

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	34.1	14.2	23.9	°C
Q	---	---	16.7	Lpm

QCV 0.57 %

Max overheat 6.5 °C
occured 31-jul 14:14:16

Timer Information:

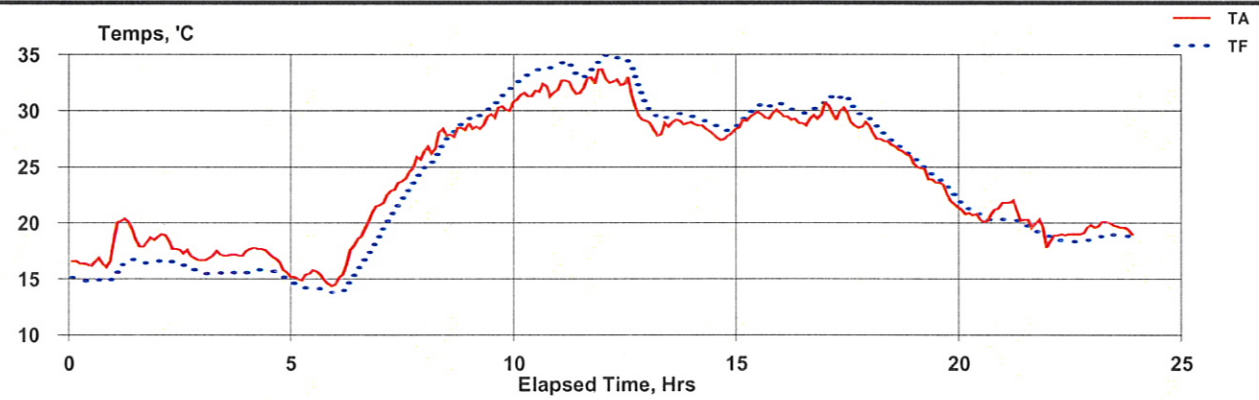
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jul	0:00:08
Stop:	16-30-jul	0:00:05

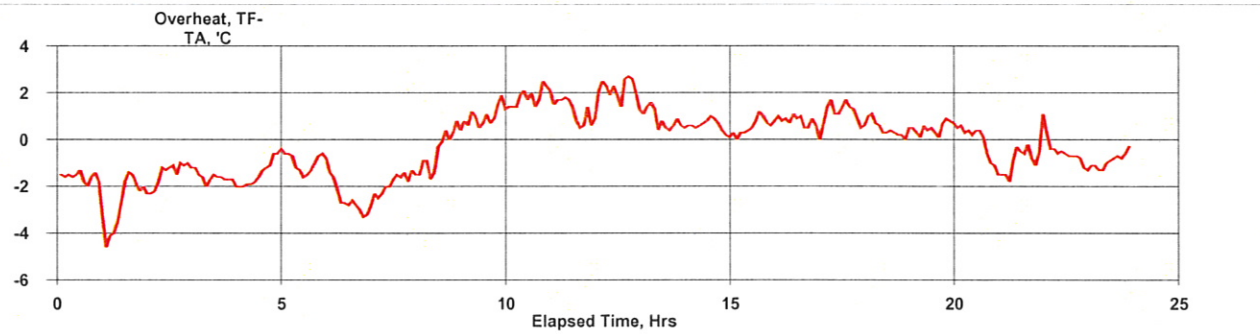
ET: 23:59

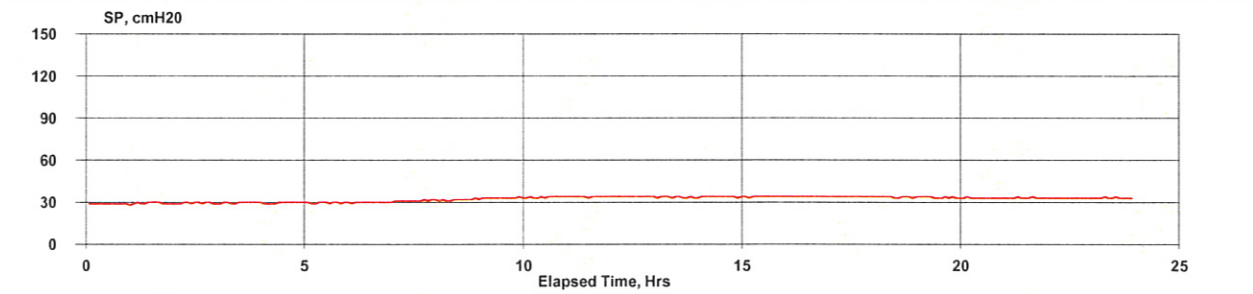
Mass Concentration Data:

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

Notes 1:
Notes 2:







16-29-jul	0:05:08	595	16.6	14.9	-1.7	29	16.71
16-29-jul	1:05:08	595	19.1	16.4	-2.7	29	16.71
16-29-jul	2:05:08	595	17.6	16.2	-1.4	30	16.71
16-29-jul	3:05:08	595	17.1	15.5	-1.7	30	16.71
16-29-jul	4:05:08	595	16.9	15.5	-1.4	30	16.71
16-29-jul	5:05:08	595	15.1	14.1	-1.0	30	16.72
16-29-jul	6:05:08	595	18.6	16.1	-2.6	30	16.71
16-29-jul	7:05:08	595	24.1	22.3	-1.8	31	16.72
16-29-jul	8:05:08	596	27.8	27.4	-0.4	32	16.71
16-29-jul	9:05:08	595	29.5	30.5	1.0	33	16.71
16-29-jul	10:05:08	595	31.6	33.5	1.8	34	16.71
16-29-jul	11:05:08	595	32.6	33.8	1.2	34	16.71
16-29-jul	12:05:08	595	31.5	33.6	2.1	34	16.71
16-29-jul	13:05:08	595	28.7	29.5	0.8	34	16.72
16-29-jul	14:05:08	595	28.1	28.7	0.6	34	16.71
16-29-jul	15:05:08	594	29.5	30.1	0.6	34	16.71
16-29-jul	16:05:08	594	29.4	30.1	0.7	34	16.71
16-29-jul	17:05:08	594	29.3	30.5	1.2	34	16.72
16-29-jul	18:05:08	594	26.8	27.3	0.5	34	16.71
16-29-jul	19:05:08	594	23.4	23.9	0.5	34	16.71
16-29-jul	20:05:08	594	20.8	20.7	-0.1	33	16.70
16-29-jul	21:05:08	595	20.4	19.7	-0.7	33	16.71
16-29-jul	22:05:08	594	19.1	18.4	-0.6	33	16.72
16-29-jul	23:05:08	594	19.7	18.8	-0.9	33	16.70

BGI PQ200 Air Sampling System

Downloaded 2016 05 aug 08:23:09

Job Details:

Job Name: 16Aug05C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5760:55
Flags:

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	23.1	12.1	15.9	°C
Q	---	---	16.71	Lpm

QCV 0.58 %

Max overheat 3.1 °C
occured 04-aug 12:39:24

Timer Information:

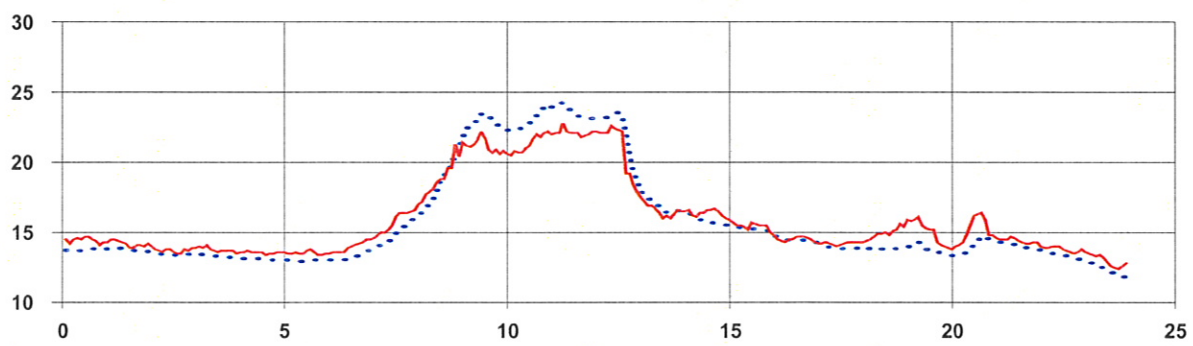
	Date dd-mmm	Time hh:mm:ss
Start:	16-04-aug	0:00:08
Stop:	16-05-aug	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

16-04-aug	0:05:08	594	14.4	13.7	-0.7	24	16.71
16-04-aug	1:05:08	595	14.2	13.7	-0.5	24	16.71
16-04-aug	2:05:08	595	13.7	13.4	-0.3	24	16.70
16-04-aug	3:05:08	595	13.8	13.3	-0.5	24	16.72
16-04-aug	4:05:08	595	13.6	13.1	-0.5	24	16.70
16-04-aug	5:05:08	595	13.5	13.0	-0.6	25	16.72
16-04-aug	6:05:08	595	14.0	13.3	-0.8	24	16.71
16-04-aug	7:05:08	595	15.9	15.0	-0.9	24	16.71
16-04-aug	8:05:08	595	19.1	18.8	-0.3	25	16.71
16-04-aug	9:05:08	595	21.1	22.8	1.7	26	16.71
16-04-aug	10:05:08	595	21.4	23.0	1.6	26	16.71
16-04-aug	11:05:08	595	22.1	23.6	1.4	26	16.71
16-04-aug	12:05:08	595	20.7	21.8	1.1	26	16.71
16-04-aug	13:05:08	595	16.5	16.8	0.2	25	16.71
16-04-aug	14:05:08	594	16.4	15.8	-0.6	25	16.71
16-04-aug	15:05:08	595	15.4	15.2	-0.2	25	16.71
16-04-aug	16:05:08	595	14.5	14.4	-0.1	25	16.71
16-04-aug	17:05:08	595	14.2	13.9	-0.4	25	16.71
16-04-aug	18:05:08	594	15.0	13.8	-1.2	25	16.71
16-04-aug	19:05:08	595	14.9	13.7	-1.2	25	16.71
16-04-aug	20:05:08	595	15.1	14.1	-1.1	25	16.71
16-04-aug	21:05:08	595	14.4	14.0	-0.4	25	16.72
16-04-aug	22:05:08	595	13.8	13.3	-0.5	25	16.71
16-04-aug	23:05:08	595	13.0	12.3	-0.7	25	16.71

BGI PQ200 Air Sampling System Downloaded 2016 11 aug 14:29:41

Job Details:

Job Name: 16Aug11C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5784:54
Flags:

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

	Max	Min	Avg	Units
BP	596	591	594	mmHg
TA	22.4	10.4	15.3	°C
Q	---	---	16.71	Lpm

QCV 0.54 %

Max overheat 6.1 °C
occured 10-aug 15:44:22

Timer Information:

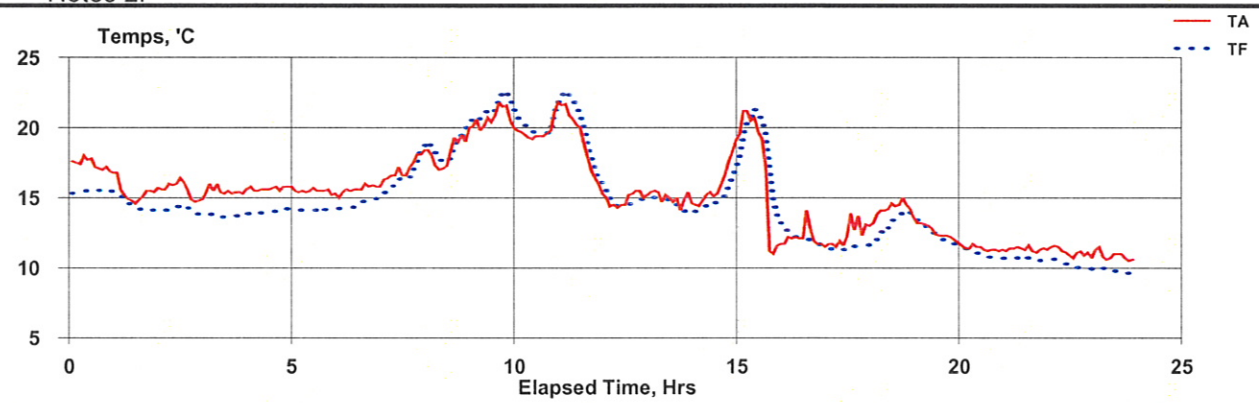
	Date dd-mmm	Time hh:mm:ss
Start:	16-10-aug	0:00:08
Stop:	16-11-aug	0:00:04

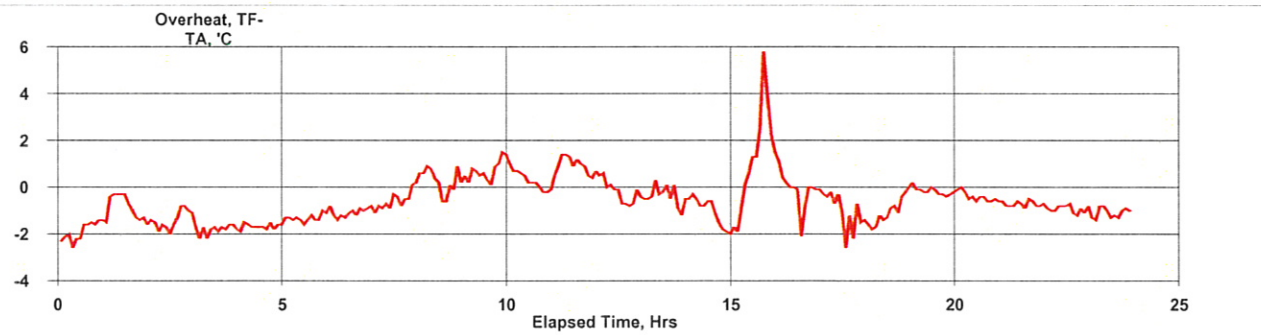
ET: 23:59

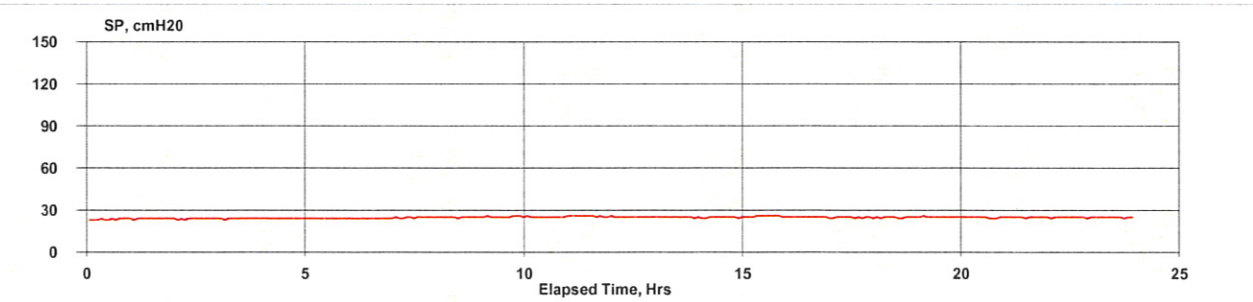
Mass Concentration Data:

Filter ID:	16	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-10-aug	0:05:08	593	17.4	15.5	-1.9	24	16.70
16-10-aug	1:05:08	594	15.3	14.5	-0.9	24	16.71
16-10-aug	2:05:08	594	15.5	14.2	-1.4	24	16.71
16-10-aug	3:05:08	594	15.5	13.7	-1.8	24	16.71
16-10-aug	4:05:08	594	15.7	14.0	-1.7	24	16.71
16-10-aug	5:05:08	594	15.5	14.2	-1.3	24	16.71
16-10-aug	6:05:08	595	15.6	14.6	-1.1	24	16.71
16-10-aug	7:05:08	595	17.1	16.6	-0.6	25	16.71
16-10-aug	8:05:08	595	18.4	18.6	0.3	25	16.71
16-10-aug	9:05:08	595	20.7	21.4	0.7	25	16.71
16-10-aug	10:05:08	595	19.8	20.1	0.3	25	16.71
16-10-aug	11:05:08	595	18.8	19.8	0.9	26	16.71
16-10-aug	12:05:08	595	14.9	14.7	-0.2	25	16.71
16-10-aug	13:05:08	595	15.0	14.6	-0.4	25	16.71
16-10-aug	14:05:08	595	16.0	15.0	-1.0	25	16.71
16-10-aug	15:05:08	595	17.1	18.3	1.2	26	16.71
16-10-aug	16:05:08	596	12.2	12.1	-0.1	25	16.71
16-10-aug	17:05:08	596	12.5	11.4	-1.1	25	16.71
16-10-aug	18:05:08	595	14.2	13.2	-1.0	25	16.71
16-10-aug	19:05:08	595	12.6	12.4	-0.2	25	16.71
16-10-aug	20:05:08	595	11.4	11.0	-0.4	25	16.72
16-10-aug	21:05:08	595	11.3	10.6	-0.7	25	16.71
16-10-aug	22:05:08	595	11.1	10.2	-0.9	25	16.72
16-10-aug	23:05:08	595	10.9	9.8	-1.1	25	16.71

BGI PQ200 Air Sampling System Downloaded 2016 19 aug 10:31:30

Job Details:

Job Name:	16Aug19C.JOB
Version:	5.62
Serial No:	964
Pump Time:	5808:53
Flags:	

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

	Max	Min	Avg	Units
BP	597	594	595	mmHg
TA	29.5	9.6	20.4	°C
Q	---	---	16.7	Lpm

QCV	0.56	%
Max overheat	5	°C
occured 18-aug 13:21:06		

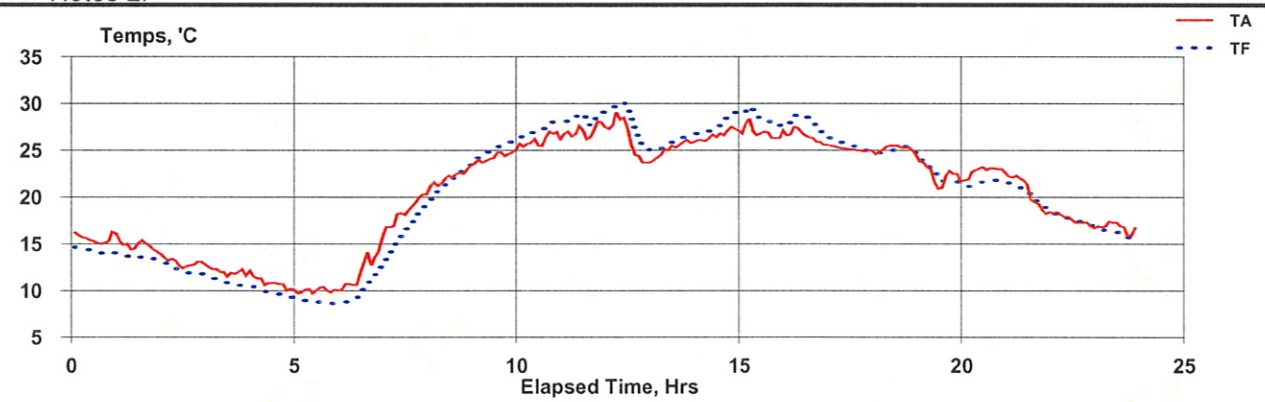
Timer Information:

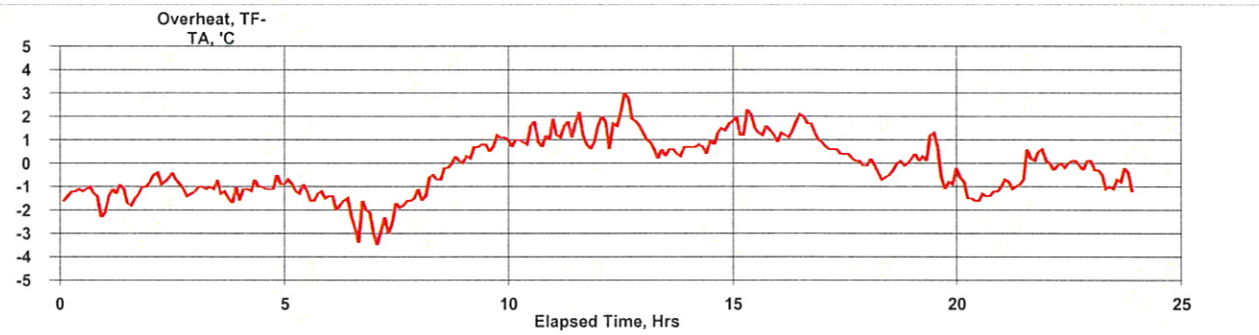
	Date dd-mmm	Time hh:mm:ss
Start:	16-16-aug	0:00:08
Stop:	16-17-aug	0:00:05
ET:	23:59	

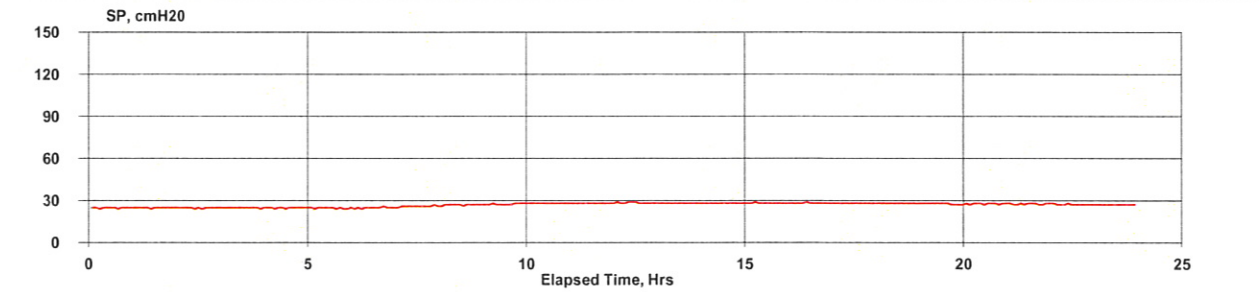
Mass Concentration Data:

Filter ID:	26	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-16-aug	0:05:08	596	15.6	14.2	-1.4	25	16.70
16-16-aug	1:05:08	596	14.8	13.5	-1.2	25	16.71
16-16-aug	2:05:08	596	13.0	12.1	-0.9	25	16.71
16-16-aug	3:05:08	596	12.0	10.8	-1.2	25	16.72
16-16-aug	4:05:08	596	10.7	9.8	-1.0	25	16.71
16-16-aug	5:05:08	596	10.0	8.8	-1.2	25	16.71
16-16-aug	6:05:08	596	12.3	10.2	-2.1	25	16.71
16-16-aug	7:05:08	597	18.6	16.4	-2.1	26	16.71
16-16-aug	8:05:08	597	22.2	21.7	-0.5	27	16.71
16-16-aug	9:05:08	597	24.3	25.1	0.8	27	16.72
16-16-aug	10:05:08	597	26.1	27.2	1.1	28	16.69
16-16-aug	11:05:08	596	27.1	28.4	1.3	28	16.71
16-16-aug	12:05:08	596	26.2	28.0	1.9	28	16.71
16-16-aug	13:05:08	596	25.2	25.8	0.6	28	16.70
16-16-aug	14:05:08	595	26.7	27.7	1.1	28	16.71
16-16-aug	15:05:08	595	27.0	28.4	1.5	28	16.71
16-16-aug	16:05:08	595	26.5	27.9	1.5	28	16.71
16-16-aug	17:05:08	595	25.1	25.5	0.3	28	16.71
16-16-aug	18:05:08	595	25.2	25.0	-0.2	28	16.70
16-16-aug	19:05:08	595	22.4	22.5	0.0	28	16.71
16-16-aug	20:05:08	595	22.8	21.5	-1.3	28	16.72
16-16-aug	21:05:08	596	20.5	20.2	-0.3	28	16.71
16-16-aug	22:05:08	596	17.6	17.5	0.0	27	16.71
16-16-aug	23:05:08	596	16.8	16.1	-0.7	27	16.71

BGI PQ200 Air Sampling System Downloaded 2016 25 aug 09:26:23

Job Details:

Job Name: 16Aug25C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5832:52
Flags:

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	25.4	10.4	14.6	°C
Q	---	---	16.71	Lpm

QCV 0.61 %

Max overheat 3.6 °C
occured 24-aug 14:03:16

Timer Information:

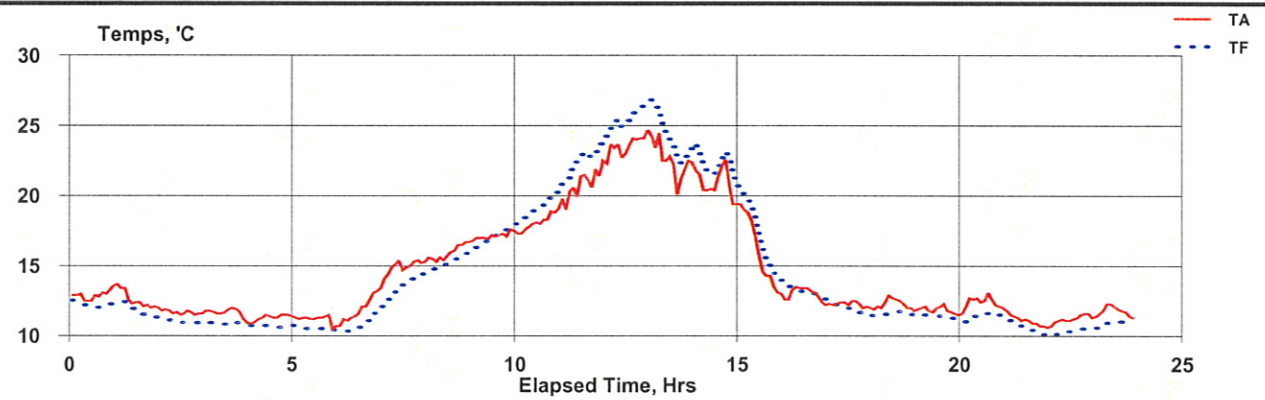
	Date dd-mmm	Time hh:mm:ss
Start:	16-22-aug	0:00:08
Stop:	16-23-aug	0:00:05

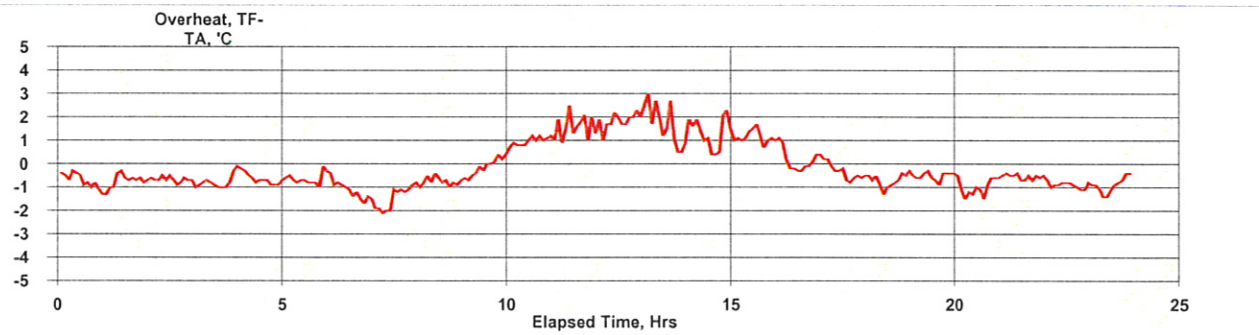
ET: 23:59

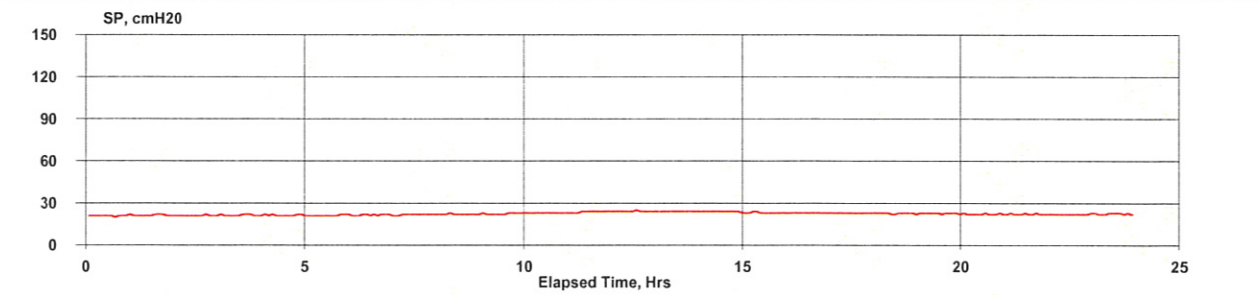
Mass Concentration Data:

Filter ID:	39	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.044	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-22-aug	0:05:08	594	12.9	12.2	-0.7	21	16.71
16-22-aug	1:05:08	594	12.6	11.8	-0.7	21	16.72
16-22-aug	2:05:08	594	11.7	11.0	-0.7	21	16.71
16-22-aug	3:05:08	594	11.7	10.9	-0.8	21	16.71
16-22-aug	4:05:08	594	11.3	10.7	-0.7	21	16.71
16-22-aug	5:05:08	594	11.2	10.5	-0.7	21	16.71
16-22-aug	6:05:08	594	12.0	10.8	-1.2	22	16.71
16-22-aug	7:05:08	594	15.0	13.5	-1.4	22	16.71
16-22-aug	8:05:08	595	16.0	15.2	-0.8	22	16.71
16-22-aug	9:05:08	595	17.1	17.0	-0.1	23	16.71
16-22-aug	10:05:08	595	18.1	19.1	1.0	23	16.71
16-22-aug	11:05:08	595	20.8	22.4	1.6	24	16.71
16-22-aug	12:05:08	594	23.6	25.5	1.9	24	16.72
16-22-aug	13:05:08	593	22.5	24.2	1.7	24	16.71
16-22-aug	14:05:08	593	20.9	22.2	1.3	24	16.72
16-22-aug	15:05:08	594	15.9	17.1	1.2	23	16.72
16-22-aug	16:05:08	595	13.0	13.2	0.2	23	16.72
16-22-aug	17:05:08	595	12.3	11.9	-0.4	23	16.71
16-22-aug	18:05:08	594	12.3	11.6	-0.7	23	16.71
16-22-aug	19:05:08	594	11.9	11.4	-0.5	23	16.71
16-22-aug	20:05:08	594	12.4	11.4	-1.0	22	16.71
16-22-aug	21:05:08	594	11.1	10.6	-0.5	22	16.71
16-22-aug	22:05:08	594	11.2	10.3	-0.9	22	16.71
16-22-aug	23:05:08	594	11.8	10.9	-0.9	23	16.71

BGI PQ200 Air Sampling System Downloaded 2016 29 aug 14:37:05

Job Details:

Job Name: 16Aug29C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5856:51
Flags:

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

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	23.1	6.7	14.1	°C
Q	---	---	16.7	Lpm

QCV 0.57 %

Max overheat 3.9 °C
occured 28-aug 14:41:56

Timer Information:

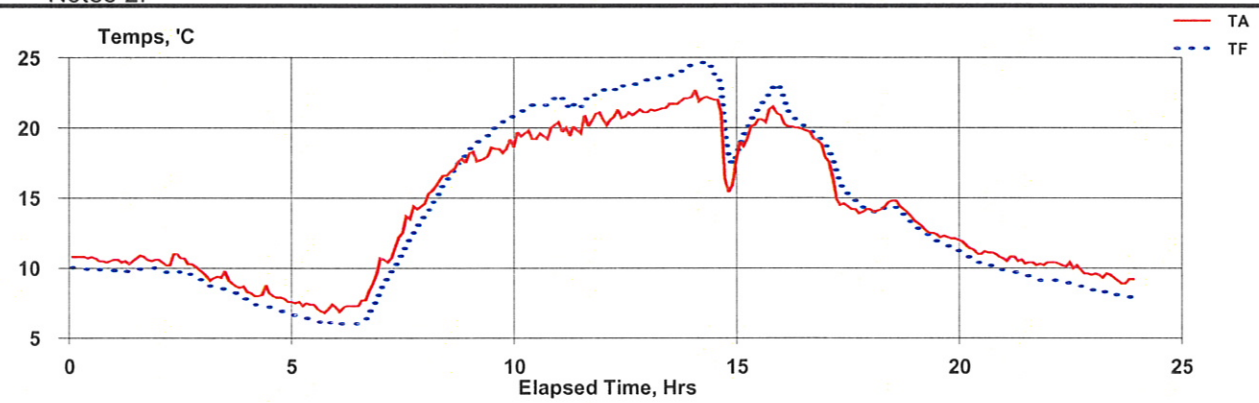
	Date dd-mmm	Time hh:mm:ss
Start:	16-28-aug	0:00:08
Stop:	16-29-aug	0:00:04

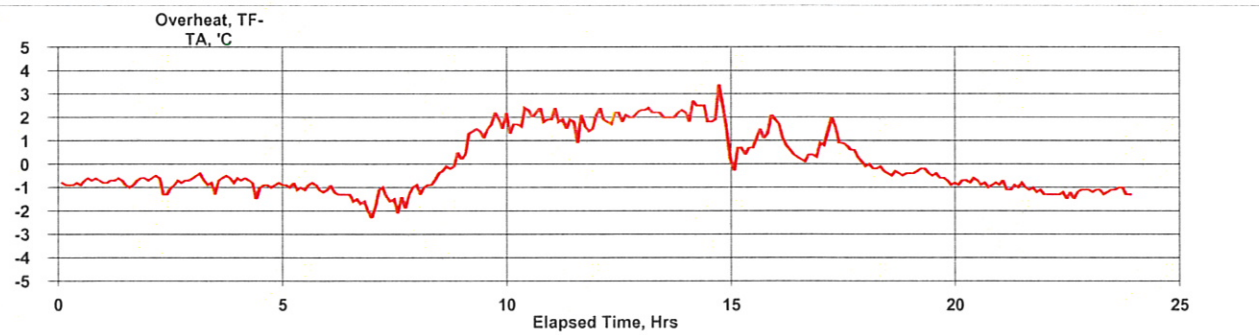
ET: 23:59

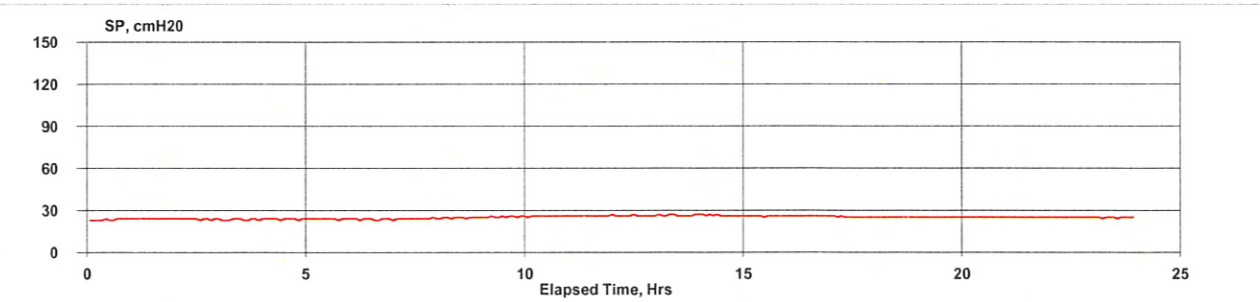
Mass Concentration Data:

Filter ID:	6	
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:







16-28-aug	0:05:08	596	10.7	9.9	-0.8	24	16.71
16-28-aug	1:05:08	596	10.6	9.8	-0.7	24	16.72
16-28-aug	2:05:08	596	10.4	9.6	-0.8	24	16.71
16-28-aug	3:05:08	596	9.0	8.3	-0.7	24	16.71
16-28-aug	4:05:08	596	8.0	7.1	-0.9	24	16.72
16-28-aug	5:05:08	596	7.3	6.3	-1.0	24	16.71
16-28-aug	6:05:08	597	8.0	6.5	-1.5	24	16.71
16-28-aug	7:05:08	597	12.7	11.3	-1.4	24	16.72
16-28-aug	8:05:08	597	16.8	16.3	-0.4	25	16.71
16-28-aug	9:05:08	597	18.3	19.8	1.5	26	16.70
16-28-aug	10:05:08	597	19.6	21.6	1.9	26	16.72
16-28-aug	11:05:08	597	20.2	22.0	1.7	26	16.72
16-28-aug	12:05:08	597	20.9	23.0	2.1	26	16.71
16-28-aug	13:05:08	597	21.7	23.8	2.2	26	16.71
16-28-aug	14:05:08	597	20.1	22.2	2.1	26	16.71
16-28-aug	15:05:08	596	20.3	21.3	1.0	26	16.71
16-28-aug	16:05:08	597	19.6	20.2	0.6	26	16.71
16-28-aug	17:05:08	597	14.8	15.6	0.8	25	16.71
16-28-aug	18:05:08	597	14.2	13.9	-0.3	25	16.71
16-28-aug	19:05:08	597	12.4	11.9	-0.5	25	16.71
16-28-aug	20:05:08	597	11.2	10.4	-0.8	25	16.71
16-28-aug	21:05:08	597	10.5	9.4	-1.0	25	16.70
16-28-aug	22:05:08	597	10.1	8.8	-1.3	25	16.71
16-28-aug	23:05:08	597	9.3	8.1	-1.2	25	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 06 sep 17:09:39

