Alton Coal Development, LLC.

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

DAQ-2018-018261

Submitted to:
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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 2018.

2.0 SITE LOCATION

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

Northing: 41401699 meters

Easting: 371534 meters

Universal Transverse Mercator (UTM) Datum NAD27, Zone 12

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

Figure 1 - Site Location Map

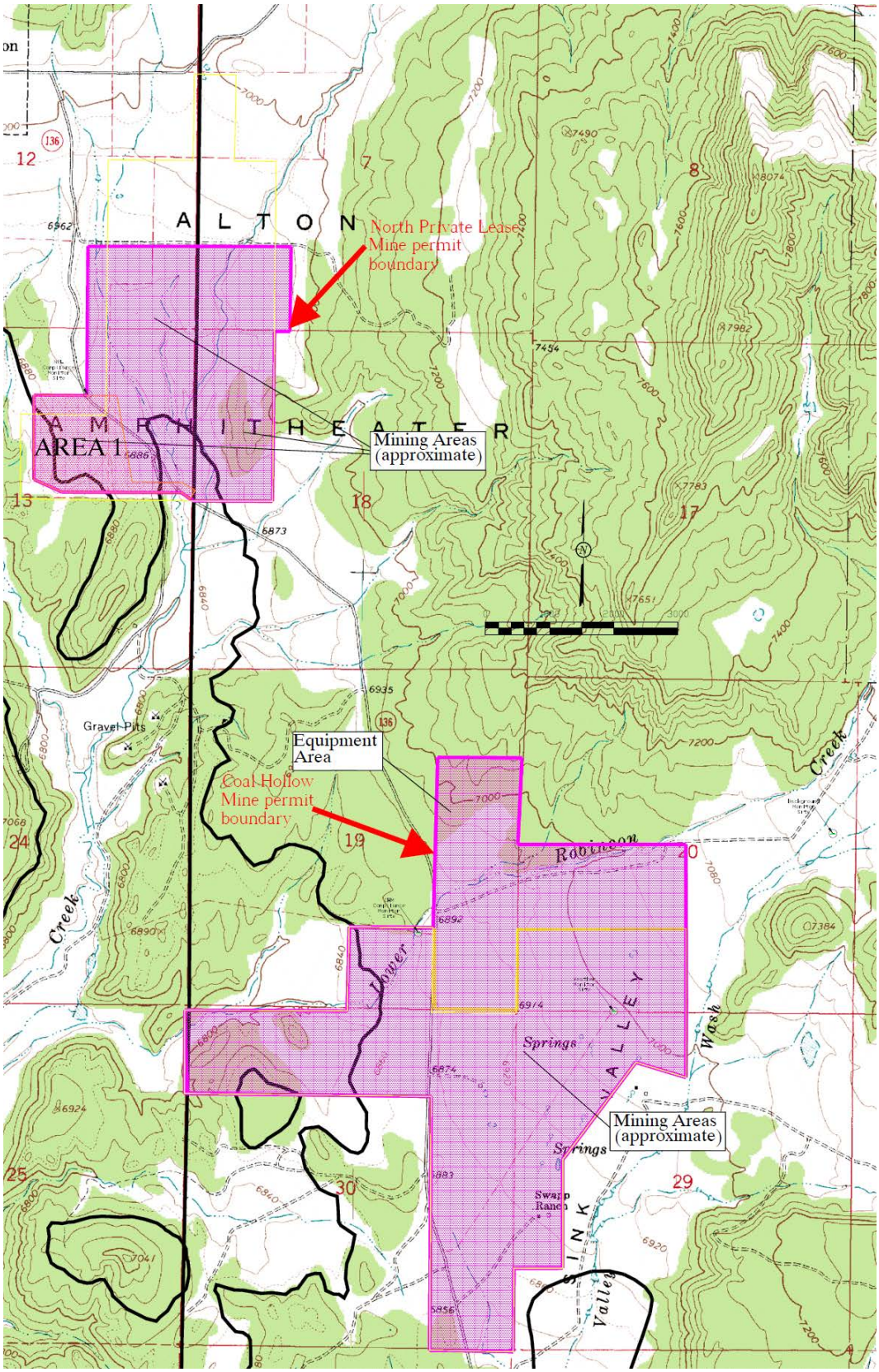
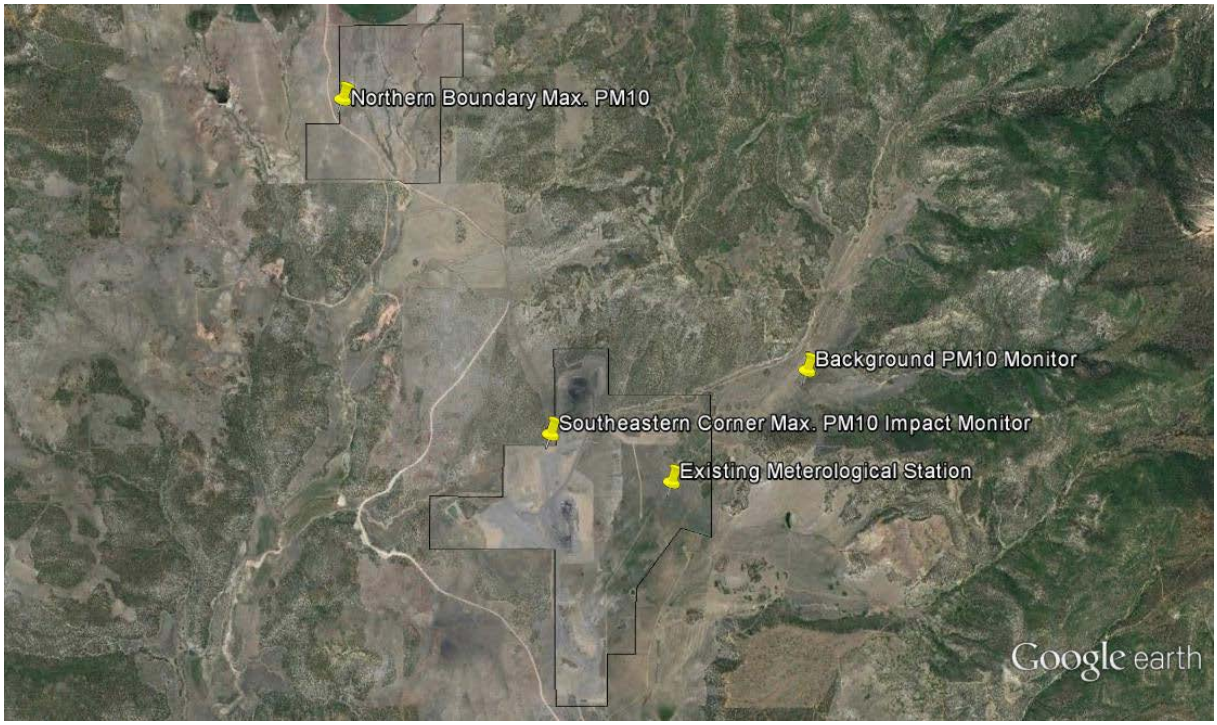


Figure 2 - Satellite View of Monitoring Locations



3.0 AIR QUALITY DATA SUMMARIES

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

The highest 24-hour mean PM_{10} concentrations measured during the quarter from the three monitoring locations are summarized in Table I, Table II, Table III, Table IV and Table V. The three highest concentrations, # of valid samples, and the arithmetic mean concentrations from each of the sites are listed. Three days the measured PM_{10} concentrations exceeded the 24-hour National Ambient Air Quality Standard (NAAQS) of 150 µg/m^3. For the July 13th run, both the 2366D and 2398E monitor, on August 6th run, the 2366D monitor and on August 30th run, the 2398 monitor exceeded the NAAQS. UDOGM requested removal of topsoil from an area of Prime Farmland (44 acres) to be removed and stockpiled all at the same time rather than pit by pit as is typical for ADC. This not only increased the area of disturbance at the NPL, but concentrated traffic near the location of the NPL monitors as several of the stockpiles are in close vicinity of the monitors. The stockpile, once complete will be seeded to stabilize from future wind and water erosion.

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	7/31/2018	23.1
2nd Highest	9/29/2018	23.0
Monthly Mean	7/1/18-7/31/18	10.9
Monthly Mean	8/1/18-8/31/18	10.1
Monthly Mean	9/1/18-9/30/18	13.5
Quarterly Mean	7/1/18-9/30/18 (16 valid samples)	11.5

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	8/6/2018	41.5
2nd Highest	9/11/2018	39.7
Monthly Mean	7/1/18-7/31/18	17.4

Monthly Mean	8/1/18-8/31/18	19.0
Monthly Mean	9/1/18-9/30/18	25.4
Quarterly Mean	7/1/18-9/30/18 (14 valid samples)	20.3

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	8/6/2018	49.1
2nd Highest	9/11/2018	43.1
Monthly Mean	7/1/18-7/31/18	15.7
Monthly Mean	8/1/18-8/31/18	32.1
Monthly Mean	9/1/18-9/30/18	25.7
Quarterly Mean	7/1/18-9/30/18 (9 valid samples)	27.0

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	7/13/2018	310.81
2nd Highest	8/6/2018	153.5
Monthly Mean	7/1/18-7/31/18	110.7
Monthly Mean	8/1/18-8/31/18	85.6
Monthly Mean	9/1/18-9/30/18	92.3
Quarterly Mean	7/1/18-9/30/18 (15 valid samples)	97.9

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

RANK	DATE	PM_{10} CONCENTRATION
Highest	7/13/2018	276.3
2nd Highest	8/30/2018	211.9
Monthly Mean	7/1/18-7/31/18	99.3
Monthly Mean	8/1/18-8/31/18	92.7
Monthly Mean	9/1/18-9/30/18	88.8
Quarterly Mean	7/1/18-9/30/18 (14 valid samples)	81.4

Table VI – Mean Quarterly and Monthly Wind Speed

	3rd Quarter 2018	Apr.	May	Jun.
Mean Wind Speed (m/s)	3.53	3.87	3.25	3.48

4.0 DATA RECOVERY AND QUALITY ASSURANCE

4.1 Data Recovery

Monitor 962A

Monitor 962A collected 16 of the 16 samples during the quarter. The percent recovery for this quarter is 100%.

Monitor 963B

Monitor 963B collected 14 of the 16 samples during the quarter. The percent recovery for this quarter is 88%. For the sample date July 31st, the monitor did not run the programed sampling time. For the sample date September 11th, the monitor had a flow excursion > than 5 minutes which terminated the run.

Monitor 964C

Monitor 964C collected 9 of the 16 samples during the quarter. The percent recovery for this quarter is 56%. For the sample date July 7th, the monitor failed to collect from Midnight to Midnight, recorded data for run sample period is incorrect. For the sample dates of July 13th, 19th, 25th & 31st, September 17th, 23rd and 29 the monitor failed to run due to a flow rate excursion > ± 5% for > 5 minutes that caused the monitor to shut down. The flow controller was replaced

Monitor 2366D

Monitor 2366D collected 15 of the 16 samples during the quarter. The percent recovery for this quarter is 93%. For the sample date August 18th, the monitor had incorrect data for the sampling period.

Monitor 2398E

Monitor 2398E collected 14 of the 16 samples during the quarter. The percent recovery for this quarter is 88%. For the sample date July 13th, the monitor although programmed correctly, did not run for the sampling period. For the sample date August 18th, the monitor shut down after 1.5 minutes run.

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

Table VII - Summary of Data Recovery

SAMPLER	POSSIBLE SAMPLES	VALID SAMPLES	PERCENT DATA RECOVERY
962A	16	16	100%
963B	14	16	88%
964C	9	16	56%
2366D	15	16	94%
2398E	14	16	88%

4.2 Quality Assurance

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

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

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

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

4.2.1 Precision of PM_{10} Measurements

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

Precision calculations at the Coal Hollow Mine were developed based on 11 valid pairs of co-located monitoring data during the quarter. Single point precision based on *40 CFR, Part 58*, Appendix A Equation 2 results were -128.4% to 21.3%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 46.7%. This value is not within the 10% goal for aggregate CV.

Precision calculations at the North Private Lease were developed based on 14 valid pairs of co-located monitoring data during the quarter. Single point precision based on *40 CFR, Part 58*, Appendix A Equation 2 results were -36.7% to 139.4%. The aggregate coefficient of variability (CV) calculated in accordance with *40 CFR, Part 58*, Appendix A Equation 11 is 41.0%. 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 September 13, 2018. A copy of the audit report is presented in Appendix E and is summarized in Table VI. The audit results indicate that the five samplers were operating properly.

Table VIII- Audit Summary

SAMPLER	AUDIT % DIFFERENCE	LIMIT*	DESIGN % DIFFERENCE	LIMIT*
962A	-1.4	±4%	1.4	± 5%
963B	0.1	±4%	-0.9	± 5%
964C	1.2	±4%	-1.2	± 5%
2366D	0.0	±4%	0.0	± 5%
2398E	0.4	±4%	-0.4	± 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

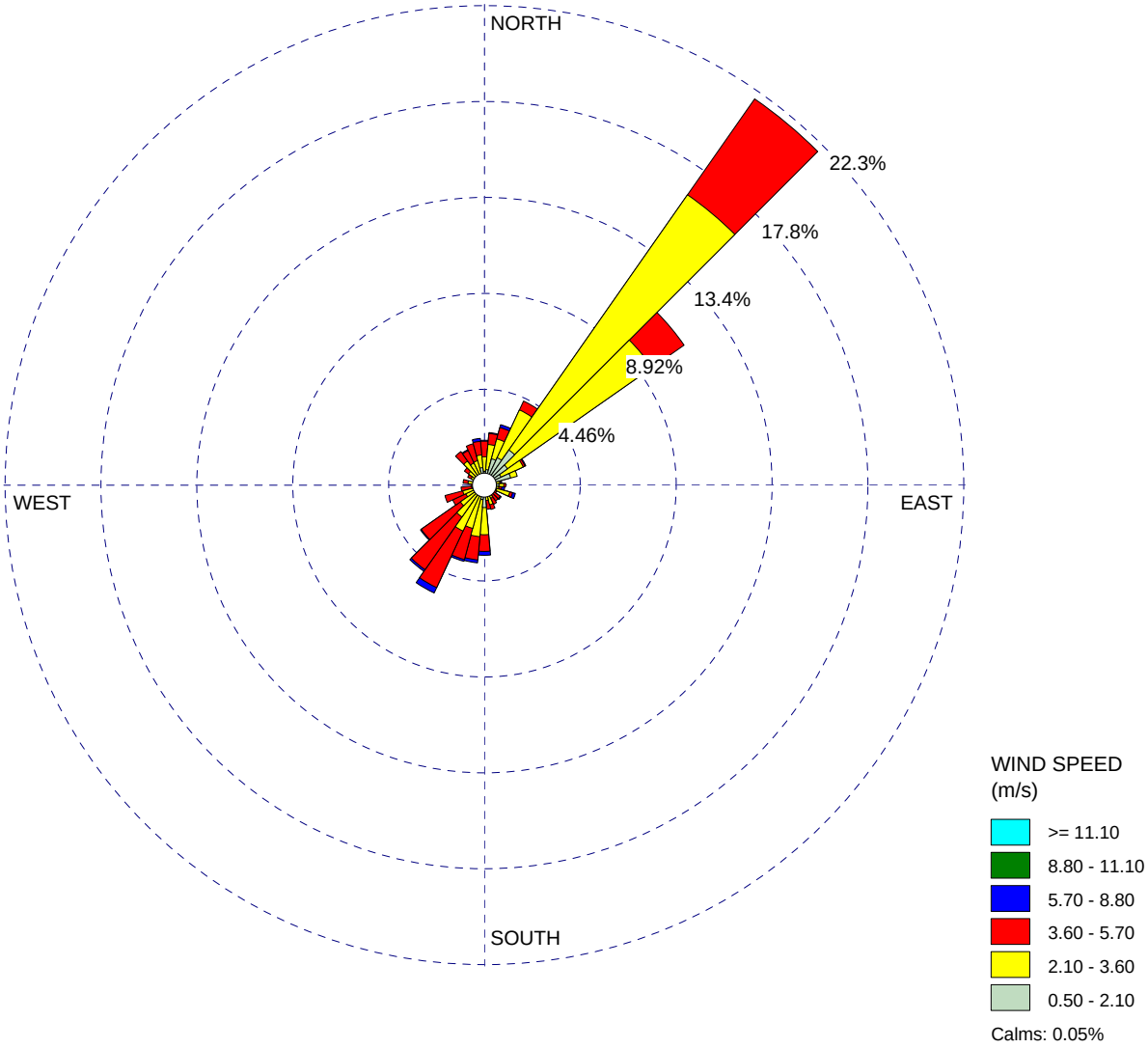
Windrose

WIND ROSE PLOT:

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

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 7/1/2018 - 00:00** **End Date: 9/30/2018 - 23:00**	COMPANY NAME: **Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.05%**	TOTAL COUNT: **2208 hrs.**	
	AVG. WIND SPEED: **3.04 m/s**	DATE: **10/19/2018**	PROJECT NO.:

Station ID: 1 Run ID: Coal Hollow Mine
Start Date: 7/1/2018 - 00:00
End Date: 9/30/2018 - 23:00

Frequency Distribution
(Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	14	15	16	1	0	0	**46**
5-15	16	26	11	1	0	0	**54**
15-25	28	21	12	3	0	0	**64**
25-35	31	54	10	0	0	0	**95**
35-45	44	319	120	0	0	0	**483**
45-55	29	181	40	0	0	0	**250**
55-65	19	25	2	1	0	0	**47**
65-75	28	7	0	0	0	0	**35**
75-85	10	6	1	1	0	0	**18**
85-95	15	5	2	0	0	0	**22**
95-105	6	9	3	3	0	0	**21**
105-115	13	14	3	3	0	0	**33**
115-125	1	8	5	0	0	0	**14**
125-135	2	9	9	1	0	0	**21**
135-145	5	6	9	0	0	0	**20**
145-155	5	10	7	0	0	0	**22**
155-165	6	15	5	0	0	0	**26**
165-175	6	10	9	0	0	0	**25**
175-185	23	28	17	4	0	0	**72**
185-195	15	38	24	3	0	0	**80**
195-205	12	34	33	2	0	0	**81**
205-215	12	40	64	6	0	0	**122**
215-225	10	30	66	2	0	0	**108**
225-235	6	24	49	1	0	0	**80**
235-245	4	17	15	0	0	0	**36**
245-255	10	13	19	0	0	0	**42**
255-265	4	9	11	0	0	0	**24**
265-275	3	3	8	0	0	0	**14**
275-285	10	7	5	0	0	0	**22**
285-295	7	4	1	0	0	0	**12**
295-305	7	8	4	0	0	0	**19**
305-315	8	12	5	0	0	0	**25**
315-325	11	19	12	0	0	0	**42**
325-335	6	19	14	1	0	0	**40**
335-345	12	14	18	0	0	0	**44**
345-355	18	13	14	3	0	0	**48**
Total	456	1072	643	36	0	0	2208

Frequency of Calm Winds: 1
Average Wind Speed: 3.04 m/s

Station ID: 1 Run ID: Coal Hollow Mine
Start Date: 7/1/2018 - 00:00
End Date: 9/30/2018 - 23:00

Frequency Distribution
(Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.006341	0.006793	0.007246	0.000453	0.000000	0.000000	**0.020833**
5-15	0.007246	0.011775	0.004982	0.000453	0.000000	0.000000	**0.024457**
15-25	0.012681	0.009511	0.005435	0.001359	0.000000	0.000000	**0.028986**
25-35	0.014040	0.024457	0.004529	0.000000	0.000000	0.000000	**0.043025**
35-45	0.019928	0.144475	0.054348	0.000000	0.000000	0.000000	**0.218750**
45-55	0.013134	0.081975	0.018116	0.000000	0.000000	0.000000	**0.113225**
55-65	0.008605	0.011322	0.000906	0.000453	0.000000	0.000000	**0.021286**
65-75	0.012681	0.003170	0.000000	0.000000	0.000000	0.000000	**0.015851**
75-85	0.004529	0.002717	0.000453	0.000453	0.000000	0.000000	**0.008152**
85-95	0.006793	0.002264	0.000906	0.000000	0.000000	0.000000	**0.009964**
95-105	0.002717	0.004076	0.001359	0.001359	0.000000	0.000000	**0.009511**
105-115	0.005888	0.006341	0.001359	0.001359	0.000000	0.000000	**0.014946**
115-125	0.000453	0.003623	0.002264	0.000000	0.000000	0.000000	**0.006341**
125-135	0.000906	0.004076	0.004076	0.000453	0.000000	0.000000	**0.009511**
135-145	0.002264	0.002717	0.004076	0.000000	0.000000	0.000000	**0.009058**
145-155	0.002264	0.004529	0.003170	0.000000	0.000000	0.000000	**0.009964**
155-165	0.002717	0.006793	0.002264	0.000000	0.000000	0.000000	**0.011775**
165-175	0.002717	0.004529	0.004076	0.000000	0.000000	0.000000	**0.011322**
175-185	0.010417	0.012681	0.007699	0.001812	0.000000	0.000000	**0.032609**
185-195	0.006793	0.017210	0.010870	0.001359	0.000000	0.000000	**0.036232**
195-205	0.005435	0.015399	0.014946	0.000906	0.000000	0.000000	**0.036685**
205-215	0.005435	0.018116	0.028986	0.002717	0.000000	0.000000	**0.055254**
215-225	0.004529	0.013587	0.029891	0.000906	0.000000	0.000000	**0.048913**
225-235	0.002717	0.010870	0.022192	0.000453	0.000000	0.000000	**0.036232**
235-245	0.001812	0.007699	0.006793	0.000000	0.000000	0.000000	**0.016304**
245-255	0.004529	0.005888	0.008605	0.000000	0.000000	0.000000	**0.019022**
255-265	0.001812	0.004076	0.004982	0.000000	0.000000	0.000000	**0.010870**
265-275	0.001359	0.001359	0.003623	0.000000	0.000000	0.000000	**0.006341**
275-285	0.004529	0.003170	0.002264	0.000000	0.000000	0.000000	**0.009964**
285-295	0.003170	0.001812	0.000453	0.000000	0.000000	0.000000	**0.005435**
295-305	0.003170	0.003623	0.001812	0.000000	0.000000	0.000000	**0.008605**
305-315	0.003623	0.005435	0.002264	0.000000	0.000000	0.000000	**0.011322**
315-325	0.004982	0.008605	0.005435	0.000000	0.000000	0.000000	**0.019022**
325-335	0.002717	0.008605	0.006341	0.000453	0.000000	0.000000	**0.018116**
335-345	0.005435	0.006341	0.008152	0.000000	0.000000	0.000000	**0.019928**
345-355	0.008152	0.005888	0.006341	0.001359	0.000000	0.000000	**0.021739**
Total	0.206522	0.485507	0.291214	0.016304	0.000000	0.000000	0.999547

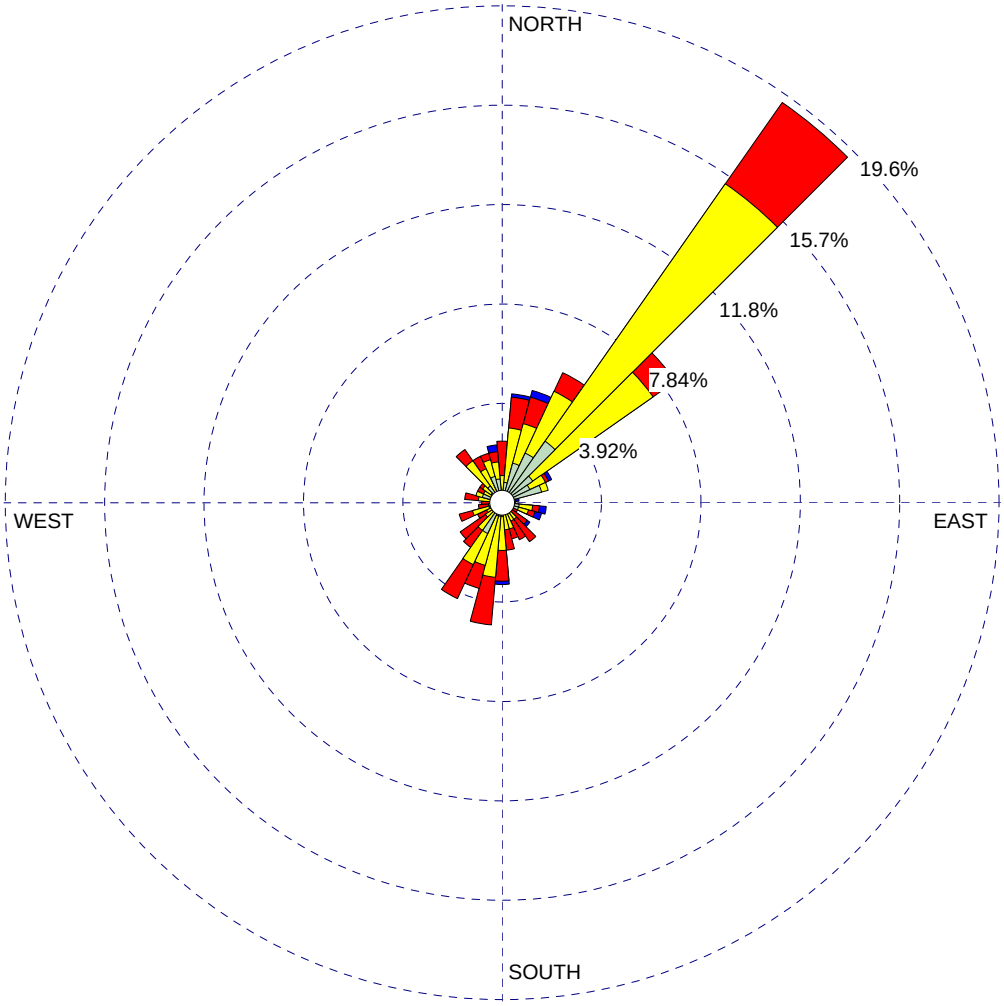
Frequency of Calm Winds: 0.05%
Average Wind Speed: 3.04 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
July 2018

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

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

Calms: 0.00%

COMMENTS:	DATA PERIOD: **Start Date: 7/1/2018 - 00:00** **End Date: 7/31/2018 - 23:00**	COMPANY NAME: **Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **2.99 m/s**	DATE: **10/19/2018**	PROJECT NO.:

Station ID: 1 Run ID:
Start Date: 7/1/2018 - 00:00
End Date: 7/31/2018 - 23:00

Frequency Distribution
(Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	3	5	10	0	0	0	**18**
5-15	6	16	9	1	0	0	**32**
15-25	12	12	8	2	0	0	**34**
25-35	16	20	6	0	0	0	**42**
35-45	22	92	29	0	0	0	**143**
45-55	11	43	8	0	0	0	**62**
55-65	9	5	1	1	0	0	**16**
65-75	12	2	0	0	0	0	**14**
75-85	4	0	0	1	0	0	**5**
85-95	2	1	1	0	0	0	**4**
95-105	5	4	2	2	0	0	**13**
105-115	5	3	2	2	0	0	**12**
115-125	0	1	4	0	0	0	**5**
125-135	1	2	6	1	0	0	**10**
135-145	3	3	8	0	0	0	**14**
145-155	2	4	6	0	0	0	**12**
155-165	1	7	3	0	0	0	**11**
165-175	2	6	6	0	0	0	**14**
175-185	4	10	9	1	0	0	**24**
185-195	4	18	14	0	0	0	**36**
195-205	4	15	7	0	0	0	**26**
205-215	10	10	11	0	0	0	**31**
215-225	2	8	6	0	0	0	**16**
225-235	1	5	9	0	0	0	**15**
235-245	2	3	3	0	0	0	**8**
245-255	4	5	4	0	0	0	**13**
255-265	2	2	3	0	0	0	**7**
265-275	2	1	3	0	0	0	**6**
275-285	3	4	4	0	0	0	**11**
285-295	6	2	0	0	0	0	**8**
295-305	2	4	2	0	0	0	**8**
305-315	4	3	1	0	0	0	**8**
315-325	6	9	4	0	0	0	**19**
325-335	2	9	4	0	0	0	**15**
335-345	8	5	2	0	0	0	**15**
345-355	7	5	3	2	0	0	**17**
Total	189	344	198	13	0	0	744

Frequency of Calm Winds: 0
Average Wind Speed: 2.99 m/s

Station ID: 1 Run ID:
Start Date: 7/1/2018 - 00:00
End Date: 7/31/2018 - 23:00

Frequency Distribution
(Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.004032	0.006720	0.013441	0.000000	0.000000	0.000000	**0.024194**
5-15	0.008065	0.021505	0.012097	0.001344	0.000000	0.000000	**0.043011**
15-25	0.016129	0.016129	0.010753	0.002688	0.000000	0.000000	**0.045699**
25-35	0.021505	0.026882	0.008065	0.000000	0.000000	0.000000	**0.056452**
35-45	0.029570	0.123656	0.038978	0.000000	0.000000	0.000000	**0.192204**
45-55	0.014785	0.057796	0.010753	0.000000	0.000000	0.000000	**0.083333**
55-65	0.012097	0.006720	0.001344	0.001344	0.000000	0.000000	**0.021505**
65-75	0.016129	0.002688	0.000000	0.000000	0.000000	0.000000	**0.018817**
75-85	0.005376	0.000000	0.000000	0.001344	0.000000	0.000000	**0.006720**
85-95	0.002688	0.001344	0.001344	0.000000	0.000000	0.000000	**0.005376**
95-105	0.006720	0.005376	0.002688	0.002688	0.000000	0.000000	**0.017473**
105-115	0.006720	0.004032	0.002688	0.002688	0.000000	0.000000	**0.016129**
115-125	0.000000	0.001344	0.005376	0.000000	0.000000	0.000000	**0.006720**
125-135	0.001344	0.002688	0.008065	0.001344	0.000000	0.000000	**0.013441**
135-145	0.004032	0.004032	0.010753	0.000000	0.000000	0.000000	**0.018817**
145-155	0.002688	0.005376	0.008065	0.000000	0.000000	0.000000	**0.016129**
155-165	0.001344	0.009409	0.004032	0.000000	0.000000	0.000000	**0.014785**
165-175	0.002688	0.008065	0.008065	0.000000	0.000000	0.000000	**0.018817**
175-185	0.005376	0.013441	0.012097	0.001344	0.000000	0.000000	**0.032258**
185-195	0.005376	0.024194	0.018817	0.000000	0.000000	0.000000	**0.048387**
195-205	0.005376	0.020161	0.009409	0.000000	0.000000	0.000000	**0.034946**
205-215	0.013441	0.013441	0.014785	0.000000	0.000000	0.000000	**0.041667**
215-225	0.002688	0.010753	0.008065	0.000000	0.000000	0.000000	**0.021505**
225-235	0.001344	0.006720	0.012097	0.000000	0.000000	0.000000	**0.020161**
235-245	0.002688	0.004032	0.004032	0.000000	0.000000	0.000000	**0.010753**
245-255	0.005376	0.006720	0.005376	0.000000	0.000000	0.000000	**0.017473**
255-265	0.002688	0.002688	0.004032	0.000000	0.000000	0.000000	**0.009409**
265-275	0.002688	0.001344	0.004032	0.000000	0.000000	0.000000	**0.008065**
275-285	0.004032	0.005376	0.005376	0.000000	0.000000	0.000000	**0.014785**
285-295	0.008065	0.002688	0.000000	0.000000	0.000000	0.000000	**0.010753**
295-305	0.002688	0.005376	0.002688	0.000000	0.000000	0.000000	**0.010753**
305-315	0.005376	0.004032	0.001344	0.000000	0.000000	0.000000	**0.010753**
315-325	0.008065	0.012097	0.005376	0.000000	0.000000	0.000000	**0.025538**
325-335	0.002688	0.012097	0.005376	0.000000	0.000000	0.000000	**0.020161**
335-345	0.010753	0.006720	0.002688	0.000000	0.000000	0.000000	**0.020161**
345-355	0.009409	0.006720	0.004032	0.002688	0.000000	0.000000	**0.022849**
Total	0.254032	0.462366	0.266129	0.017473	0.000000	0.000000	1.000000

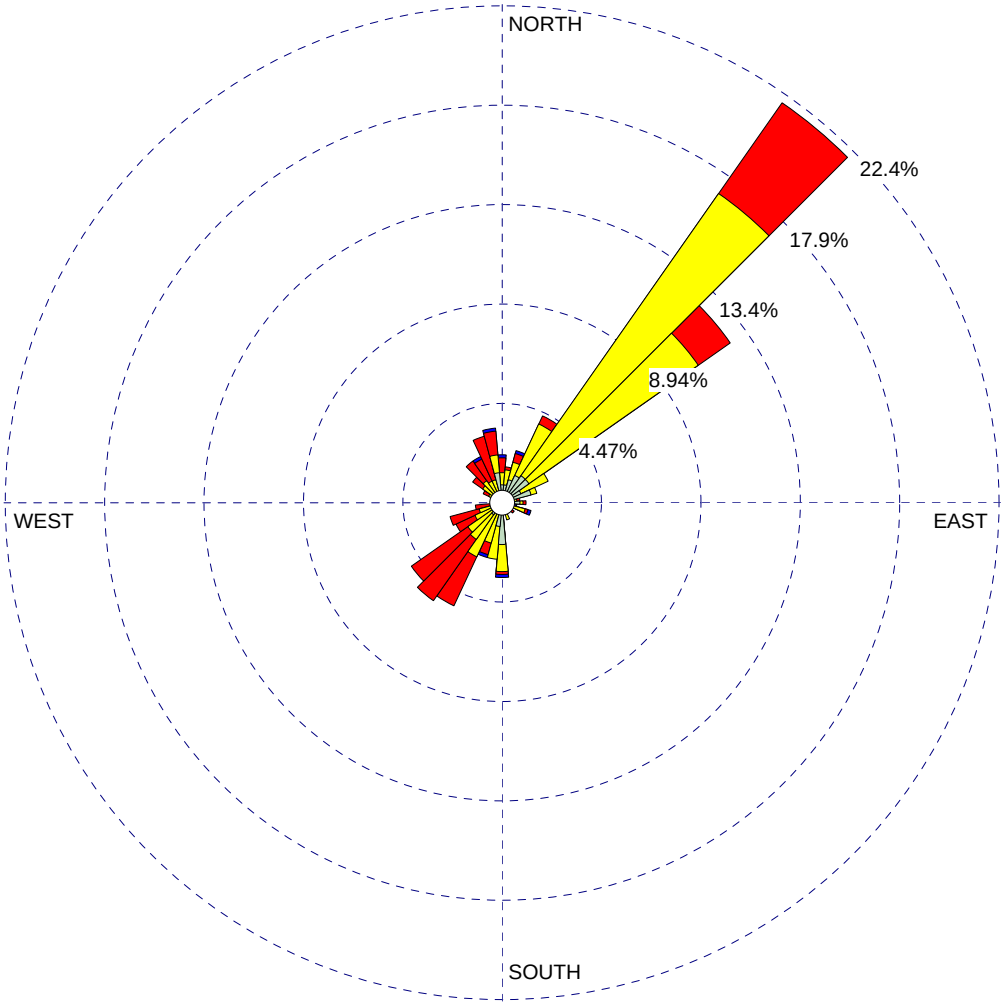
Frequency of Calm Winds: 0.00%
Average Wind Speed: 2.99 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
August 2018

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

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

Calms: 0.00%

COMMENTS:	DATA PERIOD: **Start Date: 8/1/2018 - 00:00** **End Date: 8/31/2018 - 23:00**	COMPANY NAME: **Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.00%**	TOTAL COUNT: **744 hrs.**	
	AVG. WIND SPEED: **3.00 m/s**	DATE: **10/19/2018**	PROJECT NO.:

Station ID: 1 Run ID:
Start Date: 8/1/2018 - 00:00
End Date: 8/31/2018 - 23:00

Frequency Distribution
(Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	6	4	5	1	0	0	**16**
5-15	6	5	1	0	0	0	**12**
15-25	8	6	3	1	0	0	**18**
25-35	10	19	3	0	0	0	**32**
35-45	11	115	37	0	0	0	**163**
45-55	11	69	13	0	0	0	**93**
55-65	7	10	0	0	0	0	**17**
65-75	10	2	0	0	0	0	**12**
75-85	4	1	1	0	0	0	**6**
85-95	6	1	1	0	0	0	**8**
95-105	1	2	1	1	0	0	**5**
105-115	4	4	1	1	0	0	**10**
115-125	1	1	1	0	0	0	**3**
125-135	1	2	2	0	0	0	**5**
135-145	0	0	0	0	0	0	**0**
145-155	1	2	0	0	0	0	**3**
155-165	1	5	0	0	0	0	**6**
165-175	3	0	1	0	0	0	**4**
175-185	14	9	1	1	0	0	**25**
185-195	8	11	0	0	0	0	**19**
195-205	3	11	4	1	0	0	**19**
205-215	1	19	18	0	0	0	**38**
215-225	5	10	25	0	0	0	**40**
225-235	3	11	23	0	0	0	**37**
235-245	2	8	7	0	0	0	**17**
245-255	4	4	10	0	0	0	**18**
255-265	0	4	5	0	0	0	**9**
265-275	1	1	2	0	0	0	**4**
275-285	1	1	1	0	0	0	**3**
285-295	0	1	0	0	0	0	**1**
295-305	3	2	2	0	0	0	**7**
305-315	2	6	4	0	0	0	**12**
315-325	3	6	8	0	0	0	**17**
325-335	2	6	8	1	0	0	**17**
335-345	3	5	15	0	0	0	**23**
345-355	10	6	8	1	0	0	**25**
Total	156	369	211	8	0	0	744

Frequency of Calm Winds: 0
Average Wind Speed: 3.00 m/s

Station ID: 1 Run ID:
Start Date: 8/1/2018 - 00:00
End Date: 8/31/2018 - 23:00

Frequency Distribution
(Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.008065	0.005376	0.006720	0.001344	0.000000	0.000000	**0.021505**
5-15	0.008065	0.006720	0.001344	0.000000	0.000000	0.000000	**0.016129**
15-25	0.010753	0.008065	0.004032	0.001344	0.000000	0.000000	**0.024194**
25-35	0.013441	0.025538	0.004032	0.000000	0.000000	0.000000	**0.043011**
35-45	0.014785	0.154570	0.049731	0.000000	0.000000	0.000000	**0.219086**
45-55	0.014785	0.092742	0.017473	0.000000	0.000000	0.000000	**0.125000**
55-65	0.009409	0.013441	0.000000	0.000000	0.000000	0.000000	**0.022849**
65-75	0.013441	0.002688	0.000000	0.000000	0.000000	0.000000	**0.016129**
75-85	0.005376	0.001344	0.001344	0.000000	0.000000	0.000000	**0.008065**
85-95	0.008065	0.001344	0.001344	0.000000	0.000000	0.000000	**0.010753**
95-105	0.001344	0.002688	0.001344	0.001344	0.000000	0.000000	**0.006720**
105-115	0.005376	0.005376	0.001344	0.001344	0.000000	0.000000	**0.013441**
115-125	0.001344	0.001344	0.001344	0.000000	0.000000	0.000000	**0.004032**
125-135	0.001344	0.002688	0.002688	0.000000	0.000000	0.000000	**0.006720**
135-145	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	**0.000000**
145-155	0.001344	0.002688	0.000000	0.000000	0.000000	0.000000	**0.004032**
155-165	0.001344	0.006720	0.000000	0.000000	0.000000	0.000000	**0.008065**
165-175	0.004032	0.000000	0.001344	0.000000	0.000000	0.000000	**0.005376**
175-185	0.018817	0.012097	0.001344	0.001344	0.000000	0.000000	**0.033602**
185-195	0.010753	0.014785	0.000000	0.000000	0.000000	0.000000	**0.025538**
195-205	0.004032	0.014785	0.005376	0.001344	0.000000	0.000000	**0.025538**
205-215	0.001344	0.025538	0.024194	0.000000	0.000000	0.000000	**0.051075**
215-225	0.006720	0.013441	0.033602	0.000000	0.000000	0.000000	**0.053763**
225-235	0.004032	0.014785	0.030914	0.000000	0.000000	0.000000	**0.049731**
235-245	0.002688	0.010753	0.009409	0.000000	0.000000	0.000000	**0.022849**
245-255	0.005376	0.005376	0.013441	0.000000	0.000000	0.000000	**0.024194**
255-265	0.000000	0.005376	0.006720	0.000000	0.000000	0.000000	**0.012097**
265-275	0.001344	0.001344	0.002688	0.000000	0.000000	0.000000	**0.005376**
275-285	0.001344	0.001344	0.001344	0.000000	0.000000	0.000000	**0.004032**
285-295	0.000000	0.001344	0.000000	0.000000	0.000000	0.000000	**0.001344**
295-305	0.004032	0.002688	0.002688	0.000000	0.000000	0.000000	**0.009409**
305-315	0.002688	0.008065	0.005376	0.000000	0.000000	0.000000	**0.016129**
315-325	0.004032	0.008065	0.010753	0.000000	0.000000	0.000000	**0.022849**
325-335	0.002688	0.008065	0.010753	0.001344	0.000000	0.000000	**0.022849**
335-345	0.004032	0.006720	0.020161	0.000000	0.000000	0.000000	**0.030914**
345-355	0.013441	0.008065	0.010753	0.001344	0.000000	0.000000	**0.033602**
Total	0.209677	0.495968	0.283602	0.010753	0.000000	0.000000	1.000000