Job Details:

Job Name:	16Sep06C.JOB
Version:	5.62
Serial No:	964
Pump Time:	5880:50
Flags:	

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

	Max	Min	Avg	Units
BP	594	590	591	mmHg
TA	24.1	8.9	15.9	°C
Q	---	---	16.71	Lpm

QCV	0.55 %
Max overheat	5 °C
occured	03-sep 15:07:50

Timer Information:

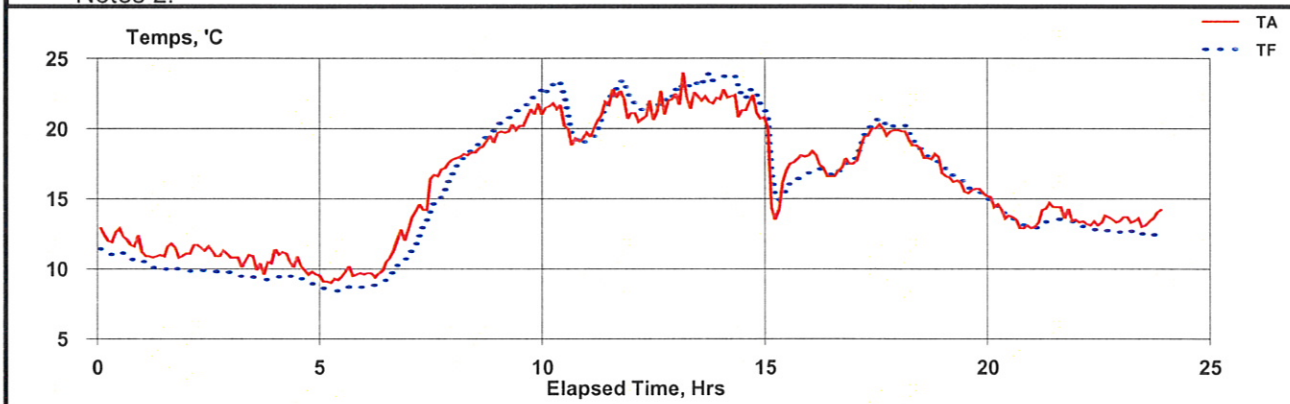
	Date dd-mmm	Time hh:mm:ss
Start:	16-03-sep	0:00:08
Stop:	16-04-sep	0:00:04
ET:	23:59	

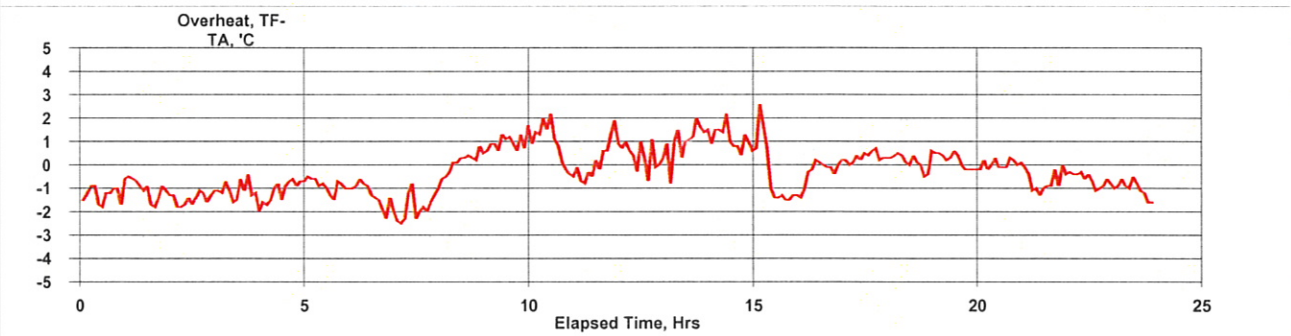
Mass Concentration Data:

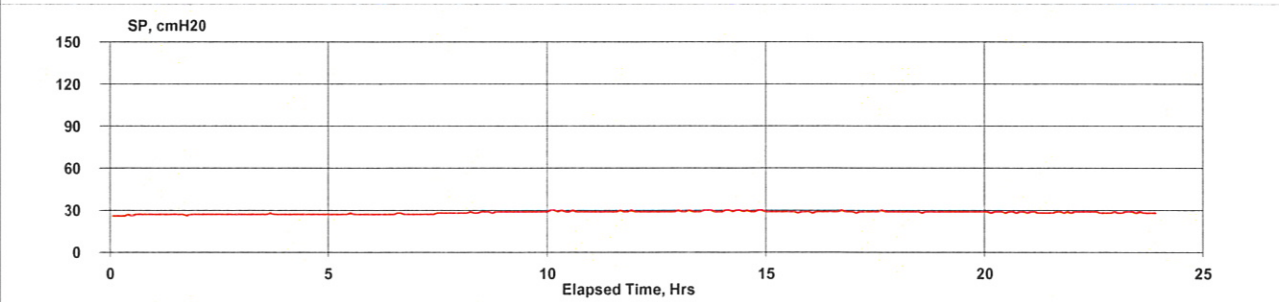
Filter ID:	22	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-03-sep	0:05:08	593	12.2	10.9	-1.2	27	16.71
16-03-sep	1:05:08	593	11.1	10.0	-1.1	27	16.71
16-03-sep	2:05:08	593	11.3	9.8	-1.5	27	16.72
16-03-sep	3:05:08	593	10.5	9.4	-1.2	27	16.71
16-03-sep	4:05:08	593	10.3	9.2	-1.1	27	16.73
16-03-sep	5:05:08	593	9.5	8.6	-0.9	27	16.72
16-03-sep	6:05:08	593	10.9	9.6	-1.3	27	16.72
16-03-sep	7:05:08	593	15.9	14.1	-1.8	28	16.72
16-03-sep	8:05:08	593	18.6	18.8	0.1	29	16.71
16-03-sep	9:05:08	593	20.5	21.5	1.0	29	16.71
16-03-sep	10:05:08	593	20.4	21.2	0.9	29	16.71
16-03-sep	11:05:08	593	21.4	21.6	0.2	29	16.71
16-03-sep	12:05:08	592	21.4	21.8	0.4	29	16.71
16-03-sep	13:05:08	592	22.2	23.3	1.1	29	16.71
16-03-sep	14:05:08	591	21.7	22.8	1.1	30	16.71
16-03-sep	15:05:08	591	16.9	16.5	-0.4	29	16.71
16-03-sep	16:05:08	591	17.3	17.1	-0.3	29	16.71
16-03-sep	17:05:08	591	19.6	19.9	0.3	29	16.71
16-03-sep	18:05:08	590	18.5	18.6	0.2	29	16.71
16-03-sep	19:05:08	590	15.9	16.0	0.2	29	16.71
16-03-sep	20:05:08	590	13.7	13.8	0.0	29	16.72
16-03-sep	21:05:08	590	14.0	13.3	-0.7	28	16.71
16-03-sep	22:05:08	590	13.4	12.8	-0.6	29	16.71
16-03-sep	23:05:08	590	13.5	12.5	-1.0	28	16.71

BGI PQ200 Air Sampling System Downloaded 2016 12 sep 14:58:18

Job Details:

Job Name: 16Sep12C.JOB
Version: 5.62
Serial No: 964
Pump Time: 5904:49
Flags:

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

	Max	Min	Avg	Units
BP	597	593	595	mmHg
TA	28.7	7.3	18.5	°C
Q	---	---	16.7	Lpm

QCV 0.58 %

Max overheat 3.1 °C
occured 09-sep 12:33:18

Timer Information:

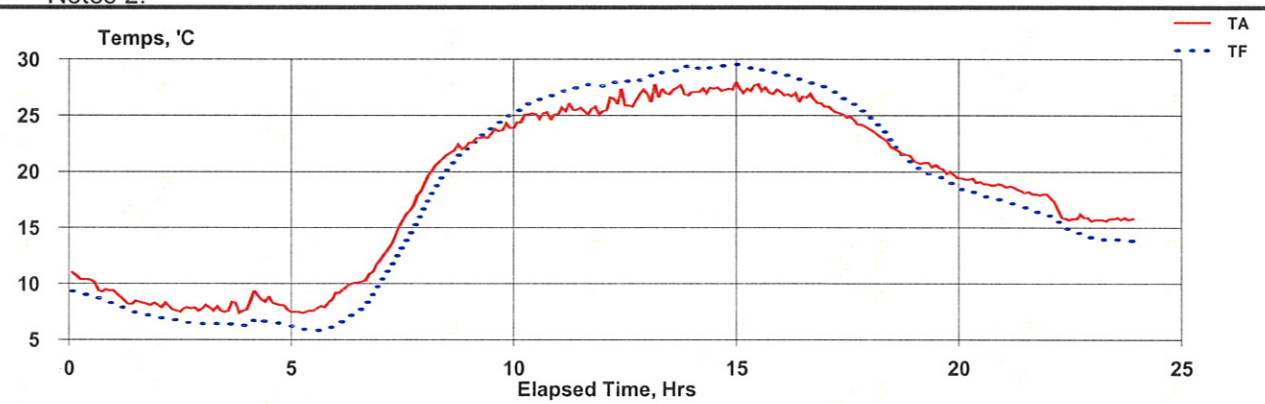
	Date dd-mmm	Time hh:mm:ss
Start:	16-09-sep	0:00:08
Stop:	16-10-sep	0:00:04

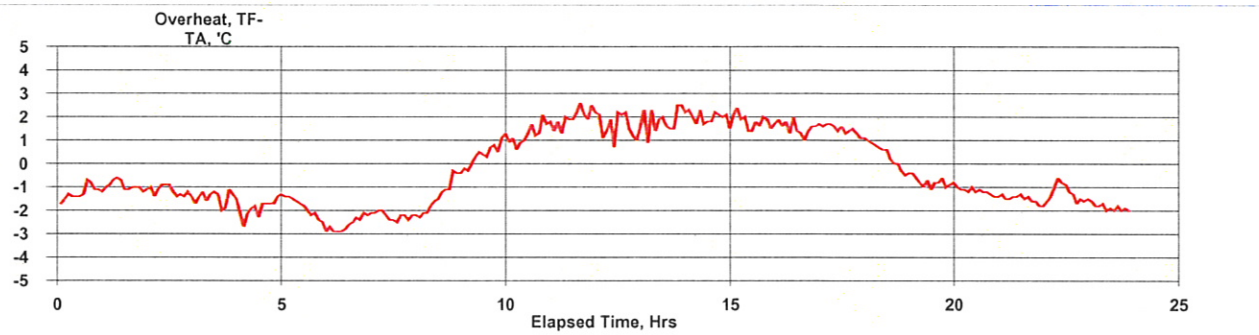
ET: 23:59

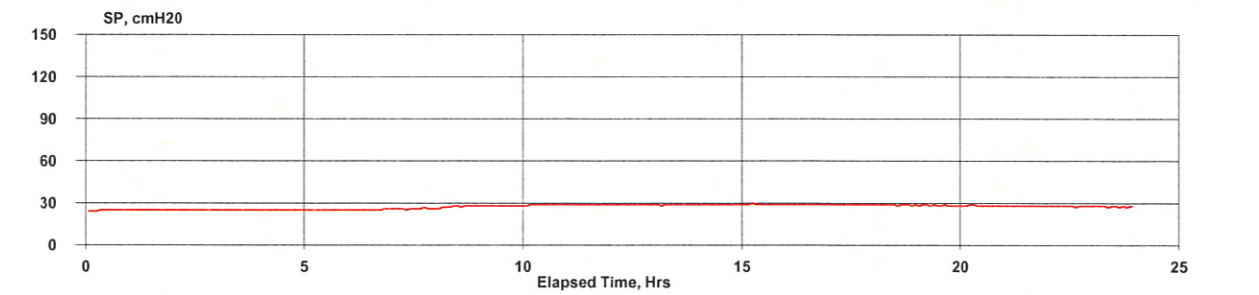
Mass Concentration Data:

Filter ID:	28	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-09-sep	0:05:08	596	10.0	8.8	-1.2	25	16.71
16-09-sep	1:05:08	595	8.4	7.4	-1.0	25	16.71
16-09-sep	2:05:08	595	7.8	6.6	-1.2	25	16.72
16-09-sep	3:05:08	595	7.8	6.4	-1.5	25	16.71
16-09-sep	4:05:08	595	8.4	6.5	-1.9	25	16.71
16-09-sep	5:05:08	596	7.9	6.0	-2.0	25	16.71
16-09-sep	6:05:08	596	10.4	7.9	-2.5	25	16.70
16-09-sep	7:05:08	596	15.7	13.5	-2.2	26	16.71
16-09-sep	8:05:08	596	21.4	20.1	-1.3	28	16.70
16-09-sep	9:05:08	596	23.4	23.9	0.5	28	16.71
16-09-sep	10:05:08	596	24.9	26.2	1.3	29	16.70
16-09-sep	11:05:08	596	25.5	27.5	2.0	29	16.70
16-09-sep	12:05:08	596	26.4	28.0	1.6	29	16.72
16-09-sep	13:05:08	596	27.1	29.0	1.9	29	16.70
16-09-sep	14:05:08	595	27.4	29.3	2.0	29	16.72
16-09-sep	15:05:08	595	27.3	29.1	1.8	29	16.71
16-09-sep	16:05:08	595	26.5	28.1	1.6	29	16.72
16-09-sep	17:05:08	595	24.8	26.2	1.4	29	16.71
16-09-sep	18:05:08	596	22.2	22.5	0.3	29	16.71
16-09-sep	19:05:08	596	20.3	19.5	-0.8	28	16.71
16-09-sep	20:05:08	597	19.1	17.9	-1.2	28	16.71
16-09-sep	21:05:08	597	18.2	16.7	-1.5	28	16.71
16-09-sep	22:05:08	597	16.2	14.9	-1.3	28	16.71
16-09-sep	23:05:08	597	15.8	13.9	-1.9	28	16.71

BGI PQ200 Air Sampling System Downloaded 2016 16 sep 14:02:01

Job Details:

Job Name:	16Sep16C.JOB
Version:	5.62
Serial No:	964
Pump Time:	5928:49
Flags:	

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	21.7	0.9	12.2	°C
Q	---	---	16.7	Lpm

QCV	0.55 %
Max overheat	2.6 °C
occured	15-sep 13:03:36

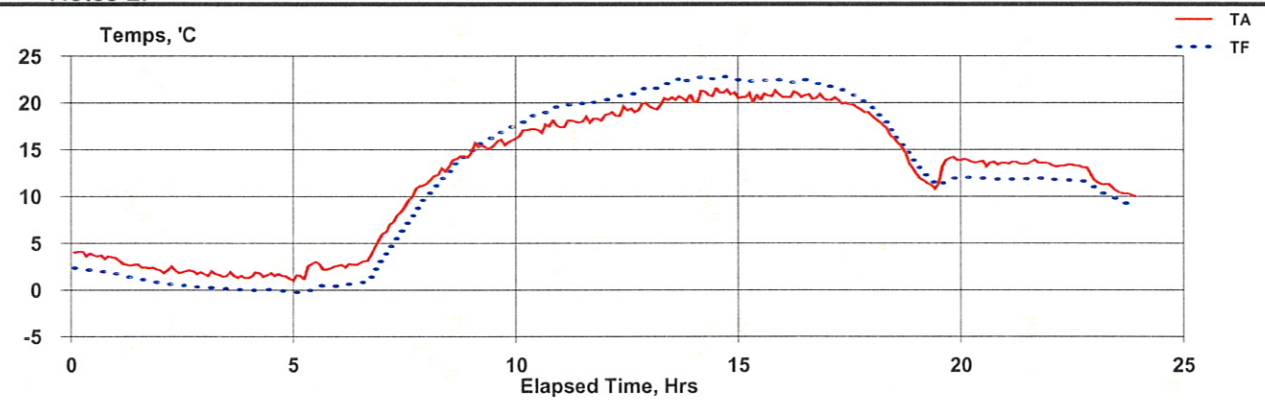
Timer Information:

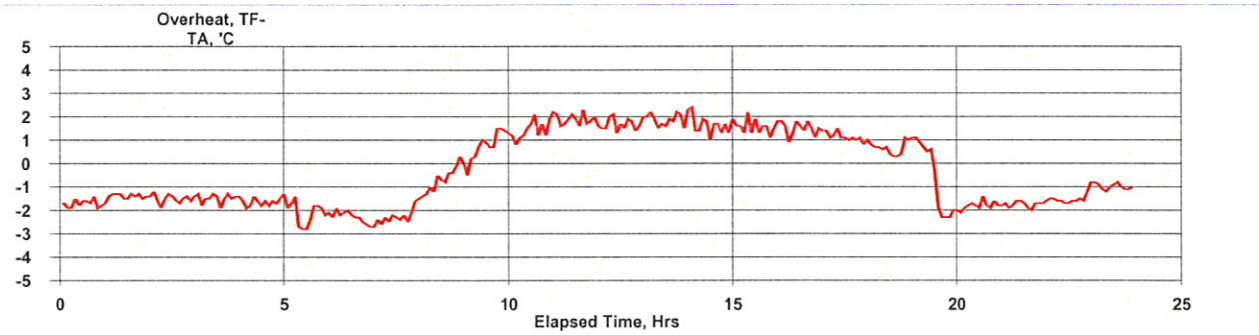
	Date dd-mmm	Time hh:mm:ss
Start:	16-15-sep	0:00:08
Stop:	16-16-sep	0:00:05
ET:	24:00:00	

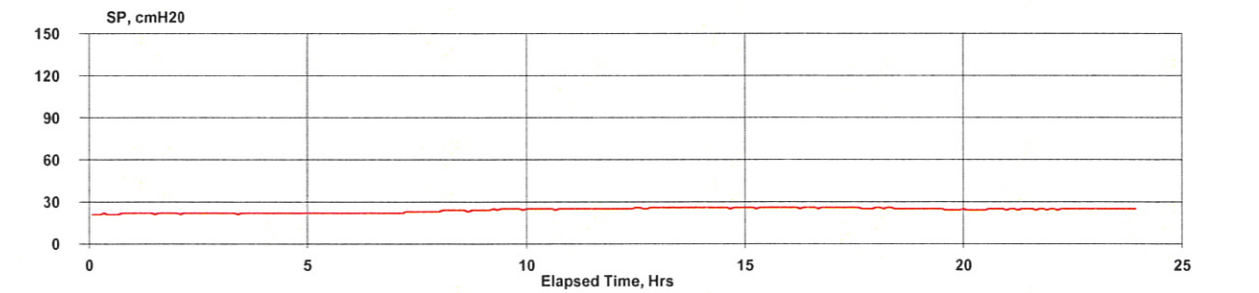
Mass Concentration Data:

Filter ID:	11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-15-sep	0:05:21	594	3.7	2.0	-1.7	21	16.70
16-15-sep	1:05:21	594	2.5	1.2	-1.4	22	16.71
16-15-sep	2:05:21	594	2.0	0.5	-1.5	22	16.71
16-15-sep	3:05:21	594	1.5	0.1	-1.5	22	16.70
16-15-sep	4:05:21	594	1.5	-0.1	-1.6	22	16.71
16-15-sep	5:05:21	594	2.3	0.1	-2.1	22	16.71
16-15-sep	6:05:21	595	3.5	1.2	-2.3	22	16.71
16-15-sep	7:05:21	595	9.1	6.9	-2.2	23	16.71
16-15-sep	8:05:21	595	13.4	12.8	-0.6	24	16.72
16-15-sep	9:05:21	595	15.6	16.5	0.8	25	16.72
16-15-sep	10:05:21	595	17.3	18.8	1.5	25	16.71
16-15-sep	11:05:21	595	18.1	20.0	1.9	25	16.71
16-15-sep	12:05:21	594	19.2	20.9	1.7	25	16.71
16-15-sep	13:05:21	594	20.2	22.1	1.9	26	16.71
16-15-sep	14:05:21	594	21.0	22.6	1.6	26	16.71
16-15-sep	15:05:21	593	20.7	22.3	1.6	26	16.72
16-15-sep	16:05:21	593	20.7	22.2	1.5	26	16.71
16-15-sep	17:05:21	593	19.7	20.8	1.1	26	16.71
16-15-sep	18:05:21	593	15.7	16.4	0.7	25	16.71
16-15-sep	19:05:21	594	12.6	11.9	-0.8	25	16.71
16-15-sep	20:05:21	594	13.7	11.9	-1.8	24	16.71
16-15-sep	21:05:21	594	13.6	11.9	-1.7	25	16.72
16-15-sep	22:05:21	594	13.1	11.6	-1.5	25	16.70
16-15-sep	23:05:21	594	10.7	9.7	-1.0	25	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 23 sep 13:24:23

Job Details:

Job Name:	16Sep23C.JOB	Job Code:	
Version:	5.62	Site Name:	964C
Serial No:	964	Station Code:	
Pump Time:	5952:48	Operators:	KN
Flags:		User1:	
		User2:	

	Max	Min	Avg	Units
BP	596	591	594	mmHg
TA	13.9	11.1	12.6	°C
Q	---	---	16.71	Lpm

QCV	0.46 %
Max overheat	5.3 °C
occured	22-sep 17:49:51

Timer Information:

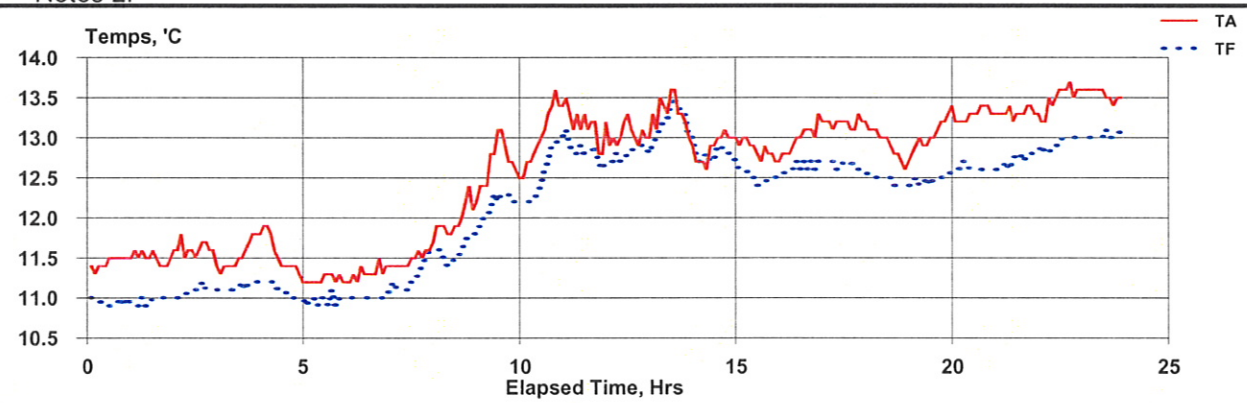
	Date dd-mmm	Time hh:mm:ss
Start:	16-21-sep	0:00:08
Stop:	16-22-sep	0:00:05
ET:	23:59	

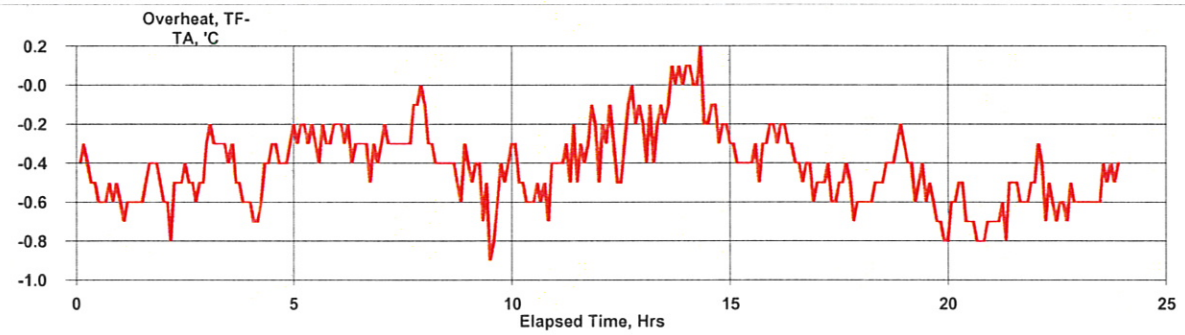
Mass Concentration Data:

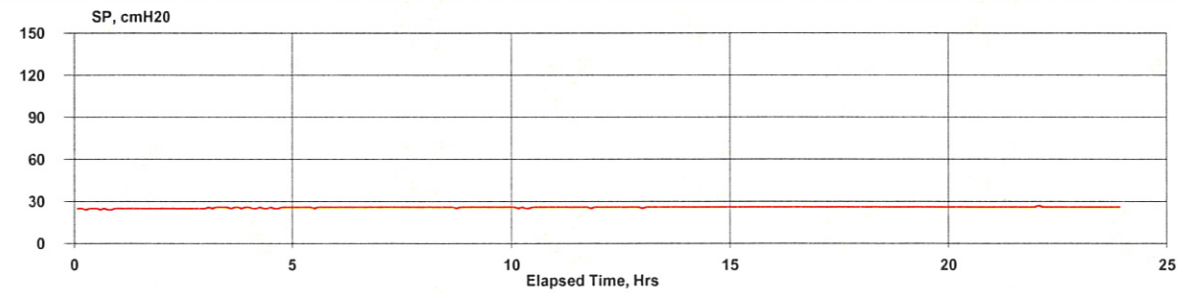
Filter ID:	17	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-21-sep	0:05:08	595	11.5	10.9	-0.5	25	16.72
16-21-sep	1:05:08	595	11.5	11.0	-0.5	25	16.70
16-21-sep	2:05:08	595	11.6	11.1	-0.5	25	16.71
16-21-sep	3:05:08	595	11.6	11.1	-0.4	26	16.71
16-21-sep	4:05:08	595	11.5	11.1	-0.4	26	16.71
16-21-sep	5:05:08	595	11.2	11.0	-0.3	26	16.71
16-21-sep	6:05:08	595	11.3	11.0	-0.3	26	16.71
16-21-sep	7:05:08	595	11.5	11.3	-0.2	26	16.71
16-21-sep	8:05:08	595	12.0	11.6	-0.4	26	16.72
16-21-sep	9:05:08	595	12.7	12.2	-0.5	26	16.72
16-21-sep	10:05:08	595	13.1	12.6	-0.5	26	16.71
16-21-sep	11:05:08	595	13.2	12.8	-0.3	26	16.71
16-21-sep	12:05:08	594	13.0	12.8	-0.2	26	16.72
16-21-sep	13:05:08	594	13.3	13.2	-0.1	26	16.71
16-21-sep	14:05:08	594	12.9	12.8	-0.1	26	16.71
16-21-sep	15:05:08	594	12.8	12.5	-0.3	26	16.71
16-21-sep	16:05:08	593	13.0	12.6	-0.4	26	16.71
16-21-sep	17:05:08	593	13.2	12.7	-0.5	26	16.71
16-21-sep	18:05:08	593	12.9	12.5	-0.4	26	16.71
16-21-sep	19:05:08	593	13.1	12.5	-0.6	26	16.71
16-21-sep	20:05:08	593	13.3	12.6	-0.7	26	16.73
16-21-sep	21:05:08	593	13.3	12.7	-0.6	26	16.73
16-21-sep	22:05:08	592	13.5	12.9	-0.6	26	16.72
16-21-sep	23:05:08	592	13.5	13.0	-0.5	26	16.72

BGI PQ200 Air Sampling System Downloaded 2016 29 sep 13:59:35

Job Details:

Job Name: 16Sep29C.JOB
Version: 5.62
Serial No: 2366
Pump Time: 1035:56
Flags:

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

	Max	Min	Avg	Units
BP	595	592	593	mmHg
TA	22.2	4.9	13.1	°C
Q	---	---	16.71	Lpm

QCV 0.56 %
Max overheat 3.8 °C
occured 29-sep 12:50:15

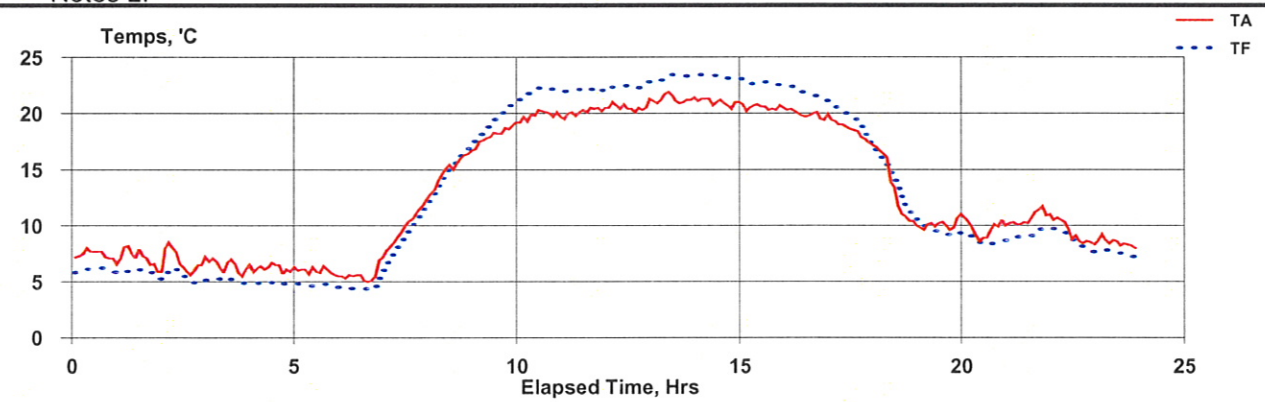
Timer Information:

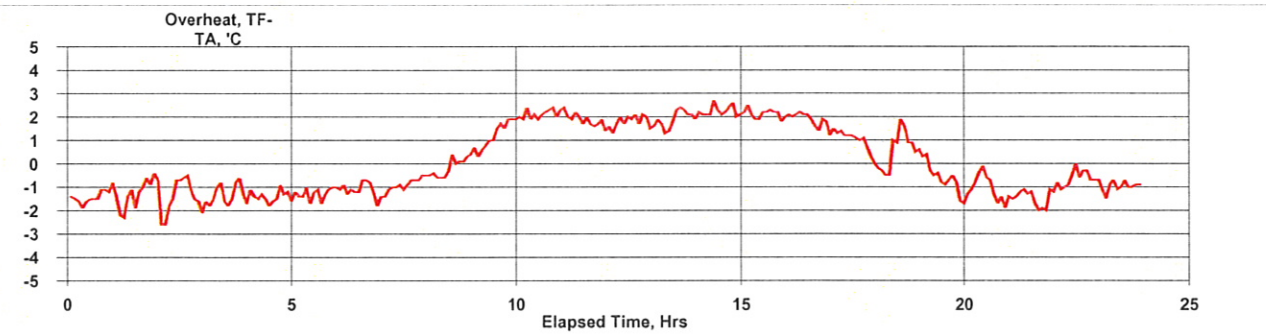
	Date dd-mmm	Time hh:mm:ss
Start:	16-27-sep	0:00:08
Stop:	16-28-sep	0:00:05
ET:	23:59	

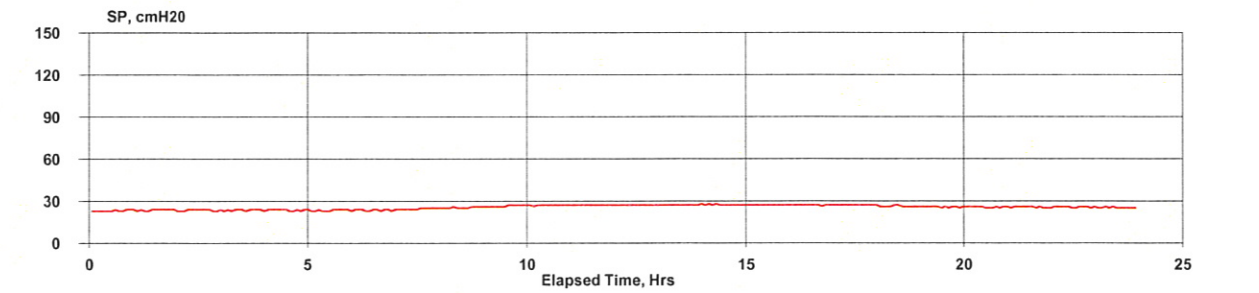
Mass Concentration Data:

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

Notes 1:
Notes 2:







16-27-sep	0:05:08	595	7.4	6.0	-1.4	23	16.71
16-27-sep	1:05:08	595	7.1	5.8	-1.3	24	16.72
16-27-sep	2:05:08	595	6.9	5.5	-1.4	24	16.72
16-27-sep	3:05:08	594	6.4	5.1	-1.3	24	16.70
16-27-sep	4:05:08	594	6.2	4.8	-1.4	24	16.71
16-27-sep	5:05:08	594	5.9	4.7	-1.3	24	16.71
16-27-sep	6:05:08	594	5.7	4.5	-1.1	24	16.71
16-27-sep	7:05:08	595	10.1	9.2	-0.9	25	16.71
16-27-sep	8:05:08	594	15.1	15.0	-0.1	25	16.71
16-27-sep	9:05:08	594	18.1	19.4	1.2	27	16.71
16-27-sep	10:05:08	594	19.8	22.0	2.1	27	16.70
16-27-sep	11:05:08	594	20.2	22.0	1.9	27	16.70
16-27-sep	12:05:08	593	20.6	22.4	1.8	27	16.71
16-27-sep	13:05:08	593	21.3	23.2	1.9	27	16.70
16-27-sep	14:05:08	592	21.0	23.2	2.2	27	16.71
16-27-sep	15:05:08	592	20.5	22.7	2.1	27	16.70
16-27-sep	16:05:08	592	19.9	21.8	1.9	27	16.71
16-27-sep	17:05:08	592	18.4	19.4	1.0	27	16.71
16-27-sep	18:05:08	593	13.2	13.7	0.6	26	16.70
16-27-sep	19:05:08	593	10.1	9.5	-0.6	26	16.71
16-27-sep	20:05:08	593	9.7	8.6	-1.1	26	16.72
16-27-sep	21:05:08	593	10.7	9.2	-1.5	26	16.71
16-27-sep	22:05:08	593	9.3	8.7	-0.6	26	16.71
16-27-sep	23:05:08	593	8.5	7.5	-1.0	25	16.71

Compliance Monitor 2366D

PM_{10} Sampler Summary

July 1, 2016 - September 30, 2016

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

AQS ID:

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
07/05/16	P2930770	**215.8**	**272.3**	23:59	24.0	19.0	375.502	380.690	5.188		
07/11/16	P2930775	**178.1**	**224.4**	23:59	24.0	19.1	392.297	396.577	4.280	HT	
07/17/16	P2930993	**Invalid - AG**	**Invalid - AG**	17:41	17.7	14.0	369.126	369.738	0.612	SP,FE,HT	Specks
07/23/16	P2930998	**13.2**	**16.9**	23:59	24.0	18.8	399.241	399.560	0.319		
07/29/16	P2931003	**28.3**	**36.2**	23:59	24.0	18.8	373.205	373.887	0.682		
08/04/16	P2931180	**10.6**	**13.2**	23:59	24.0	19.3	381.059	381.314	0.255	HT	
08/10/16	P2931185	**23.4**	**29.0**	23:59	24.0	19.4	384.727	385.291	0.564	HT	
08/16/16	P2931431	**19.7**	**24.8**	23:59	24.0	19.1	369.896	370.370	0.474		
08/22/16	P2931438	**13.8**	**17.1**	23:59	24.0	19.4	391.941	392.275	0.334		
08/28/16	P2931714	**4.6**	**5.6**	23:59	24.0	19.5	381.784	381.895	0.111		
09/03/16	P2931719	**8.2**	**10.2**	23:59	24.0	19.3	392.595	392.793	0.198	HT	
09/09/16	P2931724	**Invalid - AI**	**Invalid - AI**				374.412	374.718	0.306	SP,MD	
09/15/16	P2932016	**17.8**	**21.9**	24:00	24.0	19.5	383.741	384.170	0.429		Lighter
09/21/16	P2932023	**5.0**	**6.2**	23:59	24.0	19.5	381.024	381.146	0.122		
09/27/16	P2933160	**16.0**	**19.7**	23:59	24.0	19.5	378.692	379.077	0.385		
08/19/16	P2931441		**Field Blank**				381.244	381.253	0.009		

# Valid	Recovery	Average	St. Dev.	Max	Min
13	**87%**	**53.7**	**87.4**	**272.3**	**5.6**

BGI PQ200 Air Sampling System

Downloaded 2016 07 jul 13:23:15

Job Details:

Job Name:	16Jul07D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	706:27
Flags:	

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

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	30	8.5	19.5	°C
Q	---	---	16.7	Lpm

QCV	0.52 %
Max overheat	4.5 °C
occured	06-jul 21:36:23

Timer Information:

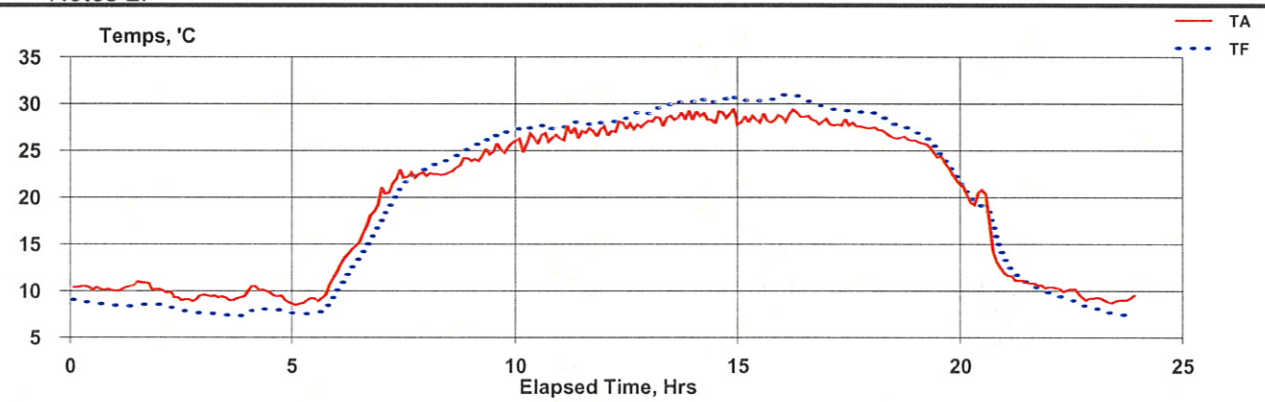
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jul	0:00:08
Stop:	16-06-jul	0:00:05
ET:	23:59	

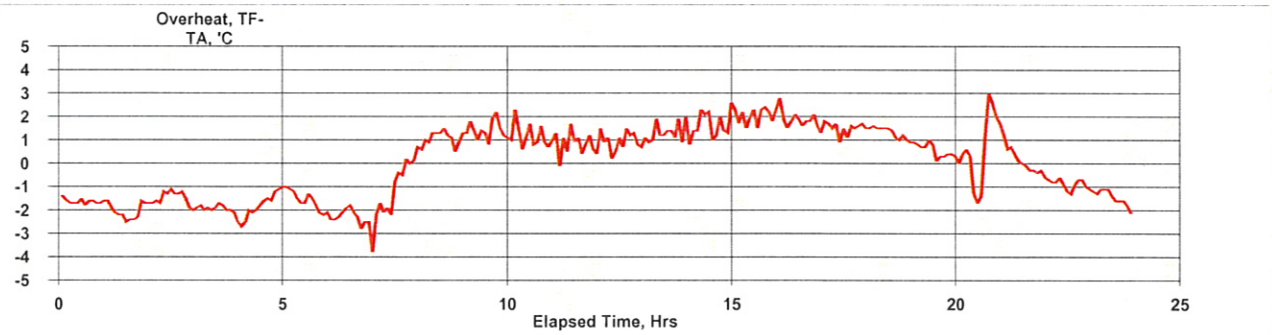
Mass Concentration Data:

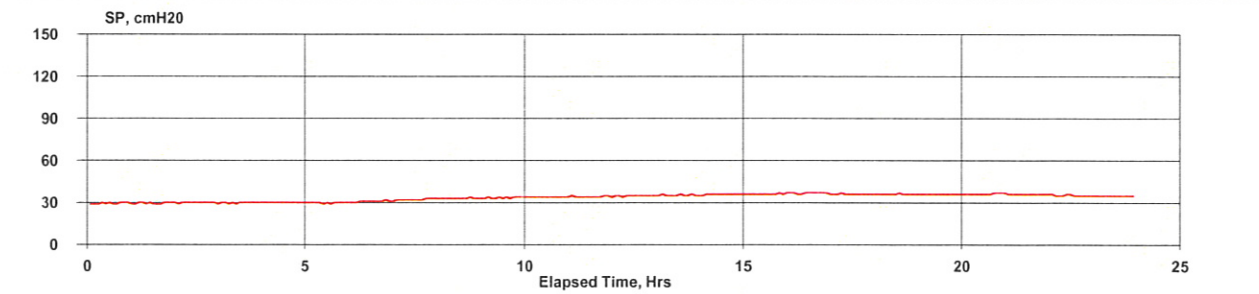
Filter ID:	16	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-05-jul	0:05:08	593	10.3	8.6	-1.6	29	16.71
16-05-jul	1:05:08	592	10.5	8.4	-2.1	30	16.70
16-05-jul	2:05:08	592	9.4	7.9	-1.5	30	16.71
16-05-jul	3:05:08	592	9.4	7.4	-2.0	30	16.70
16-05-jul	4:05:08	593	9.7	7.9	-1.8	30	16.71
16-05-jul	5:05:08	593	9.6	8.0	-1.6	30	16.71
16-05-jul	6:05:08	593	16.2	13.8	-2.4	31	16.71
16-05-jul	7:05:08	592	22.0	21.1	-0.9	32	16.71
16-05-jul	8:05:08	592	23.1	24.2	1.1	33	16.71
16-05-jul	9:05:08	592	25.0	26.4	1.4	34	16.71
16-05-jul	10:05:08	592	26.2	27.4	1.2	34	16.71
16-05-jul	11:05:08	592	27.0	27.9	0.8	34	16.71
16-05-jul	12:05:08	591	27.6	28.5	1.0	35	16.71
16-05-jul	13:05:08	591	28.5	29.8	1.3	35	16.69
16-05-jul	14:05:08	591	28.7	30.4	1.6	36	16.70
16-05-jul	15:05:08	590	28.4	30.4	2.0	36	16.71
16-05-jul	16:05:08	590	28.5	30.4	1.9	37	16.71
16-05-jul	17:05:08	590	27.7	29.2	1.5	36	16.72
16-05-jul	18:05:08	590	26.6	27.9	1.3	36	16.71
16-05-jul	19:05:08	590	24.1	24.6	0.6	36	16.70
16-05-jul	20:05:08	590	17.6	18.2	0.6	36	16.70
16-05-jul	21:05:08	591	10.9	11.0	0.1	36	16.71
16-05-jul	22:05:08	591	9.8	8.9	-0.9	35	16.71
16-05-jul	23:05:08	591	9.1	7.6	-1.4	35	16.72

BGI PQ200 Air Sampling System Downloaded 2016 12 jul 12:32:20

Job Details:

Job Name:	16Jul12D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	730:26
Flags:	

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

	Max	Min	Avg	Units
BP	591	588	589	mmHg
TA	28.6	8.5	18.1	°C
Q	---	---	16.7	Lpm

QCV	0.51 %
Max overheat	3.4 °C
occured	11-jul 15:18:02

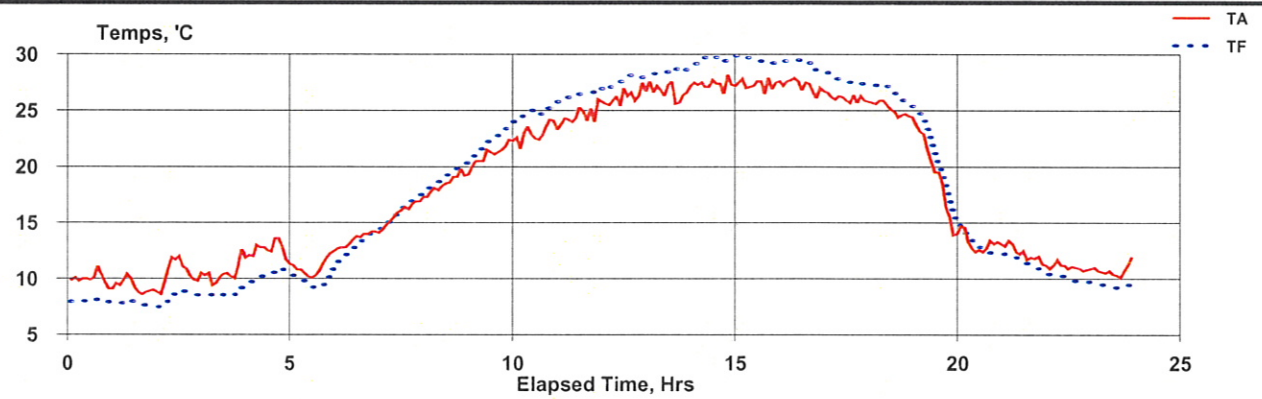
Timer Information:

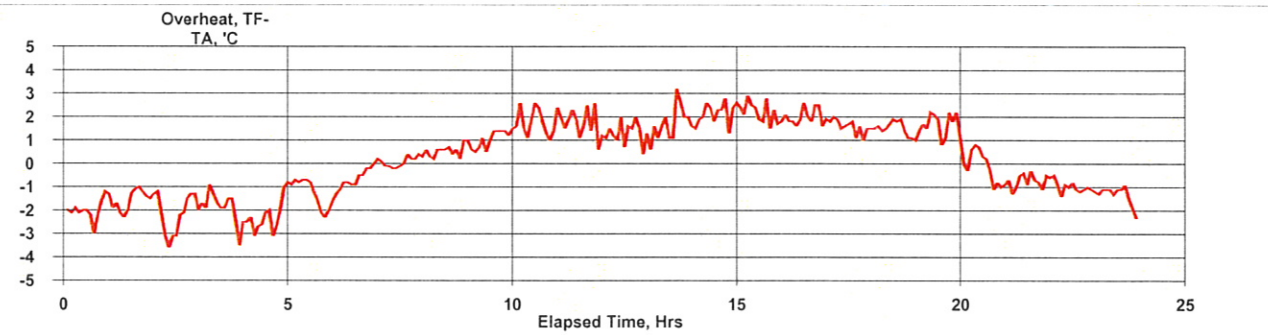
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jul	0:00:08
Stop:	16-12-jul	0:00:05
ET:	23:59	

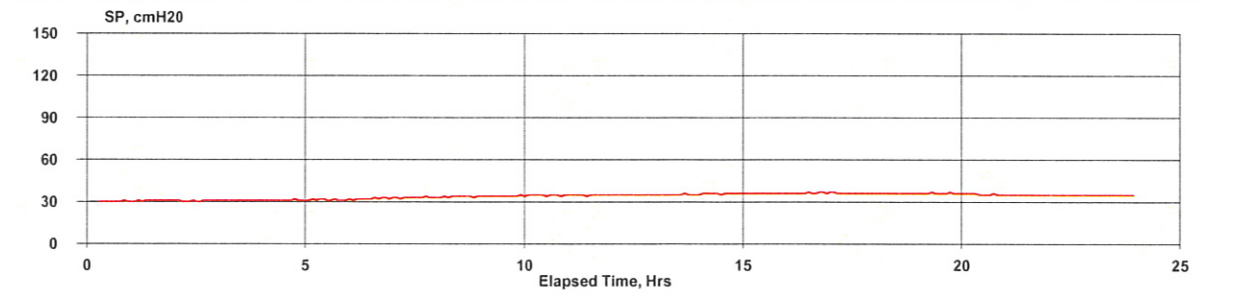
Mass Concentration Data:

Filter ID:	26	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-11-jul	0:05:08	589	9.9	8.0	-2.0	30	16.71
16-11-jul	1:05:08	589	9.3	7.7	-1.6	31	16.71
16-11-jul	2:05:08	589	10.6	8.4	-2.2	31	16.71
16-11-jul	3:05:08	589	10.6	8.7	-1.9	31	16.71
16-11-jul	4:05:08	589	12.6	10.3	-2.2	31	16.71
16-11-jul	5:05:08	590	11.1	9.8	-1.3	31	16.72
16-11-jul	6:05:08	590	13.6	13.0	-0.6	32	16.70
16-11-jul	7:05:08	590	16.0	16.1	0.1	33	16.71
16-11-jul	8:05:08	590	18.6	19.2	0.6	34	16.70
16-11-jul	9:05:08	590	21.2	22.3	1.1	34	16.71
16-11-jul	10:05:08	590	23.1	24.9	1.8	35	16.71
16-11-jul	11:05:08	590	24.7	26.4	1.7	35	16.71
16-11-jul	12:05:08	589	26.3	27.6	1.3	35	16.71
16-11-jul	13:05:08	589	26.7	28.5	1.7	35	16.71
16-11-jul	14:05:08	589	27.4	29.5	2.2	36	16.70
16-11-jul	15:05:08	589	27.4	29.5	2.2	36	16.71
16-11-jul	16:05:08	589	27.2	29.2	2.0	36	16.71
16-11-jul	17:05:08	589	26.1	27.7	1.6	36	16.70
16-11-jul	18:05:08	589	25.1	26.6	1.5	36	16.71
16-11-jul	19:05:08	589	19.1	20.8	1.7	36	16.71
16-11-jul	20:05:08	589	13.2	13.0	-0.2	35	16.71
16-11-jul	21:05:08	590	12.2	11.5	-0.7	35	16.71
16-11-jul	22:05:08	590	11.0	10.0	-1.0	35	16.72
16-11-jul	23:05:08	590	10.7	9.4	-1.3	35	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 19 jul 09:17:11

Job Details:

Job Name:	16Jul19D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	748:07
Flags:	Q T

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

	Max	Min	Avg	Units
BP	592	590	591	mmHg
TA	31	9.5	21	°C
Q	---	---	16.7	Lpm

QCV	0.39 %
Max overheat	4.1 °C
occured	17-jul 20:41:16

Timer Information:

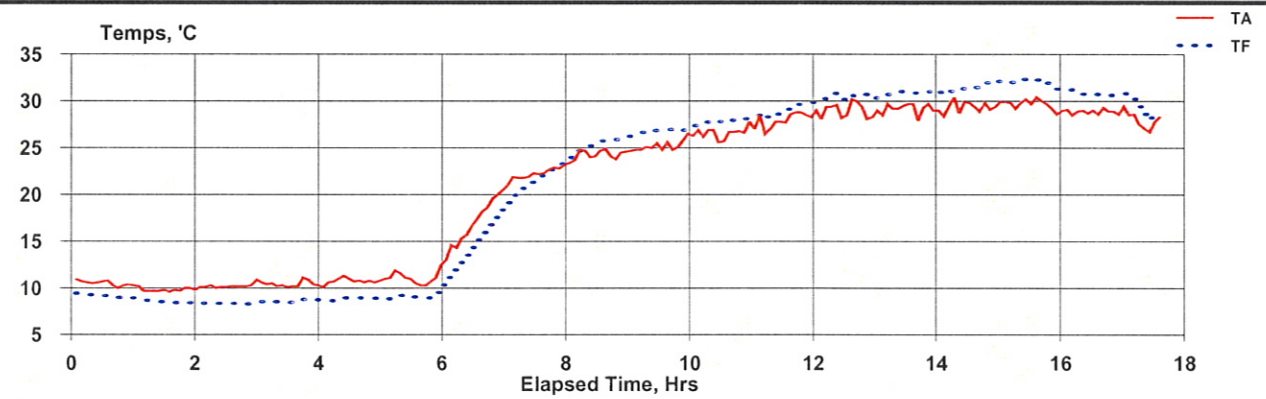
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jul	0:00:00
Stop:	16-18-jul	0:00:05
ET:	17:41	

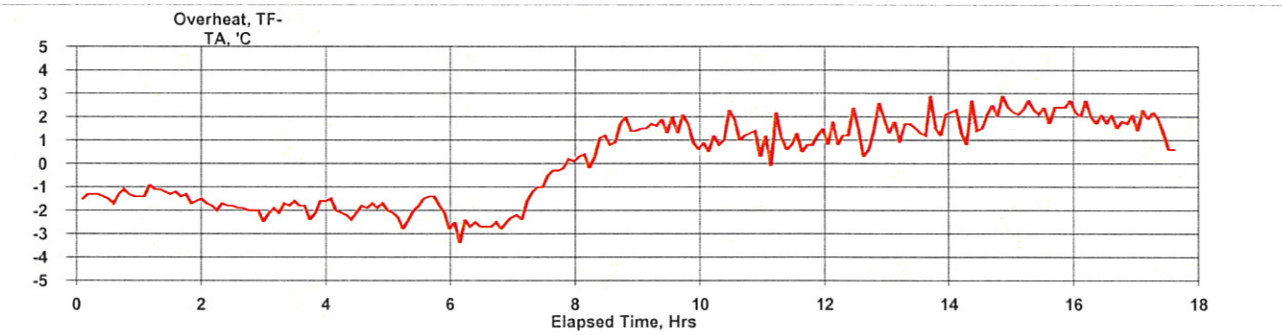
Mass Concentration Data:

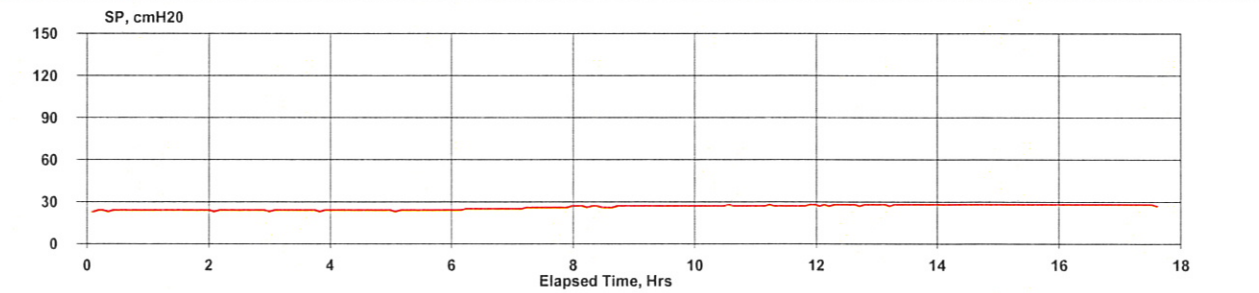
Filter ID:	7	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	17.716	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-17-jul	0:05:00	591	10.5	9.1	-1.4	24	16.72
16-17-jul	1:05:00	591	9.8	8.5	-1.3	24	16.71
16-17-jul	2:05:00	591	10.2	8.3	-1.9	24	16.70
16-17-jul	3:05:00	591	10.4	8.6	-1.9	24	16.71
16-17-jul	4:05:00	591	10.8	8.8	-1.9	24	16.70
16-17-jul	5:05:00	592	11.1	9.1	-2.0	24	16.71
16-17-jul	6:05:00	592	17.0	14.4	-2.6	25	16.70
16-17-jul	7:05:00	592	22.2	21.4	-0.9	26	16.71
16-17-jul	8:05:00	592	24.3	25.2	0.9	27	16.71
16-17-jul	9:05:00	592	25.2	26.7	1.5	27	16.72
16-17-jul	10:05:00	592	26.6	27.7	1.2	27	16.71
16-17-jul	11:05:00	592	27.9	28.9	1.0	27	16.71
16-17-jul	12:05:00	592	29.0	30.4	1.4	28	16.71
16-17-jul	13:05:00	592	29.2	30.8	1.6	28	16.70
16-17-jul	14:05:00	591	29.4	31.4	2.0	28	16.71
16-17-jul	15:05:00	591	29.7	32.0	2.3	28	16.71
16-17-jul	16:05:00	591	28.9	30.8	2.0	28	16.70
16-17-jul	17:05:00	591	28.0	29.5	1.5	28	16.61

BGI PQ200 Air Sampling System

Downloaded 2016 25 jul 14:16:09

Job Details:

Job Name:	16Jul25D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	772:06
Flags:	

Job Code:	
Site Name:	2366
Station Code:	
Operators:	KN
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	34.4	12.9	23.3	°C
Q	---	---	16.7	Lpm

QCV	0.58 %
Max overheat	5.1 °C
occured	24-jul 16:01:19

Timer Information:

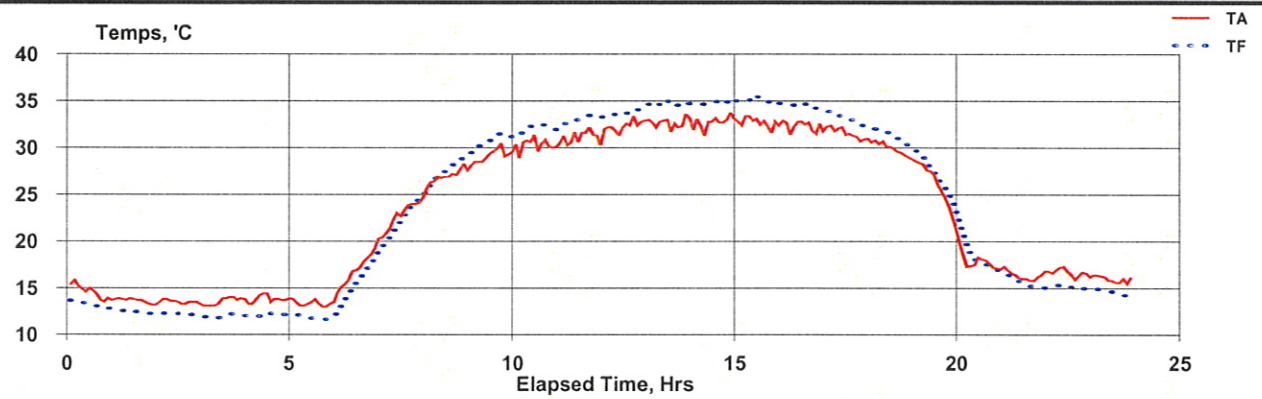
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jul	0:00:08
Stop:	16-24-jul	0:00:05
ET:	23:59	

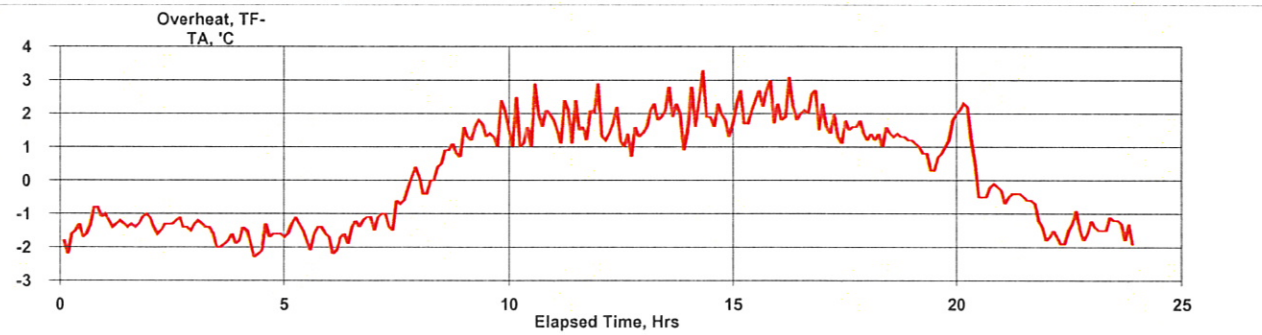
Mass Concentration Data:

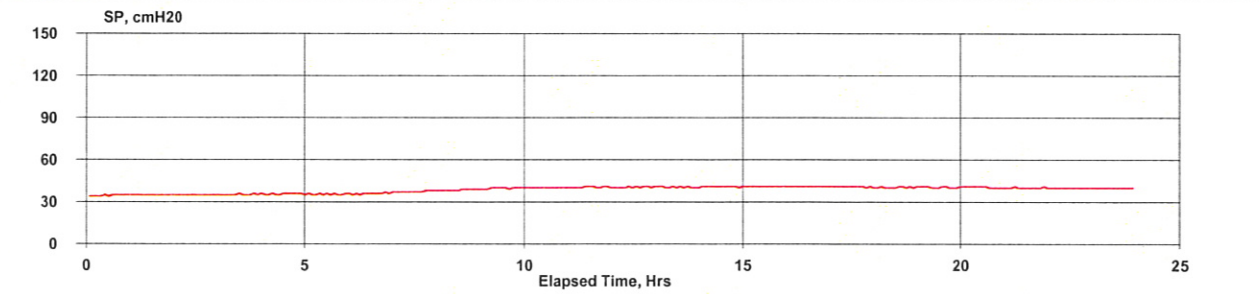
Filter ID:	24	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-23-jul	0:05:08	594	14.6	13.2	-1.4	35	16.71
16-23-jul	1:05:08	594	13.6	12.4	-1.3	35	16.71
16-23-jul	2:05:08	594	13.5	12.2	-1.4	35	16.71
16-23-jul	3:05:08	594	13.6	11.9	-1.7	35	16.71
16-23-jul	4:05:08	593	13.8	12.1	-1.7	36	16.71
16-23-jul	5:05:08	593	13.3	11.8	-1.5	36	16.72
16-23-jul	6:05:08	594	17.2	15.6	-1.5	36	16.71
16-23-jul	7:05:08	594	22.9	22.3	-0.6	37	16.71
16-23-jul	8:05:08	593	27.0	27.5	0.5	39	16.72
16-23-jul	9:05:08	593	29.2	30.7	1.6	40	16.71
16-23-jul	10:05:08	593	30.3	32.0	1.7	40	16.71
16-23-jul	11:05:08	592	31.1	33.0	1.8	40	16.71
16-23-jul	12:05:08	592	32.3	33.7	1.4	40	16.71
16-23-jul	13:05:08	591	32.7	34.6	1.9	40	16.70
16-23-jul	14:05:08	591	32.7	34.8	2.1	41	16.70
16-23-jul	15:05:08	591	32.7	35.0	2.3	41	16.70
16-23-jul	16:05:08	590	32.3	34.5	2.2	41	16.71
16-23-jul	17:05:08	590	31.6	33.1	1.5	41	16.71
16-23-jul	18:05:08	590	29.9	31.2	1.3	40	16.71
16-23-jul	19:05:08	591	26.0	26.9	1.0	41	16.70
16-23-jul	20:05:08	591	17.8	18.3	0.5	41	16.71
16-23-jul	21:05:08	592	16.4	15.6	-0.8	40	16.71
16-23-jul	22:05:08	592	16.6	15.1	-1.5	40	16.71
16-23-jul	23:05:08	592	16.0	14.5	-1.4	40	16.71

BGI PQ200 Air Sampling System Downloaded 2016 01 aug 15:48:27

Job Details:

Job Name:	16Aug01D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	796:05
Flags:	

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

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	34	13.9	23.5	°C
Q	---	---	16.7	Lpm

QCV	0.55 %
Max overheat	10.4 °C
occured 01-aug 14:46:48	

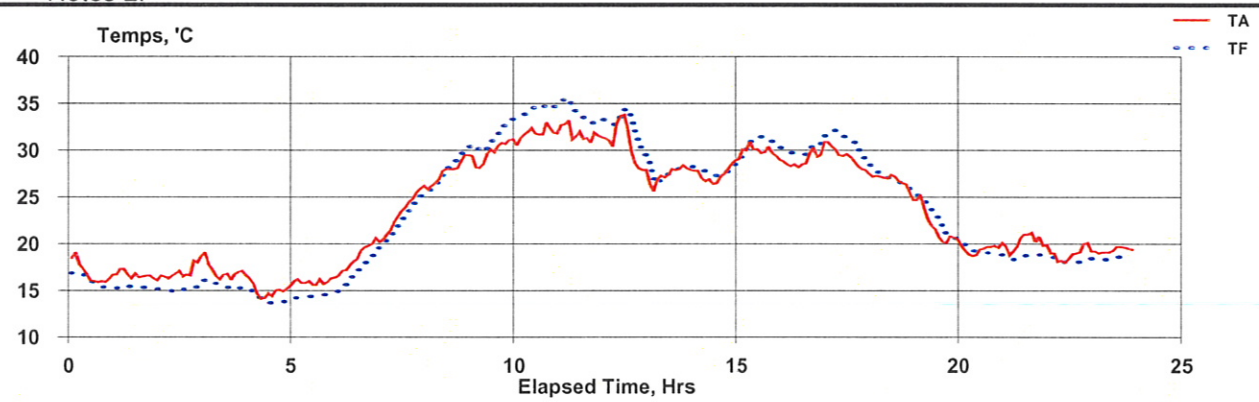
Timer Information:

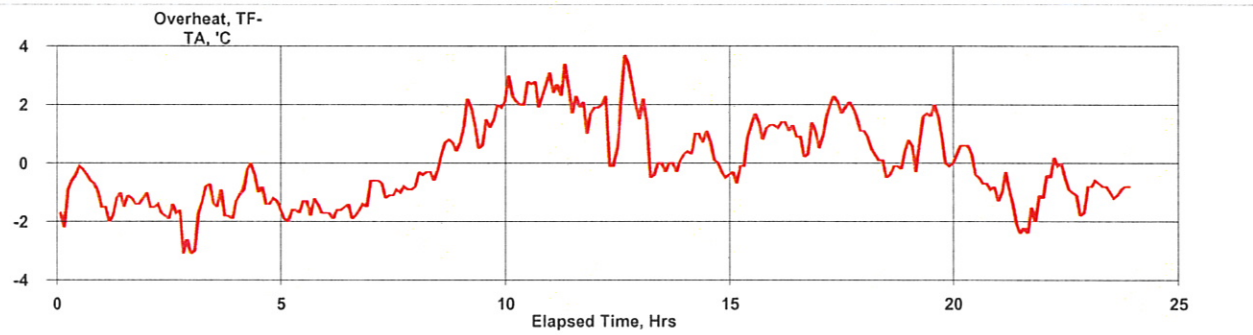
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jul	0:00:08
Stop:	16-30-jul	0:00:05
ET:	23:59	

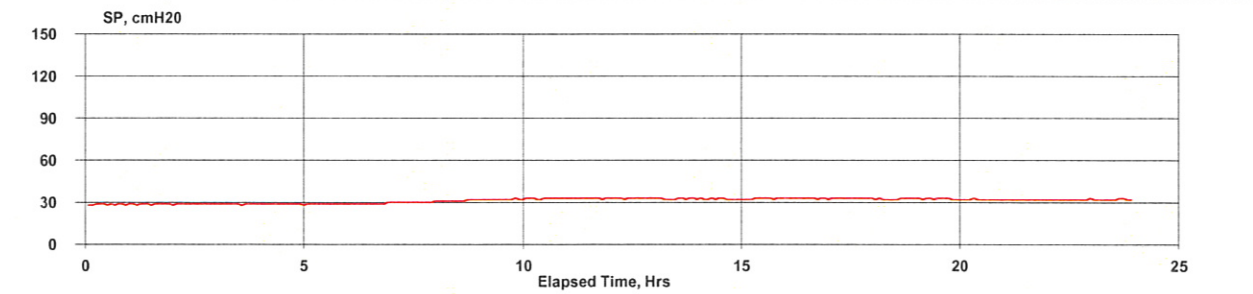
Mass Concentration Data:

Filter ID:		
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:







16-29-jul	0:05:08	593	16.9	16.0	-0.9	29	16.71
16-29-jul	1:05:08	592	16.6	15.3	-1.4	29	16.71
16-29-jul	2:05:08	592	17.1	15.1	-1.9	29	16.71
16-29-jul	3:05:08	592	17.0	15.5	-1.5	29	16.71
16-29-jul	4:05:08	592	15.0	14.0	-0.9	29	16.71
16-29-jul	5:05:08	592	16.0	14.4	-1.6	29	16.71
16-29-jul	6:05:08	593	18.7	17.2	-1.5	29	16.71
16-29-jul	7:05:08	593	23.6	22.7	-0.9	30	16.71
16-29-jul	8:05:08	592	27.8	27.9	0.1	31	16.70
16-29-jul	9:05:08	592	29.8	31.3	1.5	32	16.71
16-29-jul	10:05:08	592	31.9	34.3	2.5	33	16.71
16-29-jul	11:05:08	591	31.8	34.0	2.2	33	16.71
16-29-jul	12:05:08	591	30.6	32.5	1.8	33	16.71
16-29-jul	13:05:08	592	27.4	27.6	0.2	33	16.71
16-29-jul	14:05:08	592	27.4	27.8	0.3	32	16.71
16-29-jul	15:05:08	591	29.9	30.6	0.7	33	16.71
16-29-jul	16:05:08	591	29.1	30.1	1.0	33	16.71
16-29-jul	17:05:08	591	29.1	30.8	1.7	33	16.70
16-29-jul	18:05:08	591	26.7	26.8	0.1	33	16.71
16-29-jul	19:05:08	591	21.9	22.8	0.9	33	16.71
16-29-jul	20:05:08	592	19.4	19.2	-0.2	32	16.70
16-29-jul	21:05:08	592	20.2	18.6	-1.5	32	16.71
16-29-jul	22:05:08	592	18.9	18.2	-0.7	32	16.70
16-29-jul	23:05:08	592	19.3	18.5	-0.9	32	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 05 aug 08:33:21

Job Details:

Job Name:	16Aug05D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	820:04
Flags:	

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

	Max	Min	Avg	Units
BP	593	591	592	mmHg
TA	23.5	12.7	16.1	°C
Q	---	---	16.7	Lpm

QCV	0.49 %
Max overheat	3.3 °C
occured	04-aug 09:58:32

Timer Information:

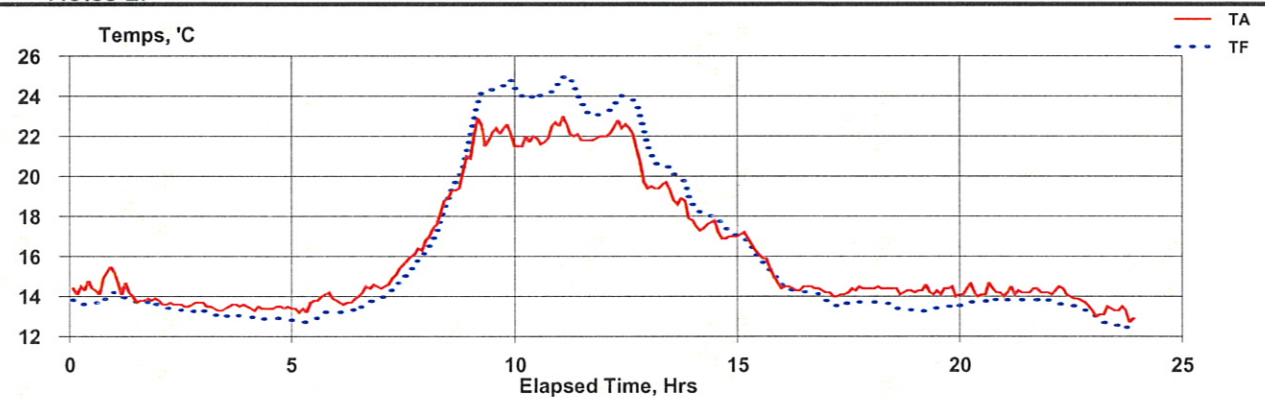
	Date dd-mmm	Time hh:mm:ss
Start:	16-04-aug	0:00:08
Stop:	16-05-aug	0:00:04
ET:	23:59	

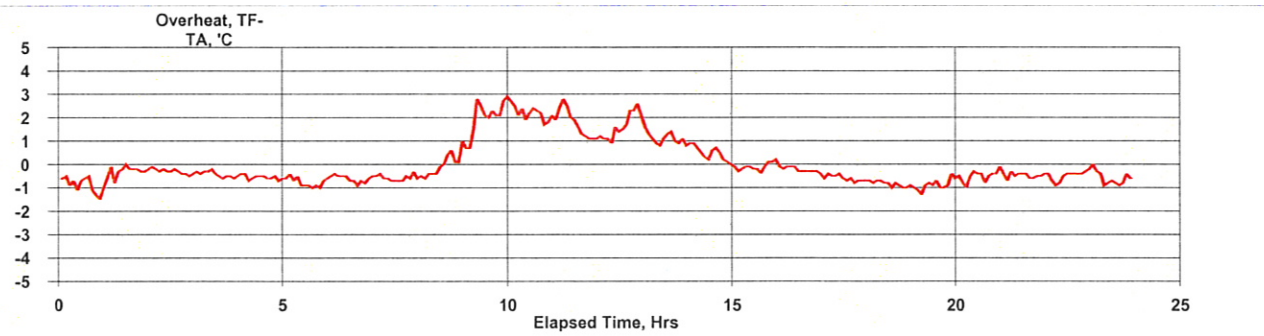
Mass Concentration Data:

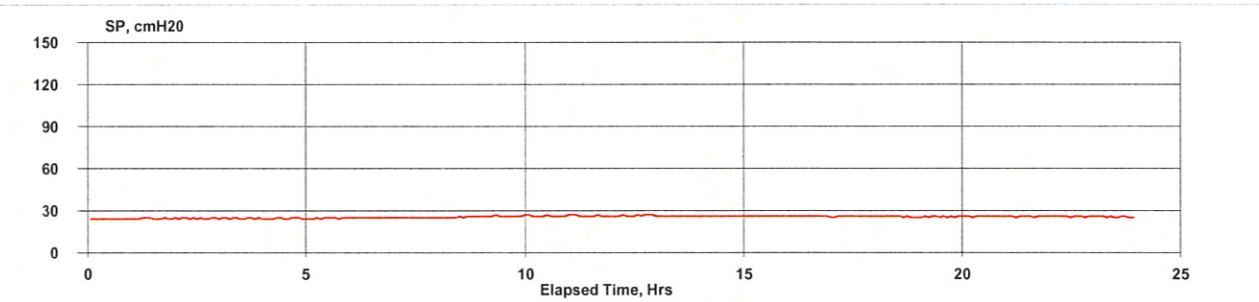
Filter ID:	12	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-04-aug	0:05:08	592	14.6	13.8	-0.9	24	16.72
16-04-aug	1:05:08	592	14.0	13.8	-0.3	24	16.71
16-04-aug	2:05:08	593	13.6	13.3	-0.3	25	16.71
16-04-aug	3:05:08	592	13.5	13.1	-0.4	25	16.71
16-04-aug	4:05:08	593	13.4	12.9	-0.6	24	16.71
16-04-aug	5:05:08	593	13.7	13.0	-0.8	25	16.71
16-04-aug	6:05:08	593	14.1	13.5	-0.6	25	16.71
16-04-aug	7:05:08	593	15.6	15.1	-0.6	25	16.72
16-04-aug	8:05:08	592	19.0	19.0	0.0	26	16.71
16-04-aug	9:05:08	592	22.2	24.2	2.0	26	16.71
16-04-aug	10:05:08	592	22.0	24.2	2.2	26	16.70
16-04-aug	11:05:08	592	22.1	23.8	1.7	26	16.71
16-04-aug	12:05:08	592	21.7	23.3	1.7	26	16.71
16-04-aug	13:05:08	592	19.0	20.1	1.1	26	16.71
16-04-aug	14:05:08	592	17.3	17.7	0.5	26	16.71
16-04-aug	15:05:08	593	16.0	15.9	-0.1	26	16.70
16-04-aug	16:05:08	593	14.4	14.2	-0.2	26	16.71
16-04-aug	17:05:08	592	14.3	13.7	-0.6	26	16.70
16-04-aug	18:05:08	592	14.3	13.5	-0.8	26	16.70
16-04-aug	19:05:08	592	14.3	13.4	-0.9	26	16.71
16-04-aug	20:05:08	592	14.3	13.8	-0.5	26	16.71
16-04-aug	21:05:08	592	14.3	13.8	-0.5	26	16.71
16-04-aug	22:05:08	592	14.0	13.5	-0.5	26	16.71
16-04-aug	23:05:08	592	13.2	12.6	-0.6	26	16.71