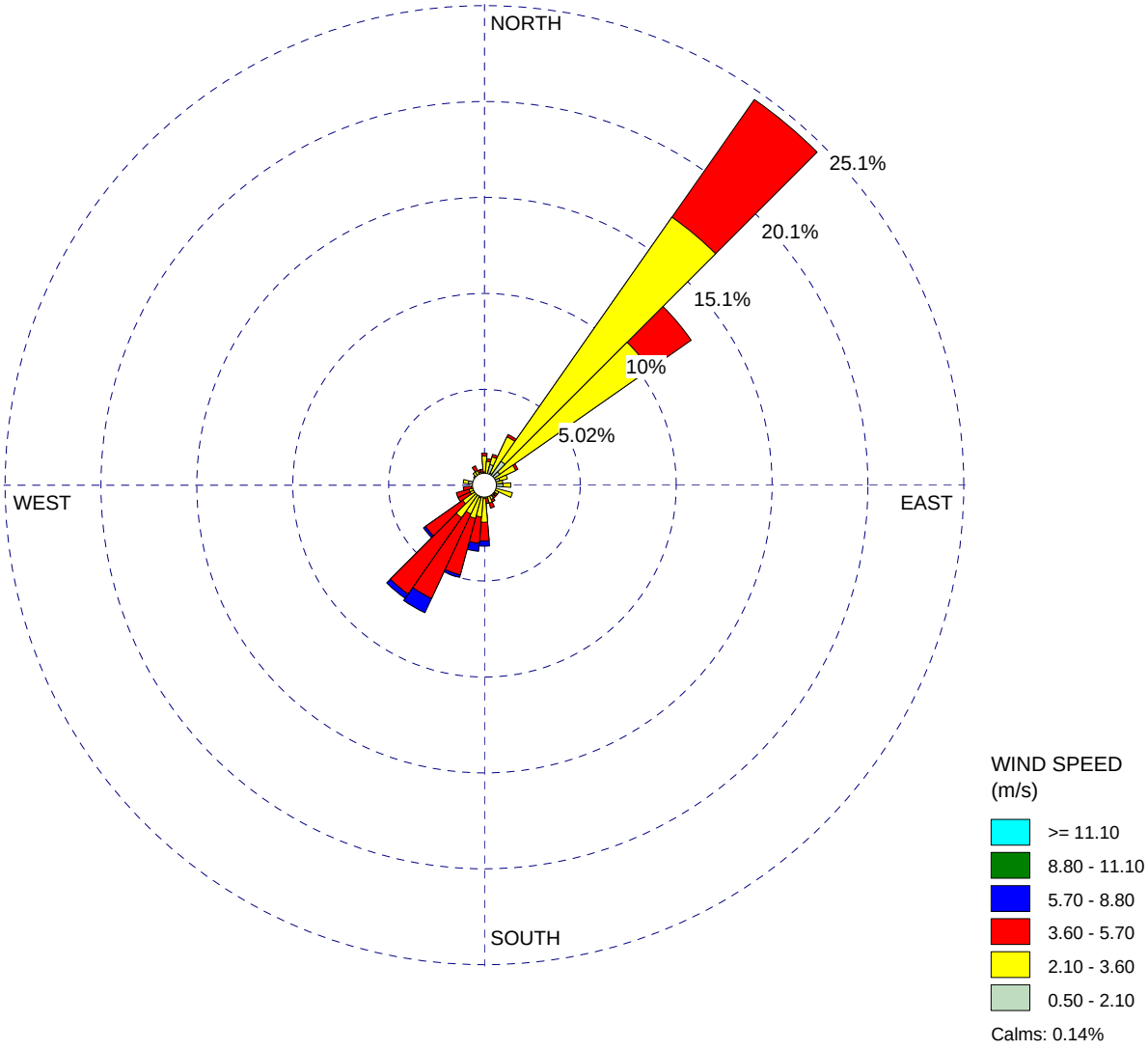
Frequency of Calm Winds: 0.00%
Average Wind Speed: 3.00 m/s

WIND ROSE PLOT:

Alton Coal Development, LLC , Alton, Utah
September 2018

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:	DATA PERIOD: **Start Date: 9/1/2018 - 00:00** **End Date: 9/30/2018 - 23:00**	COMPANY NAME: **Alton Coal Development, LLC - Coal Hollow Mine**	
		MODELER: **B. Kirk Nicholes**	
	CALM WINDS: **0.14%**	TOTAL COUNT: **720 hrs.**	
	AVG. WIND SPEED: **3.12 m/s**	DATE: **10/19/2018**	PROJECT NO.:

Station ID: 1 Run ID:
Start Date: 9/1/2018 - 00:00
End Date: 9/30/2018 - 23:00

Frequency Distribution
(Count)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	5	6	1	0	0	0	**12**
5-15	4	5	1	0	0	0	**10**
15-25	8	3	1	0	0	0	**12**
25-35	5	15	1	0	0	0	**21**
35-45	11	112	54	0	0	0	**177**
45-55	7	69	19	0	0	0	**95**
55-65	3	10	1	0	0	0	**14**
65-75	6	3	0	0	0	0	**9**
75-85	2	5	0	0	0	0	**7**
85-95	7	3	0	0	0	0	**10**
95-105	0	3	0	0	0	0	**3**
105-115	4	7	0	0	0	0	**11**
115-125	0	6	0	0	0	0	**6**
125-135	0	5	1	0	0	0	**6**
135-145	2	3	1	0	0	0	**6**
145-155	2	4	1	0	0	0	**7**
155-165	4	3	2	0	0	0	**9**
165-175	1	4	2	0	0	0	**7**
175-185	5	9	7	2	0	0	**23**
185-195	3	9	10	3	0	0	**25**
195-205	5	8	22	1	0	0	**36**
205-215	1	11	35	6	0	0	**53**
215-225	3	12	35	2	0	0	**52**
225-235	2	8	17	1	0	0	**28**
235-245	0	6	5	0	0	0	**11**
245-255	2	4	5	0	0	0	**11**
255-265	2	3	3	0	0	0	**8**
265-275	0	1	3	0	0	0	**4**
275-285	6	2	0	0	0	0	**8**
285-295	1	1	1	0	0	0	**3**
295-305	2	2	0	0	0	0	**4**
305-315	2	3	0	0	0	0	**5**
315-325	2	4	0	0	0	0	**6**
325-335	2	4	2	0	0	0	**8**
335-345	1	4	1	0	0	0	**6**
345-355	1	2	3	0	0	0	**6**
Total	111	359	234	15	0	0	720

Frequency of Calm Winds: 1
Average Wind Speed: 3.12 m/s

Station ID: 1 Run ID:
Start Date: 9/1/2018 - 00:00
End Date: 9/30/2018 - 23:00

Frequency Distribution
(Normalized)

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

	0.50 - 2.10	2.10 - 3.60	3.60 - 5.70	5.70 - 8.80	8.80 - 11.10	>= 11.10	Total
355-5	0.006944	0.008333	0.001389	0.000000	0.000000	0.000000	**0.016667**
5-15	0.005556	0.006944	0.001389	0.000000	0.000000	0.000000	**0.013889**
15-25	0.011111	0.004167	0.001389	0.000000	0.000000	0.000000	**0.016667**
25-35	0.006944	0.020833	0.001389	0.000000	0.000000	0.000000	**0.029167**
35-45	0.015278	0.155556	0.075000	0.000000	0.000000	0.000000	**0.245833**
45-55	0.009722	0.095833	0.026389	0.000000	0.000000	0.000000	**0.131944**
55-65	0.004167	0.013889	0.001389	0.000000	0.000000	0.000000	**0.019444**
65-75	0.008333	0.004167	0.000000	0.000000	0.000000	0.000000	**0.012500**
75-85	0.002778	0.006944	0.000000	0.000000	0.000000	0.000000	**0.009722**
85-95	0.009722	0.004167	0.000000	0.000000	0.000000	0.000000	**0.013889**
95-105	0.000000	0.004167	0.000000	0.000000	0.000000	0.000000	**0.004167**
105-115	0.005556	0.009722	0.000000	0.000000	0.000000	0.000000	**0.015278**
115-125	0.000000	0.008333	0.000000	0.000000	0.000000	0.000000	**0.008333**
125-135	0.000000	0.006944	0.001389	0.000000	0.000000	0.000000	**0.008333**
135-145	0.002778	0.004167	0.001389	0.000000	0.000000	0.000000	**0.008333**
145-155	0.002778	0.005556	0.001389	0.000000	0.000000	0.000000	**0.009722**
155-165	0.005556	0.004167	0.002778	0.000000	0.000000	0.000000	**0.012500**
165-175	0.001389	0.005556	0.002778	0.000000	0.000000	0.000000	**0.009722**
175-185	0.006944	0.012500	0.009722	0.002778	0.000000	0.000000	**0.031944**
185-195	0.004167	0.012500	0.013889	0.004167	0.000000	0.000000	**0.034722**
195-205	0.006944	0.011111	0.030556	0.001389	0.000000	0.000000	**0.050000**
205-215	0.001389	0.015278	0.048611	0.008333	0.000000	0.000000	**0.073611**
215-225	0.004167	0.016667	0.048611	0.002778	0.000000	0.000000	**0.072222**
225-235	0.002778	0.011111	0.023611	0.001389	0.000000	0.000000	**0.038889**
235-245	0.000000	0.008333	0.006944	0.000000	0.000000	0.000000	**0.015278**
245-255	0.002778	0.005556	0.006944	0.000000	0.000000	0.000000	**0.015278**
255-265	0.002778	0.004167	0.004167	0.000000	0.000000	0.000000	**0.011111**
265-275	0.000000	0.001389	0.004167	0.000000	0.000000	0.000000	**0.005556**
275-285	0.008333	0.002778	0.000000	0.000000	0.000000	0.000000	**0.011111**
285-295	0.001389	0.001389	0.001389	0.000000	0.000000	0.000000	**0.004167**
295-305	0.002778	0.002778	0.000000	0.000000	0.000000	0.000000	**0.005556**
305-315	0.002778	0.004167	0.000000	0.000000	0.000000	0.000000	**0.006944**
315-325	0.002778	0.005556	0.000000	0.000000	0.000000	0.000000	**0.008333**
325-335	0.002778	0.005556	0.002778	0.000000	0.000000	0.000000	**0.011111**
335-345	0.001389	0.005556	0.001389	0.000000	0.000000	0.000000	**0.008333**
345-355	0.001389	0.002778	0.004167	0.000000	0.000000	0.000000	**0.008333**
Total	0.154167	0.498611	0.325000	0.020833	0.000000	0.000000	0.998611

Frequency of Calm Winds: 0.14%
Average Wind Speed: 3.12 m/s

APPENDIX B

Listing of PM_{10} Concentrations

Background Monitor 962A

PM_{10} Sampler Summary

July 1, 2018 - September 30, 2018

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

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
07/01/18	P2948704	6.5	8.4	24:00	24.0	18.8	391.0540	391.2123	0.1583	TD	
07/07/18	P2948709	6.5	8.3	23:59	24.0	18.8	388.9360	389.0932	0.1572		
07/13/18	P2948715	5.1	6.4	23:59	24.0	19.0	392.5680	392.6913	0.1233	TD	
07/19/18	P2948948	10.2	12.9	23:59	24.0	19.0	410.6231	410.8690	0.2459		
07/25/18	P2948953	5.0	6.4	23:59	24.0	18.9	393.5954	393.7177	0.1223		
07/31/18	P2949155	18.1	23.1	23:59	24.0	18.8	392.9473	393.3828	0.4355		
08/06/18	P2949160	13.8	17.6	23:59	24.0	18.9	393.2147	393.5481	0.3334		
08/12/18	P2949399	11.1	14.1	23:59	24.0	19.0	391.5743	391.8417	0.2674	TD	
08/18/18	P2949404	0.9	1.1	23:59	24.0	18.9	391.7598	391.7817	0.0219		
08/24/18	P2949409	8.0	10.1	23:59	24.0	19.1	390.3189	390.5126	0.1937	TD,HT	
08/30/18	P2949630	6.0	7.5	23:59	24.0	19.1	401.3590	401.5038	0.1448	HT	
09/05/18	P2949635	5.2	6.5	23:59	24.0	19.3	395.2832	395.4103	0.1271		
09/11/18	P2949882	7.7	9.7	23:59	24.0	19.0	391.5992	391.7851	0.1859		
09/17/18	P2950114	10.7	13.5	23:59	24.0	19.0	390.4620	390.7201	0.2581		
09/23/18	P2949888	11.8	14.9	23:59	24.0	19.2	394.3169	394.6023	0.2854		
09/29/18	P2950113	18.2	23.0	23:59	24.0	19.1	394.9721	395.4119	0.4398		
07/16/18	P2948947		Field Blank				411.5897	411.6081	0.0184		

# Valid	Recovery	Average	St. Dev.	Max	Min
16	100%	11.5	6.1	23.1	1.1

BGI PQ200 Air Sampling System

Downloaded 2018 03 jul 09:38:14

Job Details:

Job Name:	18Jul03A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:596:12
Flags:	F

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

	Max	Min	Avg	Units
BP	588	585	586	mmHg
TA	30.9	10.1	20.6	°C
Q	---	---	16.71	Lpm

QCV	0.56 %
Max overheat	7.5 °C
occured	02-jul 19:58:21

Timer Information:

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

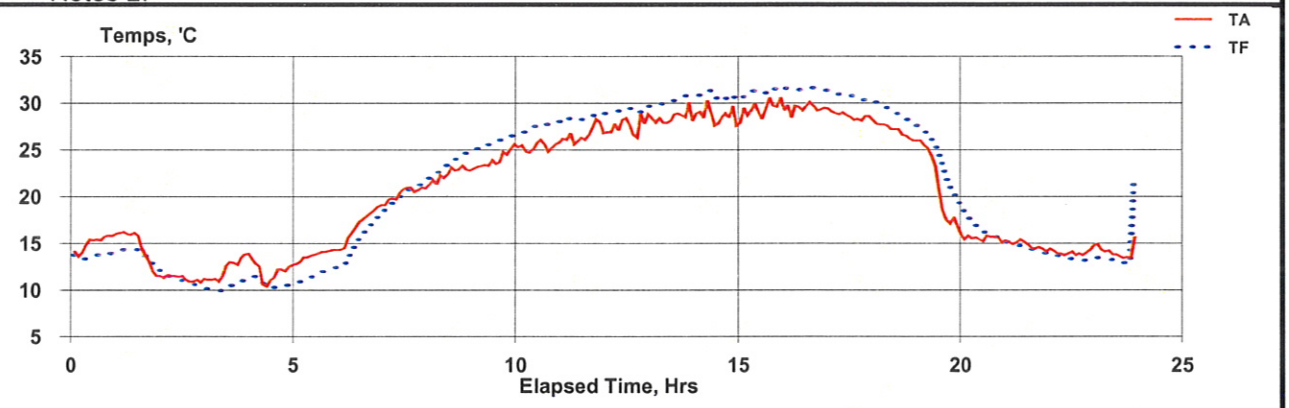
ET: 24:00:00

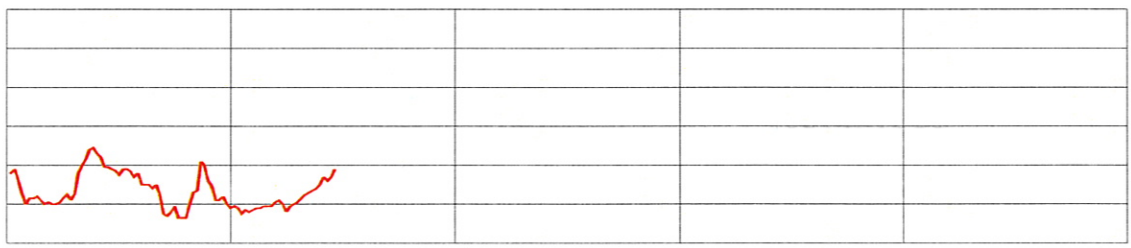
Mass Concentration Data:

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

Notes 1:

Notes 2:





18-01-jul	0:05:16	586	15.1	13.6	-1.5	27	16.71
18-01-jul	1:05:16	586	14.4	13.7	-0.7	28	16.72
18-01-jul	2:05:16	586	11.2	10.9	-0.3	28	16.71
18-01-jul	3:05:16	586	12.3	10.4	-2.0	28	16.71
18-01-jul	4:05:16	587	12.0	10.7	-1.3	28	16.71
18-01-jul	5:05:16	587	13.8	11.6	-2.2	28	16.71
18-01-jul	6:05:16	587	17.1	15.4	-1.7	28	16.72
18-01-jul	7:05:16	588	20.4	20.2	-0.2	29	16.71
18-01-jul	8:05:16	588	22.4	23.4	1.0	30	16.71
18-01-jul	9:05:16	588	23.9	25.7	1.8	31	16.71
18-01-jul	10:05:16	588	25.4	27.4	2.1	31	16.71
18-01-jul	11:05:16	588	26.7	28.5	1.8	31	16.72
18-01-jul	12:05:16	587	27.6	29.2	1.6	31	16.71
18-01-jul	13:05:16	587	28.5	30.2	1.7	32	16.71
18-01-jul	14:05:16	587	28.7	30.8	2.1	32	16.71
18-01-jul	15:05:16	586	29.4	31.1	1.7	32	16.71
18-01-jul	16:05:16	586	29.5	31.5	2.0	32	16.71
18-01-jul	17:05:16	586	28.7	30.8	2.1	32	16.71
18-01-jul	18:05:16	586	27.2	29.1	1.9	32	16.71
18-01-jul	19:05:16	586	21.6	24.4	2.8	32	16.71
18-01-jul	20:05:16	587	15.6	16.7	1.2	31	16.71
18-01-jul	21:05:16	587	14.8	14.6	-0.3	31	16.71
18-01-jul	22:05:16	587	14.0	13.4	-0.6	30	16.72
18-01-jul	23:05:16	587	14.0	13.1	-0.8	30	16.71
18-02-jul	20:21:17	585	15.6	22.0	6.4		0.00

BGI PQ200 Air Sampling System Downloaded 2018_09 jul_09:16:11

Job Details:

Job Name:	18Jul09A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:620:11
Flags:	

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

	Max	Min	Avg	Units
BP	592	588	589	mmHg
TA	32.9	14.1	22.8	°C
Q	---	---	16.71	Lpm

QCV	0.57 %
Max overheat	7.6 °C
occured	08-jul 14:48:35

Timer Information:

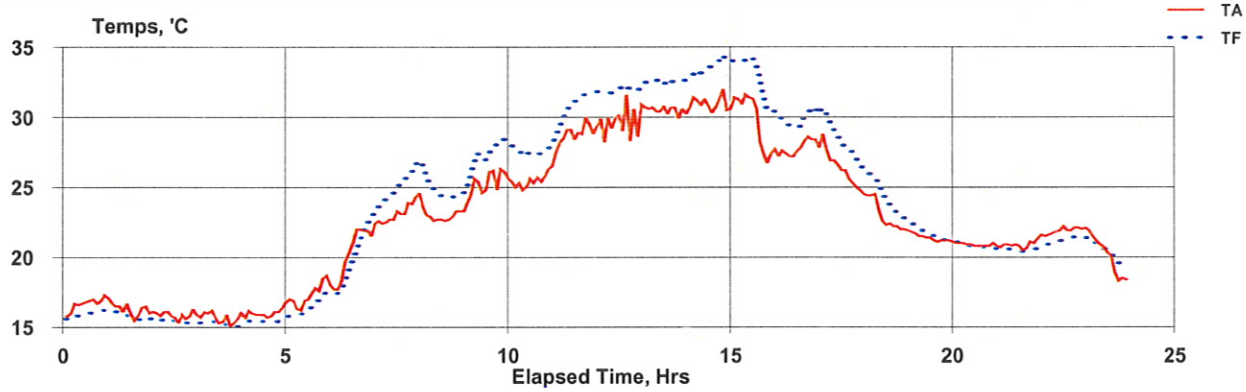
	Date dd-mmm	Time hh:mm:ss
Start:	18-07-jul	0:00:08
Stop:	18-08-jul	0:00:04
ET:	23:59	

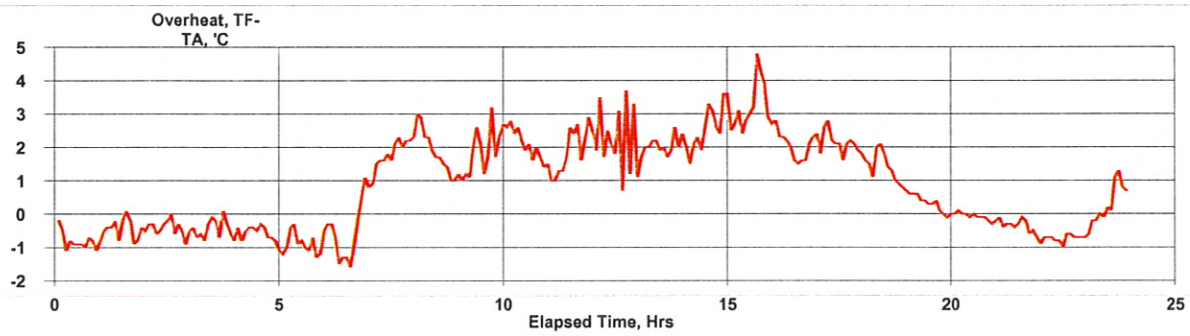
Mass Concentration Data:

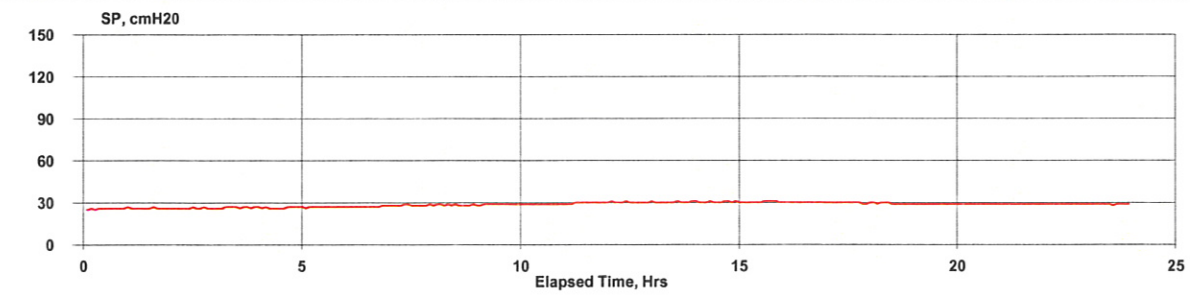
Filter ID:	28	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-07-jul	0:05:08	590	16.7	15.9	-0.8	26	16.71
18-07-jul	1:05:08	590	16.2	15.8	-0.4	26	16.71
18-07-jul	2:05:08	590	15.9	15.4	-0.4	26	16.71
18-07-jul	3:05:08	590	15.7	15.2	-0.5	27	16.71
18-07-jul	4:05:08	590	16.0	15.5	-0.6	27	16.71
18-07-jul	5:05:08	591	17.4	16.5	-0.9	27	16.71
18-07-jul	6:05:08	591	20.5	20.1	-0.5	27	16.71
18-07-jul	7:05:08	591	23.3	25.1	1.8	28	16.72
18-07-jul	8:05:08	591	23.0	24.8	1.8	28	16.71
18-07-jul	9:05:08	591	25.3	27.2	1.9	29	16.71
18-07-jul	10:05:08	591	25.5	27.6	2.1	29	16.71
18-07-jul	11:05:08	590	28.8	30.8	1.9	30	16.70
18-07-jul	12:05:08	590	29.7	31.9	2.2	30	16.72
18-07-jul	13:05:08	589	30.5	32.5	2.0	30	16.71
18-07-jul	14:05:08	589	31.0	33.6	2.6	30	16.71
18-07-jul	15:05:08	588	29.7	32.9	3.2	30	16.74
18-07-jul	16:05:08	588	27.8	29.9	2.1	30	16.72
18-07-jul	17:05:08	588	26.2	28.3	2.1	30	16.72
18-07-jul	18:05:08	589	22.9	24.2	1.4	29	16.71
18-07-jul	19:05:08	590	21.4	21.7	0.3	29	16.71
18-07-jul	20:05:08	590	20.9	20.8	-0.1	29	16.71
18-07-jul	21:05:08	590	20.9	20.5	-0.4	29	16.71
18-07-jul	22:05:08	589	21.9	21.2	-0.7	29	16.72
18-07-jul	23:05:08	589	20.1	20.3	0.3	29	16.71

BGI PQ200 Air Sampling System Downloaded 2018 16 jul 13:46:38

Job Details:

Job Name: 18Jul16A.JOB
Version: 5.62
Serial No: 962
Pump Time: :644:10
Flags: F

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

	Max	Min	Avg	Units
BP	590	587	588	mmHg
TA	28.6	10.5	18.3	°C
Q	---	---	16.71	Lpm

QCV 0.51 %
Max overheat 11.3 °C
occured 16-jul 13:12:11

Timer Information:

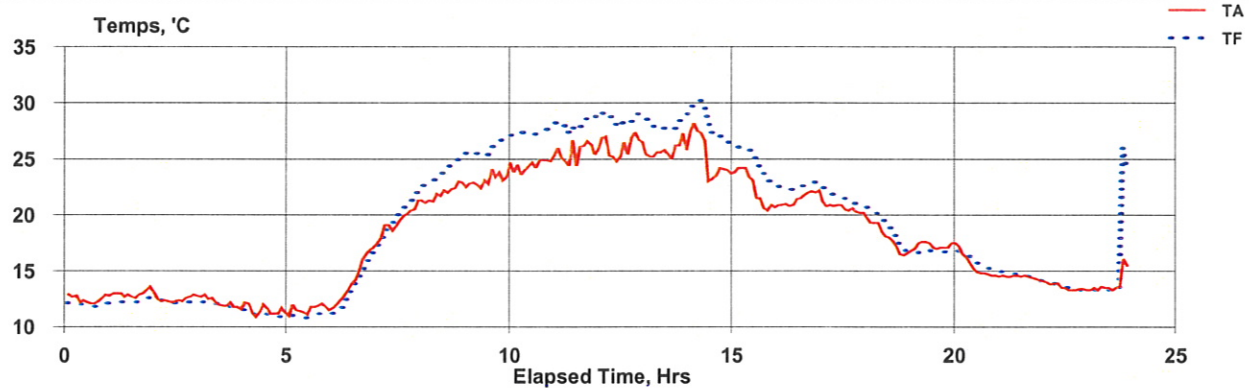
	Date dd-mmm	Time hh:mm:ss
Start:	18-13-jul	0:00:08
Stop:	18-14-jul	0:00:05

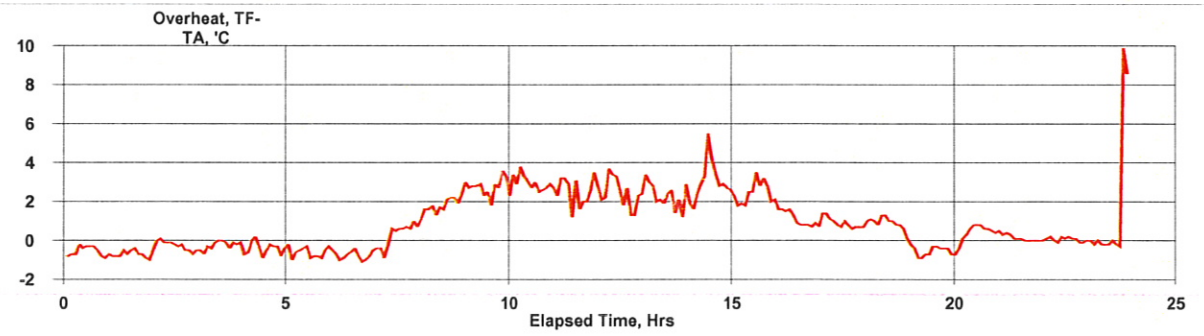
ET: 23:59

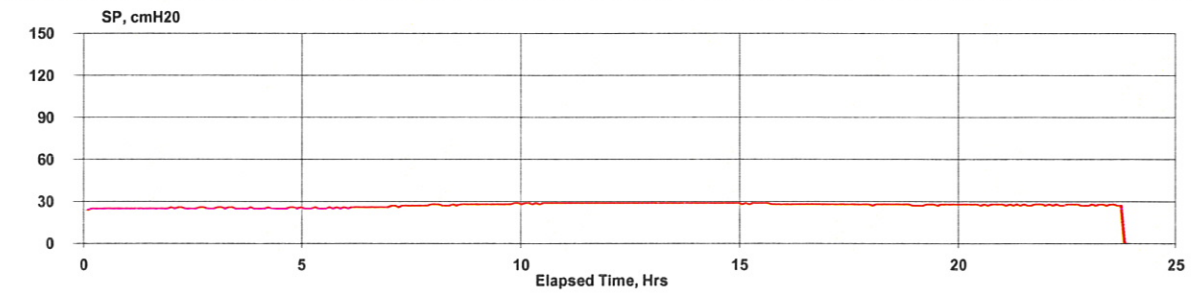
Mass Concentration Data:

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

Notes 1:
Notes 2:







18-13-jul	0:05:08	589	12.5	12.0	-0.5	25	16.69
18-13-jul	1:05:08	588	13.0	12.3	-0.7	25	16.71
18-13-jul	2:05:08	588	12.5	12.2	-0.3	25	16.71
18-13-jul	3:05:08	588	12.2	11.9	-0.2	25	16.71
18-13-jul	4:05:08	588	11.5	11.1	-0.4	25	16.71
18-13-jul	5:05:08	589	11.6	11.0	-0.6	25	16.69
18-13-jul	6:05:08	589	14.3	13.6	-0.8	26	16.71
18-13-jul	7:05:08	589	19.4	19.7	0.3	27	16.72
18-13-jul	8:05:08	589	21.9	23.7	1.8	28	16.71
18-13-jul	9:05:08	589	23.1	25.9	2.8	28	16.70
18-13-jul	10:05:08	590	24.5	27.4	2.9	29	16.71
18-13-jul	11:05:08	589	25.6	28.1	2.5	29	16.71
18-13-jul	12:05:08	589	26.1	28.6	2.5	29	16.71
18-13-jul	13:05:08	589	25.8	28.1	2.3	29	16.71
18-13-jul	14:05:08	588	25.4	28.4	3.0	29	16.71
18-13-jul	15:05:08	588	22.6	25.1	2.5	29	16.71
18-13-jul	16:05:08	588	21.3	22.6	1.2	28	16.71
18-13-jul	17:05:08	588	20.8	21.7	0.9	28	16.72
18-13-jul	18:05:08	589	18.4	19.3	0.9	28	16.70
18-13-jul	19:05:08	589	17.2	16.7	-0.5	28	16.72
18-13-jul	20:05:08	589	15.8	16.1	0.3	28	16.71
18-13-jul	21:05:08	589	14.5	14.7	0.2	28	16.71
18-13-jul	22:05:08	589	13.7	13.8	0.1	28	16.71
18-13-jul	23:05:08	589	13.4	13.3	-0.1	27	16.72
18-14-jul	13:12:09	589	15.8	25.1	9.3		0.00

BGI PQ200 Air Sampling System Downloaded 2018 20 jul 09:51:59

Job Details:

Job Name:	18Jul20A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:668:09
Flags:	

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

	Max	Min	Avg	Units
BP	591	587	588	mmHg
TA	30.3	11.6	18.9	°C
Q	---	---	16.71	Lpm

QCV	0.55 %
Max overheat	4.6 °C
occured	19-jul 12:34:18

Timer Information:

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

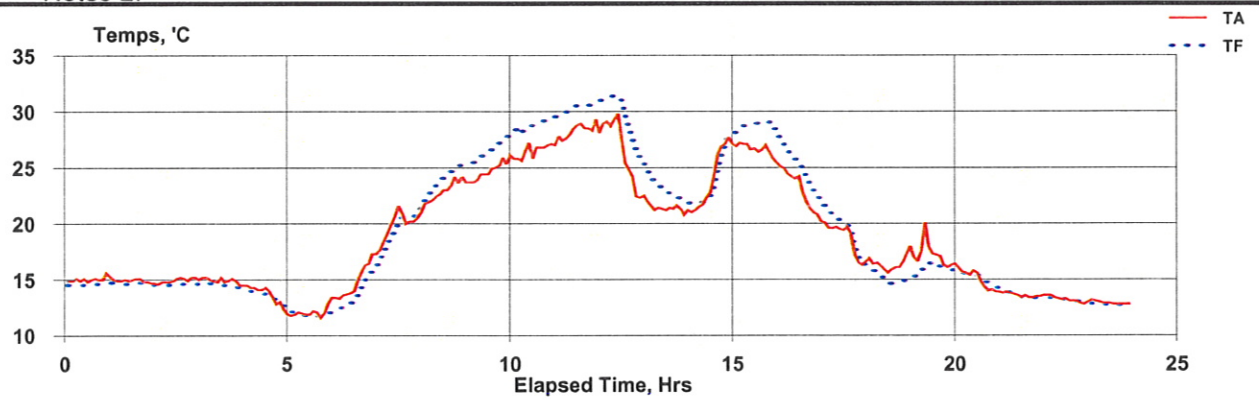
ET: 23:59

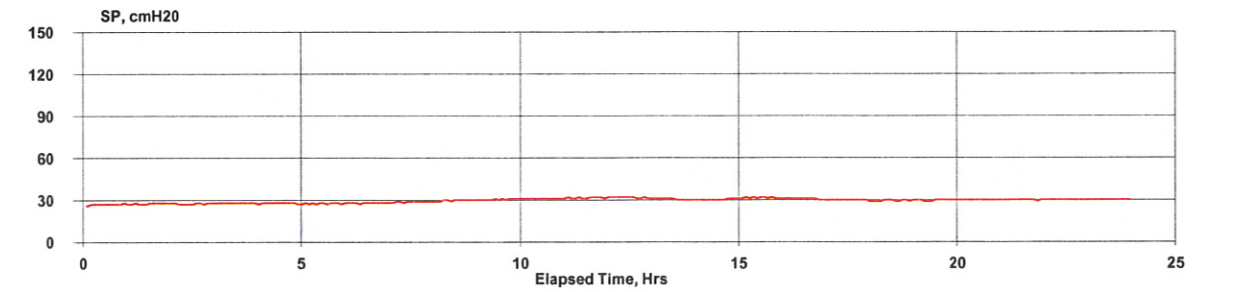
Mass Concentration Data:

Filter ID:	5	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:





18-19-jul	0:05:08	589	15.1	14.6	-0.5	27	16.71
18-19-jul	1:05:08	588	14.9	14.6	-0.3	28	16.70
18-19-jul	2:05:08	588	15.0	14.6	-0.4	28	16.71
18-19-jul	3:05:08	588	14.9	14.5	-0.4	28	16.71
18-19-jul	4:05:08	588	13.6	13.5	-0.1	28	16.71
18-19-jul	5:05:08	588	12.2	11.9	-0.3	28	16.71
18-19-jul	6:05:08	589	15.0	13.8	-1.2	28	16.70
18-19-jul	7:05:08	589	20.0	19.5	-0.5	29	16.71
18-19-jul	8:05:08	589	23.0	24.0	1.0	30	16.72
18-19-jul	9:05:08	589	24.7	26.5	1.8	31	16.71
18-19-jul	10:05:08	589	26.5	28.8	2.3	31	16.72
18-19-jul	11:05:08	589	28.3	30.3	2.0	32	16.69
18-19-jul	12:05:08	589	26.2	29.3	3.1	32	16.71
18-19-jul	13:05:08	588	21.4	23.0	1.6	31	16.70
18-19-jul	14:05:08	588	24.1	23.9	-0.2	30	16.71
18-19-jul	15:05:08	587	26.6	28.7	2.1	31	16.72
18-19-jul	16:05:08	588	22.9	24.9	2.0	31	16.71
18-19-jul	17:05:08	588	18.6	19.3	0.7	30	16.72
18-19-jul	18:05:08	589	16.5	15.1	-1.3	30	16.71
18-19-jul	19:05:08	589	17.2	15.9	-1.2	30	16.71
18-19-jul	20:05:08	590	15.0	15.1	0.1	30	16.72
18-19-jul	21:05:08	590	13.6	13.6	0.0	30	16.71
18-19-jul	22:05:08	589	13.2	13.1	-0.1	30	16.71
18-19-jul	23:05:08	589	12.9	12.7	-0.2	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 26 jul 10:29:13

Job Details:

Job Name:	18Jul26A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:692:08
Flags:	

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

	Max	Min	Avg	Units
BP	591	589	589	mmHg
TA	30.9	12.8	21.3	°C
Q	---	---	16.71	Lpm

QCV	0.59 %
Max overheat	5.4 °C
occured	25-jul 17:25:29

Timer Information:

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

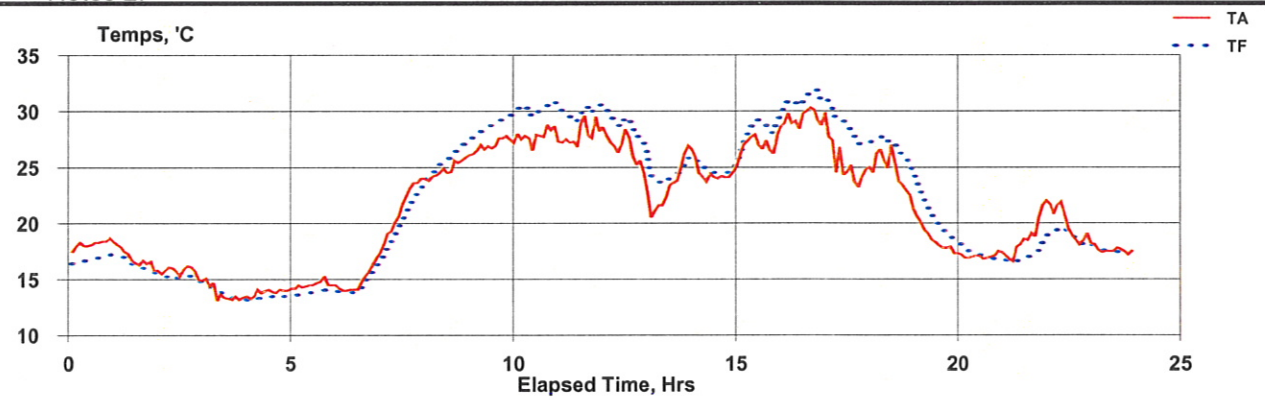
ET: 23:59

Mass Concentration Data:

Filter ID:	11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.044	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:



18-25-jul	0:05:08	590	18.2	16.8	-1.4	29	16.70
18-25-jul	1:05:08	590	16.8	16.3	-0.5	29	16.71
18-25-jul	2:05:08	590	15.7	15.2	-0.5	29	16.71
18-25-jul	3:05:08	590	13.7	13.8	0.1	29	16.71
18-25-jul	4:05:08	590	13.9	13.3	-0.6	29	16.71
18-25-jul	5:05:08	590	14.6	13.8	-0.7	29	16.71
18-25-jul	6:05:08	590	15.1	14.6	-0.5	29	16.71
18-25-jul	7:05:08	591	21.6	20.4	-1.3	30	16.72
18-25-jul	8:05:08	591	25.0	25.7	0.8	31	16.71
18-25-jul	9:05:08	591	27.0	28.8	1.7	32	16.71
18-25-jul	10:05:08	591	27.8	30.2	2.4	33	16.71
18-25-jul	11:05:08	590	28.0	29.9	1.9	33	16.71
18-25-jul	12:05:08	590	26.3	28.6	2.3	33	16.72
18-25-jul	13:05:08	590	23.5	24.4	0.8	32	16.71
18-25-jul	14:05:08	590	24.4	24.9	0.5	32	16.71
18-25-jul	15:05:08	589	27.2	28.3	1.1	33	16.71
18-25-jul	16:05:08	589	29.4	31.1	1.6	33	16.72
18-25-jul	17:05:08	589	25.1	28.6	3.5	33	16.72
18-25-jul	18:05:08	589	24.5	26.7	2.2	33	16.71
18-25-jul	19:05:08	589	18.5	20.5	2.0	32	16.70
18-25-jul	20:05:08	590	17.1	17.2	0.1	32	16.71
18-25-jul	21:05:08	590	18.8	17.1	-1.7	31	16.72
18-25-jul	22:05:08	590	19.8	18.9	-0.9	32	16.72
18-25-jul	23:05:08	589	17.6	17.5	-0.1	32	16.72

BGI PQ200 Air Sampling System Downloaded 2018 01 aug 12:56:18

Job Details:

Job Name:	18Aug01A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:716:07
Flags:	

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

	Max	Min	Avg	Units
BP	589	587	588	mmHg
TA	31.5	9.6	21.3	°C
Q	---	---	16.71	Lpm

QCV	0.61 %
Max overheat	3.2 °C
occured	31-jul 12:59:22

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-31-jul	0:00:08
Stop:	18-01-aug	0:00:04

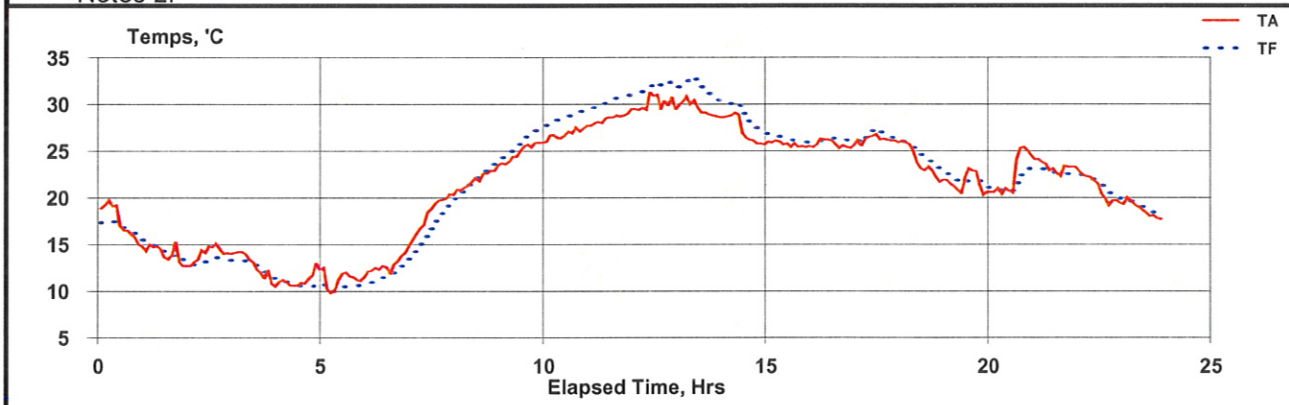
ET: 23:59

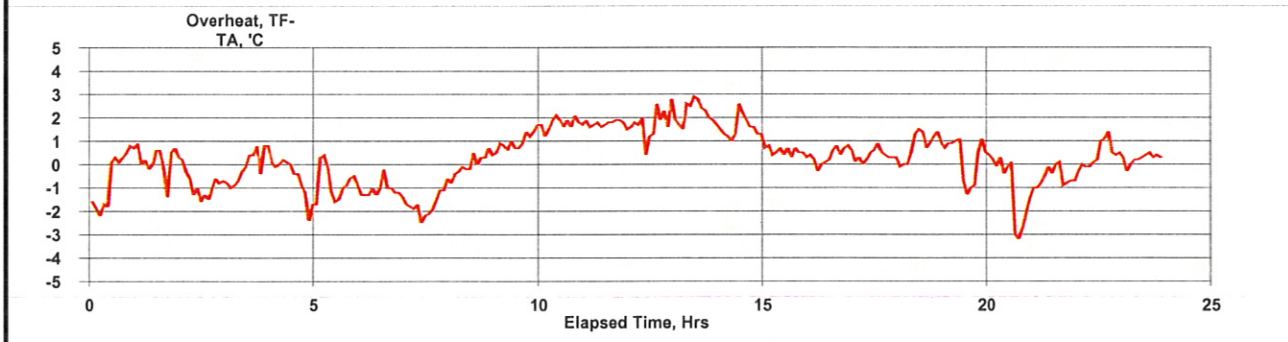
Mass Concentration Data:

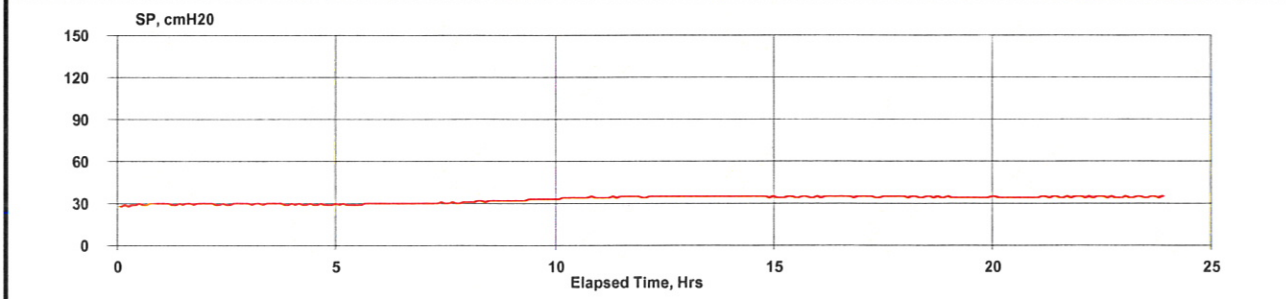
Filter ID:	22	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-31-jul	0:05:08	589	17.3	16.8	-0.5	29	16.71
18-31-jul	1:05:08	589	14.0	14.2	0.2	30	16.72
18-31-jul	2:05:08	589	14.1	13.2	-0.9	30	16.72
18-31-jul	3:05:08	588	12.7	12.6	-0.1	30	16.71
18-31-jul	4:05:08	589	11.3	10.7	-0.6	29	16.69
18-31-jul	5:05:08	589	11.2	10.4	-0.8	30	16.73
18-31-jul	6:05:08	589	12.9	11.8	-1.1	30	16.71
18-31-jul	7:05:08	589	18.5	16.8	-1.7	30	16.70
18-31-jul	8:05:08	589	22.0	22.0	0.0	32	16.70
18-31-jul	9:05:08	589	24.9	25.9	1.0	33	16.72
18-31-jul	10:05:08	589	26.9	28.6	1.8	34	16.71
18-31-jul	11:05:08	589	28.5	30.3	1.8	35	16.71
18-31-jul	12:05:08	589	30.1	31.8	1.8	35	16.72
18-31-jul	13:05:08	588	29.5	31.7	2.2	35	16.71
18-31-jul	14:05:08	588	27.3	28.8	1.6	35	16.71
18-31-jul	15:05:08	588	25.7	26.3	0.5	34	16.72
18-31-jul	16:05:08	588	25.7	26.1	0.4	35	16.72
18-31-jul	17:05:08	588	26.2	26.6	0.4	35	16.71
18-31-jul	18:05:08	588	23.7	24.5	0.8	35	16.72
18-31-jul	19:05:08	588	21.6	21.8	0.2	34	16.72
18-31-jul	20:05:08	588	22.4	21.4	-1.0	34	16.72
18-31-jul	21:05:08	588	23.3	22.8	-0.6	35	16.72
18-31-jul	22:05:08	588	20.9	21.3	0.4	35	16.72
18-31-jul	23:05:08	588	18.7	18.9	0.2	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 07 aug 10:41:29

Job Details:

Job Name: 18Aug07A.JOB
Version: 5.62
Serial No: 962
Pump Time: :740:06
Flags:

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

	Max	Min	Avg	Units
BP	588	585	587	mmHg
TA	31.5	10.2	20.5	°C
Q	---	---	16.71	Lpm

QCV 0.57 %
Max overheat 3.5 °C
occured 06-aug 19:17:02

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-06-aug	0:00:08
Stop:	18-07-aug	0:00:05

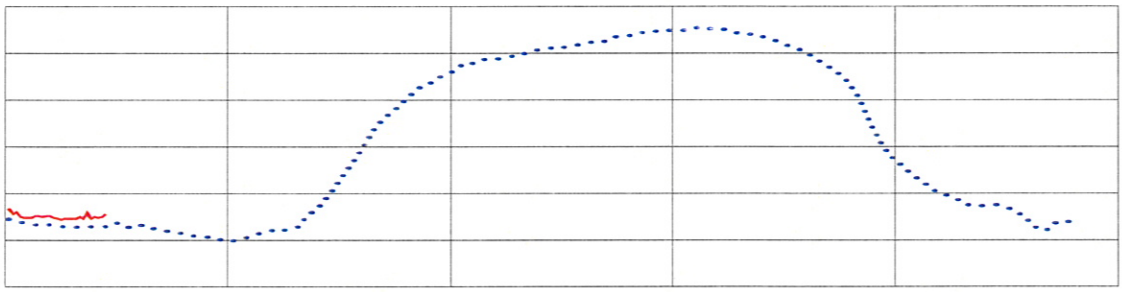
ET: 23:59

Mass Concentration Data:

Filter ID: 27
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.044 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-06-aug	0:05:08	587	12.6	11.8	-0.8	30	16.71
18-06-aug	1:05:08	587	12.4	11.4	-1.0	30	16.71
18-06-aug	2:05:08	587	12.6	11.5	-1.1	31	16.70
18-06-aug	3:05:08	587	11.9	11.1	-0.8	31	16.71
18-06-aug	4:05:08	587	10.9	10.2	-0.7	31	16.72
18-06-aug	5:05:08	587	11.7	10.4	-1.3	31	16.72
18-06-aug	6:05:08	587	12.7	11.8	-1.0	31	16.72
18-06-aug	7:05:08	588	18.0	16.5	-1.5	32	16.72
18-06-aug	8:05:08	588	23.5	22.9	-0.6	33	16.72
18-06-aug	9:05:08	588	25.7	26.8	1.1	35	16.70
18-06-aug	10:05:08	588	27.1	28.9	1.8	36	16.71
18-06-aug	11:05:08	588	28.3	29.9	1.6	36	16.71
18-06-aug	12:05:08	588	29.2	30.7	1.5	37	16.71
18-06-aug	13:05:08	587	30.0	31.5	1.5	37	16.71
18-06-aug	14:05:08	587	30.4	32.2	1.8	37	16.71
18-06-aug	15:05:08	587	30.6	32.5	1.9	37	16.71
18-06-aug	16:05:08	587	30.0	32.1	2.0	37	16.71
18-06-aug	17:05:08	587	29.0	30.9	1.9	37	16.71
18-06-aug	18:05:08	587	26.9	28.3	1.5	37	16.71
18-06-aug	19:05:08	587	19.7	21.9	2.2	36	16.72
18-06-aug	20:05:08	587	16.1	16.5	0.4	36	16.71
18-06-aug	21:05:08	587	14.5	14.1	-0.4	35	16.71
18-06-aug	22:05:08	587	13.7	13.2	-0.6	35	16.71
18-06-aug	23:05:08	587	12.4	11.5	-0.9	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 15 aug 09:16:03

Job Details:

Job Name: 18Aug15A.JOB
Version: 5.62
Serial No: 962
Pump Time: :764:05
Flags: F

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

	Max	Min	Avg	Units
BP	589	586	587	mmHg
TA	29.6	8.7	18.8	°C
Q	---	---	16.71	Lpm

QCV 0.58 %
Max overheat 7.3 °C
occured 14-aug 13:34:20

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-12-aug	0:00:08
Stop:	18-13-aug	0:00:04

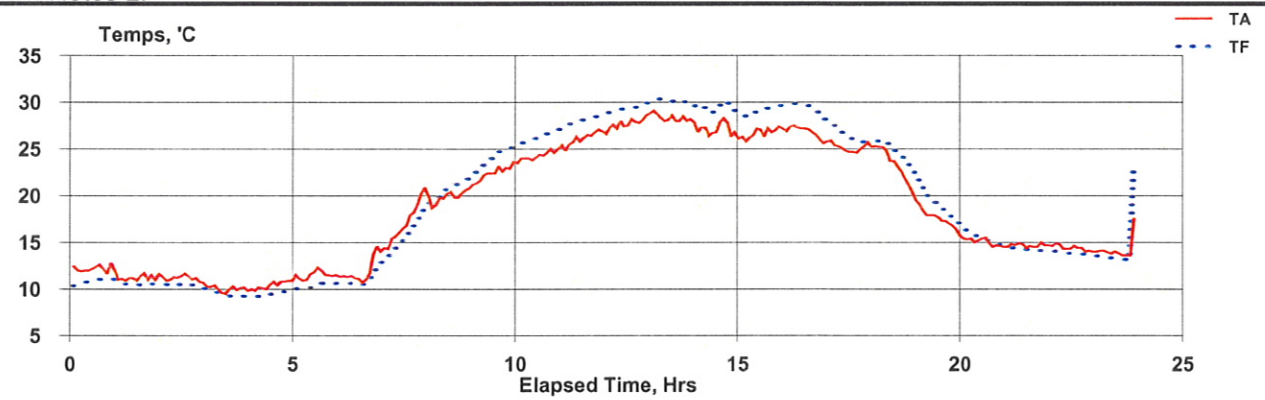
ET: 23:59

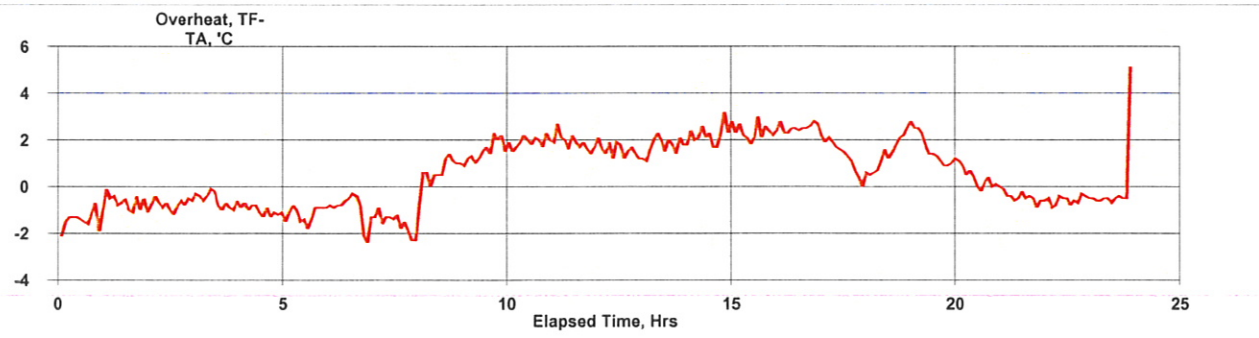
Mass Concentration Data:

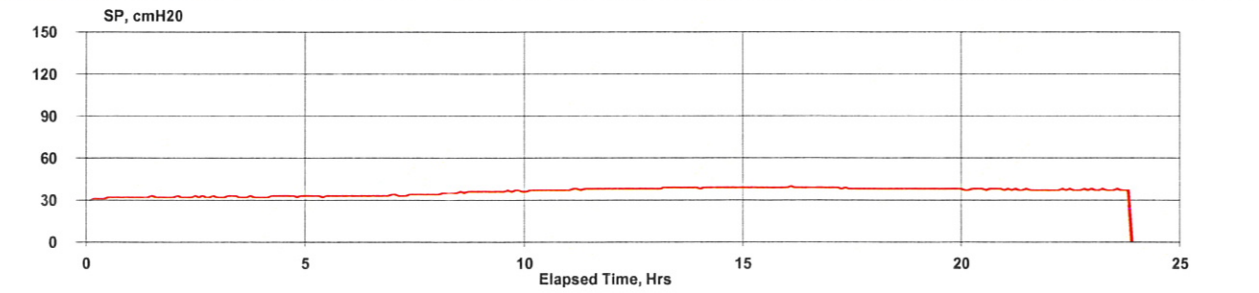
Filter ID: 10
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.044 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-12-aug	0:05:08	588	12.2	10.8	-1.4	32	16.71
18-12-aug	1:05:08	587	11.2	10.5	-0.7	32	16.72
18-12-aug	2:05:08	587	11.2	10.4	-0.7	32	16.72
18-12-aug	3:05:08	587	10.0	9.4	-0.6	32	16.72
18-12-aug	4:05:08	587	10.4	9.4	-1.0	33	16.71
18-12-aug	5:05:08	587	11.5	10.3	-1.2	33	16.72
18-12-aug	6:05:08	588	12.0	11.0	-1.0	33	16.71
18-12-aug	7:05:08	588	17.1	15.5	-1.6	34	16.72
18-12-aug	8:05:08	588	19.9	20.6	0.6	35	16.72
18-12-aug	9:05:08	588	22.4	23.9	1.5	36	16.71
18-12-aug	10:05:08	588	24.3	26.2	1.9	37	16.71
18-12-aug	11:05:08	588	26.1	28.0	1.9	38	16.71
18-12-aug	12:05:08	588	27.7	29.3	1.6	38	16.71
18-12-aug	13:05:08	587	28.4	30.1	1.7	39	16.71
18-12-aug	14:05:08	587	27.2	29.4	2.2	39	16.71
18-12-aug	15:05:08	587	26.7	29.0	2.4	39	16.70
18-12-aug	16:05:08	586	26.9	29.4	2.5	39	16.71
18-12-aug	17:05:08	586	25.2	26.6	1.4	38	16.72
18-12-aug	18:05:08	586	23.5	24.9	1.4	38	16.71
18-12-aug	19:05:08	586	17.8	19.4	1.7	38	16.70
18-12-aug	20:05:08	587	15.1	15.6	0.4	38	16.72
18-12-aug	21:05:08	587	14.7	14.2	-0.4	37	16.72
18-12-aug	22:05:08	587	14.5	13.9	-0.6	37	16.71
18-12-aug	23:05:08	587	13.9	13.3	-0.5	37	16.71
18-13-aug	19:39:08	586	17.5	22.6	5.1		0.00

BGI PQ200 Air Sampling System Downloaded 2018 20 aug 10:50:53

Job Details:

Job Name:	18Aug20A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:788:04
Flags:	

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

	Max	Min	Avg	Units
BP	590	587	588	mmHg
TA	30	11.8	20.8	°C
Q	---	---	16.71	Lpm

QCV	0.55 %
Max overheat	6.5 °C
occured	19-aug 19:25:08

Timer Information:

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

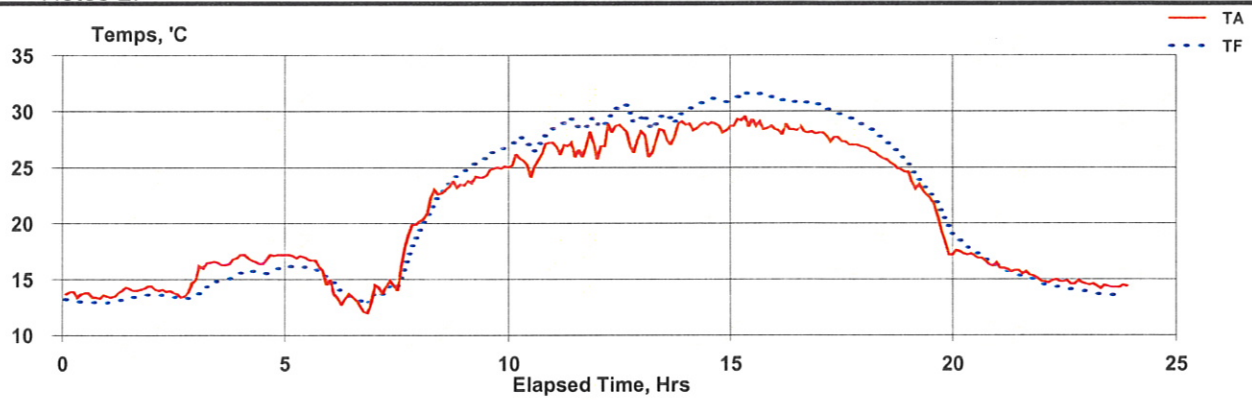
ET: 23:59

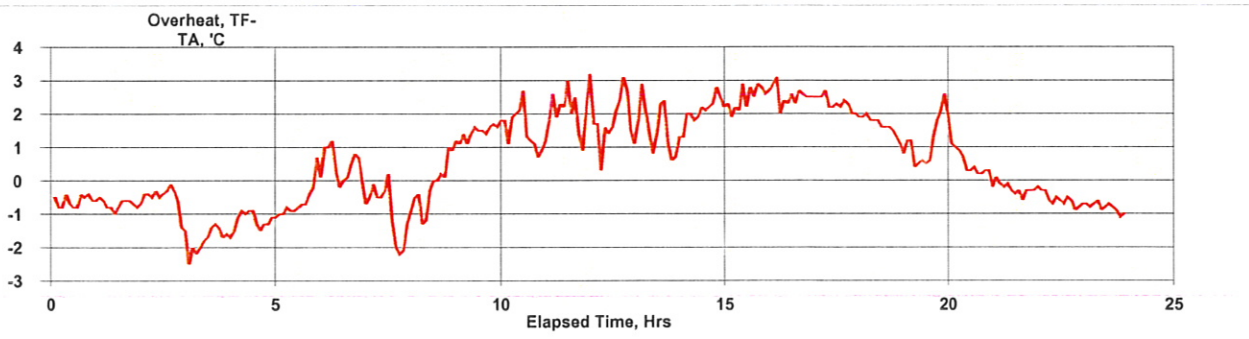
Mass Concentration Data:

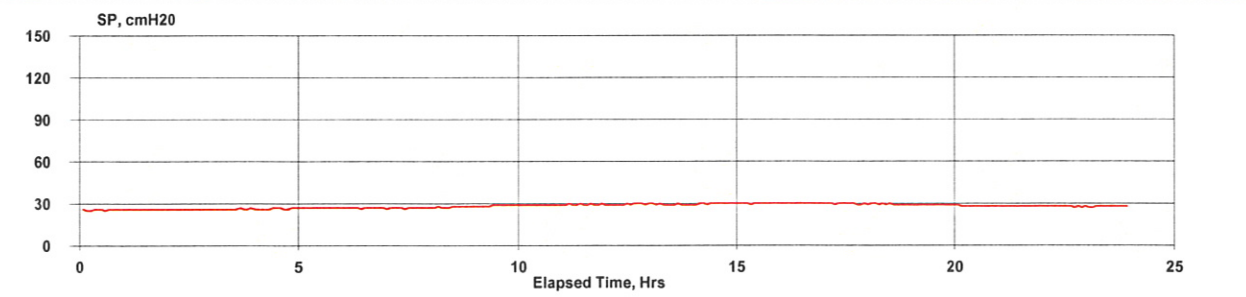
Filter ID:	21	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







18-18-aug	0:05:08	589	13.6	13.0	-0.6	26	16.72
18-18-aug	1:05:08	589	14.0	13.3	-0.7	26	16.72
18-18-aug	2:05:08	589	14.0	13.5	-0.6	26	16.71
18-18-aug	3:05:08	589	16.5	14.7	-1.8	26	16.72
18-18-aug	4:05:08	589	16.9	15.8	-1.2	27	16.71
18-18-aug	5:05:08	589	16.4	15.9	-0.6	27	16.71
18-18-aug	6:05:08	590	13.1	13.5	0.4	27	16.71
18-18-aug	7:05:08	590	16.6	15.6	-1.0	27	16.71
18-18-aug	8:05:08	590	22.7	22.7	0.0	28	16.71
18-18-aug	9:05:08	590	24.5	26.0	1.5	29	16.71
18-18-aug	10:05:08	590	25.9	27.4	1.5	29	16.72
18-18-aug	11:05:08	589	26.7	28.9	2.2	29	16.73
18-18-aug	12:05:08	589	27.8	29.6	1.8	29	16.71
18-18-aug	13:05:08	589	27.8	29.3	1.6	29	16.71
18-18-aug	14:05:08	588	28.7	30.8	2.1	30	16.71
18-18-aug	15:05:08	588	28.9	31.4	2.5	30	16.70
18-18-aug	16:05:08	588	28.3	30.8	2.5	30	16.71
18-18-aug	17:05:08	587	27.3	29.6	2.3	30	16.71
18-18-aug	18:05:08	587	25.5	27.1	1.6	29	16.71
18-18-aug	19:05:08	587	21.0	22.2	1.2	29	16.71
18-18-aug	20:05:08	588	17.0	17.4	0.5	28	16.72
18-18-aug	21:05:08	588	15.6	15.3	-0.2	28	16.71
18-18-aug	22:05:08	588	14.8	14.2	-0.6	28	16.71
18-18-aug	23:05:08	588	14.4	13.6	-0.8	28	16.72

BGI PQ200 Air Sampling System Downloaded 2018 28 aug 12:34:12

Job Details:

Job Name:	18Aug28A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:812:03
Flags:	F

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

	Max	Min	Avg	Units
BP	588	585	586	mmHg
TA	24.9	9.9	16.5	°C
Q	---	---	16.71	Lpm

QCV	0.56 %
Max overheat	7.1 °C
occured	27-aug 19:12:20

Timer Information:

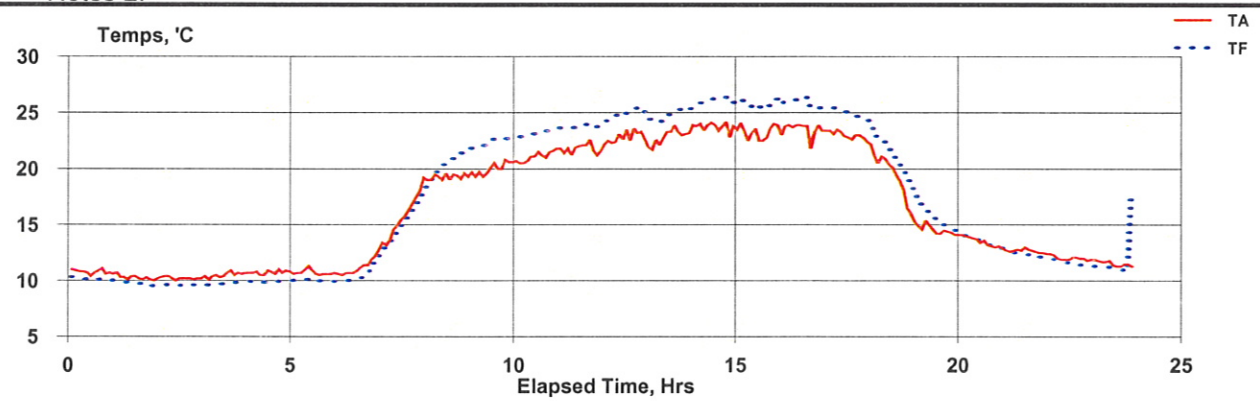
	Date dd-mmm	Time hh:mm:ss
Start:	18-24-aug	0:00:08
Stop:	18-25-aug	0:00:04
ET:	23:59	

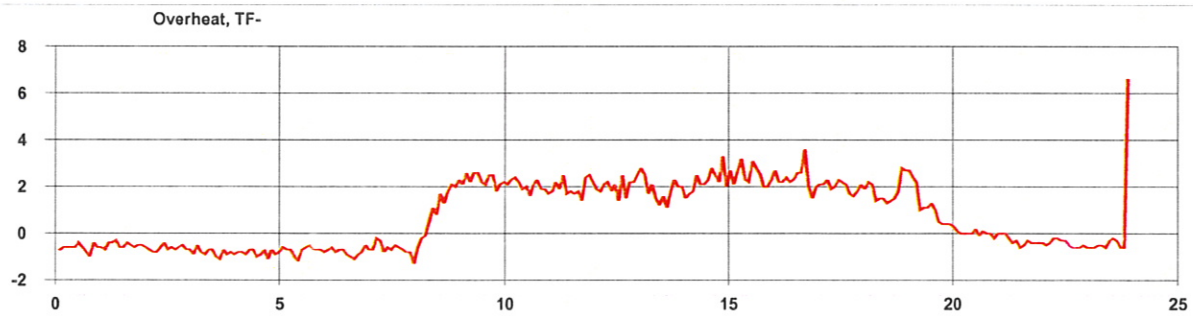
Mass Concentration Data:

Filter ID:	32	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.042	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:





18-24-aug	0:05:08	587	10.8	10.1	-0.6	25	16.71
18-24-aug	1:05:08	587	10.3	9.7	-0.5	25	16.71
18-24-aug	2:05:08	586	10.2	9.6	-0.6	25	16.73
18-24-aug	3:05:08	586	10.5	9.7	-0.8	25	16.73
18-24-aug	4:05:08	586	10.7	9.9	-0.8	26	16.72
18-24-aug	5:05:08	586	10.7	10.0	-0.7	26	16.71
18-24-aug	6:05:08	587	11.3	10.5	-0.8	26	16.71
18-24-aug	7:05:08	587	15.8	15.1	-0.7	26	16.71
18-24-aug	8:05:08	587	19.3	20.3	1.1	27	16.71
18-24-aug	9:05:08	587	20.0	22.3	2.3	28	16.71
18-24-aug	10:05:08	587	21.1	23.1	2.0	28	16.71
18-24-aug	11:05:08	587	21.8	23.8	2.0	28	16.71
18-24-aug	12:05:08	587	22.8	24.8	2.0	29	16.71
18-24-aug	13:05:08	587	22.8	24.7	1.9	29	16.72
18-24-aug	14:05:08	586	23.8	26.0	2.2	29	16.70
18-24-aug	15:05:08	585	23.3	25.8	2.5	29	16.71
18-24-aug	16:05:08	585	23.5	25.9	2.4	29	16.71
18-24-aug	17:05:08	585	23.0	25.0	2.0	29	16.72
18-24-aug	18:05:08	585	19.6	21.5	1.8	29	16.71
18-24-aug	19:05:08	585	14.6	15.8	1.2	28	16.72
18-24-aug	20:05:08	586	13.6	13.6	0.0	28	16.72
18-24-aug	21:05:08	586	12.7	12.4	-0.3	28	16.72
18-24-aug	22:05:08	586	12.1	11.6	-0.4	28	16.71
18-24-aug	23:05:08	586	11.6	11.1	-0.5	27	16.71
18-27-aug	19:32:08	584	11.3	17.9	6.6		0.00

BGI PQ200 Air Sampling System Downloaded 2018 31 aug 07:35:29

Job Details:

Job Name:	18Aug31A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:836:02
Flags:	

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

	Max	Min	Avg	Units
BP	588	586	586	mmHg
TA	26.9	7.5	16.4	°C
Q	---	---	16.71	Lpm

QCV	0.56 %
Max overheat	3.5 °C
occured	30-aug 19:06:42

Timer Information:

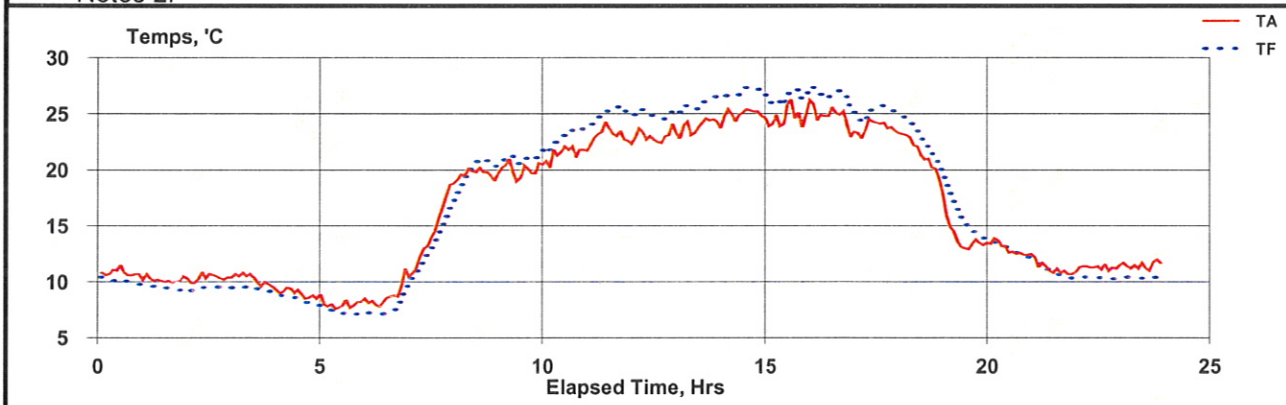
	Date dd-mmm	Time hh:mm:ss
Start:	18-30-aug	0:00:08
Stop:	18-31-aug	0:00:05
ET:	23:59	

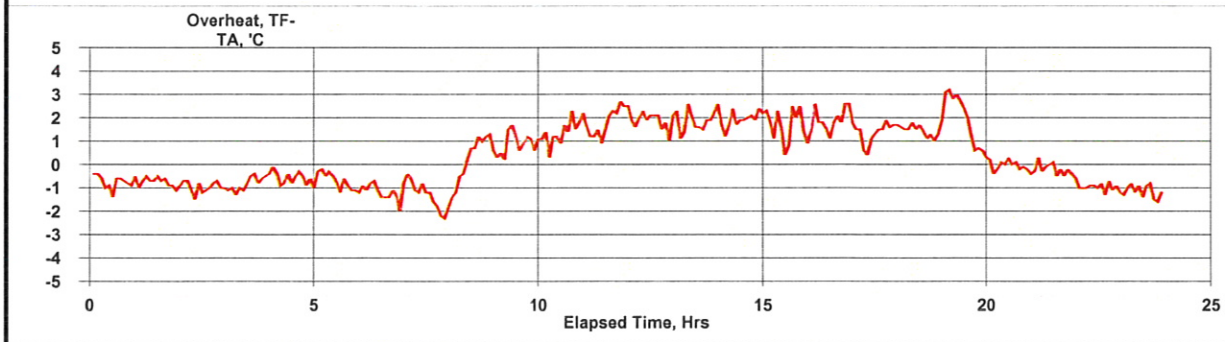
Mass Concentration Data:

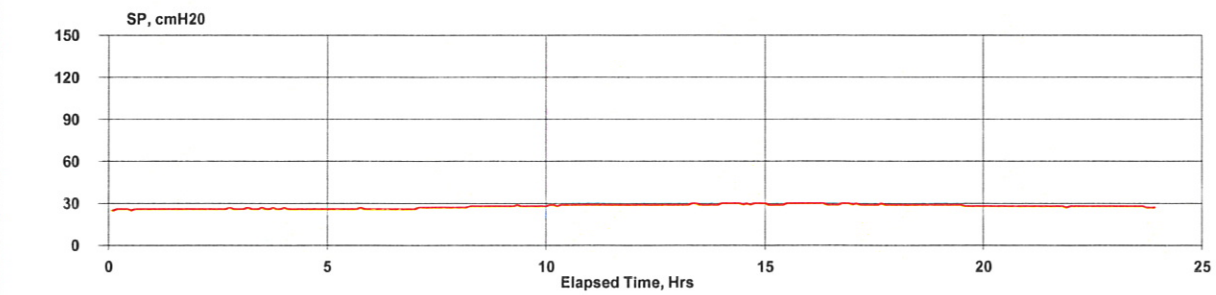
Filter ID:	4	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.043	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-30-aug	0:05:08	587	10.8	10.0	-0.7	26	16.71
18-30-aug	1:05:08	587	10.2	9.4	-0.8	26	16.71
18-30-aug	2:05:08	587	10.4	9.4	-1.0	26	16.71
18-30-aug	3:05:08	587	10.2	9.4	-0.8	26	16.72
18-30-aug	4:05:08	587	9.0	8.4	-0.6	26	16.73
18-30-aug	5:05:08	587	8.0	7.3	-0.7	26	16.71
18-30-aug	6:05:08	587	8.9	7.7	-1.2	26	16.71
18-30-aug	7:05:08	588	14.7	13.4	-1.4	27	16.71
18-30-aug	8:05:08	588	19.7	20.0	0.3	28	16.71
18-30-aug	9:05:08	588	20.1	21.0	0.9	28	16.71
18-30-aug	10:05:08	588	21.5	22.9	1.4	29	16.71
18-30-aug	11:05:08	588	23.1	24.9	1.9	29	16.71
18-30-aug	12:05:08	588	23.1	24.9	1.9	29	16.72
18-30-aug	13:05:08	587	23.9	25.8	1.9	29	16.71
18-30-aug	14:05:08	587	25.0	26.9	1.9	30	16.71
18-30-aug	15:05:08	587	24.8	26.4	1.6	30	16.72
18-30-aug	16:05:08	586	24.7	26.6	1.9	30	16.72
18-30-aug	17:05:08	586	23.8	25.1	1.4	29	16.71
18-30-aug	18:05:08	586	21.2	22.6	1.5	29	16.71
18-30-aug	19:05:08	586	13.8	15.7	1.9	29	16.71
18-30-aug	20:05:08	586	12.9	12.9	-0.1	28	16.73
18-30-aug	21:05:08	586	11.1	10.9	-0.2	28	16.72
18-30-aug	22:05:08	586	11.3	10.3	-1.0	28	16.72
18-30-aug	23:05:08	586	11.5	10.3	-1.1	28	16.73

BGI PQ200 Air Sampling System Downloaded 2018 07 sep 13:55:55

Job Details:

Job Name: 18Sep07A.JOB
Version: 5.62
Serial No: 962
Pump Time: :860:01
Flags:

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

	Max	Min	Avg	Units
BP	589	585	588	mmHg
TA	20.2	8.8	13.5	°C
Q	---	---	16.71	Lpm

QCV 0.5 %
Max overheat 6.2 °C
occured 06-sep 18:45:07

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-05-sep	0:00:08
Stop:	18-06-sep	0:00:05