BGI PQ200 Air Sampling System Downloaded 2016 11 aug 14:41:14

Job Details:

Job Name: 16Aug11D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 844:03
Flags:

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	22.4	10.1	14.6	°C
Q	---	---	16.71	Lpm

QCV 0.57 %
Max overheat 2.7 °C
occured 10-aug 09:52:02

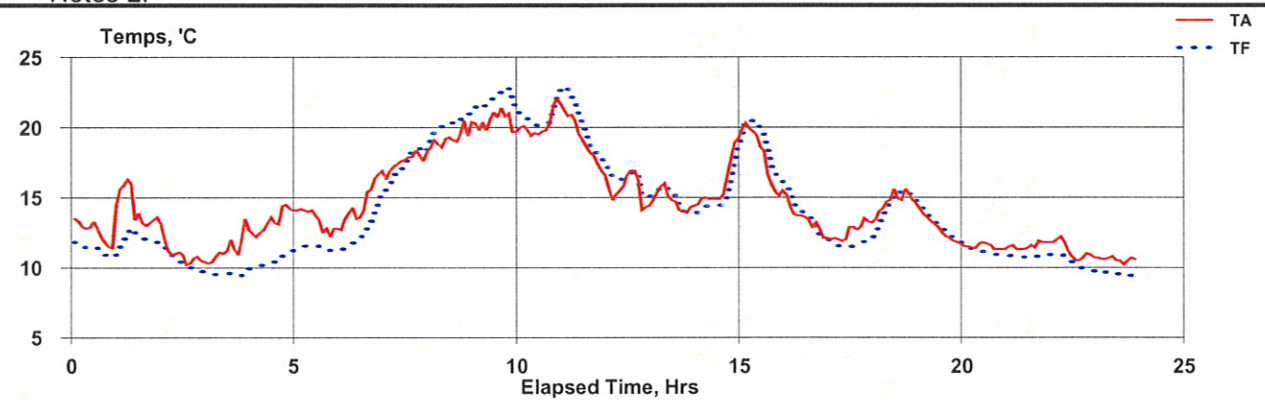
Timer Information:

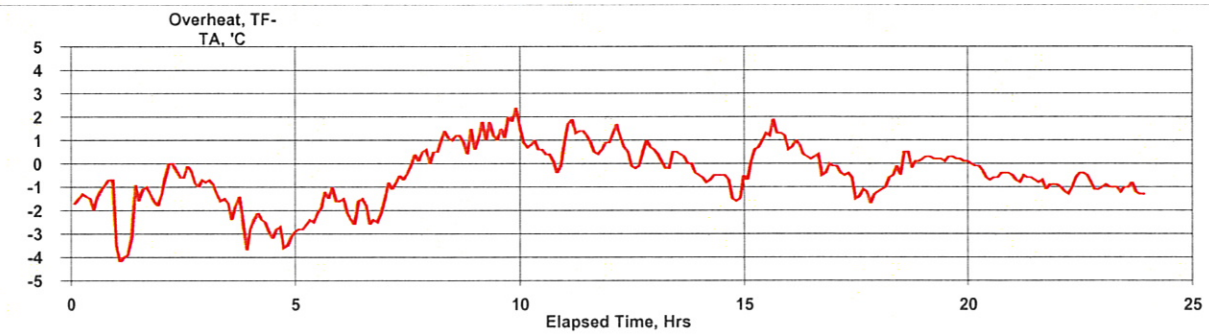
	Date dd-mmm	Time hh:mm:ss
Start:	16-10-aug	0:00:08
Stop:	16-11-aug	0:00:05
ET:	23:59	

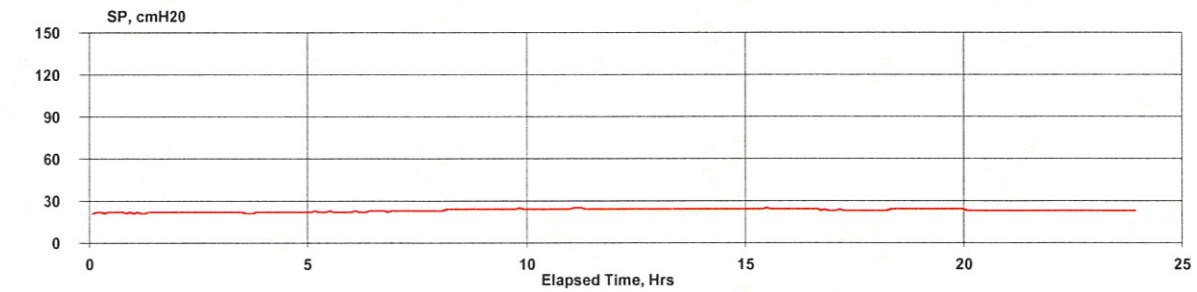
Mass Concentration Data:

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:







16-10-aug	0:05:08	591	12.7	11.3	-1.5	22	16.72
16-10-aug	1:05:08	591	14.2	12.1	-2.2	22	16.72
16-10-aug	2:05:08	591	10.8	10.4	-0.5	22	16.71
16-10-aug	3:05:08	591	11.4	9.6	-1.9	22	16.71
16-10-aug	4:05:08	591	13.3	10.5	-2.8	22	16.71
16-10-aug	5:05:08	592	13.4	11.4	-2.0	22	16.72
16-10-aug	6:05:08	592	14.7	12.7	-2.1	23	16.71
16-10-aug	7:05:08	592	17.6	17.4	-0.2	23	16.72
16-10-aug	8:05:08	592	19.3	20.2	0.9	24	16.71
16-10-aug	9:05:08	592	20.4	22.0	1.5	24	16.69
16-10-aug	10:05:08	592	20.3	20.8	0.5	24	16.71
16-10-aug	11:05:08	593	19.0	20.1	1.1	24	16.71
16-10-aug	12:05:08	593	15.5	16.2	0.6	24	16.71
16-10-aug	13:05:08	593	14.8	14.8	0.1	24	16.70
16-10-aug	14:05:08	593	16.0	15.1	-0.8	24	16.72
16-10-aug	15:05:08	592	17.9	18.8	0.9	24	16.72
16-10-aug	16:05:08	593	13.4	13.7	0.3	24	16.72
16-10-aug	17:05:08	593	12.6	11.7	-1.0	23	16.71
16-10-aug	18:05:08	593	14.7	14.5	-0.2	24	16.72
16-10-aug	19:05:08	593	12.8	13.0	0.2	24	16.71
16-10-aug	20:05:08	593	11.5	11.1	-0.4	23	16.71
16-10-aug	21:05:08	593	11.6	10.8	-0.8	23	16.71
16-10-aug	22:05:08	593	11.2	10.3	-0.9	23	16.71
16-10-aug	23:05:08	593	10.6	9.5	-1.1	23	16.70

BGI PQ200 Air Sampling System Downloaded 2016 19 aug 10:44:21

Job Details:

Job Name:	16Aug19D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	868:02
Flags:	

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

	Max	Min	Avg	Units
BP	594	592	593	mmHg
TA	29.8	10	20	°C
Q	---	---	16.7	Lpm

QCV	0.53 %
Max overheat	4 °C
occured	16-aug 15:24:29

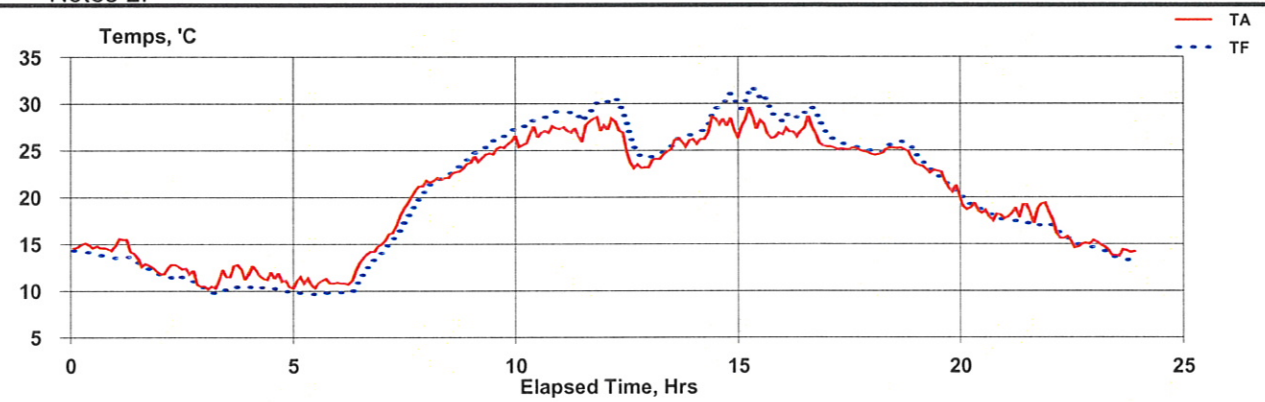
Timer Information:

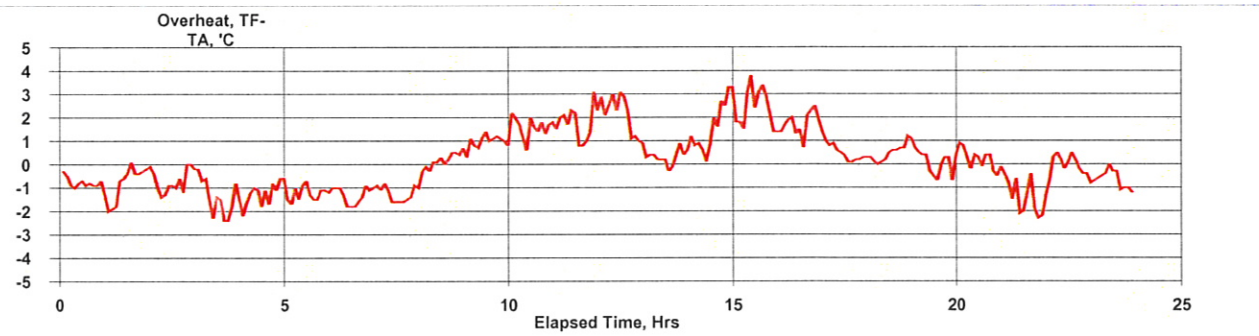
	Date dd-mmm	Time hh:mm:ss
Start:	16-16-aug	0:00:08
Stop:	16-17-aug	0:00:05
ET:	23:59	

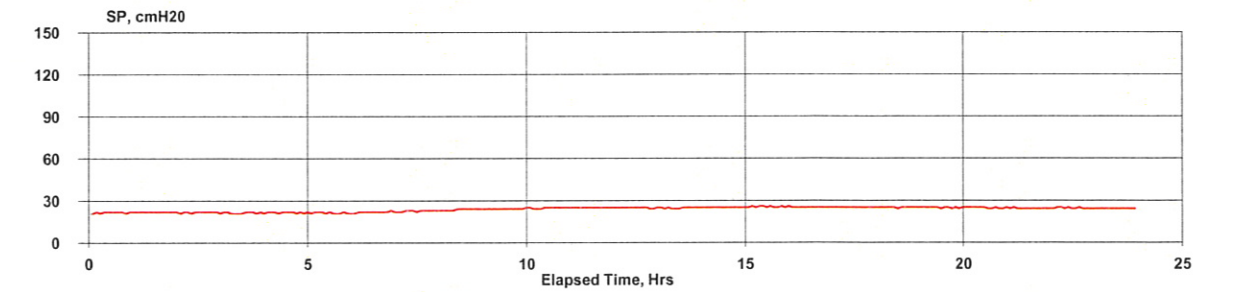
Mass Concentration Data:

Filter ID:	35	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-16-aug	0:05:08	594	14.7	13.9	-0.8	22	16.71
16-16-aug	1:05:08	594	13.6	12.9	-0.7	22	16.72
16-16-aug	2:05:08	593	11.9	11.2	-0.7	22	16.72
16-16-aug	3:05:08	593	11.5	10.1	-1.4	22	16.71
16-16-aug	4:05:08	593	11.4	10.2	-1.2	22	16.72
16-16-aug	5:05:08	594	11.0	9.7	-1.3	21	16.71
16-16-aug	6:05:08	594	12.9	11.5	-1.3	22	16.72
16-16-aug	7:05:08	594	18.8	17.6	-1.3	23	16.71
16-16-aug	8:05:08	594	22.5	22.7	0.2	24	16.71
16-16-aug	9:05:08	594	25.0	26.0	1.0	24	16.71
16-16-aug	10:05:08	593	26.7	28.3	1.6	25	16.71
16-16-aug	11:05:08	593	27.4	29.2	1.8	25	16.71
16-16-aug	12:05:08	593	25.2	27.3	2.1	25	16.70
16-16-aug	13:05:08	593	25.2	25.5	0.3	25	16.71
16-16-aug	14:05:08	592	27.3	29.0	1.7	25	16.71
16-16-aug	15:05:08	592	27.5	29.9	2.4	26	16.70
16-16-aug	16:05:08	592	26.8	28.6	1.7	25	16.71
16-16-aug	17:05:08	592	25.1	25.5	0.5	25	16.71
16-16-aug	18:05:08	592	24.8	25.3	0.5	25	16.70
16-16-aug	19:05:08	592	22.1	22.2	0.1	25	16.71
16-16-aug	20:05:08	593	18.4	18.6	0.2	25	16.71
16-16-aug	21:05:08	593	18.6	17.2	-1.4	24	16.71
16-16-aug	22:05:08	593	15.5	15.4	-0.1	24	16.71
16-16-aug	23:05:08	594	14.3	13.7	-0.6	24	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 25 aug 09:38:05

Job Details:

Job Name: 16Aug25D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 892:01
Flags:

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

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	24.3	9.2	13.8	°C
Q	---	---	16.71	Lpm

QCV 0.58 %

Max overheat 7.5 °C
occured 24-aug 13:56:13

Timer Information:

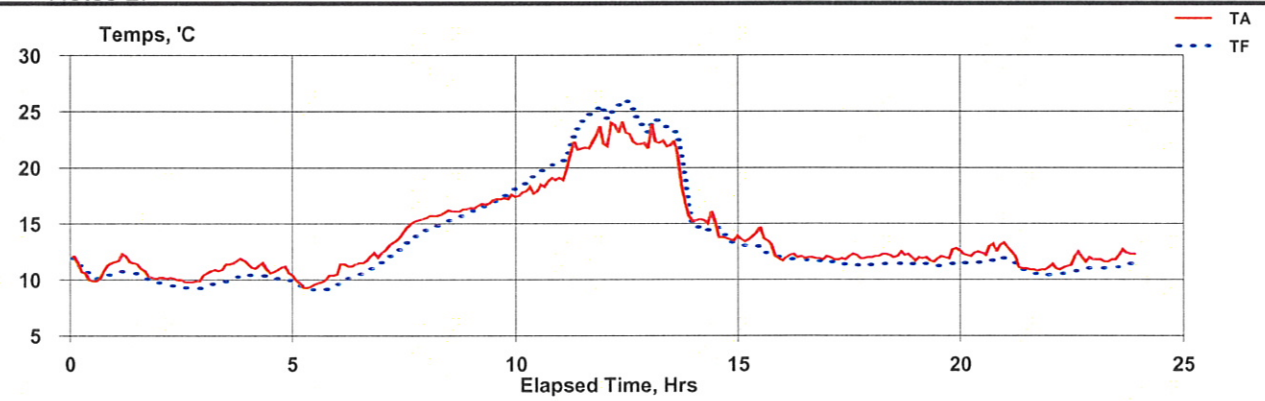
	Date dd-mmm	Time hh:mm:ss
Start:	16-22-aug	0:00:08
Stop:	16-23-aug	0:00:04

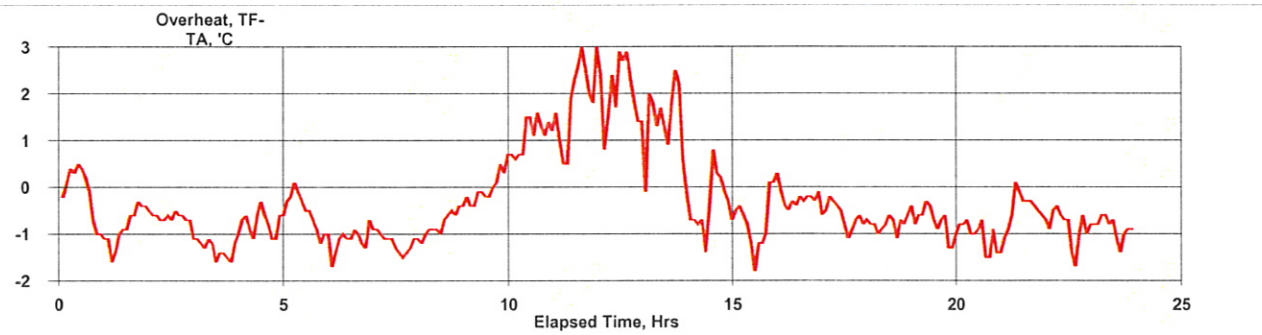
ET: 23:59

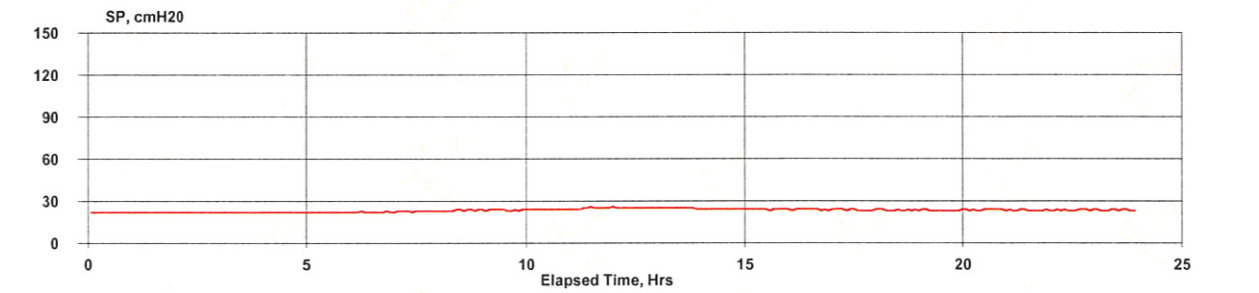
Mass Concentration Data:

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

Notes 1:
Notes 2:







16-22-aug	0:05:08	592	10.8	10.7	-0.2	22	16.72
16-22-aug	1:05:08	591	11.1	10.3	-0.8	22	16.72
16-22-aug	2:05:08	591	10.0	9.3	-0.7	22	16.71
16-22-aug	3:05:08	591	11.3	10.0	-1.3	22	16.71
16-22-aug	4:05:08	591	10.9	10.2	-0.8	22	16.71
16-22-aug	5:05:08	592	9.8	9.3	-0.6	22	16.72
16-22-aug	6:05:08	592	11.7	10.6	-1.1	22	16.71
16-22-aug	7:05:08	592	14.3	13.1	-1.2	23	16.71
16-22-aug	8:05:08	592	16.0	15.3	-0.8	24	16.72
16-22-aug	9:05:08	592	17.0	17.0	0.0	24	16.70
16-22-aug	10:05:08	592	18.3	19.4	1.1	24	16.71
16-22-aug	11:05:08	592	21.7	23.6	1.9	25	16.71
16-22-aug	12:05:08	591	22.8	24.8	2.0	25	16.70
16-22-aug	13:05:08	591	20.4	21.7	1.3	25	16.71
16-22-aug	14:05:08	591	14.5	14.2	-0.4	24	16.71
16-22-aug	15:05:08	592	13.3	12.6	-0.7	24	16.71
16-22-aug	16:05:08	593	12.0	11.7	-0.3	24	16.71
16-22-aug	17:05:08	592	12.0	11.4	-0.6	24	16.71
16-22-aug	18:05:08	592	12.2	11.4	-0.8	23	16.71
16-22-aug	19:05:08	592	12.1	11.3	-0.8	23	16.71
16-22-aug	20:05:08	592	12.6	11.6	-1.1	24	16.70
16-22-aug	21:05:08	592	11.3	10.9	-0.5	23	16.72
16-22-aug	22:05:08	592	11.6	10.7	-0.9	24	16.71
16-22-aug	23:05:08	592	12.0	11.2	-0.9	23	16.72

BGI PQ200 Air Sampling System Downloaded 2016 29 aug 14:45:50

Job Details:

Job Name: 16Aug29D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 916:00
Flags:

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

	Max	Min	Avg	Units
BP	595	592	594	mmHg
TA	23	7.2	14.1	°C
Q	---	---	16.7	Lpm

QCV 0.54 %

Max overheat 5.4 °C
occured 28-aug 14:40:25

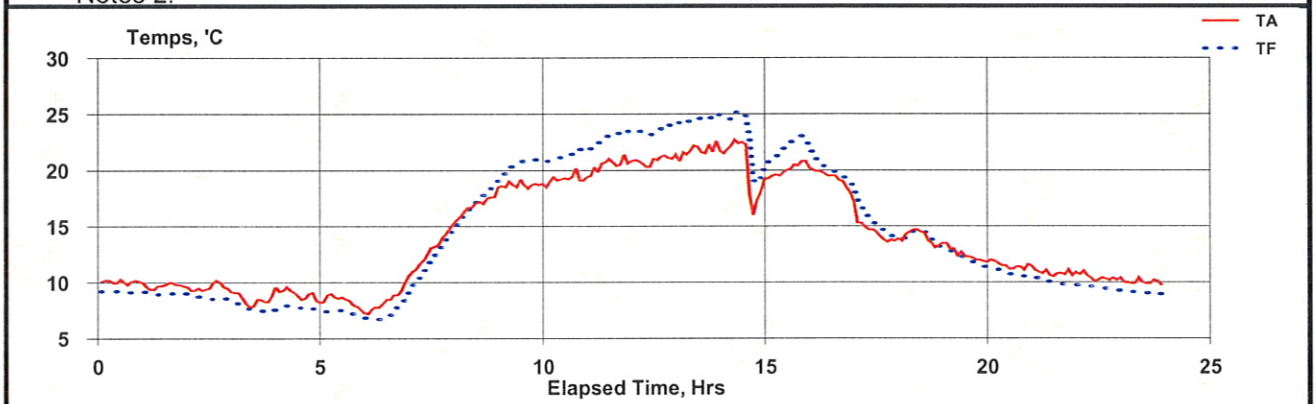
Timer Information:

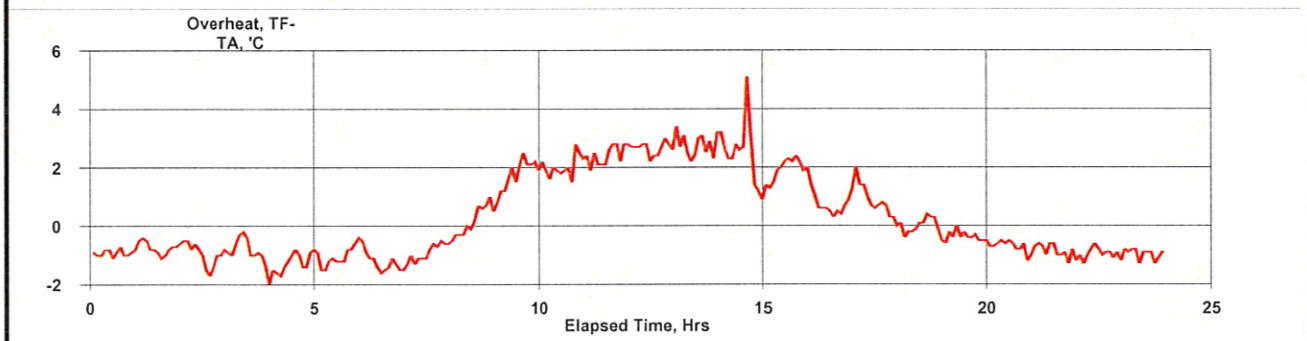
	Date dd-mmm	Time hh:mm:ss
Start:	16-28-aug	0:00:08
Stop:	16-29-aug	0:00:05
ET:	23:59	

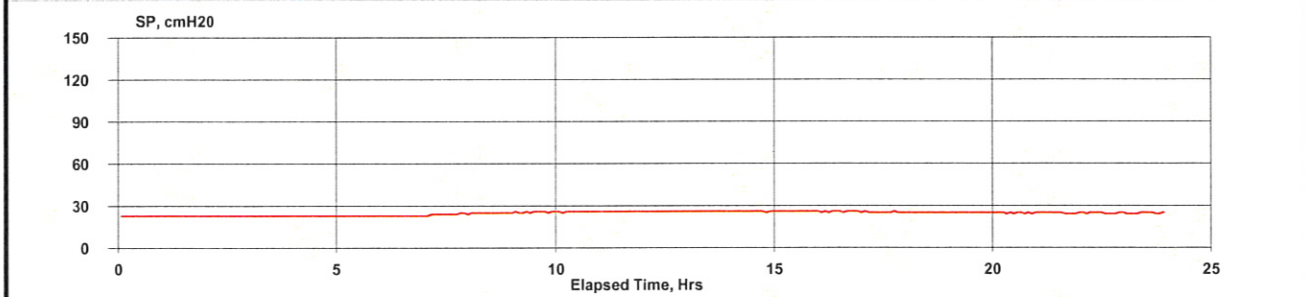
Mass Concentration Data:

Filter ID:	7	
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:







16-28-aug	0:05:08	594	10.1	9.2	-0.9	23	16.72
16-28-aug	1:05:08	594	9.7	9.0	-0.7	23	16.71
16-28-aug	2:05:08	594	9.6	8.6	-1.0	23	16.72
16-28-aug	3:05:08	594	8.6	7.7	-0.9	23	16.71
16-28-aug	4:05:08	594	8.9	7.7	-1.2	23	16.71
16-28-aug	5:05:08	594	8.3	7.3	-1.0	23	16.72
16-28-aug	6:05:08	595	8.6	7.4	-1.2	23	16.71
16-28-aug	7:05:08	595	13.0	12.2	-0.9	24	16.72
16-28-aug	8:05:08	595	17.0	17.2	0.2	25	16.71
16-28-aug	9:05:08	595	18.7	20.5	1.8	26	16.70
16-28-aug	10:05:08	595	19.2	21.3	2.0	26	16.71
16-28-aug	11:05:08	594	20.5	23.0	2.4	26	16.71
16-28-aug	12:05:08	594	20.9	23.6	2.7	26	16.72
16-28-aug	13:05:08	594	21.8	24.5	2.8	26	16.71
16-28-aug	14:05:08	594	20.3	22.9	2.5	26	16.71
16-28-aug	15:05:08	594	20.0	22.0	1.9	26	16.71
16-28-aug	16:05:08	594	19.2	19.9	0.7	26	16.71
16-28-aug	17:05:08	594	14.4	15.2	0.8	25	16.71
16-28-aug	18:05:08	594	14.0	14.0	0.0	25	16.71
16-28-aug	19:05:08	594	12.4	12.1	-0.4	25	16.71
16-28-aug	20:05:08	595	11.5	10.8	-0.7	25	16.72
16-28-aug	21:05:08	595	10.8	10.0	-0.9	25	16.72
16-28-aug	22:05:08	595	10.4	9.5	-1.0	25	16.71
16-28-aug	23:05:08	595	10.0	9.0	-1.0	24	16.71

BGI PQ200 Air Sampling System Downloaded 2016 06 sep 17:18:27

Job Details:

Job Name: 16Sep06D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 939:59
Flags:

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

	Max	Min	Avg	Units
BP	591	587	589	mmHg
TA	23.6	8.9	15	°C
Q	---	---	16.7	Lpm

QCV 0.54 %

Max overheat 3.5 °C
occured 04-sep 19:49:30

Timer Information:

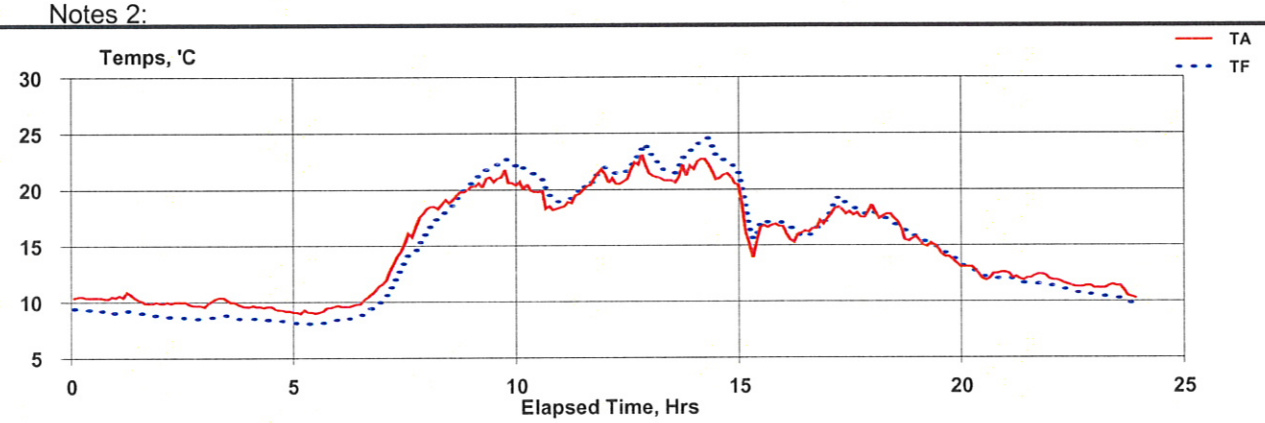
	Date dd-mmm	Time hh:mm:ss
Start:	16-03-sep	0:00:08
Stop:	16-04-sep	0:00:04

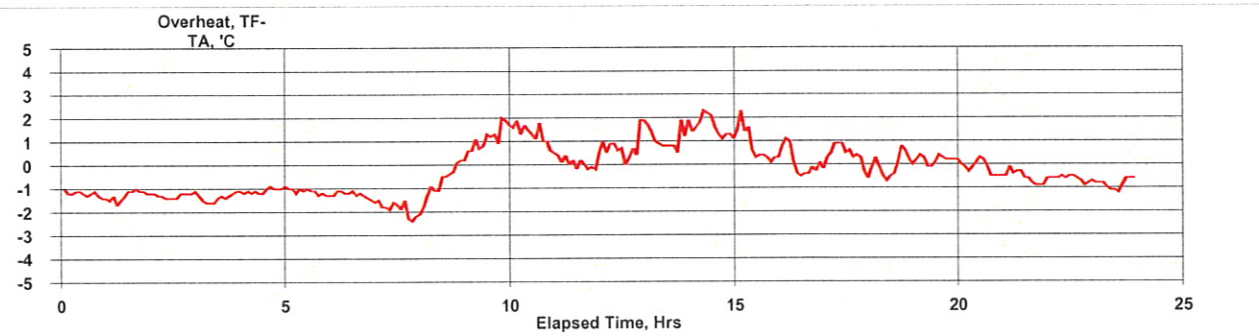
ET: 23:59

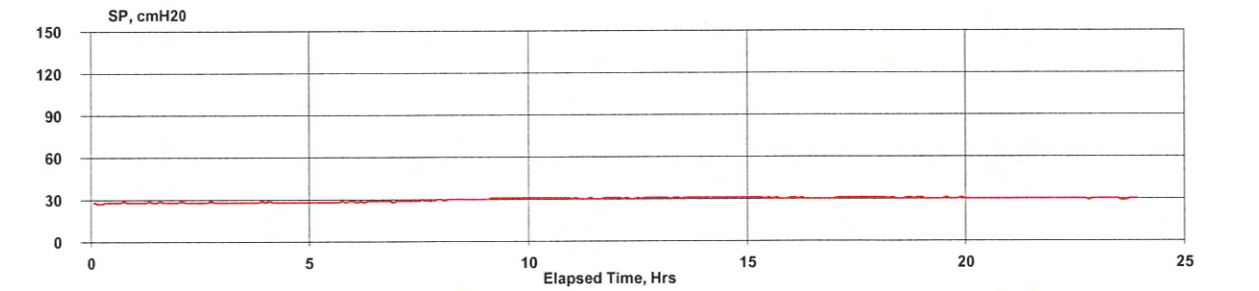
Mass Concentration Data:

Filter ID:	23	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-03-sep	0:05:08	591	10.4	9.2	-1.2	28	16.71
16-03-sep	1:05:08	591	10.2	9.0	-1.3	28	16.72
16-03-sep	2:05:08	591	9.9	8.6	-1.3	28	16.71
16-03-sep	3:05:08	590	10.0	8.6	-1.4	28	16.71
16-03-sep	4:05:08	590	9.4	8.4	-1.1	28	16.71
16-03-sep	5:05:08	590	9.3	8.1	-1.1	28	16.71
16-03-sep	6:05:08	591	10.3	9.0	-1.3	29	16.71
16-03-sep	7:05:08	591	15.3	13.5	-1.9	29	16.71
16-03-sep	8:05:08	590	19.2	18.6	-0.6	30	16.71
16-03-sep	9:05:08	590	20.8	22.0	1.2	31	16.71
16-03-sep	10:05:08	590	19.4	20.6	1.3	31	16.71
16-03-sep	11:05:08	590	20.1	20.2	0.1	31	16.74
16-03-sep	12:05:08	589	21.4	22.3	0.8	31	16.72
16-03-sep	13:05:08	589	21.2	22.4	1.1	31	16.71
16-03-sep	14:05:08	588	21.5	23.1	1.6	31	16.71
16-03-sep	15:05:08	588	16.4	17.2	0.8	31	16.70
16-03-sep	16:05:08	588	16.3	16.4	0.1	30	16.71
16-03-sep	17:05:08	588	18.0	18.4	0.4	31	16.72
16-03-sep	18:05:08	588	16.8	16.8	0.0	31	16.72
16-03-sep	19:05:08	588	14.4	14.6	0.2	30	16.72
16-03-sep	20:05:08	588	12.6	12.4	-0.2	30	16.70
16-03-sep	21:05:08	588	12.2	11.6	-0.6	30	16.71
16-03-sep	22:05:08	588	11.5	10.9	-0.6	30	16.71
16-03-sep	23:05:08	588	11.0	10.2	-0.9	30	16.71

BGI PQ200 Air Sampling System Downloaded 2016 16 sep 14:11:00

Job Details:

Job Name:	16Sep16D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	987:58
Flags:	

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

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	21.4	2.2	12.2	°C
Q	---	---	16.7	Lpm

QCV	0.5 %
Max overheat	3.6 °C
occured	15-sep 11:24:21

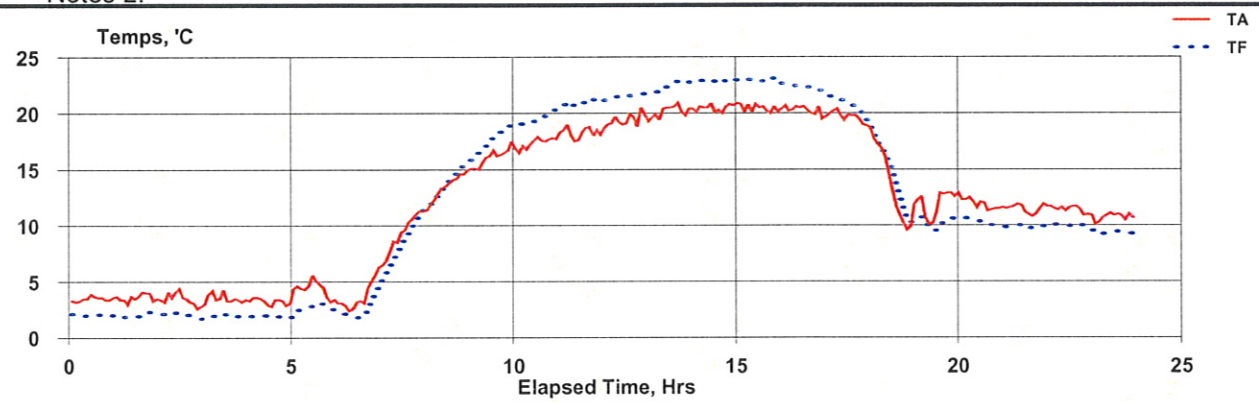
Timer Information:

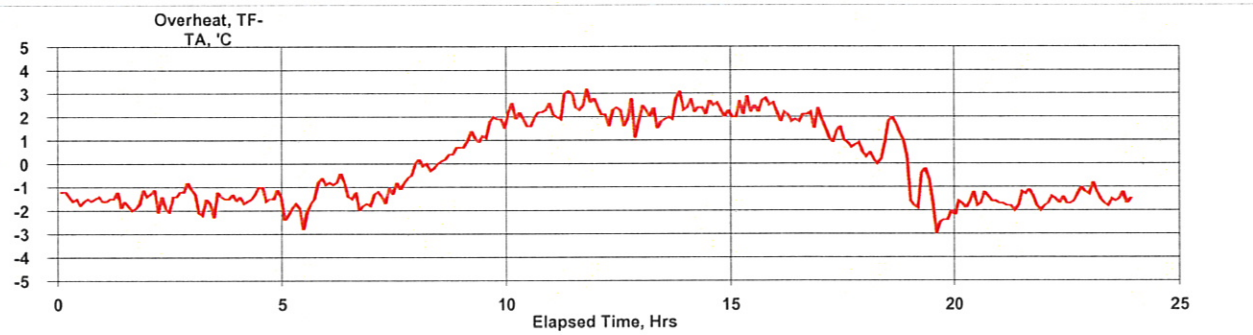
	Date dd-mmm	Time hh:mm:ss
Start:	16-15-sep	0:00:08
Stop:	16-16-sep	0:00:04
ET:	24:00:00	

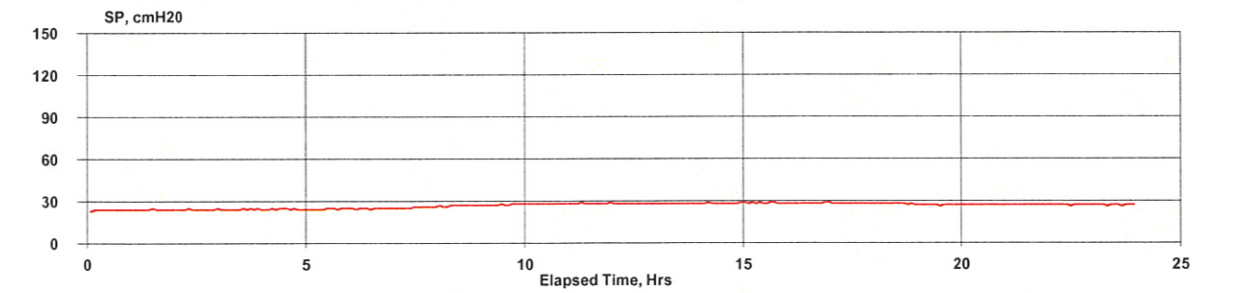
Mass Concentration Data:

Filter ID:	12	
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:







16-15-sep	0:04:54	592	3.5	2.0	-1.5	24	16.73
16-15-sep	1:04:54	592	3.6	2.0	-1.6	24	16.72
16-15-sep	2:04:54	592	3.5	2.1	-1.4	24	16.71
16-15-sep	3:04:54	592	3.5	1.9	-1.6	24	16.71
16-15-sep	4:04:54	592	3.3	1.9	-1.4	24	16.71
16-15-sep	5:04:54	592	4.4	2.7	-1.7	25	16.70
16-15-sep	6:04:54	593	3.8	2.5	-1.3	25	16.71
16-15-sep	7:04:54	593	9.3	8.3	-1.0	26	16.71
16-15-sep	8:04:54	593	13.5	13.6	0.2	27	16.70
16-15-sep	9:04:54	593	16.1	17.5	1.4	27	16.71
16-15-sep	10:04:54	592	17.4	19.5	2.1	28	16.71
16-15-sep	11:04:54	592	18.3	20.9	2.6	28	16.70
16-15-sep	12:04:54	592	19.4	21.4	2.0	28	16.72
16-15-sep	13:04:54	591	20.1	22.3	2.2	28	16.72
16-15-sep	14:04:54	591	20.5	22.9	2.4	28	16.70
16-15-sep	15:04:54	590	20.5	22.9	2.4	28	16.71
16-15-sep	16:04:54	590	20.3	22.3	2.0	28	16.71
16-15-sep	17:04:54	590	19.7	20.8	1.1	28	16.71
16-15-sep	18:04:54	590	13.9	14.8	0.9	28	16.72
16-15-sep	19:04:54	591	11.9	10.2	-1.7	27	16.70
16-15-sep	20:04:54	592	12.0	10.3	-1.6	27	16.70
16-15-sep	21:04:54	592	11.5	9.8	-1.6	27	16.71
16-15-sep	22:04:54	592	11.5	10.0	-1.5	27	16.70
16-15-sep	23:04:54	592	10.8	9.3	-1.4	27	16.72

BGI PQ200 Air Sampling System Downloaded 2016 23 sep 13:39:04

Job Details:

Job Name: 16Sep23D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 1011:57
Flags:

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

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	13.6	10.9	12.3	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 4.8 °C
occured 22-sep 17:48:57

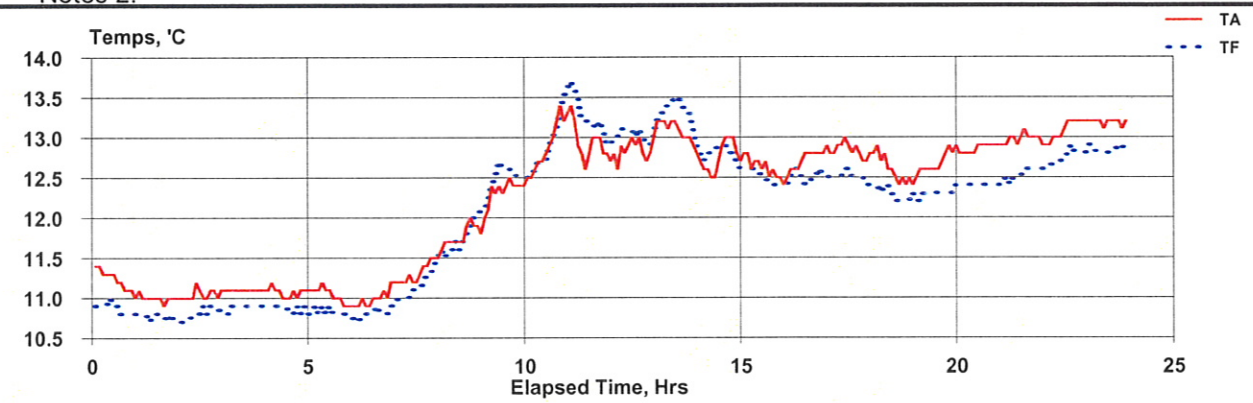
Timer Information:

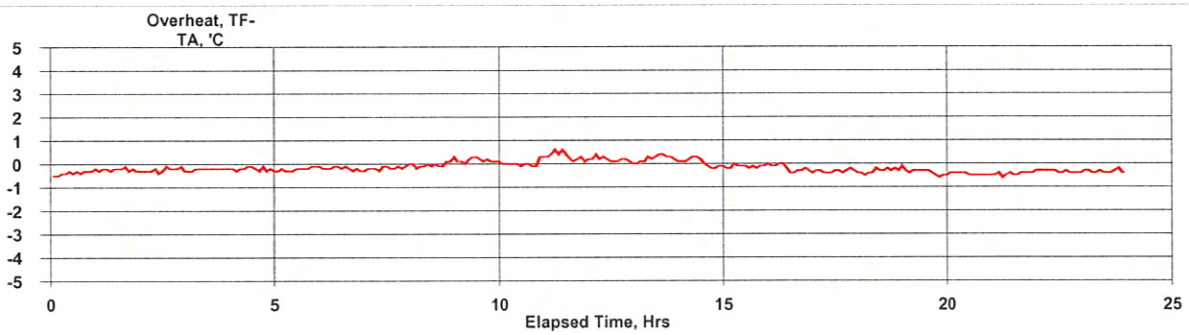
	Date dd-mmm	Time hh:mm:ss
Start:	16-21-sep	0:00:08
Stop:	16-22-sep	0:00:05
ET:	23:59	

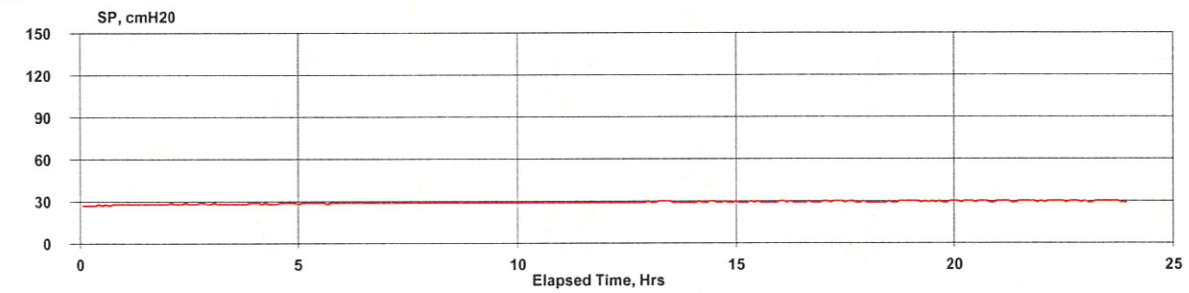
Mass Concentration Data:

Filter ID:	19	
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:







16-21-sep	0:05:08	593	11.2	10.9	-0.4	28	16.71
16-21-sep	1:05:08	593	11.0	10.8	-0.2	28	16.71
16-21-sep	2:05:08	592	11.1	10.8	-0.2	28	16.71
16-21-sep	3:05:08	592	11.1	10.9	-0.2	28	16.71
16-21-sep	4:05:08	592	11.1	10.9	-0.2	29	16.71
16-21-sep	5:05:08	592	11.0	10.8	-0.2	29	16.71
16-21-sep	6:05:08	592	11.0	10.8	-0.2	29	16.71
16-21-sep	7:05:08	592	11.3	11.2	-0.2	29	16.71
16-21-sep	8:05:08	592	11.8	11.8	0.0	29	16.71
16-21-sep	9:05:08	592	12.3	12.5	0.2	29	16.72
16-21-sep	10:05:08	592	12.9	12.9	0.0	29	16.71
16-21-sep	11:05:08	592	12.9	13.2	0.3	29	16.70
16-21-sep	12:05:08	592	12.9	13.0	0.2	29	16.71
16-21-sep	13:05:08	591	13.1	13.3	0.2	29	16.71
16-21-sep	14:05:08	591	12.8	12.8	0.0	29	16.71
16-21-sep	15:05:08	591	12.6	12.5	-0.1	29	16.71
16-21-sep	16:05:08	591	12.7	12.5	-0.2	29	16.71
16-21-sep	17:05:08	591	12.8	12.5	-0.3	30	16.71
16-21-sep	18:05:08	590	12.6	12.3	-0.3	29	16.70
16-21-sep	19:05:08	590	12.7	12.3	-0.4	30	16.71
16-21-sep	20:05:08	590	12.9	12.4	-0.5	30	16.70
16-21-sep	21:05:08	590	13.0	12.5	-0.4	30	16.71
16-21-sep	22:05:08	590	13.1	12.7	-0.3	30	16.70
16-21-sep	23:05:08	590	13.2	12.8	-0.3	30	16.72

BGI PQ200 Air Sampling System Downloaded 2016 29 sep 14:00:09

Job Details:

Job Name: 16Sep29D.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1045:28
Flags:

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

	Max	Min	Avg	Units
BP	595	593	593	mmHg
TA	22.3	5	13.2	°C
Q	---	---	16.7	Lpm

QCV 0.47 %

Max overheat 3.9 °C
occured 29-sep 12:49:09

Timer Information:

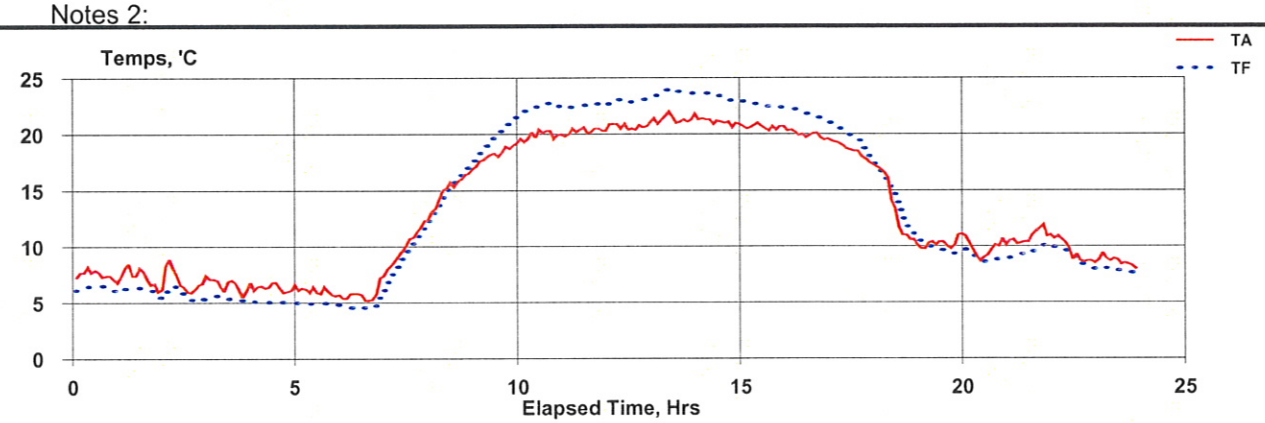
	Date dd-mmm	Time hh:mm:ss
Start:	16-27-sep	0:00:08
Stop:	16-28-sep	0:00:05

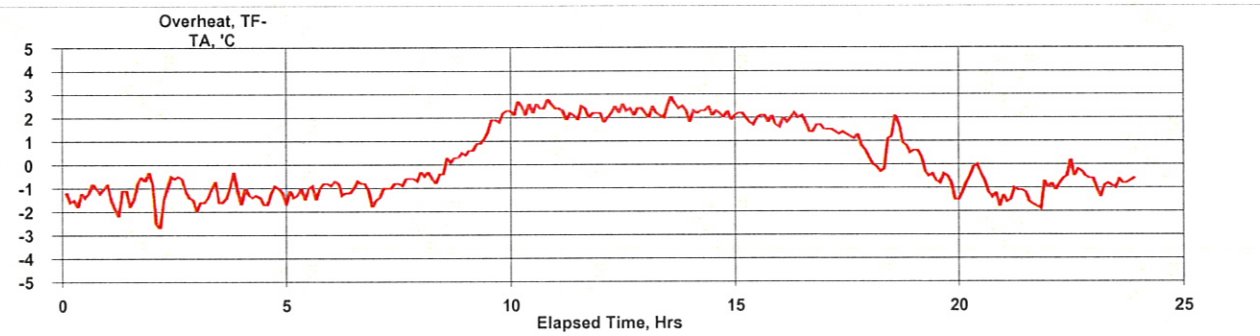
ET: 23:59

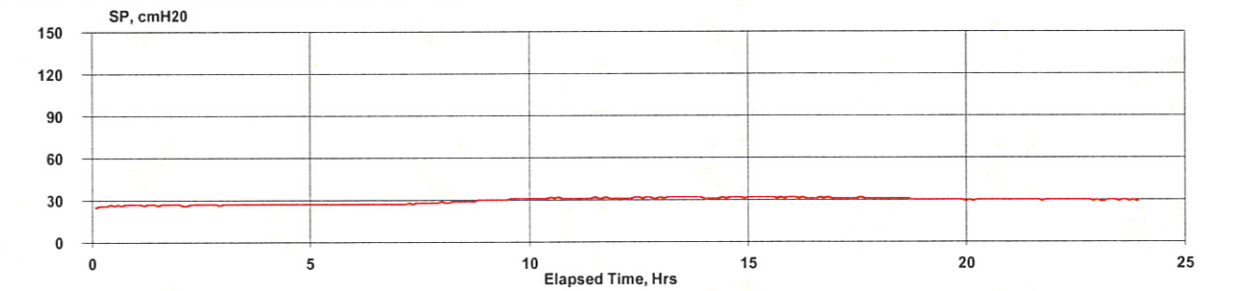
Mass Concentration Data:

Filter ID:	35	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-27-sep	0:05:08	595	7.5	6.3	-1.2	26	16.70
16-27-sep	1:05:08	595	7.3	6.1	-1.2	27	16.71
16-27-sep	2:05:08	595	7.0	5.7	-1.3	27	16.70
16-27-sep	3:05:08	594	6.6	5.3	-1.2	27	16.69
16-27-sep	4:05:08	594	6.4	5.0	-1.3	27	16.71
16-27-sep	5:05:08	594	6.0	4.9	-1.1	27	16.69
16-27-sep	6:05:08	594	5.8	4.8	-1.1	27	16.72
16-27-sep	7:05:08	595	10.3	9.4	-0.8	28	16.70
16-27-sep	8:05:08	595	15.3	15.2	-0.1	29	16.71
16-27-sep	9:05:08	595	18.3	19.8	1.5	31	16.71
16-27-sep	10:05:08	595	19.9	22.4	2.5	31	16.71
16-27-sep	11:05:08	595	20.3	22.5	2.2	31	16.71
16-27-sep	12:05:08	594	20.7	23.0	2.3	31	16.70
16-27-sep	13:05:08	594	21.4	23.7	2.3	32	16.71
16-27-sep	14:05:08	593	21.1	23.3	2.2	32	16.72
16-27-sep	15:05:08	593	20.6	22.6	1.9	32	16.70
16-27-sep	16:05:08	593	20.0	21.8	1.8	31	16.70
16-27-sep	17:05:08	593	18.5	19.6	1.1	31	16.71
16-27-sep	18:05:08	593	13.3	14.0	0.7	31	16.70
16-27-sep	19:05:08	593	10.3	9.7	-0.5	30	16.70
16-27-sep	20:05:08	593	9.8	8.9	-0.9	30	16.70
16-27-sep	21:05:08	594	10.8	9.5	-1.4	30	16.69
16-27-sep	22:05:08	593	9.5	8.9	-0.5	30	16.71
16-27-sep	23:05:08	594	8.6	7.8	-0.9	30	16.71

Collocated Monitor 2398E

PM_{10} Sampler Summary

July 1, 2016 - September 30, 2016

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

AQS ID:

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
07/05/16	P2930771	**212.9**	**268.4**	23:59	24.0	19.1	379.675	384.792	5.117		
07/11/16	P2930776	**183.8**	**231.5**	23:59	24.0	19.1	374.070	378.488	4.418	HT	
07/17/16	P2930994	**27.7**	**35.1**	24:00	24.0	19.0	374.806	375.473	0.667	HT	
07/23/16	P2930999	**10.9**	**14.0**	23:59	24.0	18.9	400.134	400.398	0.264		
07/29/16	P2931004	**27.5**	**35.2**	23:59	24.0	18.8	360.893	361.555	0.662		
08/04/16	P2931181	**10.2**	**12.7**	23:59	24.0	19.3	379.043	379.289	0.246	HT	
08/10/16	P2931187	**22.1**	**27.4**	23:59	24.0	19.4	384.621	385.153	0.532	HT	
08/16/16	P2931432	**21.5**	**27.1**	23:59	24.0	19.1	377.339	377.856	0.517		
08/22/16	P2931439	**17.2**	**21.2**	23:59	24.0	19.4	381.216	381.630	0.414		
08/28/16	P2931715	**4.5**	**5.6**	23:59	24.0	19.5	376.695	376.805	0.110		
09/03/16	P2931720	**8.5**	**10.6**	23:59	24.0	19.3	381.890	382.095	0.205	HT	
09/09/16	P2931725	**Invalid - AG**	**Invalid - AG**	87:05	87.2	69.9	369.441	372.002	2.561	SP,CI	
09/15/16	P2932019	**24.1**	**29.6**	24:00	24.0	19.6	373.112	373.692	0.580		Darker
09/21/16	P2932024	**4.7**	**5.8**	23:59	24.0	19.5	383.329	383.444	0.115		
09/27/16	P2933161	**Invalid - AI**	**Invalid - AI**				370.920	371.376	0.456	SP,MD	
09/12/16	P2932018		**Field Blank**				378.109	378.117	0.008		

# Valid	Recovery	Average	St. Dev.	Max	Min
13	**87%**	**55.7**	**87.1**	**268.4**	**5.6**

BGI PQ200 Air Sampling System Downloaded 2016 07 jul 13:23:51

Job Details:

Job Name: 16Jul07E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 646:34
Flags:

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

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	30.1	8.6	19.6	°C
Q	---	---	16.7	Lpm

QCV 0.44 %
Max overheat 4.3 °C
occured 06-jul 21:37:09

Timer Information:

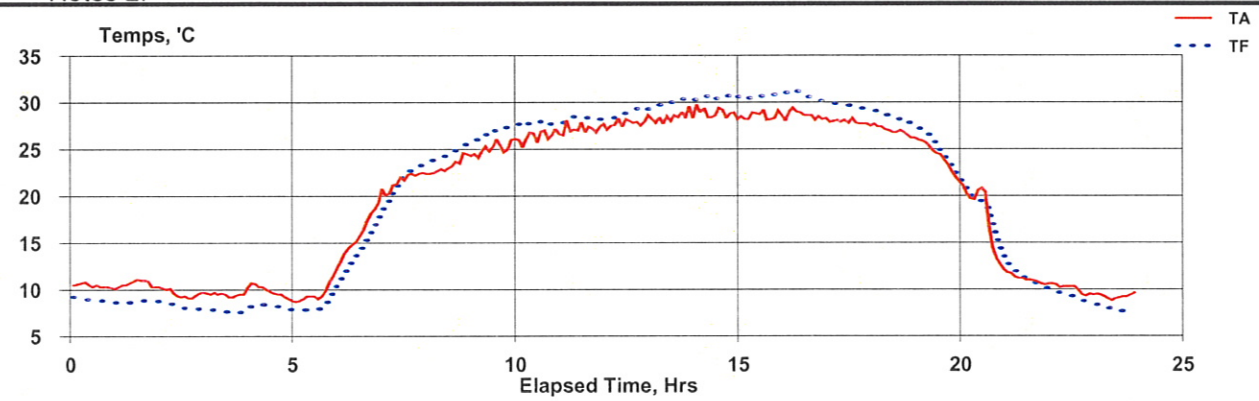
	Date dd-mmm	Time hh:mm:ss
Start:	16-05-jul	0:00:08
Stop:	16-06-jul	0:00:05

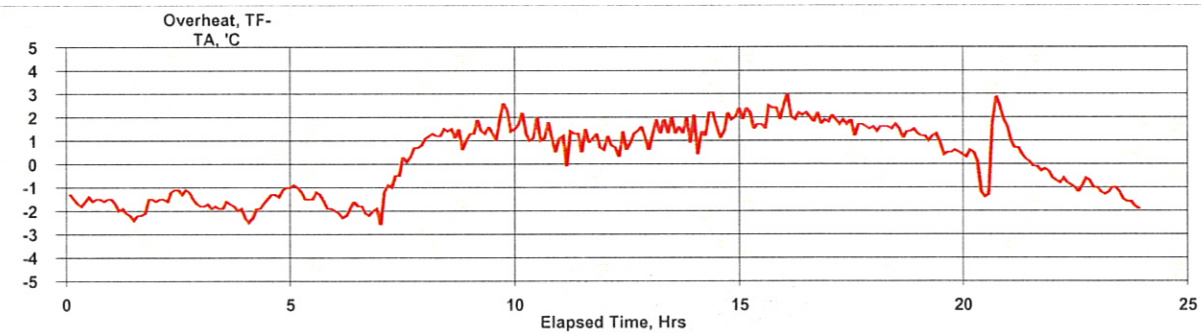
ET: 23:59

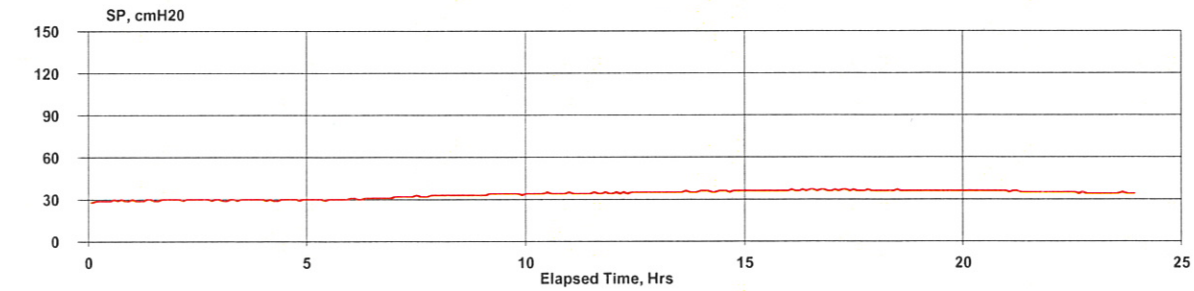
Mass Concentration Data:

Filter ID:	17	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-05-jul	0:05:08	593	10.4	8.9	-1.5	29	16.70
16-05-jul	1:05:08	593	10.7	8.7	-2.0	30	16.69
16-05-jul	2:05:08	593	9.5	8.2	-1.4	30	16.70
16-05-jul	3:05:08	593	9.5	7.7	-1.9	30	16.70
16-05-jul	4:05:08	593	9.8	8.2	-1.6	30	16.71
16-05-jul	5:05:08	593	9.8	8.3	-1.5	30	16.70
16-05-jul	6:05:08	593	16.4	14.4	-2.0	31	16.71
16-05-jul	7:05:08	593	21.7	21.7	0.0	32	16.70
16-05-jul	8:05:08	593	23.3	24.6	1.2	33	16.71
16-05-jul	9:05:08	593	25.2	26.8	1.6	34	16.70
16-05-jul	10:05:08	593	26.4	27.7	1.3	34	16.70
16-05-jul	11:05:08	593	27.2	28.2	1.0	34	16.70
16-05-jul	12:05:08	593	27.8	28.8	1.0	35	16.70
16-05-jul	13:05:08	593	28.4	30.0	1.6	35	16.71
16-05-jul	14:05:08	592	28.9	30.5	1.7	36	16.70
16-05-jul	15:05:08	592	28.6	30.6	2.1	36	16.70
16-05-jul	16:05:08	591	28.6	30.7	2.1	37	16.70
16-05-jul	17:05:08	591	27.9	29.6	1.7	36	16.70
16-05-jul	18:05:08	591	26.9	28.4	1.5	36	16.72
16-05-jul	19:05:08	591	24.2	25.0	0.8	36	16.70
16-05-jul	20:05:08	591	17.6	18.3	0.7	36	16.70
16-05-jul	21:05:08	591	11.1	11.2	0.1	35	16.70
16-05-jul	22:05:08	591	10.0	9.2	-0.9	35	16.71
16-05-jul	23:05:08	591	9.2	7.8	-1.4	34	16.70

BGI PQ200 Air Sampling System Downloaded 2016 12 jul 12:33:43

Job Details:

Job Name:	16Jul12E.JOB	Job Code:	
Version:	5.62	Site Name:	2398E
Serial No:	2398	Station Code:	
Pump Time:	670:33	Operators:	KN
Flags:		User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
		User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	591	588	590	mmHg
TA	28.8	8.6	18.3	°C
Q	---	---	16.7	Lpm

QCV	0.38 %
Max overheat	3.6 °C
occured	11-jul 10:36:14

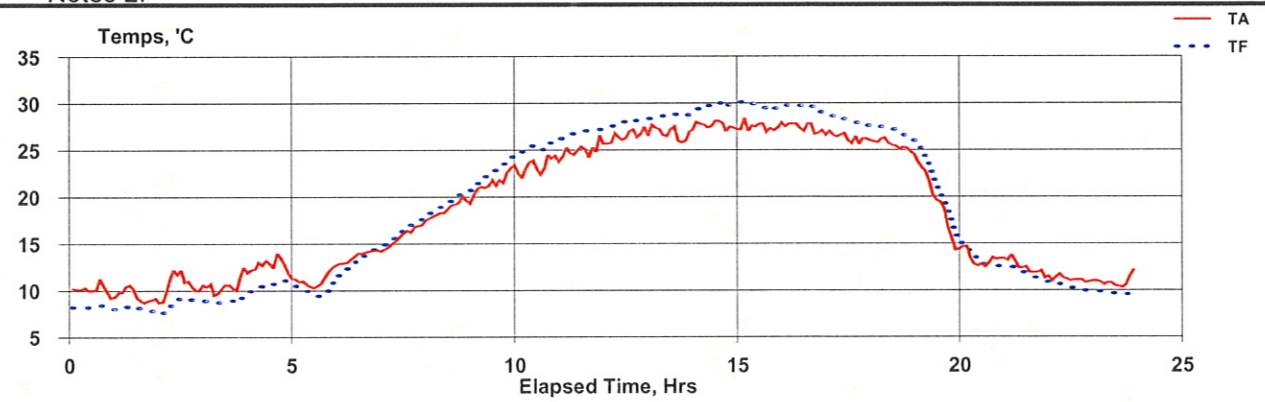
Timer Information:

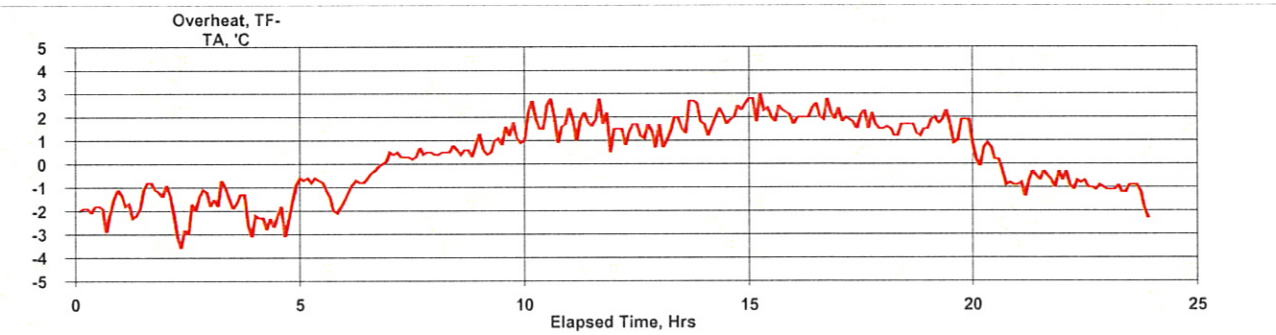
	Date dd-mmm	Time hh:mm:ss
Start:	16-11-jul	0:00:08
Stop:	16-12-jul	0:00:05
ET:	23:59	

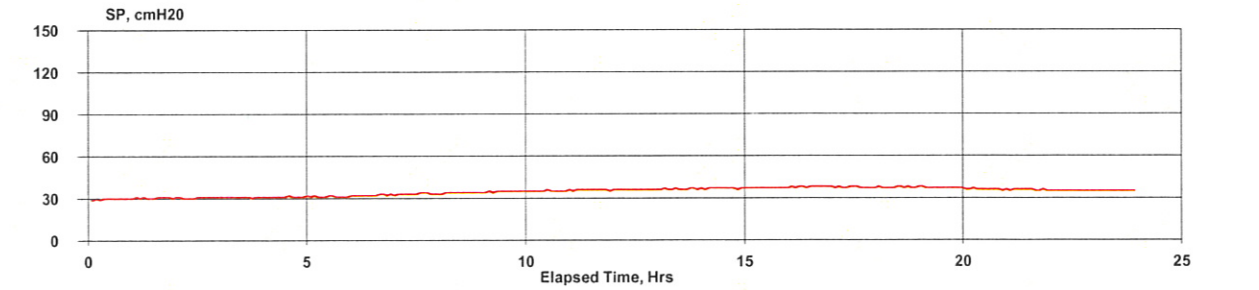
Mass Concentration Data:

Filter ID:	35	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.03	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-11-jul	0:05:08	589	10.1	8.2	-1.9	30	16.70
16-11-jul	1:05:08	589	9.5	8.0	-1.4	31	16.71
16-11-jul	2:05:08	589	10.8	8.7	-2.1	31	16.71
16-11-jul	3:05:08	589	10.7	8.9	-1.7	31	16.70
16-11-jul	4:05:08	590	12.7	10.6	-2.1	31	16.71
16-11-jul	5:05:08	590	11.2	10.0	-1.2	31	16.71
16-11-jul	6:05:08	590	13.7	13.3	-0.4	32	16.70
16-11-jul	7:05:08	591	16.0	16.4	0.4	33	16.70
16-11-jul	8:05:08	591	18.8	19.4	0.6	34	16.71
16-11-jul	9:05:08	591	21.7	22.7	1.0	35	16.72
16-11-jul	10:05:08	591	23.4	25.3	2.0	35	16.70
16-11-jul	11:05:08	591	25.1	26.8	1.8	36	16.70
16-11-jul	12:05:08	591	26.5	27.9	1.4	36	16.70
16-11-jul	13:05:08	590	26.8	28.6	1.8	36	16.69
16-11-jul	14:05:08	590	27.6	29.7	2.1	37	16.70
16-11-jul	15:05:08	590	27.5	29.7	2.2	37	16.70
16-11-jul	16:05:08	590	27.3	29.5	2.2	38	16.72
16-11-jul	17:05:08	590	26.3	28.1	1.8	37	16.71
16-11-jul	18:05:08	590	25.5	27.0	1.5	37	16.70
16-11-jul	19:05:08	590	19.2	20.8	1.7	37	16.71
16-11-jul	20:05:08	590	13.3	13.3	-0.1	36	16.71
16-11-jul	21:05:08	590	12.3	11.7	-0.7	36	16.71
16-11-jul	22:05:08	590	11.1	10.3	-0.9	35	16.70
16-11-jul	23:05:08	590	10.9	9.6	-1.2	35	16.71

BGI PQ200 Air Sampling System Downloaded 2016 19 jul 09:17:36

Job Details:

Job Name: 16Jul19E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 694:33
Flags:

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

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	31.1	9.6	20.7	°C
Q	---	---	16.7	Lpm

QCV 0.46 %
Max overheat 4 °C
occured 17-jul 15:52:38

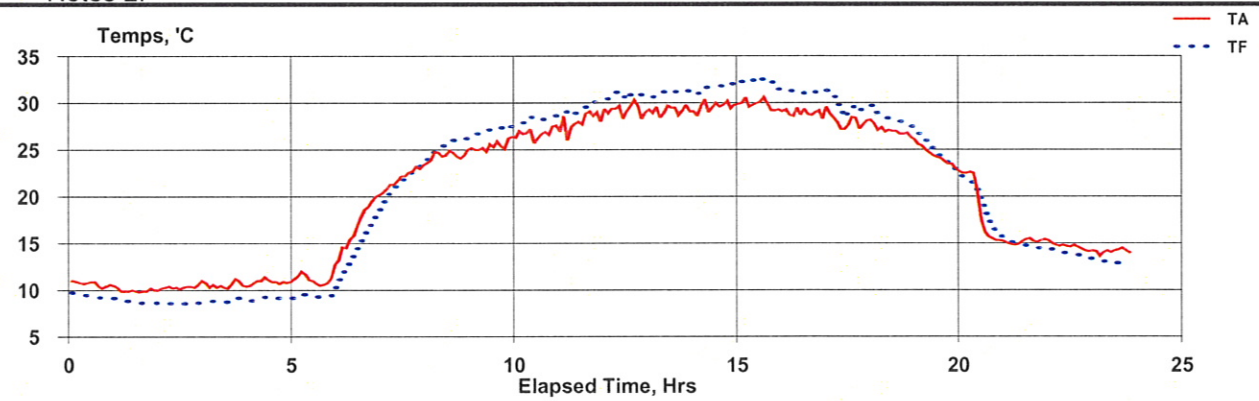
Timer Information:

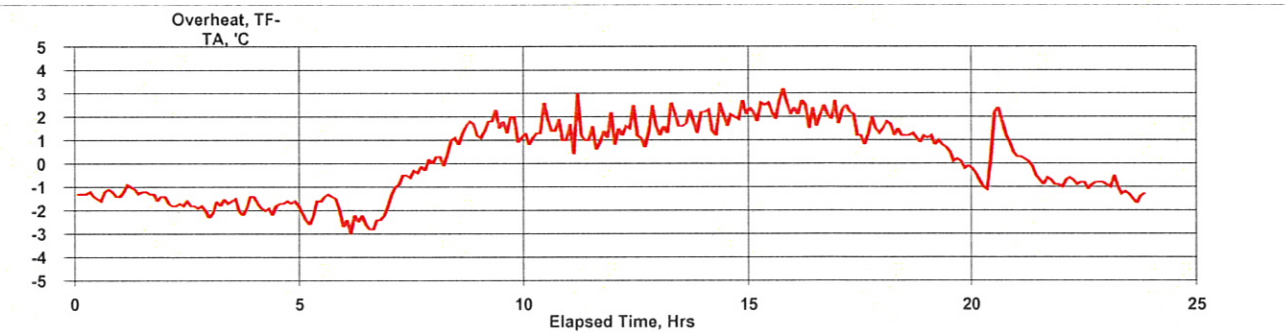
	Date dd-mmm	Time hh:mm:ss
Start:	16-17-jul	0:00:00
Stop:	16-18-jul	0:00:04
ET:	24:00:00	