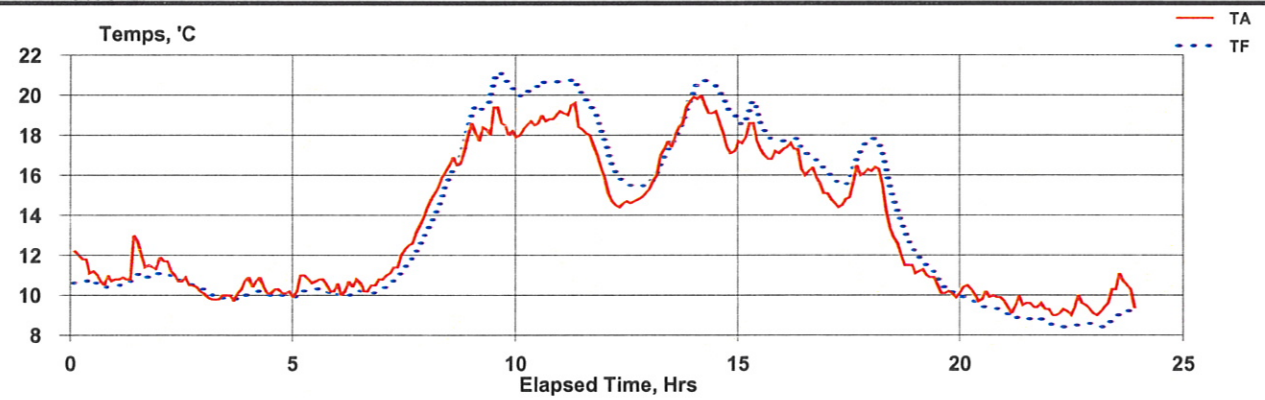
ET: 23:59

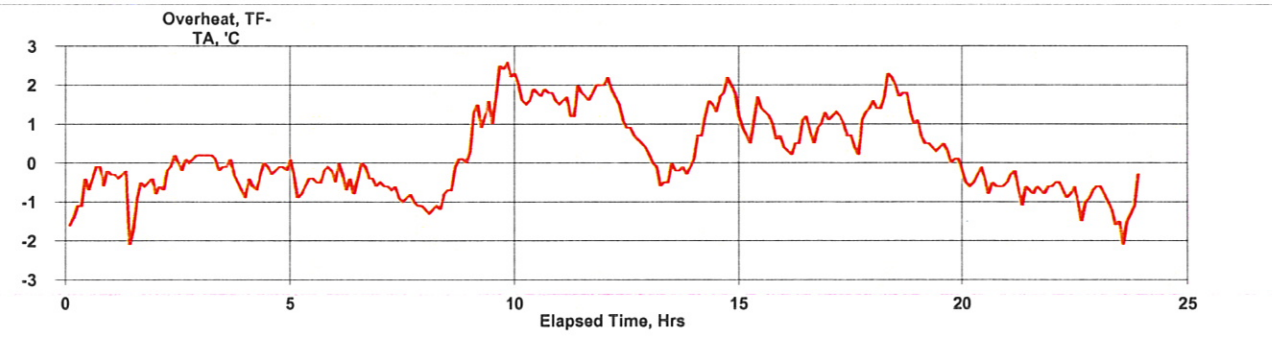
Mass Concentration Data:

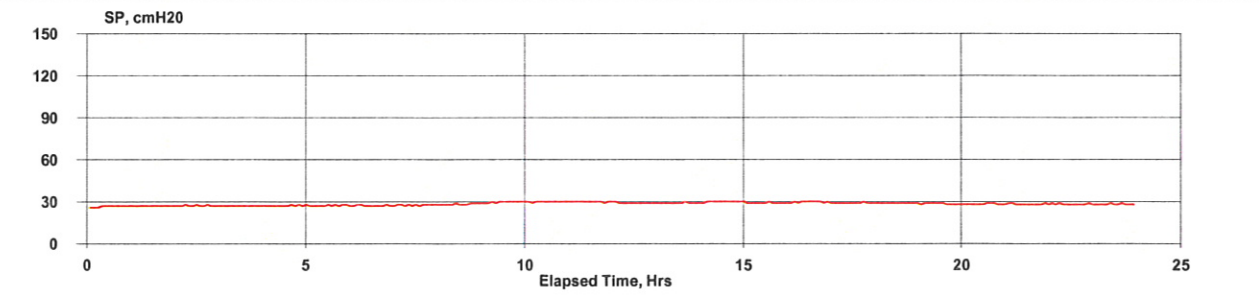
Filter ID: 9
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.039 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-05-sep	0:05:08	587	11.2	10.6	-0.7	27	16.71
18-05-sep	1:05:08	587	11.5	10.8	-0.7	27	16.71
18-05-sep	2:05:08	587	10.8	10.7	-0.1	27	16.72
18-05-sep	3:05:08	587	10.1	9.9	-0.2	27	16.72
18-05-sep	4:05:08	587	10.3	10.1	-0.2	27	16.72
18-05-sep	5:05:08	587	10.6	10.2	-0.5	27	16.71
18-05-sep	6:05:08	588	10.5	10.1	-0.4	27	16.71
18-05-sep	7:05:08	588	12.4	11.6	-0.9	28	16.71
18-05-sep	8:05:08	588	16.5	15.9	-0.6	28	16.74
18-05-sep	9:05:08	589	18.4	20.1	1.8	30	16.71
18-05-sep	10:05:08	589	18.7	20.4	1.7	30	16.74
18-05-sep	11:05:08	589	18.1	19.8	1.7	30	16.73
18-05-sep	12:05:08	589	14.8	15.8	1.1	29	16.73
18-05-sep	13:05:08	588	17.9	17.7	-0.2	29	16.69
18-05-sep	14:05:08	588	18.6	20.0	1.5	30	16.71
18-05-sep	15:05:08	588	17.5	18.5	1.0	29	16.68
18-05-sep	16:05:08	589	16.4	17.1	0.8	30	16.71
18-05-sep	17:05:08	589	15.4	16.4	1.0	29	16.73
18-05-sep	18:05:08	588	13.2	14.9	1.6	29	16.71
18-05-sep	19:05:08	588	10.5	10.8	0.3	29	16.72
18-05-sep	20:05:08	589	10.0	9.5	-0.5	28	16.71
18-05-sep	21:05:08	589	9.5	8.8	-0.6	28	16.72
18-05-sep	22:05:08	589	9.3	8.5	-0.8	28	16.71
18-05-sep	23:05:08	589	10.0	8.8	-1.2	28	16.70

BGI PQ200 Air Sampling System Downloaded 2018 13 sep 09:10:58

Job Details:

Job Name: 18Sep13A.JOB
Version: 5.62
Serial No: 962
Pump Time: :884:00
Flags:

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

	Max	Min	Avg	Units
BP	586	583	584	mmHg
TA	26.8	8.3	16.6	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 4.5 °C
occured 12-sep 21:38:48

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-11-sep	0:00:08
Stop:	18-12-sep	0:00:05

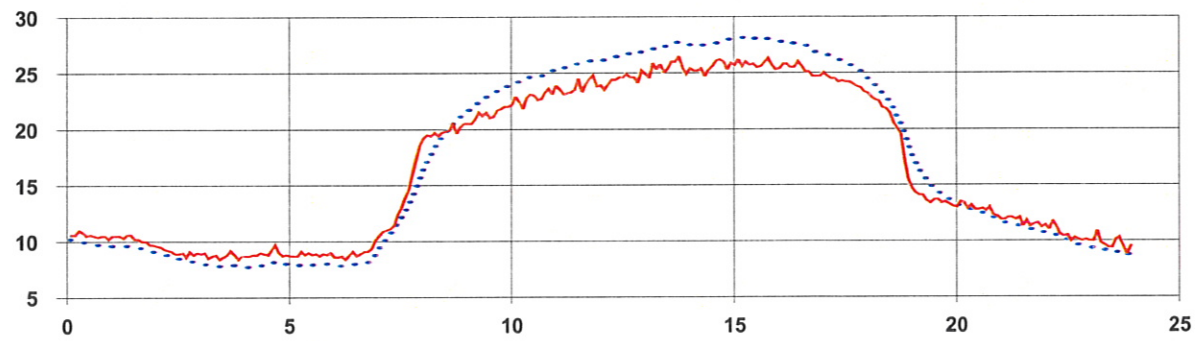
ET: 23:59

Mass Concentration Data:

Filter ID: 23
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.033 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-11-sep	0:05:08	584	10.6	9.9	-0.7	27	16.72
18-11-sep	1:05:08	584	10.2	9.4	-0.7	28	16.72
18-11-sep	2:05:08	584	9.0	8.5	-0.6	28	16.71
18-11-sep	3:05:08	585	8.7	7.9	-0.9	28	16.72
18-11-sep	4:05:08	584	8.9	7.9	-1.0	28	16.70
18-11-sep	5:05:08	585	8.8	7.9	-0.9	28	16.71
18-11-sep	6:05:08	585	9.1	8.1	-1.0	28	16.72
18-11-sep	7:05:08	585	14.1	12.6	-1.6	29	16.71
18-11-sep	8:05:08	585	19.9	19.6	-0.3	30	16.71
18-11-sep	9:05:08	585	21.5	23.0	1.6	31	16.73
18-11-sep	10:05:08	585	22.9	24.6	1.7	31	16.71
18-11-sep	11:05:08	585	23.8	25.8	2.0	32	16.70
18-11-sep	12:05:08	585	24.5	26.5	2.0	32	16.73
18-11-sep	13:05:08	584	25.5	27.4	1.9	32	16.72
18-11-sep	14:05:08	584	25.6	27.6	2.1	32	16.71
18-11-sep	15:05:08	584	25.8	28.0	2.2	32	16.70
18-11-sep	16:05:08	583	25.3	27.3	2.1	32	16.70
18-11-sep	17:05:08	583	24.1	25.7	1.7	32	16.71
18-11-sep	18:05:08	583	20.0	21.7	1.6	32	16.71
18-11-sep	19:05:08	583	13.6	14.8	1.2	31	16.71
18-11-sep	20:05:08	583	12.8	12.5	-0.3	30	16.72
18-11-sep	21:05:08	584	11.7	11.2	-0.5	30	16.71
18-11-sep	22:05:08	584	10.5	10.0	-0.5	30	16.70
18-11-sep	23:05:08	584	9.8	9.0	-0.7	30	16.72

BGI PQ200 Air Sampling System Downloaded 2018 18 sep 10:26:58

Job Details:

Job Name:	18Sep18A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:907:59
Flags:	

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

	Max	Min	Avg	Units
BP	587	584	585	mmHg
TA	26.6	9.6	17	°C
Q	---	---	16.71	Lpm

QCV	0.55 %
Max overheat	3.9 °C
occured	17-sep 11:23:59

Timer Information:

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

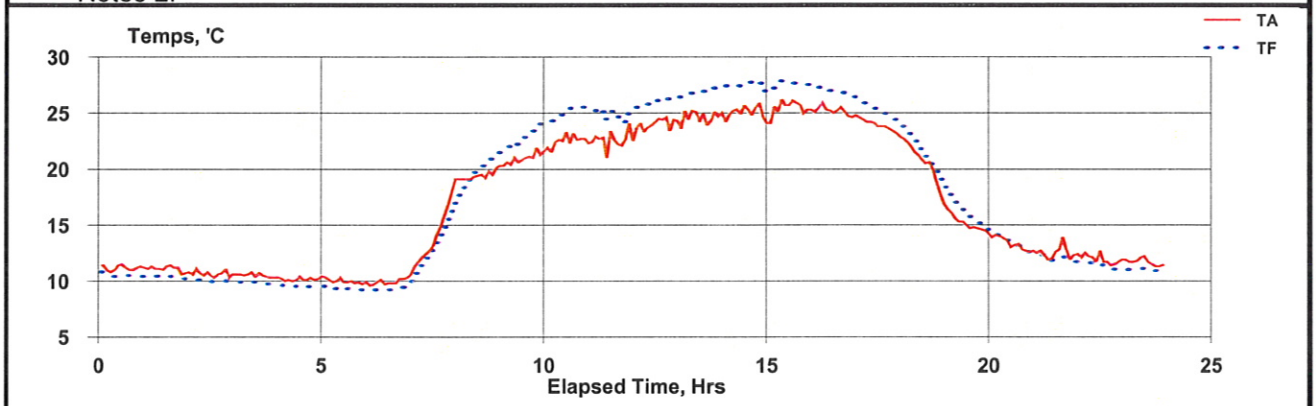
ET: 23:59

Mass Concentration Data:

Filter ID:	11	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.044	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:



18-17-sep	0:05:08	586	11.2	10.5	-0.7	26	16.72
18-17-sep	1:05:08	586	11.1	10.4	-0.7	26	16.71
18-17-sep	2:05:08	586	10.7	10.0	-0.7	26	16.71
18-17-sep	3:05:08	586	10.5	9.8	-0.7	26	16.71
18-17-sep	4:05:08	586	10.2	9.5	-0.7	26	16.71
18-17-sep	5:05:08	586	10.0	9.4	-0.6	26	16.72
18-17-sep	6:05:08	586	10.0	9.3	-0.7	26	16.71
18-17-sep	7:05:08	587	14.4	13.2	-1.2	27	16.71
18-17-sep	8:05:08	587	19.5	19.8	0.3	28	16.71
18-17-sep	9:05:08	587	21.0	22.8	1.8	29	16.71
18-17-sep	10:05:08	587	22.5	25.0	2.5	29	16.71
18-17-sep	11:05:08	587	22.6	24.9	2.3	29	16.72
18-17-sep	12:05:08	586	24.0	26.0	1.9	29	16.71
18-17-sep	13:05:08	586	24.6	26.9	2.2	30	16.71
18-17-sep	14:05:08	586	25.0	27.5	2.5	30	16.71
18-17-sep	15:05:08	585	25.5	27.5	2.1	30	16.71
18-17-sep	16:05:08	585	25.2	26.9	1.7	30	16.71
18-17-sep	17:05:08	585	23.8	25.2	1.4	30	16.72
18-17-sep	18:05:08	585	20.4	21.5	1.1	29	16.71
18-17-sep	19:05:08	585	15.1	16.1	1.0	29	16.72
18-17-sep	20:05:08	585	13.3	13.4	0.1	28	16.71
18-17-sep	21:05:08	585	12.5	12.0	-0.5	28	16.73
18-17-sep	22:05:08	585	11.9	11.4	-0.6	28	16.70
18-17-sep	23:05:08	585	11.7	11.0	-0.7	28	16.73

BGI PQ200 Air Sampling System Downloaded 2018 25 sep 14:17:15

Job Details:

Job Name:	18Sep25A.JOB
Version:	5.62
Serial No:	962
Pump Time:	:931:58
Flags:	

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

	Max	Min	Avg	Units
BP	587	583	585	mmHg
TA	24.5	8	14.9	°C
Q	---	---	16.71	Lpm

QCV	0.54 %
Max overheat	4.4 °C
occured	24-sep 18:54:27

Timer Information:

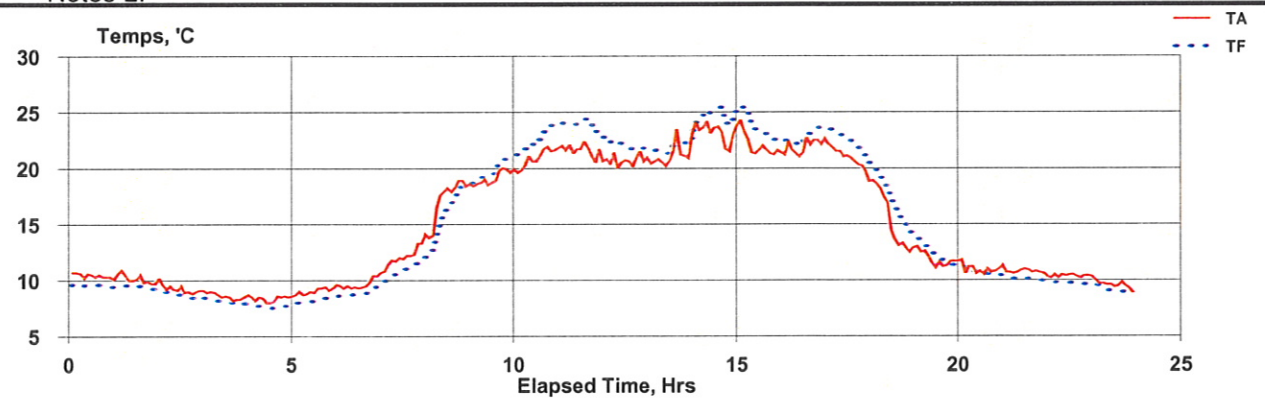
	Date dd-mmm	Time hh:mm:ss
Start:	18-23-sep	0:00:08
Stop:	18-24-sep	0:00:05
ET:	23:59	

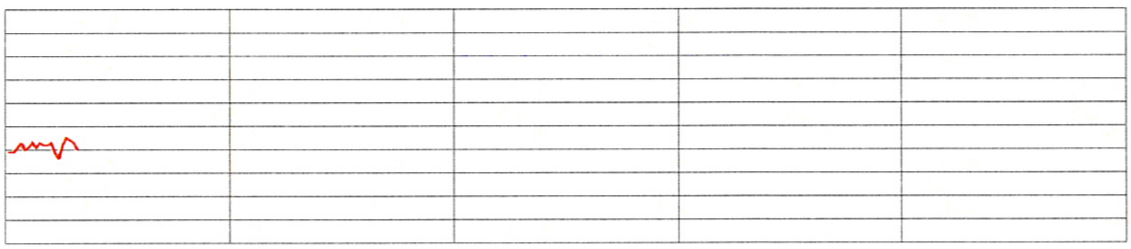
Mass Concentration Data:

Filter ID:	37	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:





18-23-sep	0:05:08	586	10.4	9.6	-0.9	31	16.71
18-23-sep	1:05:08	586	10.2	9.4	-0.8	31	16.71
18-23-sep	2:05:08	586	9.2	8.7	-0.5	31	16.72
18-23-sep	3:05:08	586	8.6	8.1	-0.5	31	16.71
18-23-sep	4:05:08	586	8.4	7.7	-0.7	31	16.72
18-23-sep	5:05:08	586	9.1	8.2	-0.9	31	16.71
18-23-sep	6:05:08	586	9.7	8.9	-0.8	31	16.72
18-23-sep	7:05:08	586	12.3	10.9	-1.3	32	16.71
18-23-sep	8:05:08	586	17.4	16.1	-1.4	32	16.71
18-23-sep	9:05:08	587	19.2	19.8	0.7	33	16.71
18-23-sep	10:05:08	587	21.0	22.6	1.6	34	16.72
18-23-sep	11:05:08	586	21.5	23.8	2.3	35	16.70
18-23-sep	12:05:08	586	20.7	22.1	1.4	34	16.71
18-23-sep	13:05:08	585	21.2	21.9	0.7	35	16.72
18-23-sep	14:05:08	585	23.2	24.7	1.4	35	16.70
18-23-sep	15:05:08	584	22.0	23.6	1.7	35	16.71
18-23-sep	16:05:08	584	22.0	22.8	0.8	34	16.71
18-23-sep	17:05:08	584	20.8	22.4	1.6	34	16.71
18-23-sep	18:05:08	584	15.2	17.2	1.9	34	16.71
18-23-sep	19:05:08	584	11.8	12.3	0.5	33	16.71
18-23-sep	20:05:08	584	11.0	10.7	-0.3	33	16.71
18-23-sep	21:05:08	584	10.7	10.1	-0.7	33	16.72
18-23-sep	22:05:08	584	10.4	9.7	-0.7	33	16.71
18-23-sep	23:05:08	584	9.5	9.1	-0.5	33	16.71

Compliance Monitor 963B

PM_{10} Sampler Summary

July 1, 2018 - September 30, 2018

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

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
07/01/18	P2948705	**9.2**	**11.7**	24:00	24.0	19.0	386.4100	386.6326	0.2226		
07/07/18	P2948710	**8.7**	**11.0**	23:59	24.0	18.9	391.2630	391.4723	0.2093		
07/13/18	P2948716	**19.9**	**24.9**	23:59	24.0	19.2	394.6700	395.1499	0.4799		
07/19/18	P2948949	**18.3**	**23.0**	23:59	24.0	19.1	410.2914	410.7323	0.4409		
07/25/18	P2948955	**13.0**	**16.4**	23:59	24.0	19.0	395.1783	395.4911	0.3128		
07/31/18	P2949156	**Invalid - AI**	**Invalid - AI**				391.5289	392.2269	0.6980	SP,MD	No data
08/06/18	P2949161	**32.8**	**41.5**	23:59	24.0	19.0	398.1049	398.8930	0.7881		
08/12/18	P2949400	**10.6**	**13.3**	23:59	24.0	19.1	399.5121	399.7676	0.2555		
08/18/18	P2949405	**11.6**	**14.7**	23:59	24.0	19.0	394.9971	395.2776	0.2805		
08/24/18	P2949410	**12.6**	**15.8**	23:59	24.0	19.2	388.8527	389.1576	0.3049	HT	
08/30/18	P2949631	**7.9**	**9.9**	23:59	24.0	19.2	399.6083	399.7997	0.1914	HT	
09/05/18	P2949636	**6.2**	**7.7**	23:59	24.0	19.5	394.6139	394.7642	0.1503		
09/11/18	P2949883	**31.6**	**39.7**	23:59	24.0	19.1	394.7780	395.5361	0.7581		
09/17/18	P2950116	**23.3**	**29.2**	23:59	24.0	19.1	398.3685	398.9293	0.5608		
09/23/18	P2949889	**Invalid - AN**	**Invalid - AN**	0:03			403.3045	403.3164	0.0119	SP,FE	
09/29/18	P2950115	**19.8**	**24.8**	23:59	24.0	19.2	394.4354	394.9131	0.4777		
07/20/18	P2948954		**Field Blank**				394.3051	394.3312	0.0261		