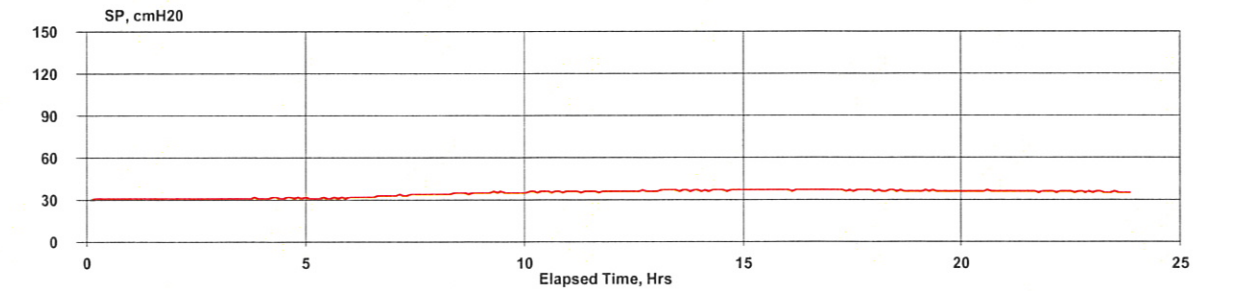
Mass Concentration Data:

Filter ID:	8	
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:







16-17-jul	0:05:00	591	10.7	9.3	-1.3	31	16.69
16-17-jul	1:05:00	591	10.0	8.7	-1.2	31	16.71
16-17-jul	2:05:00	592	10.4	8.5	-1.8	31	16.70
16-17-jul	3:05:00	592	10.6	8.8	-1.7	31	16.70
16-17-jul	4:05:00	592	10.9	9.1	-1.8	32	16.71
16-17-jul	5:05:00	592	11.3	9.4	-1.9	31	16.70
16-17-jul	6:05:00	592	17.1	14.7	-2.4	32	16.71
16-17-jul	7:05:00	593	22.1	21.6	-0.5	34	16.70
16-17-jul	8:05:00	593	24.4	25.4	1.0	35	16.70
16-17-jul	9:05:00	593	25.4	27.0	1.6	35	16.71
16-17-jul	10:05:00	593	26.8	28.2	1.4	36	16.71
16-17-jul	11:05:00	593	28.0	29.3	1.3	36	16.70
16-17-jul	12:05:00	593	29.3	30.7	1.5	36	16.71
16-17-jul	13:05:00	593	29.2	31.0	1.8	37	16.70
16-17-jul	14:05:00	593	29.6	31.6	2.0	37	16.70
16-17-jul	15:05:00	592	29.9	32.3	2.4	37	16.70
16-17-jul	16:05:00	592	28.9	31.2	2.2	37	16.70
16-17-jul	17:05:00	592	28.1	29.7	1.7	37	16.71
16-17-jul	18:05:00	593	27.1	28.4	1.3	36	16.71
16-17-jul	19:05:00	593	24.4	25.0	0.5	36	16.70
16-17-jul	20:05:00	593	19.1	19.6	0.5	36	16.71
16-17-jul	21:05:00	593	15.2	14.8	-0.4	36	16.71
16-17-jul	22:05:00	594	14.7	13.8	-0.8	36	16.71
16-17-jul	23:05:00	594	14.1	12.9	-1.2	35	16.70

BGI PQ200 Air Sampling System

Downloaded 2016 25 jul 14:17:20

Job Details:

Job Name: 16Jul25E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 718:32
Flags:

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

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	34.6	13	23.4	°C
Q	---	---	16.7	Lpm

QCV 0.45 %

Max overheat 5.4 °C
occured 24-jul 16:00:58

Timer Information:

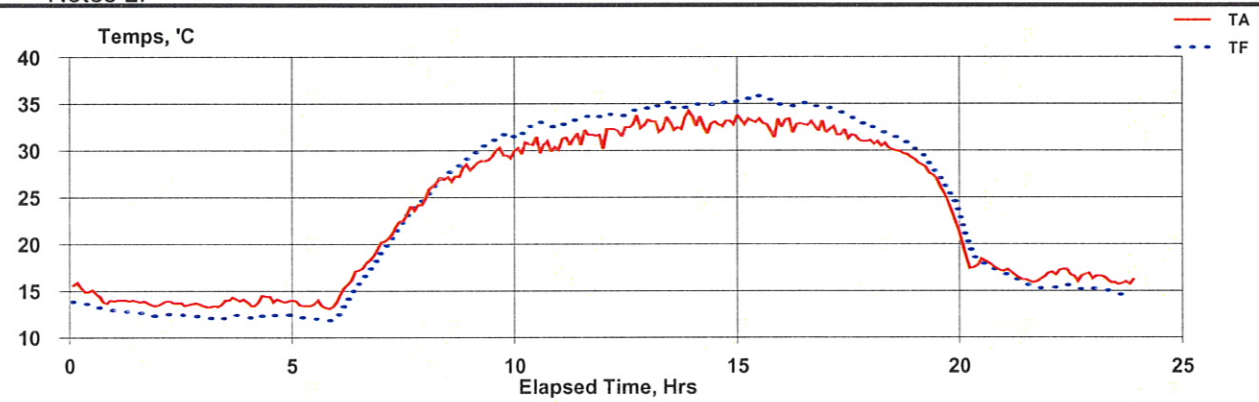
	Date dd-mmm	Time hh:mm:ss
Start:	16-23-jul	0:00:08
Stop:	16-24-jul	0:00:05

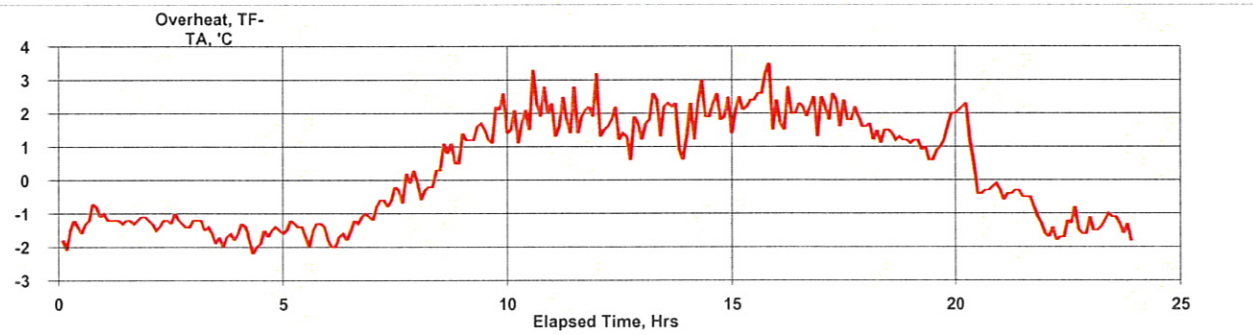
ET: 23:59

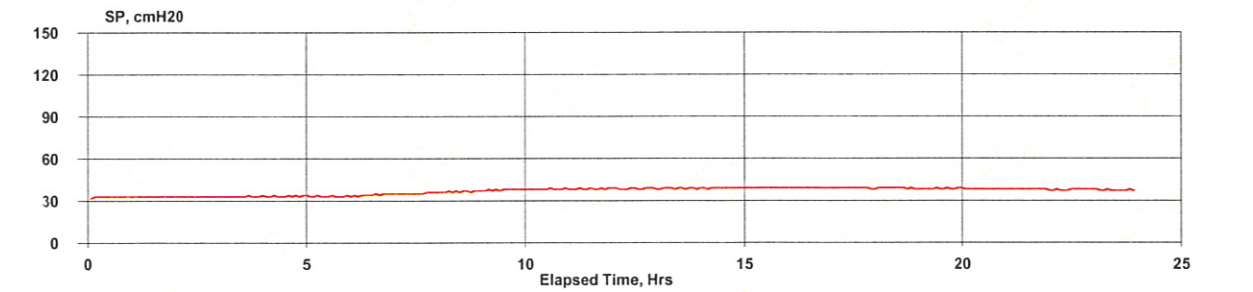
Mass Concentration Data:

Filter ID:	25	
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:







16-23-jul	0:05:08	595	14.7	13.4	-1.3	33	16.71
16-23-jul	1:05:08	594	13.8	12.6	-1.2	33	16.70
16-23-jul	2:05:08	594	13.7	12.4	-1.3	33	16.71
16-23-jul	3:05:08	594	13.8	12.2	-1.6	33	16.71
16-23-jul	4:05:08	594	14.0	12.3	-1.7	33	16.71
16-23-jul	5:05:08	594	13.5	12.0	-1.5	33	16.71
16-23-jul	6:05:08	594	17.4	15.9	-1.5	34	16.70
16-23-jul	7:05:08	595	22.8	22.4	-0.4	35	16.70
16-23-jul	8:05:08	595	27.1	27.5	0.4	37	16.71
16-23-jul	9:05:08	594	29.3	30.9	1.6	38	16.70
16-23-jul	10:05:08	594	30.4	32.5	2.1	38	16.70
16-23-jul	11:05:08	594	31.4	33.4	2.0	38	16.70
16-23-jul	12:05:08	593	32.5	34.0	1.5	39	16.71
16-23-jul	13:05:08	593	33.0	34.8	1.8	39	16.71
16-23-jul	14:05:08	593	32.9	35.0	2.1	39	16.70
16-23-jul	15:05:08	592	32.9	35.3	2.5	39	16.71
16-23-jul	16:05:08	592	32.7	34.8	2.1	39	16.70
16-23-jul	17:05:08	592	31.6	33.6	2.0	39	16.71
16-23-jul	18:05:08	592	30.1	31.4	1.3	39	16.71
16-23-jul	19:05:08	592	25.9	27.1	1.2	38	16.70
16-23-jul	20:05:08	592	17.9	18.5	0.5	38	16.71
16-23-jul	21:05:08	593	16.5	15.8	-0.7	38	16.70
16-23-jul	22:05:08	593	16.8	15.3	-1.5	38	16.71
16-23-jul	23:05:08	593	16.1	14.8	-1.3	37	16.71

BGI PQ200 Air Sampling System Downloaded 2016 01 aug 15:49:20

Job Details:

Job Name:	16Aug01E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	742:31
Flags:	

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

	Max	Min	Avg	Units
BP	594	592	592	mmHg
TA	34.3	14.1	23.6	°C
Q	---	---	16.7	Lpm

QCV	0.47 %
Max overheat	9.4 °C
occured	01-aug 14:46:08

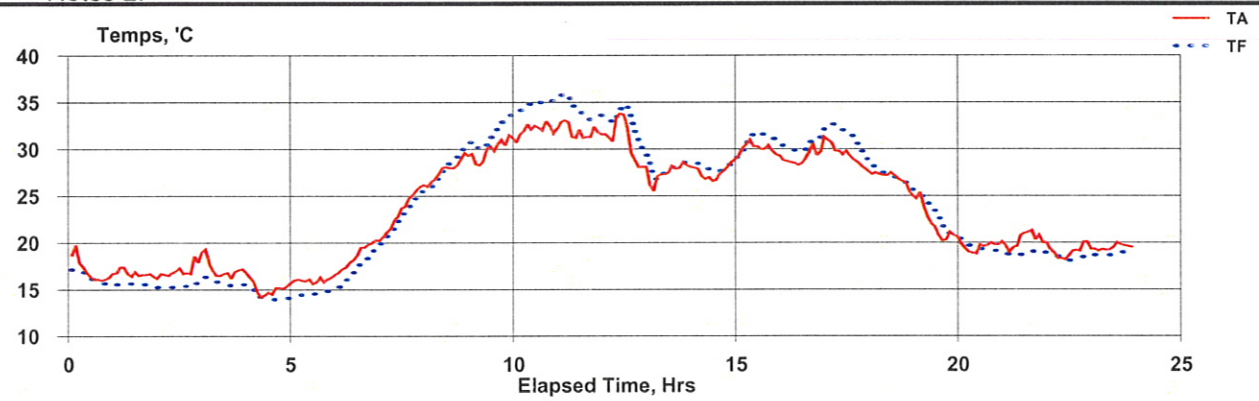
Timer Information:

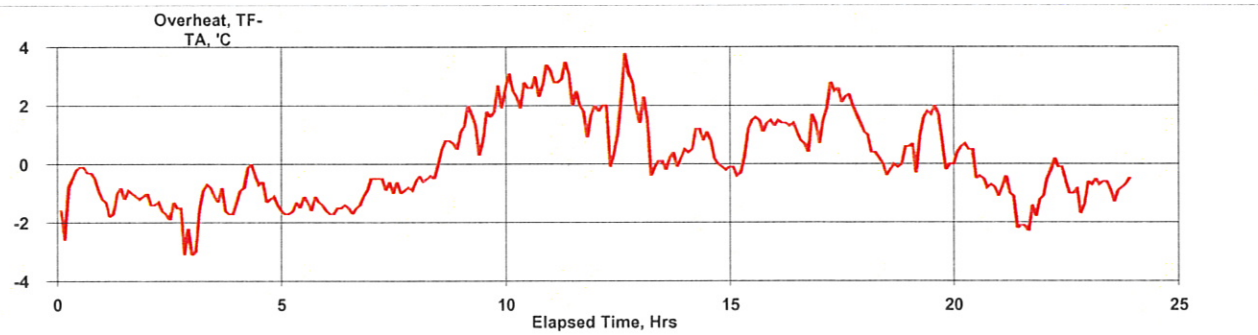
	Date dd-mmm	Time hh:mm:ss
Start:	16-29-jul	0:00:08
Stop:	16-30-jul	0:00:05
ET:	23:59	

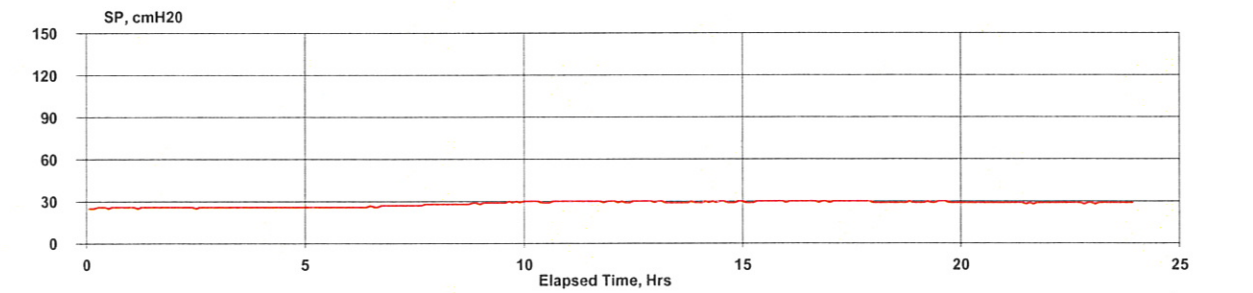
Mass Concentration Data:

Filter ID:		
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-29-jul	0:05:08	593	17.0	16.3	-0.8	26	16.70
16-29-jul	1:05:08	593	16.7	15.5	-1.2	26	16.71
16-29-jul	2:05:08	593	17.2	15.4	-1.8	26	16.71
16-29-jul	3:05:08	593	17.1	15.7	-1.4	26	16.71
16-29-jul	4:05:08	593	15.1	14.3	-0.8	26	16.70
16-29-jul	5:05:08	593	16.1	14.6	-1.4	26	16.70
16-29-jul	6:05:08	593	18.8	17.4	-1.4	26	16.71
16-29-jul	7:05:08	594	23.6	22.9	-0.7	27	16.70
16-29-jul	8:05:08	594	27.9	28.1	0.2	28	16.71
16-29-jul	9:05:08	594	30.0	31.6	1.7	29	16.71
16-29-jul	10:05:08	593	32.1	34.8	2.7	30	16.71
16-29-jul	11:05:08	593	31.9	34.3	2.3	30	16.71
16-29-jul	12:05:08	593	30.8	32.7	1.9	30	16.70
16-29-jul	13:05:08	593	27.5	27.9	0.4	29	16.71
16-29-jul	14:05:08	593	27.6	28.1	0.5	30	16.70
16-29-jul	15:05:08	592	30.0	30.9	0.9	30	16.69
16-29-jul	16:05:08	592	29.3	30.4	1.2	30	16.71
16-29-jul	17:05:08	592	29.3	31.3	2.0	30	16.71
16-29-jul	18:05:08	592	26.8	27.0	0.2	29	16.70
16-29-jul	19:05:08	592	22.0	22.9	0.9	29	16.71
16-29-jul	20:05:08	593	19.6	19.4	-0.2	29	16.71
16-29-jul	21:05:08	593	20.3	18.8	-1.5	29	16.70
16-29-jul	22:05:08	593	19.0	18.4	-0.6	29	16.69
16-29-jul	23:05:08	592	19.5	18.7	-0.7	29	16.71

BGI PQ200 Air Sampling System Downloaded 2016_05 aug_08:33:46

Job Details:

Job Name:	16Aug05E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	766:30
Flags:	

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

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	23.6	12.8	16.2	°C
Q	---	---	16.7	Lpm

QCV	0.41 %
Max overheat	3.5 °C
occured	04-aug 10:01:10

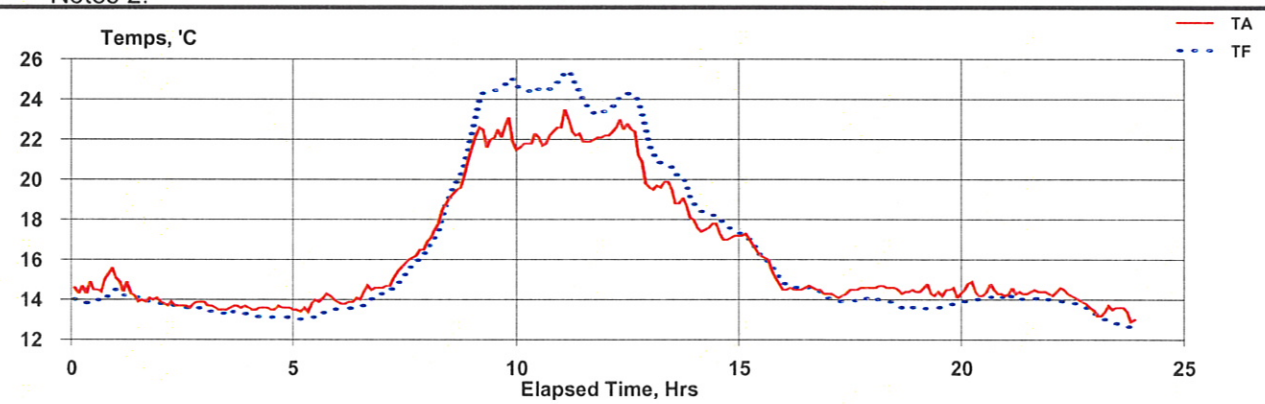
Timer Information:

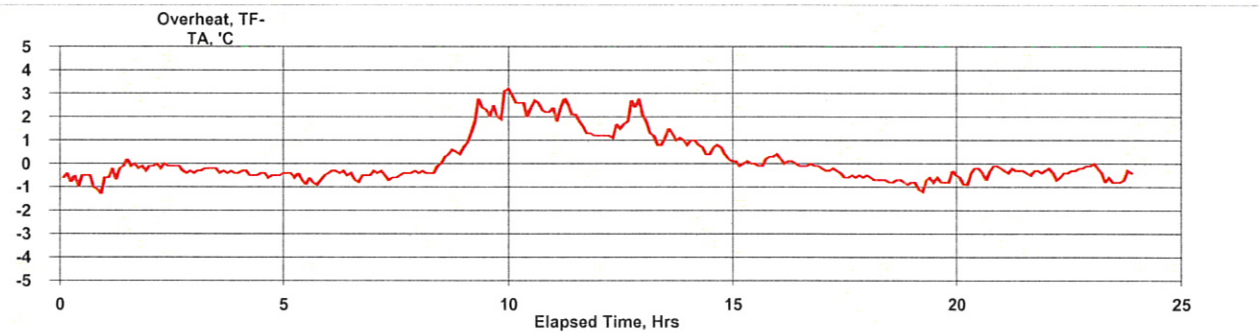
	Date dd-mmm	Time hh:mm:ss
Start:	16-04-aug	0:00:08
Stop:	16-05-aug	0:00:04
ET:	23:59	

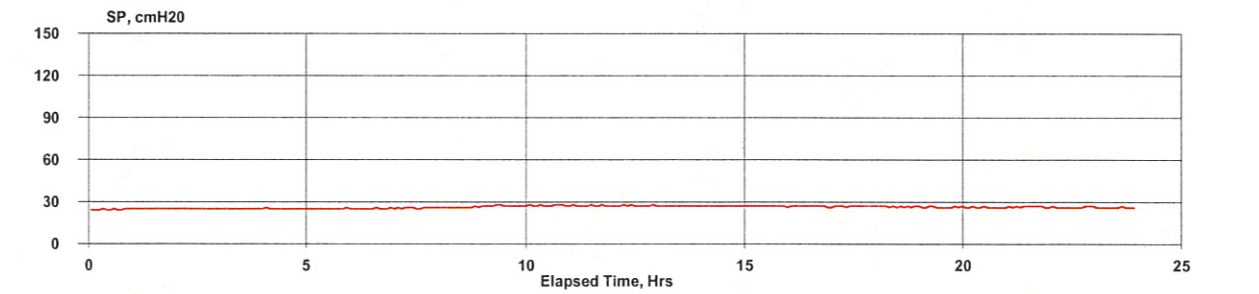
Mass Concentration Data:

Filter ID:	13	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-04-aug	0:05:08	592	14.8	14.0	-0.7	24	16.70
16-04-aug	1:05:08	593	14.2	14.0	-0.2	25	16.70
16-04-aug	2:05:08	593	13.8	13.6	-0.2	25	16.71
16-04-aug	3:05:08	593	13.6	13.3	-0.3	25	16.71
16-04-aug	4:05:08	593	13.6	13.1	-0.4	25	16.70
16-04-aug	5:05:08	593	13.8	13.2	-0.6	25	16.72
16-04-aug	6:05:08	593	14.2	13.8	-0.5	25	16.71
16-04-aug	7:05:08	593	15.8	15.3	-0.5	26	16.71
16-04-aug	8:05:08	593	19.2	19.3	0.1	26	16.71
16-04-aug	9:05:08	593	22.2	24.4	2.2	27	16.69
16-04-aug	10:05:08	593	22.1	24.5	2.5	27	16.70
16-04-aug	11:05:08	593	22.3	24.1	1.8	27	16.71
16-04-aug	12:05:08	593	21.8	23.6	1.8	27	16.70
16-04-aug	13:05:08	593	19.1	20.3	1.1	27	16.70
16-04-aug	14:05:08	593	17.4	18.0	0.6	27	16.71
16-04-aug	15:05:08	593	16.1	16.2	0.1	27	16.70
16-04-aug	16:05:08	593	14.5	14.5	0.0	27	16.70
16-04-aug	17:05:08	593	14.4	14.0	-0.5	27	16.70
16-04-aug	18:05:08	593	14.5	13.8	-0.7	27	16.70
16-04-aug	19:05:08	593	14.4	13.7	-0.7	26	16.71
16-04-aug	20:05:08	593	14.5	14.0	-0.4	26	16.70
16-04-aug	21:05:08	593	14.4	14.1	-0.3	27	16.70
16-04-aug	22:05:08	593	14.1	13.8	-0.3	26	16.70
16-04-aug	23:05:08	593	13.4	12.8	-0.5	26	16.70

BGI PQ200 Air Sampling System Downloaded 2016 11 aug 14:41:52

Job Details:

Job Name:	16Aug11E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	790:29
Flags:	

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

	Max	Min	Avg	Units
BP	595	590	592	mmHg
TA	22.5	10.3	14.8	°C
Q	---	---	16.7	Lpm

QCV	0.5 %
Max overheat	2.9 °C
occured	10-aug 09:51:06

Timer Information:

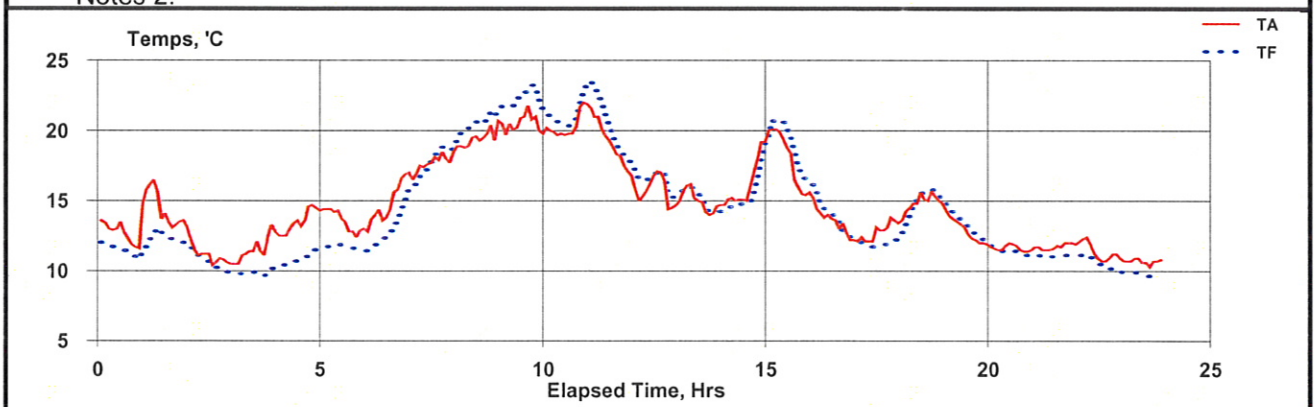
	Date dd-mmm	Time hh:mm:ss
Start:	16-10-aug	0:00:08
Stop:	16-11-aug	0:00:04
ET:	23:59	

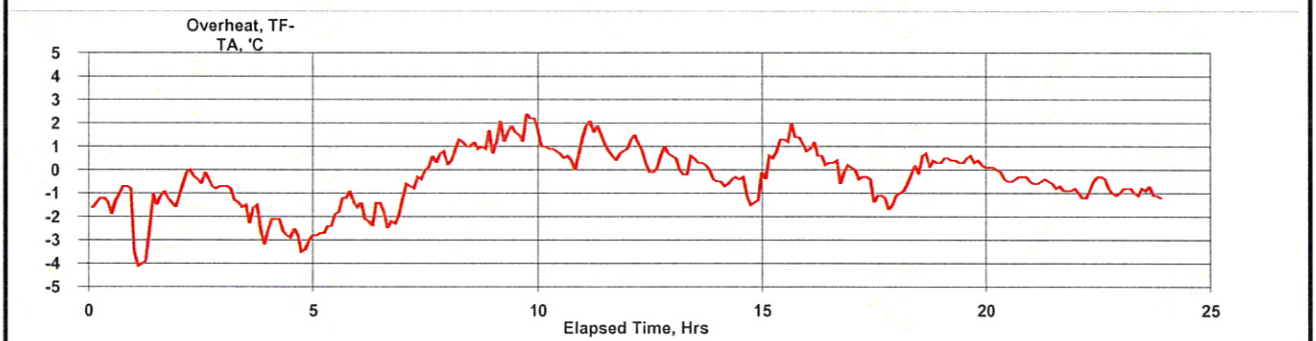
Mass Concentration Data:

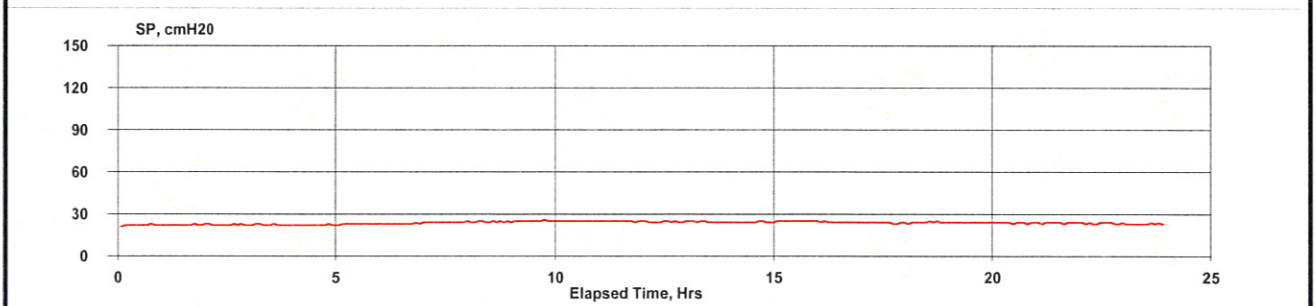
Filter ID:	33	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-10-aug	0:05:08	591	12.9	11.5	-1.4	22	16.70
16-10-aug	1:05:08	592	14.3	12.3	-2.0	22	16.71
16-10-aug	2:05:08	592	11.0	10.6	-0.5	22	16.70
16-10-aug	3:05:08	592	11.6	9.8	-1.8	22	16.71
16-10-aug	4:05:08	592	13.5	10.8	-2.7	22	16.71
16-10-aug	5:05:08	592	13.6	11.7	-1.9	23	16.71
16-10-aug	6:05:08	593	14.9	13.0	-1.9	23	16.71
16-10-aug	7:05:08	593	17.7	17.7	0.0	24	16.71
16-10-aug	8:05:08	593	19.5	20.5	1.0	24	16.70
16-10-aug	9:05:08	593	20.5	22.3	1.7	25	16.70
16-10-aug	10:05:08	593	20.4	21.1	0.7	25	16.70
16-10-aug	11:05:08	593	19.1	20.3	1.2	25	16.71
16-10-aug	12:05:08	593	15.7	16.4	0.7	24	16.71
16-10-aug	13:05:08	593	15.0	15.1	0.1	24	16.71
16-10-aug	14:05:08	593	16.2	15.5	-0.7	24	16.71
16-10-aug	15:05:08	593	18.0	19.0	1.0	25	16.71
16-10-aug	16:05:08	594	13.5	13.9	0.3	24	16.71
16-10-aug	17:05:08	594	12.8	11.9	-0.9	24	16.72
16-10-aug	18:05:08	593	14.9	14.8	0.0	24	16.71
16-10-aug	19:05:08	593	12.9	13.3	0.4	24	16.71
16-10-aug	20:05:08	593	11.6	11.4	-0.3	24	16.71
16-10-aug	21:05:08	593	11.7	11.1	-0.7	24	16.70
16-10-aug	22:05:08	593	11.4	10.6	-0.8	24	16.71
16-10-aug	23:05:08	593	10.7	9.8	-0.9	23	16.70

BGI PQ200 Air Sampling System Downloaded 2016 19 aug 10:44:46

Job Details:

Job Name:	16Aug19E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	814:28
Flags:	

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

	Max	Min	Avg	Units
BP	595	593	593	mmHg
TA	30.1	10.1	20.1	°C
Q	---	---	16.7	Lpm

QCV	0.44 %
Max overheat	4.1 °C
occured	16-aug 15:23:49

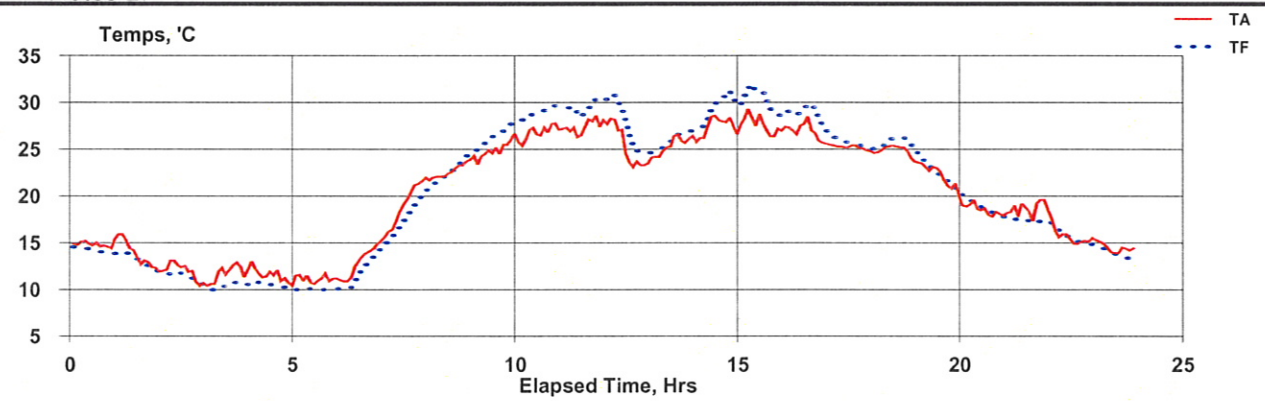
Timer Information:

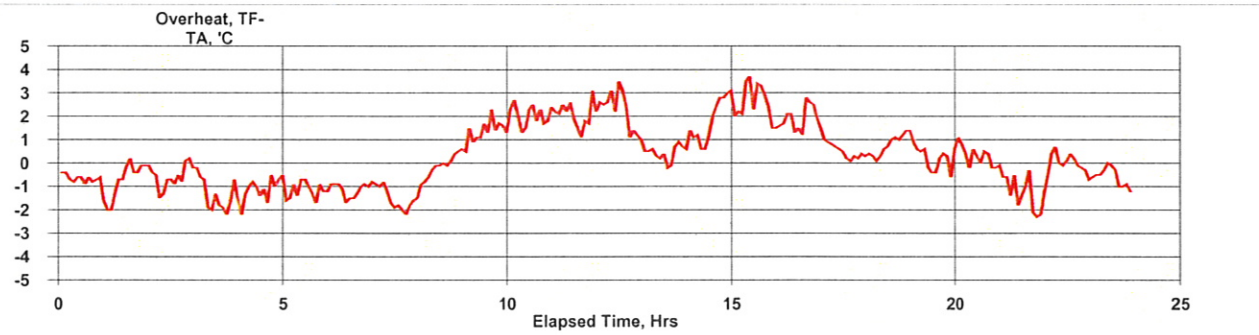
	Date dd-mmm	Time hh:mm:ss
Start:	16-16-aug	0:00:08
Stop:	16-17-aug	0:00:05
ET:	23:59	

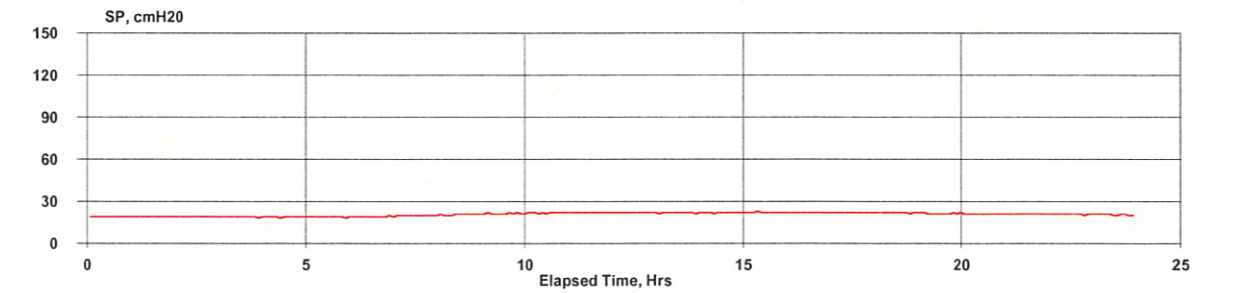
Mass Concentration Data:

Filter ID:	36	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-16-aug	0:05:08	594	14.9	14.1	-0.7	19	16.70
16-16-aug	1:05:08	594	13.7	13.1	-0.6	19	16.71
16-16-aug	2:05:08	594	12.0	11.4	-0.6	19	16.71
16-16-aug	3:05:08	594	11.7	10.4	-1.4	19	16.71
16-16-aug	4:05:08	594	11.5	10.4	-1.1	19	16.70
16-16-aug	5:05:08	594	11.2	10.0	-1.2	19	16.70
16-16-aug	6:05:08	594	13.0	11.9	-1.1	19	16.70
16-16-aug	7:05:08	595	19.1	17.6	-1.5	20	16.70
16-16-aug	8:05:08	595	22.7	22.6	-0.1	21	16.70
16-16-aug	9:05:08	595	25.0	26.3	1.4	21	16.70
16-16-aug	10:05:08	595	26.8	28.8	2.1	22	16.71
16-16-aug	11:05:08	594	27.4	29.5	2.1	22	16.70
16-16-aug	12:05:08	594	25.3	27.5	2.2	22	16.71
16-16-aug	13:05:08	594	25.4	25.8	0.4	22	16.70
16-16-aug	14:05:08	594	27.4	29.3	1.9	22	16.70
16-16-aug	15:05:08	593	27.6	30.2	2.6	22	16.70
16-16-aug	16:05:08	593	26.9	28.8	1.9	22	16.71
16-16-aug	17:05:08	593	25.2	25.7	0.5	22	16.70
16-16-aug	18:05:08	593	24.9	25.7	0.8	22	16.70
16-16-aug	19:05:08	593	22.2	22.4	0.2	21	16.71
16-16-aug	20:05:08	594	18.5	18.8	0.3	21	16.70
16-16-aug	21:05:08	594	18.7	17.4	-1.3	21	16.71
16-16-aug	22:05:08	594	15.6	15.6	0.0	21	16.71
16-16-aug	23:05:08	594	14.5	13.9	-0.6	21	16.71

BGI PQ200 Air Sampling System Downloaded 2016_25 aug_09:38:47

Job Details:

Job Name:	16Aug25E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	838:27
Flags:	

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	24.5	9.4	13.9	°C
Q	---	---	16.7	Lpm

QCV	0.49 %
Max overheat	7.8 °C
occured	24-aug 13:55:32

Timer Information:

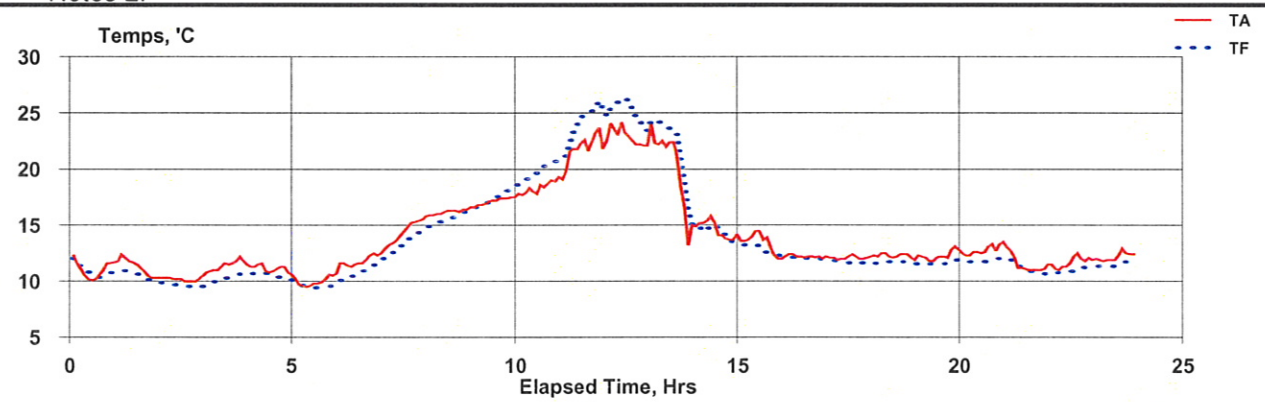
	Date dd-mmm	Time hh:mm:ss
Start:	16-22-aug	0:00:08
Stop:	16-23-aug	0:00:04
ET:	23:59	

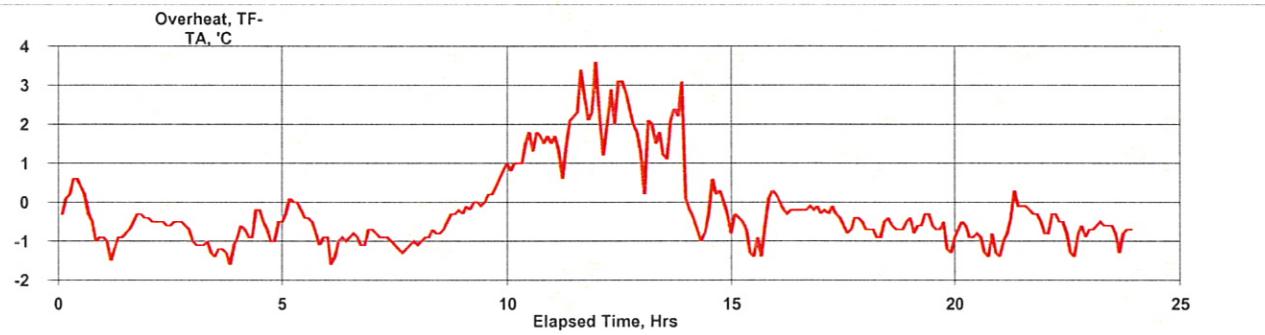
Mass Concentration Data:

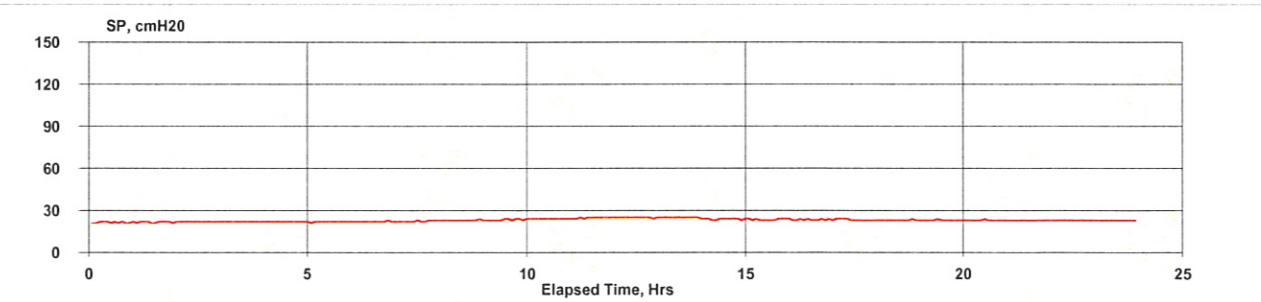
Filter ID:	41	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







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16-22-aug	2:05:08	592	10.2	9.6	-0.6	22	16.71
16-22-aug	3:05:08	592	11.4	10.2	-1.2	22	16.71
16-22-aug	4:05:08	592	11.1	10.5	-0.6	22	16.71
16-22-aug	5:05:08	592	10.0	9.6	-0.5	22	16.71
16-22-aug	6:05:08	592	11.8	10.8	-1.0	22	16.71
16-22-aug	7:05:08	592	14.5	13.4	-1.0	22	16.71
16-22-aug	8:05:08	593	16.2	15.6	-0.6	23	16.70
16-22-aug	9:05:08	593	17.2	17.4	0.2	23	16.70
16-22-aug	10:05:08	593	18.4	19.8	1.4	24	16.70
16-22-aug	11:05:08	593	21.8	24.0	2.2	25	16.71
16-22-aug	12:05:08	592	22.9	25.1	2.2	25	16.70
16-22-aug	13:05:08	592	20.2	21.8	1.7	25	16.71
16-22-aug	14:05:08	591	14.6	14.3	-0.3	24	16.70
16-22-aug	15:05:08	592	13.4	12.8	-0.6	24	16.71
16-22-aug	16:05:08	593	12.2	12.0	-0.2	23	16.71
16-22-aug	17:05:08	593	12.1	11.7	-0.4	23	16.70
16-22-aug	18:05:08	592	12.3	11.6	-0.6	23	16.71
16-22-aug	19:05:08	592	12.3	11.6	-0.7	23	16.71
16-22-aug	20:05:08	592	12.8	11.8	-1.0	23	16.70
16-22-aug	21:05:08	592	11.5	11.1	-0.4	23	16.69
16-22-aug	22:05:08	592	11.7	11.0	-0.7	23	16.69
16-22-aug	23:05:08	592	12.2	11.5	-0.7	23	16.70

BGI PQ200 Air Sampling System

Downloaded 2016 29 aug 14:46:19

Job Details:

Job Name:	16Aug29E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	862:26
Flags:	

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	23.1	7.4	14.3	°C
Q	---	---	16.7	Lpm

QCV	0.41 %
Max overheat	5.2 °C
occured	28-aug 14:39:27

Timer Information:

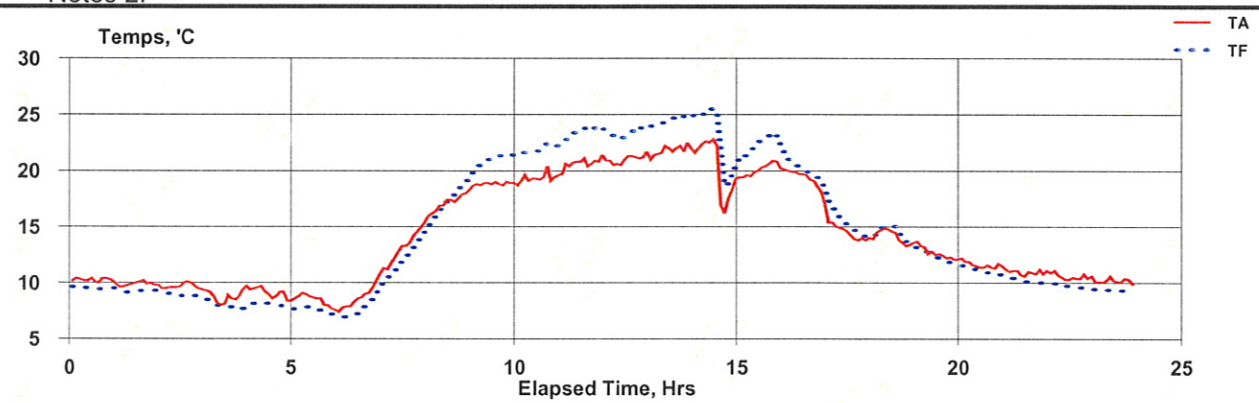
	Date dd-mmm	Time hh:mm:ss
Start:	16-28-aug	0:00:08
Stop:	16-29-aug	0:00:04
ET:	23:59	

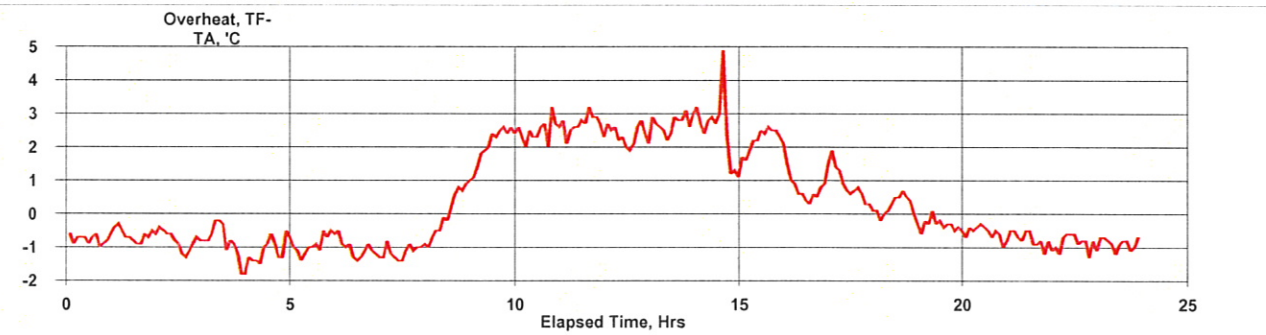
Mass Concentration Data:

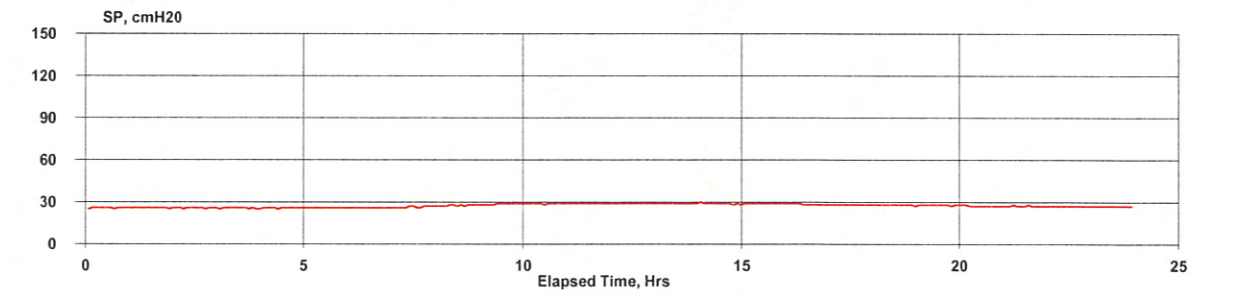
Filter ID:	8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.034	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







16-28-aug	0:05:08	594	10.3	9.5	-0.8	26	16.71
16-28-aug	1:05:08	594	9.9	9.3	-0.6	26	16.71
16-28-aug	2:05:08	594	9.7	8.9	-0.8	26	16.72
16-28-aug	3:05:08	594	8.8	7.9	-0.9	26	16.71
16-28-aug	4:05:08	594	9.1	8.0	-1.1	26	16.71
16-28-aug	5:05:08	594	8.5	7.5	-0.9	26	16.71
16-28-aug	6:05:08	595	8.8	7.7	-1.1	26	16.70
16-28-aug	7:05:08	595	13.2	12.1	-1.1	27	16.71
16-28-aug	8:05:08	595	17.2	17.3	0.1	28	16.70
16-28-aug	9:05:08	595	18.8	21.0	2.1	29	16.70
16-28-aug	10:05:08	596	19.4	21.8	2.5	29	16.70
16-28-aug	11:05:08	595	20.7	23.4	2.7	29	16.70
16-28-aug	12:05:08	595	21.0	23.4	2.4	29	16.69
16-28-aug	13:05:08	595	21.8	24.5	2.7	29	16.71
16-28-aug	14:05:08	595	20.4	22.9	2.6	29	16.71
16-28-aug	15:05:08	595	20.1	22.3	2.2	29	16.70
16-28-aug	16:05:08	595	19.2	20.0	0.8	28	16.70
16-28-aug	17:05:08	595	14.5	15.3	0.8	28	16.70
16-28-aug	18:05:08	595	14.1	14.4	0.2	28	16.70
16-28-aug	19:05:08	595	12.7	12.3	-0.3	28	16.70
16-28-aug	20:05:08	595	11.6	11.1	-0.6	27	16.70
16-28-aug	21:05:08	595	11.0	10.2	-0.8	27	16.70
16-28-aug	22:05:08	595	10.6	9.7	-0.9	27	16.71
16-28-aug	23:05:08	595	10.2	9.3	-0.9	27	16.69

BGI PQ200 Air Sampling System Downloaded 2016 06 sep 17:18:49

Job Details:

Job Name:	16Sep06E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	886:25
Flags:	

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

	Max	Min	Avg	Units
BP	591	588	589	mmHg
TA	23.7	9.1	15.1	°C
Q	---	---	16.7	Lpm
QCV			0.53	%
Max overheat			3.7	°C
occured 05-sep 18:23:15				

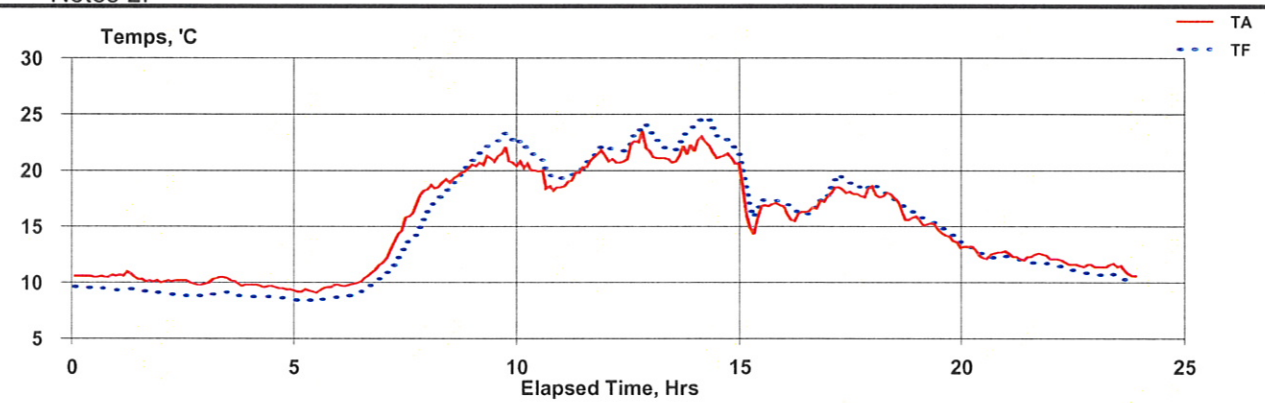
Timer Information:

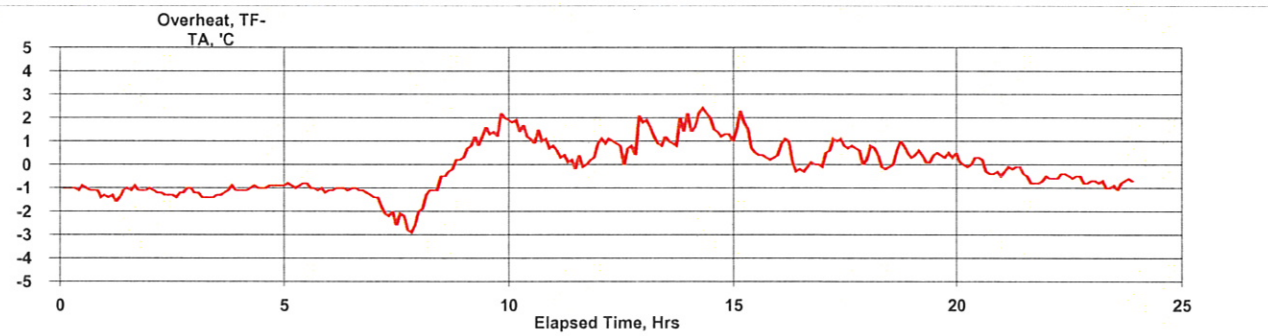
	Date dd-mmm	Time hh:mm:ss
Start:	16-03-sep	0:00:08
Stop:	16-04-sep	0:00:05
ET:	23:59	

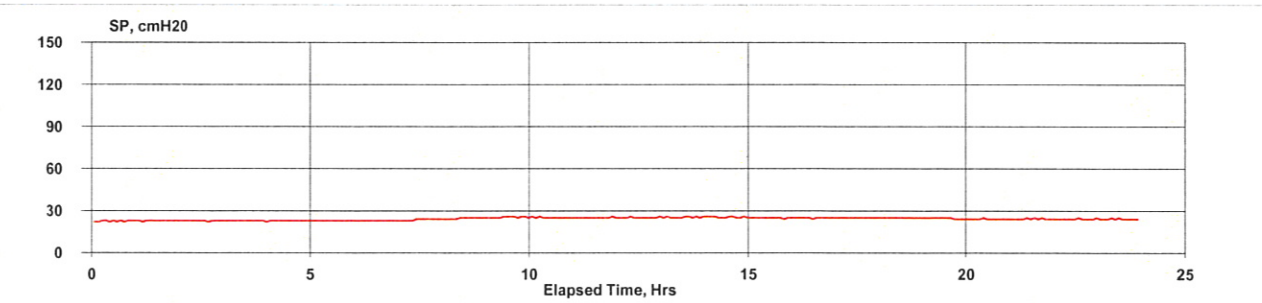
Mass Concentration Data:

Filter ID:	24	
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:







16-03-sep	0:05:08	591	10.6	9.5	-1.1	23	16.71
16-03-sep	1:05:08	591	10.4	9.2	-1.2	23	16.70
16-03-sep	2:05:08	591	10.1	8.8	-1.2	23	16.70
16-03-sep	3:05:08	591	10.1	8.9	-1.2	23	16.71
16-03-sep	4:05:08	591	9.6	8.6	-1.0	23	16.70
16-03-sep	5:05:08	591	9.4	8.5	-1.0	23	16.71
16-03-sep	6:05:08	591	10.5	9.4	-1.1	23	16.71
16-03-sep	7:05:08	591	15.6	13.3	-2.2	24	16.72
16-03-sep	8:05:08	591	19.3	18.7	-0.6	25	16.71
16-03-sep	9:05:08	591	21.0	22.3	1.4	26	16.70
16-03-sep	10:05:08	591	19.5	20.7	1.3	25	16.71
16-03-sep	11:05:08	591	20.3	20.6	0.3	25	16.70
16-03-sep	12:05:08	590	21.6	22.6	1.0	25	16.71
16-03-sep	13:05:08	590	21.3	22.7	1.3	25	16.72
16-03-sep	14:05:08	589	21.6	23.2	1.6	26	16.70
16-03-sep	15:05:08	589	16.5	17.4	0.9	25	16.70
16-03-sep	16:05:08	589	16.5	16.7	0.2	25	16.70
16-03-sep	17:05:08	588	18.1	18.8	0.7	25	16.71
16-03-sep	18:05:08	588	16.9	17.3	0.4	25	16.71
16-03-sep	19:05:08	588	14.5	14.9	0.4	25	16.71
16-03-sep	20:05:08	588	12.7	12.6	-0.1	24	16.70
16-03-sep	21:05:08	588	12.3	11.9	-0.4	24	16.71
16-03-sep	22:05:08	588	11.7	11.1	-0.6	24	16.71
16-03-sep	23:05:08	588	11.2	10.4	-0.8	24	16.71

BGI PQ200 Air Sampling System

Downloaded 2016 12 sep 15:12:12

Job Details:

Job Name: 16Sep12E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 973:30
Flags:

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

	Max	Min	Avg	Units
BP	596	588	593	mmHg
TA	28.6	5.8	17.3	°C
Q	---	---	16.7	Lpm

QCV 0.29 %

Max overheat 3.7 °C
occured 10-sep 15:31:58

Timer Information:

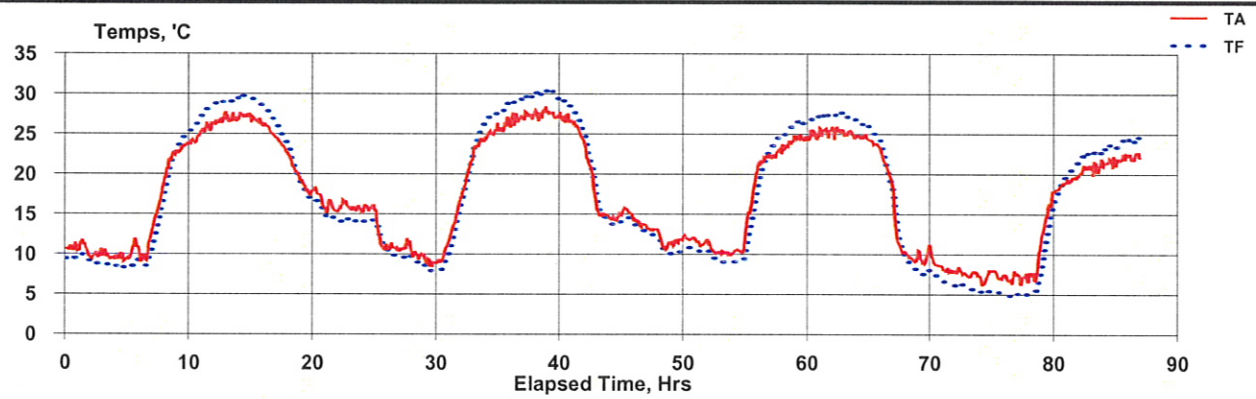
	Date dd-mmm	Time hh:mm:ss
Start:	16-09-sep	0:00:00
Stop:	16-12-sep	15:05:13

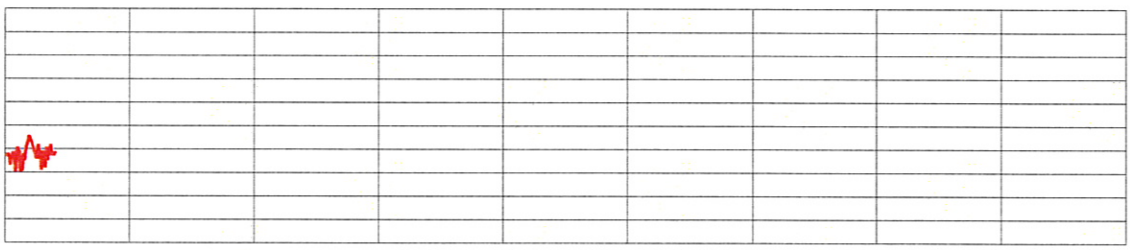
ET: 87:05:00

Mass Concentration Data:

Filter ID:	30	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	87.22	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





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16-09-sep	1:05:00	593	10.8	9.6	-1.2	25	16.71
16-09-sep	2:05:00	593	9.9	8.7	-1.1	25	16.71
16-09-sep	3:05:00	593	9.8	8.6	-1.2	25	16.70
16-09-sep	4:05:00	593	9.6	8.3	-1.3	25	16.70
16-09-sep	5:05:00	593	10.5	8.6	-1.9	25	16.71
16-09-sep	6:05:00	594	10.3	9.0	-1.3	25	16.71
16-09-sep	7:05:00	594	15.9	13.9	-2.1	26	16.71
16-09-sep	8:05:00	594	21.6	20.7	-0.8	28	16.70
16-09-sep	9:05:00	594	23.3	24.2	0.9	28	16.71
16-09-sep	10:05:00	594	24.3	26.0	1.7	29	16.71
16-09-sep	11:05:00	594	25.8	28.0	2.2	29	16.71
16-09-sep	12:05:00	594	26.7	28.8	2.1	29	16.70
16-09-sep	13:05:00	594	26.9	29.3	2.4	30	16.70
16-09-sep	14:05:00	594	27.3	29.6	2.4	30	16.71
16-09-sep	15:05:00	594	26.6	28.9	2.3	29	16.71
16-09-sep	16:05:00	594	25.5	27.5	2.0	29	16.71
16-09-sep	17:05:00	594	23.7	25.0	1.4	29	16.71
16-09-sep	18:05:00	594	20.9	21.3	0.4	29	16.71
16-09-sep	19:05:00	594	18.2	17.8	-0.4	28	16.71
16-09-sep	20:05:00	595	17.3	16.2	-1.1	28	16.69
16-09-sep	21:05:00	595	15.8	14.6	-1.3	28	16.71
16-09-sep	22:05:00	595	16.1	14.3	-1.8	28	16.70
16-09-sep	23:05:00	595	15.7	14.1	-1.6	28	16.70
16-10-sep	0:05:00	595	15.8	14.1	-1.7	28	16.70
16-10-sep	1:05:00	595	12.3	12.3	0.0	28	16.71
16-10-sep	2:05:00	595	10.8	10.0	-0.8	27	16.70
16-10-sep	3:05:00	595	11.0	9.6	-1.3	27	16.70
16-10-sep	4:05:00	595	9.9	9.0	-0.9	27	16.69
16-10-sep	5:05:00	595	9.0	8.0	-0.9	27	16.71
16-10-sep	6:05:00	595	9.8	8.4	-1.3	27	16.70
16-10-sep	7:05:00	596	14.2	12.8	-1.4	28	16.70
16-10-sep	8:05:00	596	19.7	19.1	-0.6	29	16.70
16-10-sep	9:05:00	596	23.8	24.7	0.9	30	16.71
16-10-sep	10:05:00	596	25.2	27.1	1.9	30	16.70
16-10-sep	11:05:00	596	26.0	28.1	2.1	30	16.70
16-10-sep	12:05:00	596	26.9	28.9	2.0	30	16.70
16-10-sep	13:05:00	595	27.3	29.5	2.2	30	16.71
16-10-sep	14:05:00	595	27.6	30.1	2.5	30	16.70
16-10-sep	15:05:00	595	27.4	30.0	2.6	30	16.70
16-10-sep	16:05:00	595	27.0	28.9	1.9	30	16.70
16-10-sep	17:05:00	595	25.5	26.9	1.4	30	16.71
16-10-sep	18:05:00	595	20.6	21.7	1.1	30	16.70
16-10-sep	19:05:00	595	15.0	15.2	0.2	29	16.71
16-10-sep	20:05:00	595	14.6	13.8	-0.8	28	16.71
16-10-sep	21:05:00	595	15.3	14.4	-0.9	29	16.71
16-10-sep	22:05:00	595	13.9	13.3	-0.6	28	16.70
16-10-sep	23:05:00	595	13.1	12.5	-0.7	28	16.71
16-11-sep	0:05:00	595	11.3	10.8	-0.6	28	16.71
16-11-sep	1:05:00	595	11.6	10.1	-1.4	28	16.70
16-11-sep	2:05:00	595	12.0	10.8	-1.2	28	16.70
16-11-sep	3:05:00	595	11.4	10.3	-1.1	28	16.71
16-11-sep	4:05:00	595	10.6	9.6	-0.9	28	16.71
16-11-sep	5:05:00	595	10.1	8.9	-1.2	28	16.70
16-11-sep	6:05:00	595	10.5	9.2	-1.3	28	16.71

16-11-sep	7:05:00	595	16.6	13.8	-2.8	29	16.72
16-11-sep	8:05:00	595	21.8	21.0	-0.8	30	16.71
16-11-sep	9:05:00	595	22.6	24.0	1.5	30	16.70
16-11-sep	10:05:00	595	23.8	25.5	1.7	30	16.71
16-11-sep	11:05:00	595	24.5	26.6	2.0	30	16.70
16-11-sep	12:05:00	594	24.8	26.9	2.1	30	16.71
16-11-sep	13:05:00	594	25.4	27.4	2.0	30	16.70
16-11-sep	14:05:00	593	25.5	27.5	2.1	30	16.71
16-11-sep	15:05:00	593	25.0	27.2	2.2	30	16.70
16-11-sep	16:05:00	592	24.7	26.5	1.8	30	16.71
16-11-sep	17:05:00	592	23.9	25.1	1.3	30	16.70
16-11-sep	18:05:00	591	20.9	21.2	0.3	30	16.71
16-11-sep	19:05:00	591	12.2	13.1	0.9	29	16.71
16-11-sep	20:05:00	592	9.6	8.9	-0.7	28	16.70
16-11-sep	21:05:00	591	9.7	7.7	-2.0	28	16.71
16-11-sep	22:05:00	591	9.2	7.5	-1.7	28	16.70
16-11-sep	23:05:00	591	8.0	6.5	-1.5	28	16.71
16-12-sep	0:05:00	591	7.9	6.2	-1.6	28	16.70
16-12-sep	1:05:00	590	7.5	5.7	-1.8	28	16.71
16-12-sep	2:05:00	590	7.1	5.3	-1.8	27	16.71
16-12-sep	3:05:00	590	7.5	5.4	-2.1	28	16.71
16-12-sep	4:05:00	590	7.1	4.9	-2.2	27	16.71
16-12-sep	5:05:00	590	7.1	4.9	-2.2	27	16.71
16-12-sep	6:05:00	590	7.9	5.6	-2.4	28	16.71
16-12-sep	7:05:00	590	14.8	11.9	-2.9	28	16.70
16-12-sep	8:05:00	590	18.4	17.9	-0.5	30	16.69
16-12-sep	9:05:00	590	19.4	20.5	1.2	30	16.70
16-12-sep	10:05:00	590	20.6	22.2	1.6	31	16.70
16-12-sep	11:05:00	589	20.9	22.7	1.7	31	16.73
16-12-sep	12:05:00	589	21.6	23.5	1.9	31	16.70
16-12-sep	13:05:00	589	21.9	23.9	1.9	31	16.70
16-12-sep	14:05:00	588	22.3	24.4	2.1	31	16.70
16-12-sep	15:05:00	588	22.1	24.4	2.3	31	16.72

BGI PQ200 Air Sampling System Downloaded 2016 16 sep 14:11:21

Job Details:

Job Name:	16Sep16E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	997:30
Flags:	

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

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	21.5	2.3	12.3	°C
Q	---	---	16.7	Lpm

QCV	0.46 %
Max overheat	3.7 °C
occured	15-sep 11:23:21

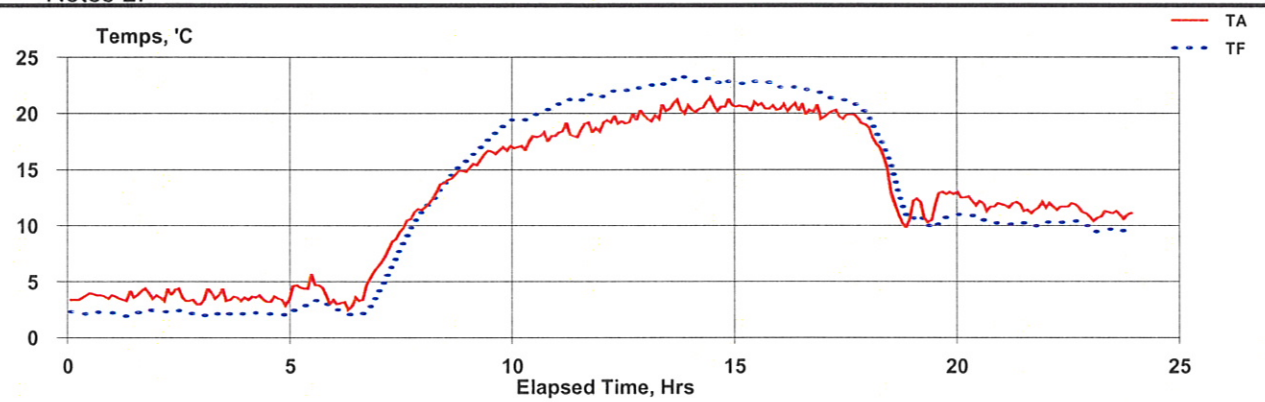
Timer Information:

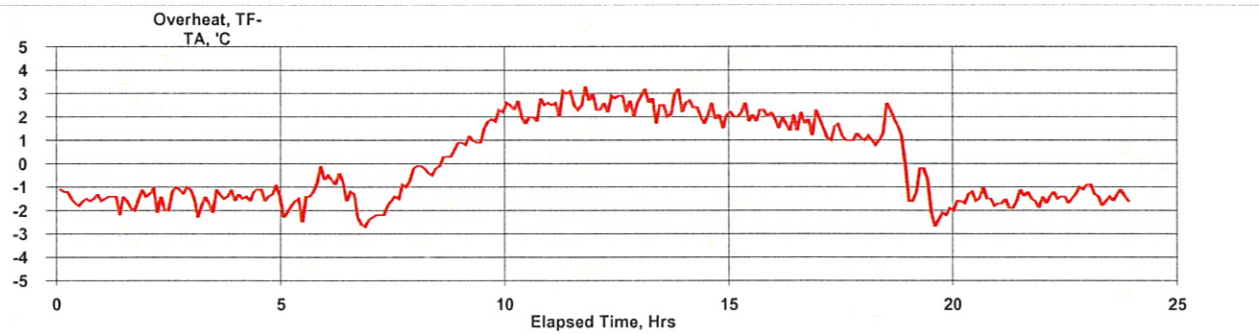
	Date dd-mmm	Time hh:mm:ss
Start:	16-15-sep	0:00:08
Stop:	16-16-sep	0:00:05
ET:	24:00:00	

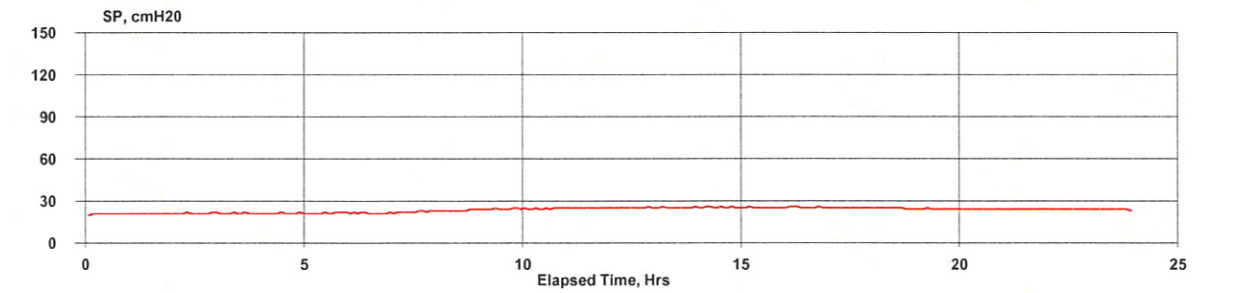
Mass Concentration Data:

Filter ID:	14	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.033	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-15-sep	0:05:04	592	3.7	2.2	-1.5	21	16.71
16-15-sep	1:05:04	592	3.8	2.2	-1.6	21	16.71
16-15-sep	2:05:04	592	3.6	2.2	-1.4	21	16.70
16-15-sep	3:05:04	592	3.7	2.1	-1.6	21	16.70
16-15-sep	4:05:04	592	3.4	2.1	-1.3	21	16.70
16-15-sep	5:05:04	592	4.4	2.9	-1.5	21	16.70
16-15-sep	6:05:04	593	3.9	2.5	-1.5	21	16.71
16-15-sep	7:05:04	593	9.5	8.0	-1.5	22	16.71
16-15-sep	8:05:04	593	13.7	13.7	0.1	23	16.70
16-15-sep	9:05:04	593	16.3	17.7	1.4	24	16.71
16-15-sep	10:05:04	593	17.6	19.9	2.3	25	16.70
16-15-sep	11:05:04	593	18.5	21.2	2.7	25	16.70
16-15-sep	12:05:04	592	19.5	22.0	2.5	25	16.71
16-15-sep	13:05:04	592	20.2	22.8	2.6	25	16.71
16-15-sep	14:05:04	592	20.7	22.8	2.2	25	16.70
16-15-sep	15:05:04	591	20.6	22.7	2.1	25	16.70
16-15-sep	16:05:04	591	20.4	22.2	1.8	25	16.70
16-15-sep	17:05:04	591	19.7	21.0	1.3	25	16.71
16-15-sep	18:05:04	591	14.0	15.3	1.3	25	16.70
16-15-sep	19:05:04	592	12.1	10.5	-1.6	24	16.71
16-15-sep	20:05:04	592	12.1	10.6	-1.5	24	16.71
16-15-sep	21:05:04	592	11.7	10.1	-1.6	24	16.72
16-15-sep	22:05:04	592	11.6	10.3	-1.4	24	16.70
16-15-sep	23:05:04	592	10.9	9.6	-1.4	24	16.71

BGI PQ200 Air Sampling System Downloaded 2016 23 sep 13:42:38

Job Details:

Job Name: 16Sep23E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1021:29
Flags:

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

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	13.7	11	12.4	°C
Q	---	---	16.7	Lpm

QCV 0.47 %
Max overheat 5 °C
occured 22-sep 17:47:33

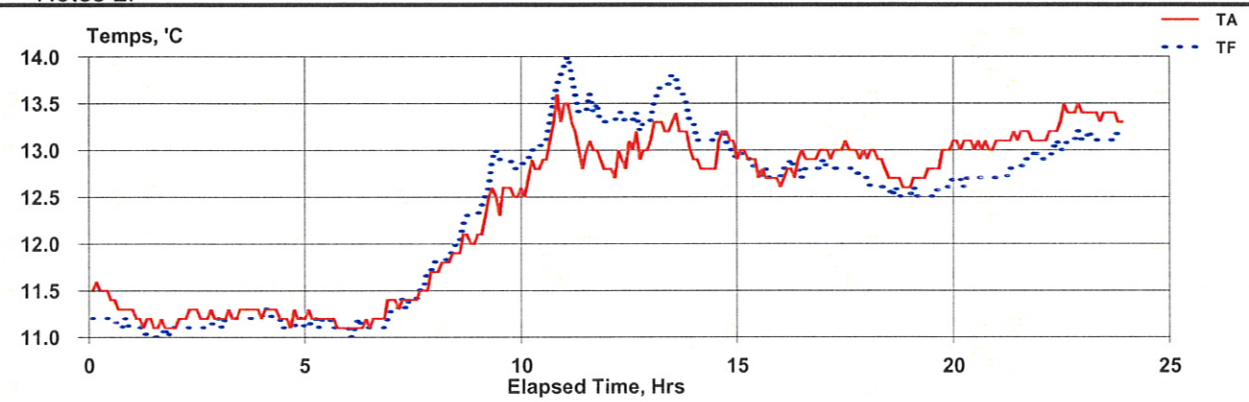
Timer Information:

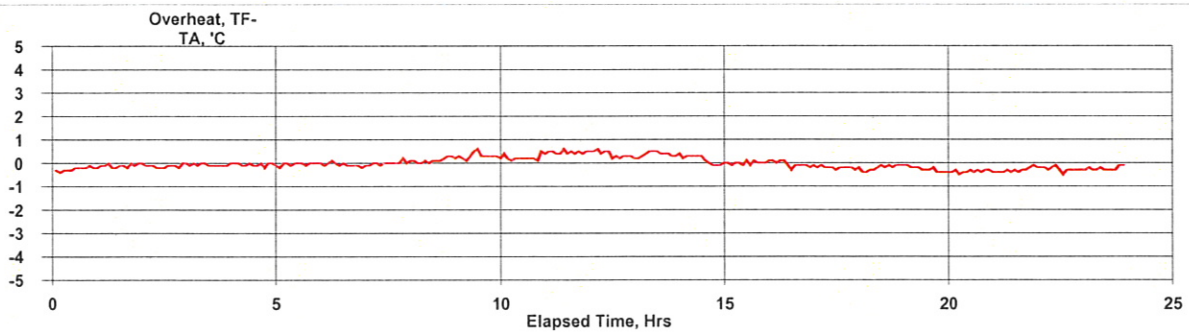
	Date dd-mmm	Time hh:mm:ss
Start:	16-21-sep	0:00:08
Stop:	16-22-sep	0:00:04
ET:	23:59	

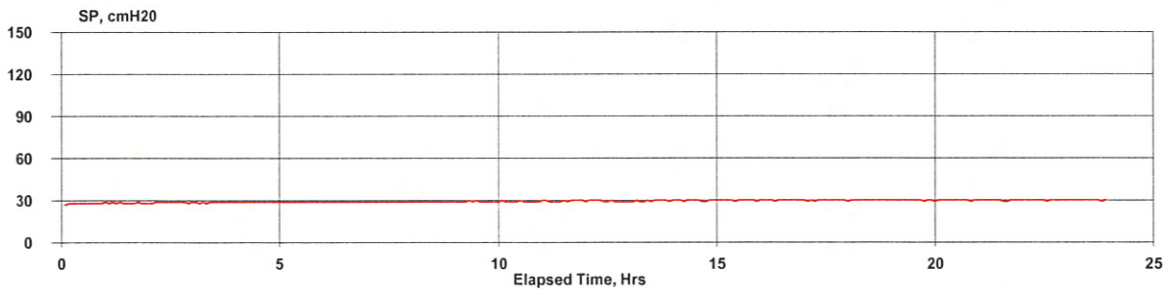
Mass Concentration Data:

Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







16-21-sep	0:05:08	593	11.4	11.2	-0.2	28	16.71
16-21-sep	1:05:08	593	11.1	11.1	-0.1	28	16.70
16-21-sep	2:05:08	593	11.2	11.1	-0.1	29	16.72
16-21-sep	3:05:08	593	11.3	11.2	-0.1	29	16.70
16-21-sep	4:05:08	593	11.2	11.2	-0.1	29	16.70
16-21-sep	5:05:08	593	11.2	11.1	0.0	29	16.70
16-21-sep	6:05:08	593	11.2	11.1	-0.1	29	16.70
16-21-sep	7:05:08	593	11.5	11.5	0.0	29	16.71
16-21-sep	8:05:08	593	11.9	12.1	0.1	29	16.71
16-21-sep	9:05:08	593	12.5	12.8	0.3	29	16.72
16-21-sep	10:05:08	593	13.0	13.3	0.2	29	16.72
16-21-sep	11:05:08	593	13.0	13.5	0.5	30	16.70
16-21-sep	12:05:08	592	13.0	13.3	0.4	29	16.71
16-21-sep	13:05:08	592	13.2	13.6	0.4	30	16.70
16-21-sep	14:05:08	592	13.0	13.1	0.1	30	16.71
16-21-sep	15:05:08	591	12.8	12.8	0.0	30	16.70
16-21-sep	16:05:08	591	12.9	12.8	-0.1	30	16.71
16-21-sep	17:05:08	591	13.0	12.8	-0.2	30	16.70
16-21-sep	18:05:08	591	12.8	12.6	-0.2	30	16.71
16-21-sep	19:05:08	591	12.8	12.6	-0.3	30	16.71
16-21-sep	20:05:08	591	13.1	12.7	-0.4	30	16.74
16-21-sep	21:05:08	591	13.1	12.8	-0.3	30	16.71
16-21-sep	22:05:08	590	13.3	13.0	-0.3	30	16.70
16-21-sep	23:05:08	590	13.4	13.1	-0.2	30	16.71

APPENDIX C

Precision and Single-Point Flow Rate Checks

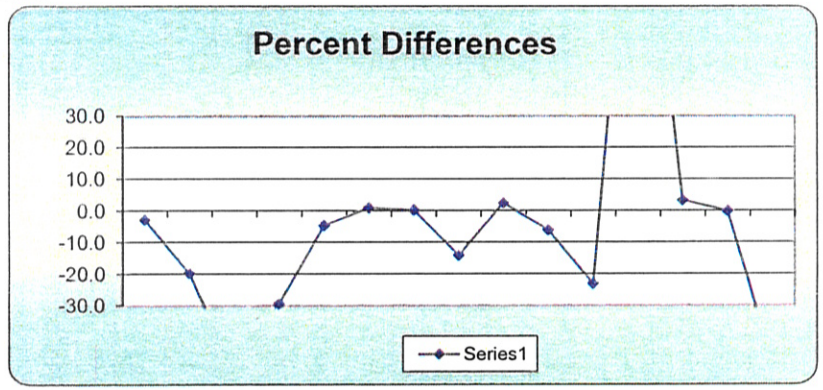
Alton Coal Development, LLC - Coal Hollow Mine

Precision Estimate (From Collocated Samples)

Monitors 963B & 964C		Pollutant type:					CV_{ub} (%)
Meas Val (Y)	Audit Val (X)	d (Eqn 10)	25th Percentile	d^2	|d|	$\|d\|^2$	
22.4	23	-2.6	-21.328	6.986	2.643	6.986	
52.9	64.4	-19.6	75th Percentile	384.468	19.608	384.468	
11.5	19.3	-50.6	0.808	2565.357	50.649	2565.357	
21	28.2	-29.3		856.633	29.268	856.633	
83.1	86.9	-4.5		19.986	4.471	19.986	
17.4	17.2	1.2		1.336	1.156	1.336	
21.8	21.7	0.5		0.211	0.460	0.211	
56	64.4	-14.0		194.6998	13.953	194.700	
46.5	45.3	2.6		6.835	2.614	6.835	
4.8	5.1	-6.1		36.73095	6.061	36.731	
11.9	15	-23.0		531.225	23.048	531.225	
187.4	38.4	132.0		17417.453	131.975	17417.453	
49.8	48.1	3.5		12.061	3.473	12.061	
4.4	4.4	0.0		0.000	0.000	0.000	
30.7	49.9	-47.6		2269.825	47.643	2269.825	

n	$\Sigma\|d\|$	$\Sigma\|d\|^2$
15	337.023	24303.808
n-1	**Σd**	**Σd^2**
14	-57.666	24303.808

CV (%) (Eqn 11)
39.32



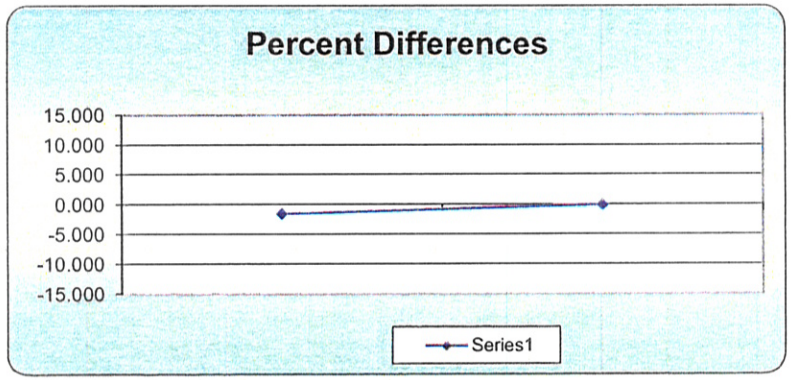
Alton Coal Development, LLC - Coal Hollow Mine

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	$\|d\|$	$\|d\|^2$
16.7	17.04	-1.995	-1.865	3.981	1.995	3.981
16.7	16.95	-1.475	**75th Percentile**	2.175	1.475	2.175
			-1.605			

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	3.470	1.735
n-1	$\Sigma\|d\|^2$	"AS" (Eqn 5)
1	6.157	0.368

Bias (%) (Eqn 3)	Both Signs Positive
3.38	FALSE
Signed Bias (%)	Both Signs Negative
-3.38	TRUE



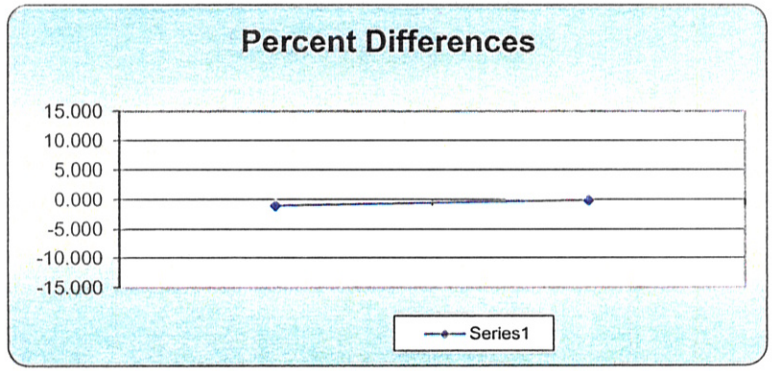
Alton Coal Development, LLC - Coal Hollow Mine

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	$\|d\|$	$\|d\|^2$
16.75	16.87	-0.711	-0.845	0.506	0.711	0.506
16.7	16.85	-0.890	**75th Percentile**	0.792	0.890	0.792
			-0.756			

n	$\Sigma\|d\|$	**"AB" (Eqn 4)**
2	1.602	0.801
n-1	$\Sigma\|d\|^2$	**"AS" (Eqn 5)**
1	1.298	0.126

Bias (%) (Eqn 3)	Both Signs Positive
1.37	FALSE
Signed Bias (%)	Both Signs Negative
-1.37	TRUE



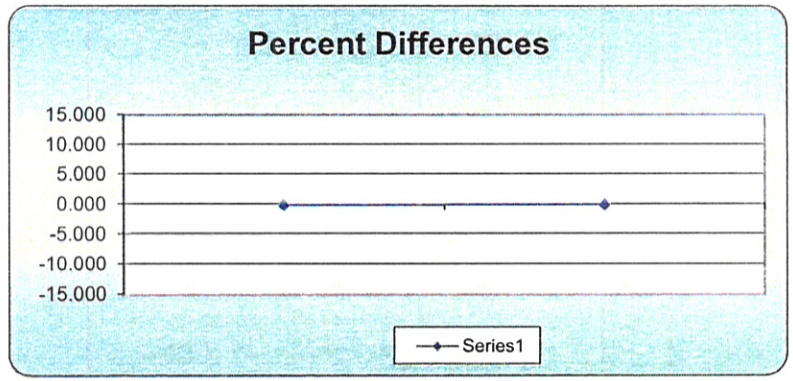
Alton Coal Development, LLC - Coal Hollow Mine

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	16.47	1.396	0.304	1.950	1.396	1.950
16.7	16.71	-0.060	75th Percentile	0.004	0.060	0.004
			1.032			

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	1.456	0.728
n-1	$\Sigma\|d\|^2$	"AS" (Eqn 5)
1	1.954	0.945

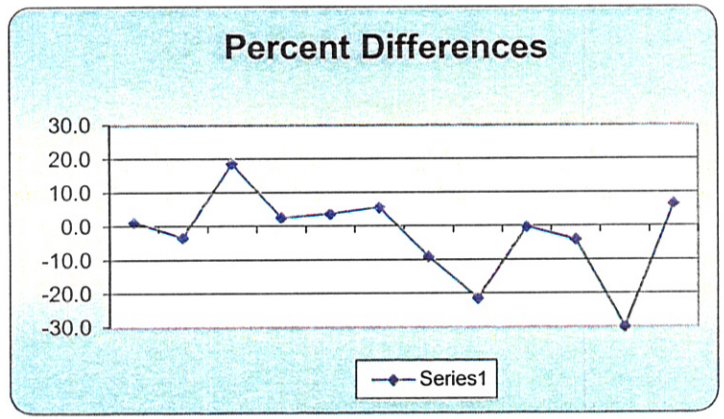
Bias (%) (Eqn 3)	Both Signs Positive
4.95	TRUE
Signed Bias (%)	Both Signs Negative
+4.95	FALSE



Alton Coal Development, LLC - Coal Hollow Mine - NPL

Precision Estimate (From Collocated Samples)

Monitors 963D & 964E		Pollutant type:					CV_{ub} (%)		
Meas Val (Y)	Audit Val (X)	d (Eqn 10)	25th Percentile	d^2	$\|d\|$	$\|d\|^2$			
272.3	268.4	1.4	-5.100	2.081	1.443	2.081			
224.4	231.5	-3.1	75th Percentile	9.701	3.115	9.701	n	$\Sigma\|d\|$	$\Sigma\|d\|^2$
16.9	14	18.8	4.314	352.321	18.770	352.321	12	106.352	1909.412
36.2	35.2	2.8		7.846	2.801	7.846	n-1	Σd	Σd^2
13.2	12.7	3.9		14.907	3.861	14.907	11	-27.922	1909.412
29	27.4	5.7		32.192	5.674	32.192			
24.8	27.1	-8.9		78.556	8.863	78.556			
17.1	21.2	-21.4		458.3847	21.410	458.385			
5.6	5.6	0.0		0.000	0.000	0.000	CV (%) (Eqn 11)		
10.2	10.6	-3.8		14.7929	3.846	14.793	12.86		
21.9	29.6	-29.9		894.184	29.903	894.184			
6.2	5.8	6.7		44.444	6.667	44.444			



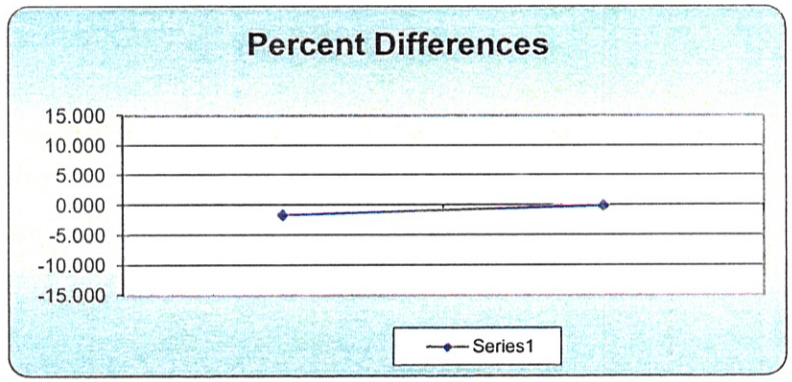
Alton Coal Development, LLC - Coal Hollow Mine

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	16.65	0.300	0.120	0.090	0.300	0.090	
16.7	16.69	0.060	**75th Percentile**	0.004	0.060	0.004	
			0.240				

n	**$\Sigma\|d\|$**	**"AB" (Eqn 4)**
2	0.360	0.180
n-1	**$\Sigma\|d\|^2$**	**"AS" (Eqn 5)**
1	0.094	0.170

Bias (%) (Eqn 3)	Both Signs Positive
0.94	TRUE
Signed Bias (%)	Both Signs Negative
+0.94	FALSE



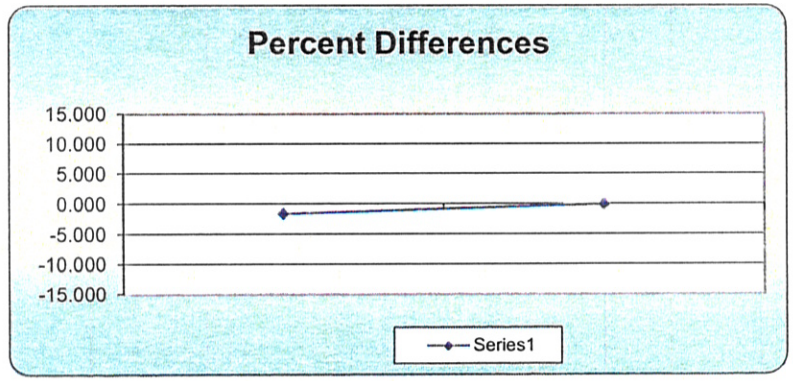
Alton Coal Development, LLC - Coal Hollow Mine

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	16.64	0.361	0.135	0.130	0.361	0.130
16.7	16.69	0.060	75th Percentile	0.004	0.060	0.004
			0.285			

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	0.420	0.210
n-1	$\Sigma\|d\|^2$	"AS" (Eqn 5)
1	0.134	0.213

Bias (%) (Eqn 3)	Both Signs Positive
1.16	TRUE
Signed Bias (%)	Both Signs Negative
+1.16	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	
07-01-16	1659	07-01-16	1558	9	13	M-M	07-05-16	JKSR	
07-07-16	1351	07-07-16	1250	13	36 Blank	1250	07-07-16	JKSR	Blank
07-07-16	1353	07-07-16	1252	36	18	M-M	07-11-16	JKSR	
07-12-16	1031	07-12-16	0930	18	4	M-M	07-17-16	KN	
07-19-16	0953	07-19-16	0852	4	22	M-M	07-23-16	JKSR	code P
07-25-16	1409	07-25-16	1307	21	27	M-M	07-29-16	JKSR	code FT
08-01-16	1557	08-01-16	1456	27	9	M-M	08-04-16	JKSR	code F
08-05-16	0907	08-05-16	0806	9	14	M-M	08-10-16	JKSR	
08-11-16	1516	08-11-16	1415	14	19	M-M	08-16-16	JKSR	
08-19-16	1122	08-19-16	1020	19	37	M-M	08-22-16	JKSR	
08-25-16	1022	08-25-16	0911	37	4	M-M	08-28-16	JKSR	
08-29-16	1524	08-29-16	1423	4	18	M-M	09-02-16	JKSR	
09-06-16	1259	09-06-16	1657	18	25	M-M	09-09-16	JKSR	code F
09-12-16	1544	09-12-16	1443	25	9	M-M	09-15-16	JKSR	code F
09-16-16	1447	09-16-16	1346	9	26	[illegible]	09-16-16	JKSR	Blank
09-16-16	1450	09-16-16	1349	26	15	M-M	09-21-16	JKSR	
09-23-16	14:12	09-23-16	1311	15	31	M-M	09-27-16	KN	
09-29-16	14 16	09-29-16	13 15	31	36	M-M	10-03-16	JKSR	still Running

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
07-12-16	10:39	98	98	Pass	KN	Cleaned Inlet Manifold
08-05-16	11:15	98	97	Pass	KN	Cleaned Intake 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
07-12-16	1204	16.70	586	587.5	24.9	25.4	13.15	17.04	-1.95	KN
08-05-16	11:18	16.70	586	587	22.8	26.9	13.11	16.95	-1.5	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	
07-01-16	1714	07-01-16	1613	10	14	M-M	07-05-16	JKSR	
07-07-16	1412	07-07-16	1312	14	19	M-M	07-11-16	JKSR	
07-12-16	1229	07-12-16	1129	19	5	M-M	07-17-16	KN	
07-19-16	1006	07-19-16	0905	5	22	M-M	07-23-16	JKSR	
07-25-16	1508	07-25-16	1408	22	28	M-M	07-29-16	JKSR	
08-01-16	1626	08-01-16	1525	28	32 Blank	~~M-M~~	08-04-16	JKSR	Blank
08-01-16	1632	08-01-16	1537	32	10	M-M	08-04-16	JKSR	
08-05-16	0925	08-05-16	0824	10	15	M-M	08-10-16	JKSR	
08-11-16	1532	08-11-16	1431	15	20	M-M	08-16-16	JKSR	
08-19-16	1134	08-19-16	1433	20	38	M-M	08-22-16	JKSR	
08-25-16	1028	08-25-16	0926	38	5	M-M	08-28-16	JKSR	
08-29-16	1538	08-29-16	1437	5	21	M-M	09-03-16	JKSR	
09-06-16	1812	09-06-16	1711	21	27	M-M	09-09-16	JKSR	
09-12-16	1559	09-12-16	1458	27	10	M-M	09-15-16	JKSR	
09-16-16	1504	09-16-16	1403	10	16	M-M	09-21-16	JKSR	
09-23-16	1425	09-23-16	1325	16	32	M-M	09-27-16	KN	
09-29-16	1445	09-29-16	1345	32	42 Blank	1445	09-29-16	JKSR	Blank
09-29-16	1446	09-29-16	1346	Blank 42	JBR-1	M-M	10-03-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
07-12-16	12:35	95	92	Pass	KN	Cleaned Intake Manifold
08-05-16	11:40	98	96	Pass	KN	Cleaned Intake 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
7-12-16	1243	16.75	592	597.3	25.9°	26.7	17.09	16.87	-0.71	KN
08-05-16	1143	16.70	586	587	22.10	22.8	17.07	16.85	-0.89	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	
07-01-16	1715	07-01-16	1612	11	15	M-M	07-05-16	JKSR	
07-07-16	1414	07-07-16	1311	15	20	M-M	07-11-16	JKSR	
07-12-16	1237	07-12	1135	20	6	M-M	07-17-16	KN	
07-19-16	1007	07-19-16	0904	6	23	M-M	07-23-16	JKSR	
07-25-16	1510	07-25-16	1407	23	29	M-M	07-29-16	JKSR	
08-01-16	1536	08-01-16	1331	29	11	M-M	08-04-16	JKSR	
08-05-16	0923	08-05-16	0820	11	34	0820	08-05-16	JKSR	Blank
08-05-16	0926	08-05-16	0823	34	16	M-M	08-10-16	JKSR	
08-11-16	1533	08-11-16	1429	16	26	M-M	08-16-16	JKSR	
08-19-16	1135	08-19-16	1031	26	39	M-M	08-22-16	JKSR	
08-25-16	1030	08-25-16	0926	39	6	M-M	08-28-16	JKSR	
08-29-16	1540	08-29-16	1437	6	22	M-M	09-03-16	JKSR	
09-06-16	1817	09-06-16	1709	22	28	M-M	09-09-16	JKSR	
09-12-16	1601	09-12-16	1457	28	11	M-M	09-15-16	JKSR	
09-16-16	1505	09-16-16	1402	11	17	M-M	09-21-16	JKSR	
09-23-16	1430	09-23-16	1327	17	33	M-M	09-27-16	KN	
09-29-16	1449	09-29-16	1345	33	JBR-7	M-M	10-03-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
07-12-16	[illegible]	113	112	Pass	KN	Cleaned Intake Manifold
08-05-16	11:57	112	111	Pass	KN	Cleaned Intake 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
7/12/16	13:02	16.70	594	593	27.8	27.3	12.76	16.47	1.40	KN
08-05-16	11:56	16.70	595	593	22.1	22.3	12.97	16.71	-0.06	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	
07-01-16	1725	07-01-16	1622	12	16	M-M	07-05-16	JKSR	
07-07-16	1427	07-07-16	1323	16	26	M-M	07-11-16	JKSR	
07-12-16	1339	07-12-16	1235	26	7	M-M	07-17-16	KN	
07-19-16	1021	07-19-16	0917	7	24	M-M	07-23-16	JKSR	CODE QT
07-25-16	1520	07-25-16	1416	24	30	M-M	07-29-16	JKSR	
08-01-16	1653	08-01-16	1548	30	12	M-M	08-04-16	JKSR	
08-05-16	0937	08-05-16	0833	12	17	M-M	08-10-16	JKSR	
08-11-16	1544	08-11-16	1440	17	35	M-M	08-16-16	JKSR	
08-19-16	1042	08-19-16	1042	35	42	1042	08-19-16	JKSR	Blank
08-19-16	1149	08-19-16	1044	42	40	M-M	08-23-16	JKSR	
08-25-16	1043	08-25-16	0938	40	7	M-M	08-29-16	JKSR	
08-29-16	1550	08-29-16	1445	7	23	M-M	09-03-16	JKSR	
09-06-16	1823	09-06-16	1718	23	29	M-M	09-09-16	JKSR	
09-12-16	1615	09-12-16	1510	29	12	M-M	09-15-16	JKSR	
09-16-16	1516	09-16-16	1411	12	19	M-M	09-21-16	JKSR	
09-23-16	1444	09-23-16	13:39	19	34	M-M	09-27-16	KN	
09-29-16	1504	09-29-16	13:59	34	JSR-8	M-M	10-03-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
~~7/17/16~~	1341	97	96	Pass	KN	Cleaned Intake Manifold
08-05-16	1208	96	96	Pass	KN	Cleaned Intake 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
7/12/16	1346	16.70	591	592.5	26.4	27.2	12.91	16.65	0.30	KN
08-05-16	1212	16.70	592	592.5	23.1	23.6	12.95	16.69	0.06	KN

2366D

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	
07-01-16	1727	07-01-16	1623	32	17	M-M	07-05-16	JKSR	
07-07-16	1428	07-07-16	1323	17	35	M-M	07-11-16	JKSR	
07-12-16	1352	07-12-16	1247	35	8	M-M	07-17-16	KN	
07-19-16	1022	07-19-16	0918	8	25	M-M	07-23-16	JKSR	
07-25-16	~~1407~~	07-25-16	~~1307~~	25	31	M-M	07-29-16	JKSR	
↑	1522		1417	↑					
08-01-16	1654	08-01-16	1549	31	13	M-M	08-04-16	JKSR	
08-05-16	0939	08-05-16	0833	13	33	M-M	08-10-16	JKSR	
08-11-16	1547	08-11-16	1442	33	36	M-M	08-16-16	JKSR	
08-19-16	1152	08-19-16	1044	36	41	M-M	08-22-16	JKSR	
08-25-16	1044	08-25-16	0938	41	8	M-M	08-28-16	JKSR	
08-29-16	1551	08-29-16	1446	8	24	M-M	09-03-16	JKSR	
09-06-16	1824	09-06-16	1719	24	30	M-M	09-09-16	JKSR	
09-12-16	1613	09-12-16	1507	30	13	1507	09-12-16	JKSR	Blank
09-12-16	1618	09-12-16	1512	13	14	M-M	09-15-16	JKSR	Still Running
09-16-16	1517	09-16-16	1411	14	20	M-M	09-21-16	JKSR	
09-22-16	1449	09-16-16	1343	20	35	M-M	09-27-16	KN	
09-29-16	1506	09-29-16	1400	35	JOR-11	M-M	10-03-16	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
07-12-16	1356	110	109	Pass	KN	Cleaned Manifold (intake)
08-05-16	1215					

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
07-12-16	1358	16.70	592	592.5	27.4	27.5	12.85	16.64	0.361	KN
08-05-16	1220	16.70	592	592.5	23.7	23.9	12.95	16.69	0.06	KN

2398 E

APPENDIX E

Independent PM_{10} Sampler Performance Audit Report

AUDIT REPORT
FOR

ALTON COAL DEVELOPMENT, LLC
COAL HOLLOW MINE
ALTON, UTAH
THIRD QUARTER 2016

Prepared for

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

Prepared by

Air Resource
SPECIALISTS

1901 Sharp Point Dr.
Suite E
Fort Collins, CO 80525
970-484-7941

Site Audited: September 14th, 2016

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1.0 INTRODUCTION

Air Resource Specialists, Inc. (ARS) conducted a performance audit of Alton Coal Development, LLC ambient air quality monitoring systems on September 14th, 2016. The monitoring sites are located at the Coal Hollow Mine near Alton, Utah.

Table 1-1

Site Location Information

	Primary CHM	Background	Primary NPL	Meteorological
Latitude	37° 24' 5.0" N	37° 24' 20.9" N	37° 24' 43" N	37° 23' 53.2" N
Longitude	112° 27' 21.0" W	112° 26' 1.1" W	112° 27' 30.6" W	112° 26' 43.1" W
UTM	12S 371147 4140396	12S 373119 4140856	12S 370928 4141570	12S 372073 4140018
Elevation	6,890 feet MSL	7,158 feet MSL	6,959 feet MSL	7,007 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:

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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 ±2°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	≤ ± 10%
	Design criteria flow to audit flow	≤ ± 10%
	Audit temperature to sampler temperature	≤ ± 2 °C
	Audit temperature to sampler filter temperature	≤ ± 2 °C
	Audit barometric pressure to sampler pressure	≤ ±10 mm Hg

Table 2-2

Particulate Samplers
Audit Equipment

References	Manufacturer	Model Number	Serial Number	Expiration Date
FRM Flow	BGI	DeltaCal	141170	4/5/2017

3.0 AUDIT RESULTS

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

Performance Audit Results

The flow on the background sampler was found fluctuating, but was within specifications. The pump was noisier than usual; there were no other findings to report.

APPENDIX A

AUDIT DATA FORMS

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	ALTON	CLIENT	Alton	AUDITOR	M. Farinacci	DATE	9/14/2016
SITE NAME		Alton Coal - Coal Hollow					
Network type		Alton Coal- Coal Hollov					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Temperature Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Barometric Pressure Standard #1	Mesa Labs	deltaCal	141170	4/5/2017

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	962A

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
1 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	
14.8	13.3	-1.5	PASS

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

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
14.5	14.4	-0.1	PASS

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

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
587.0	586.0	-1.0	PASS

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

NOTES: Pump flow is fluctuating from 16.7 to 16.4

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	ALTON	CLIENT	Alton	AUDITOR	M. Farinacci	DATE	9/14/2016
SITE NAME		Alton Coal - Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Temperature Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Barometric Pressure Standard #1	Mesa Labs	deltaCal	141170	4/5/2017

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	963B

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
1 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	16.85	16.70	-0.9%	0.9%	PASS

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

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
14.8	13.3	-1.5	PASS

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

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
14.1	13.3	-0.8	PASS

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

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
593.5	593.0	-0.5	PASS

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

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	ALTON	CLIENT	Alton	AUDITOR	M. Farinacci	DATE	9/14/2016
SITE NAME		Alton Coal - Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Temperature Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Barometric Pressure Standard #1	Mesa Labs	deltaCal	141170	4/5/2017

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	964C

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
4 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	16.71	16.70	-0.1%	0.1%	PASS

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

	AMBIENT TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	14.8	13.6	-1.2	PASS

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

	FILTER TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	13.8	13.8	0.0	PASS

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

	PRESSURE SENSOR (mmHg)			
	Reference	Instrument	Difference	
	593.0	595.0	2.0	PASS

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

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	ALTON	CLIENT	Alton	AUDITOR	M. Farinacci	DATE	9/14/2016
SITE NAME		Alton Coal - Coal Hollow					
Network type		Alton Coal- Coal Hollov					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Temperature Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Barometric Pressure Standard #1	Mesa Labs	deltaCal	141170	4/5/2017

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2366D

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

SETTINGS	
Total Flow	16.70

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

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.80	16.70	-0.6%	0.6%	PASS

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

AMBIENT TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	13.8	12.1	-1.7	PASS

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

FILTER TEMPERATURE SENSOR (°C)				
	Reference	Instrument	Difference	
	12.1	11.7	-0.4	PASS

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

PRESSURE SENSOR (mmHg)				
	Reference	Instrument	Difference	
	592.5	592.0	-0.5	PASS

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

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	ALTON	CLIENT	Alton	AUDITOR	M. Farinacci	DATE	9/14/2016
SITE NAME		Alton Coal - Coal Hollow					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Temperature Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Barometric Pressure Standard #1	Mesa Labs	deltaCal	141170	4/5/2017

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2398E

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
5 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	16.75	16.70	-0.3%	0.3%	PASS

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

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
14.0	12.7	-1.3	PASS

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

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
12.8	12.4	-0.4	PASS

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

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
592.5	592.0	-0.5	PASS

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

NOTES:

Air Resource SPECIALISTS

SITE INFORMATION

ABBR.	ALTON	CLIENT	Alton	AUDITOR	M. Farinacci	DATE	9/14/2016
SITE NAME		Alton Coal - Coal Hollow					
NETWORK TYPE		Alton Coal- Coal Hollow					

		Deg	Min	Sec		Decimal
LATITUDE	North	37	24	22	--CALCULATE->	37.4061
LONGITUDE	West	112	27	15.5		112.4543

Decimal		Deg	Min	Sec
	--CALCULATE->			

	Meters		Feet
ELEVATION		--CALCULATE->	

Feet		Meters
6980	--CALCULATE->	2128

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.	ALTON	CLIENT	Alton	AUDITOR	M. Farinacci	DATE	9/14/2016
SITE NAME		Alton Coal - Coal Hollow					
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		mL		

PM Flow Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Flow Standard #2				
PM Flow Standard #3				
PM Flow Standard #4				

PM Temperature Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
PM Temperature Standard #2				
PM Temperature Standard #3				
PM Temperature Standard #4				

PM Barometric Pressure Standard #1	Mesa Labs	deltaCal	141170	4/5/2017
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

MesaLabs

CERTIFICATE OF CALIBRATION - NIST TRACEABILITY

(Refer to instruction manual for further details of calibration)

deltaCal Serial Number: **141170** DATE: 5-Apr-2016

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: Uncertainity=0.071% Room Temperature: 25.4 °C
Brand: Teletemp Serial Number: 300907
Std Cal Date 13-May-15 Std Cal Due Date 12-May-16
deltaCal:
Ambient Temperature (set): 25.4 °C
Aux (filter) Temperature (set): 25.4 °C

Barometric Pressure ans Absolute Pressure
Vaisala Model PTB330(50-1100) Digital Accuracy: 0.03371%
S/N DH0850001
NIST Traceable (Princo Primary Standard Model 453 S/N W12537) Certificate No. P-7485
deltaCal:
Barometric pressure (set): 742 mm of Hg

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

Q= 3.87619 ΔP ^ 0.52037 Overall Uncertainty: 0.35%
Q= 3.77376 ΔP ^ 0.54379 Overall Uncertainty: 0.35%

Date Placed In Service 4/19/16
(To be filled in by operator upon receipt)
Recommended Recalibration Date 4/19/17
(12 months from date placed in service)

Revised: September 2015
Cal102-01T2 Rev E

To Check a deltaCal 5-Apr-16 P.Pitty

1.5-19.5 VER 4.00P

BP= 742 mm of Hg

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

Serial No. 141170

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 2	134.42	25.40	1.543	1.548	0.31
	214.88	25.40	2.496	2.509	0.50
	292.82	25.40	3.420	3.417	-0.08
	421.43	25.40	4.943	4.935	-0.17
	474.12	25.40	5.568	5.581	0.24
#1	148.83	26.00	6.014	5.985	-0.48
	256.85	26.00	10.492	10.463	-0.27
	339.94	26.00	13.936	13.923	-0.10
	408.90	26.00	16.795	16.777	-0.11
	472.25	26.00	19.421	19.461	0.20
				Average %	0.01

To Check a deltaCal 5-Apr-16 Pre-Recert

1.5-19.5 VER 3.41P

BP= 741.5 mm of Hg

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

Serial No. 141170

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 5	76.4	24.7	2.42	2.47	2.10
	260.2	24.7	8.78	8.70	-0.92
	362.4	24.7	12.32	12.2	-0.95
	472.4	24.7	16.12	15.98	-0.90
	563.8	24.7	19.29	19.16	-0.67

Average % -0.27