# Valid	Recovery	Average	St. Dev.	Max	Min
14	**88%**	**20.3**	**10.7**	**41.5**	**7.7**

BGI PQ200 Air Sampling System Downloaded 2018 03 jul 10:27:20

Job Details:

Job Name: 18Jul03B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6405:34
Flags:

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

	Max	Min	Avg	Units
BP	594	590	593	mmHg
TA	31.5	11.4	21.2	°C
Q	---	---	16.7	Lpm

QCV 0.53 %
Max overheat 2.7 °C
occured 01-jul 10:42:16

Timer Information:

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

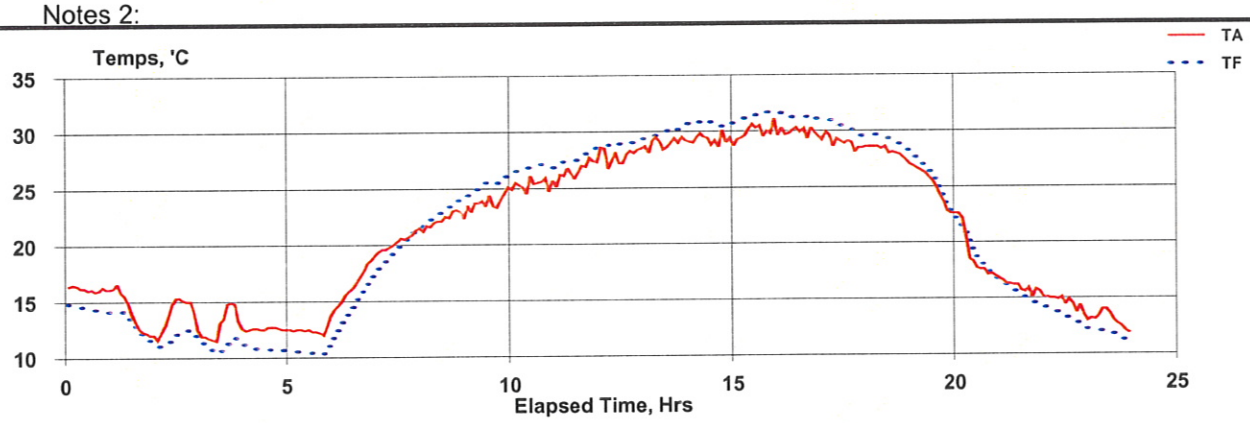
ET: 24:00:00

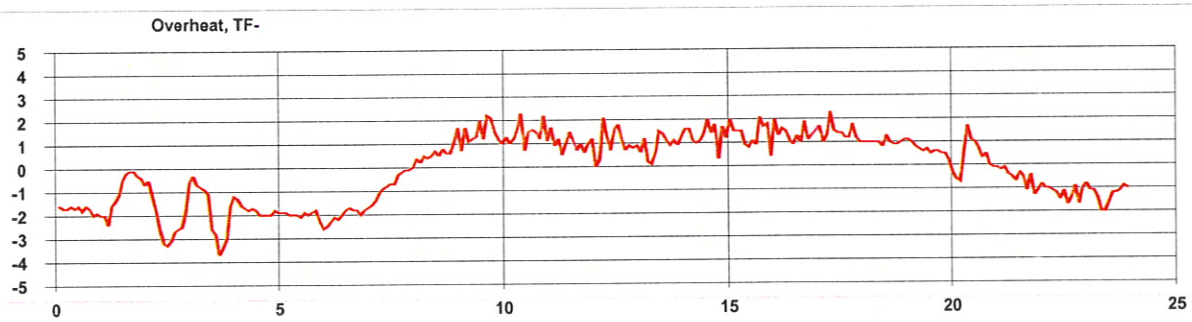
Mass Concentration Data:

Filter ID: 18
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.04 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-01-jul	0:04:28	593	16.2	14.4	-1.7	33	16.71
18-01-jul	1:04:28	593	13.9	13.0	-0.9	33	16.71
18-01-jul	2:04:28	593	14.0	11.8	-2.2	33	16.71
18-01-jul	3:04:28	593	13.0	11.1	-1.8	33	16.71
18-01-jul	4:04:28	593	12.6	10.8	-1.8	33	16.71
18-01-jul	5:04:28	593	12.5	10.5	-2.0	33	16.72
18-01-jul	6:04:28	593	16.6	14.6	-2.0	34	16.71
18-01-jul	7:04:28	594	20.4	19.7	-0.7	35	16.70
18-01-jul	8:04:28	594	22.2	22.9	0.7	36	16.71
18-01-jul	9:04:28	594	23.8	25.3	1.4	37	16.70
18-01-jul	10:04:28	594	25.4	26.8	1.4	37	16.70
18-01-jul	11:04:28	594	26.6	27.6	1.0	37	16.70
18-01-jul	12:04:28	594	27.9	28.9	1.0	38	16.71
18-01-jul	13:04:28	593	29.0	29.9	0.9	38	16.70
18-01-jul	14:04:28	593	29.3	30.6	1.4	39	16.70
18-01-jul	15:04:28	592	29.9	31.3	1.4	39	16.70
18-01-jul	16:04:28	592	29.9	31.3	1.4	39	16.71
18-01-jul	17:04:28	592	29.0	30.4	1.4	39	16.70
18-01-jul	18:04:28	592	28.2	29.2	1.0	39	16.70
18-01-jul	19:04:28	593	25.2	25.9	0.6	38	16.70
18-01-jul	20:04:28	593	19.1	19.4	0.3	38	16.71
18-01-jul	21:04:28	593	16.0	15.5	-0.6	37	16.71
18-01-jul	22:04:28	593	14.6	13.4	-1.2	37	16.71
18-01-jul	23:04:28	593	13.0	11.8	-1.3	37	16.71

BGI PQ200 Air Sampling System Downloaded 2018 09 jul 09:37:39

Job Details:

Job Name: 18Jul09B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6429:33
Flags:

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

	Max	Min	Avg	Units
BP	598	594	595	mmHg
TA	32.7	15.3	23.1	°C
Q	---	---	16.7	Lpm

QCV 0.48 %
Max overheat 3.3 °C
occured 07-jul 15:45:35

Timer Information:

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

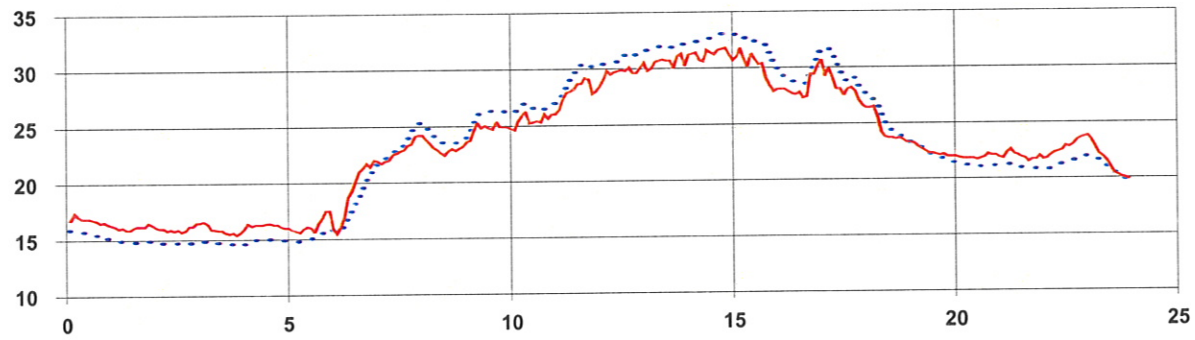
ET: 23:59

Mass Concentration Data:

Filter ID: 29
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.035 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-07-jul	0:05:08	596	16.8	15.6	-1.2	27	16.70
18-07-jul	1:05:08	596	16.1	14.9	-1.3	28	16.71
18-07-jul	2:05:08	596	16.0	14.7	-1.3	28	16.70
18-07-jul	3:05:08	596	15.8	14.7	-1.2	28	16.71
18-07-jul	4:05:08	596	16.3	14.9	-1.3	28	16.71
18-07-jul	5:05:08	597	16.2	15.2	-1.0	28	16.71
18-07-jul	6:05:08	597	19.7	18.4	-1.2	29	16.71
18-07-jul	7:05:08	597	23.0	23.4	0.5	30	16.72
18-07-jul	8:05:08	597	23.1	23.9	0.8	30	16.71
18-07-jul	9:05:08	597	24.8	25.9	1.1	30	16.72
18-07-jul	10:05:08	597	25.6	26.6	1.0	31	16.70
18-07-jul	11:05:08	597	28.1	29.4	1.3	31	16.71
18-07-jul	12:05:08	596	29.8	30.9	1.1	32	16.70
18-07-jul	13:05:08	596	30.6	31.9	1.3	32	16.68
18-07-jul	14:05:08	595	31.3	32.7	1.4	32	16.71
18-07-jul	15:05:08	595	30.0	32.0	2.0	32	16.70
18-07-jul	16:05:08	595	28.5	29.4	0.9	32	16.71
18-07-jul	17:05:08	595	28.0	29.6	1.5	32	16.69
18-07-jul	18:05:08	595	24.3	25.0	0.7	31	16.71
18-07-jul	19:05:08	596	22.4	22.2	-0.2	31	16.69
18-07-jul	20:05:08	596	21.9	21.1	-0.8	31	16.72
18-07-jul	21:05:08	596	21.9	21.0	-1.0	31	16.71
18-07-jul	22:05:08	595	22.9	21.4	-1.5	31	16.70
18-07-jul	23:05:08	595	21.3	20.8	-0.4	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 16 jul 14:01:04

Job Details:

Job Name: 18Jul16B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6453:32
Flags:

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

	Max	Min	Avg	Units
BP	596	592	595	mmHg
TA	29.5	11.1	18.7	°C
Q	---	---	16.7	Lpm

QCV 0.4 %
Max overheat 6.3 °C
occured 16-jul 12:55:11

Timer Information:

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

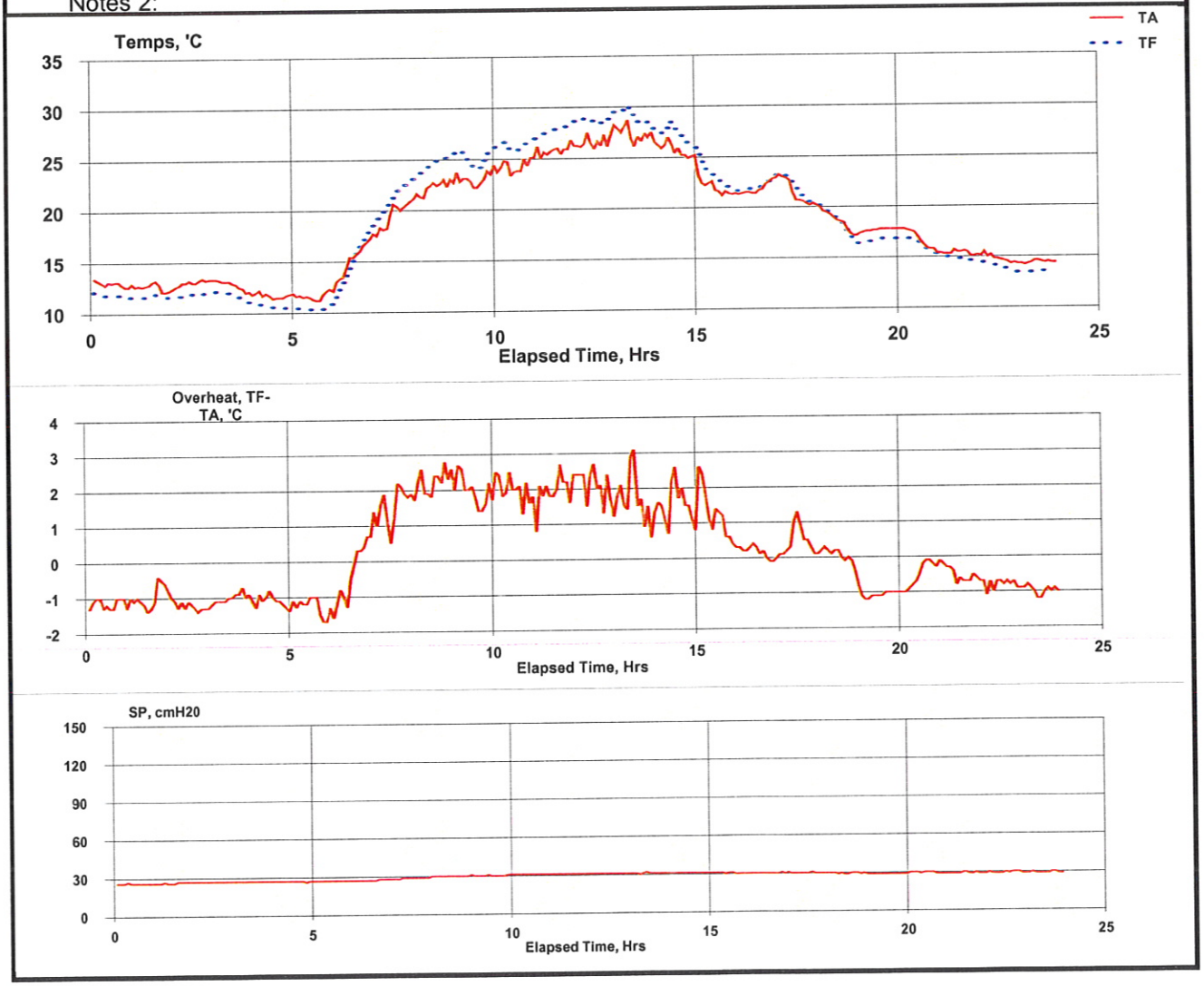
ET: 23:59

Mass Concentration Data:

Filter ID: 34
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.014 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



18-13-jul	0:05:08	595	13.0	11.8	-1.2	26	16.70
18-13-jul	1:05:08	595	12.6	11.7	-1.0	27	16.71
18-13-jul	2:05:08	595	13.1	11.9	-1.2	27	16.71
18-13-jul	3:05:08	594	12.7	11.7	-1.0	27	16.71
18-13-jul	4:05:08	595	11.7	10.6	-1.1	27	16.71
18-13-jul	5:05:08	595	11.7	10.4	-1.3	27	16.70
18-13-jul	6:05:08	595	15.4	15.1	-0.3	27	16.71
18-13-jul	7:05:08	595	19.6	21.2	1.6	29	16.70
18-13-jul	8:05:08	596	22.3	24.5	2.2	30	16.72
18-13-jul	9:05:08	596	23.1	25.1	2.0	30	16.71
18-13-jul	10:05:08	596	24.3	26.3	2.0	31	16.70
18-13-jul	11:05:08	596	25.8	27.8	2.0	31	16.71
18-13-jul	12:05:08	595	26.7	28.7	2.0	31	16.68
18-13-jul	13:05:08	595	27.3	29.0	1.7	31	16.67
18-13-jul	14:05:08	595	25.7	27.2	1.5	31	16.69
18-13-jul	15:05:08	595	21.9	23.1	1.2	31	16.70
18-13-jul	16:05:08	595	21.9	22.0	0.2	30	16.64
18-13-jul	17:05:08	595	21.4	21.8	0.4	30	16.66
18-13-jul	18:05:08	595	18.6	18.6	0.0	30	16.67
18-13-jul	19:05:08	595	17.7	16.6	-1.1	29	16.72
18-13-jul	20:05:08	595	16.8	16.3	-0.5	30	16.72
18-13-jul	21:05:08	595	15.4	14.8	-0.5	29	16.74
18-13-jul	22:05:08	595	14.8	14.0	-0.8	29	16.74
18-13-jul	23:05:08	595	14.4	13.4	-1.0	29	16.72

BGI PQ200 Air Sampling System Downloaded 2018 20 jul 10:07:46

Job Details:

Job Name: 18Jul20B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6477:31
Flags:

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

	Max	Min	Avg	Units
BP	597	593	594	mmHg
TA	30.8	12.6	19.6	°C
Q	---	---	16.71	Lpm

QCV 0.45 %
Max overheat 3.5 °C
occured 19-jul 12:37:28

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-19-jul	0:00:08
Stop:	18-20-jul	0:00:04

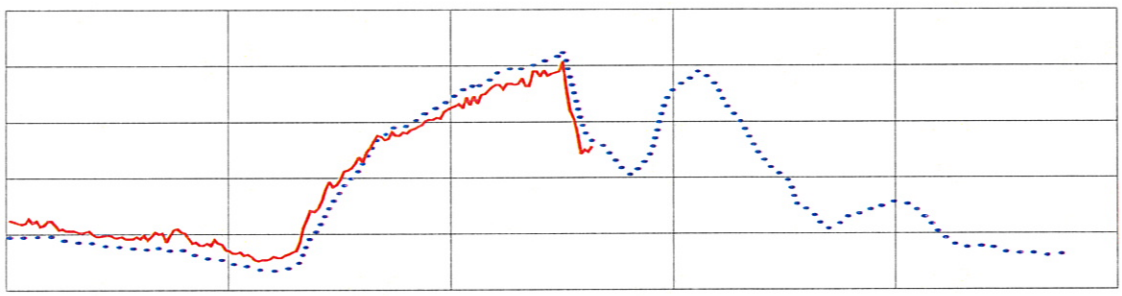
ET: 23:59

Mass Concentration Data:

Filter ID: 6
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.019 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-19-jul	0:05:08	595	16.1	14.7	-1.3	27	16.67
18-19-jul	1:05:08	594	15.3	14.4	-0.9	28	16.70
18-19-jul	2:05:08	594	14.7	13.8	-0.9	28	16.73
18-19-jul	3:05:08	594	15.0	13.6	-1.4	28	16.70
18-19-jul	4:05:08	594	14.1	12.9	-1.2	28	16.75
18-19-jul	5:05:08	595	13.0	12.0	-1.0	28	16.71
18-19-jul	6:05:08	595	14.7	13.0	-1.8	28	16.72
18-19-jul	7:05:08	595	20.2	18.8	-1.4	29	16.72
18-19-jul	8:05:08	595	23.5	23.7	0.2	30	16.71
18-19-jul	9:05:08	595	25.2	25.9	0.7	31	16.70
18-19-jul	10:05:08	595	27.2	28.2	1.0	31	16.72
18-19-jul	11:05:08	595	28.6	29.7	1.1	32	16.75
18-19-jul	12:05:08	595	27.1	29.0	1.9	32	16.71
18-19-jul	13:05:08	595	21.2	22.1	1.0	31	16.70
18-19-jul	14:05:08	594	24.7	23.5	-1.2	31	16.65
18-19-jul	15:05:08	594	27.3	28.8	1.5	32	16.69
18-19-jul	16:05:08	594	23.5	24.7	1.2	32	16.69
18-19-jul	17:05:08	594	19.5	19.4	-0.1	31	16.72
18-19-jul	18:05:08	595	18.0	16.1	-1.9	30	16.71
18-19-jul	19:05:08	596	19.3	17.2	-2.1	30	16.71
18-19-jul	20:05:08	597	17.2	16.7	-0.5	31	16.70
18-19-jul	21:05:08	596	14.6	14.0	-0.6	30	16.70
18-19-jul	22:05:08	596	14.1	13.4	-0.7	31	16.70
18-19-jul	23:05:08	595	13.9	13.1	-0.8	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 26 jul 10:43:39

Job Details:

Job Name: 18Jul26B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6501:30
Flags:

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

	Max	Min	Avg	Units
BP	597	594	596	mmHg
TA	32.4	12.1	22.8	°C
Q	---	---	16.7	Lpm

QCV	0.34 %
Max overheat	3.5 °C
occured	25-jul 17:12:01

Timer Information:

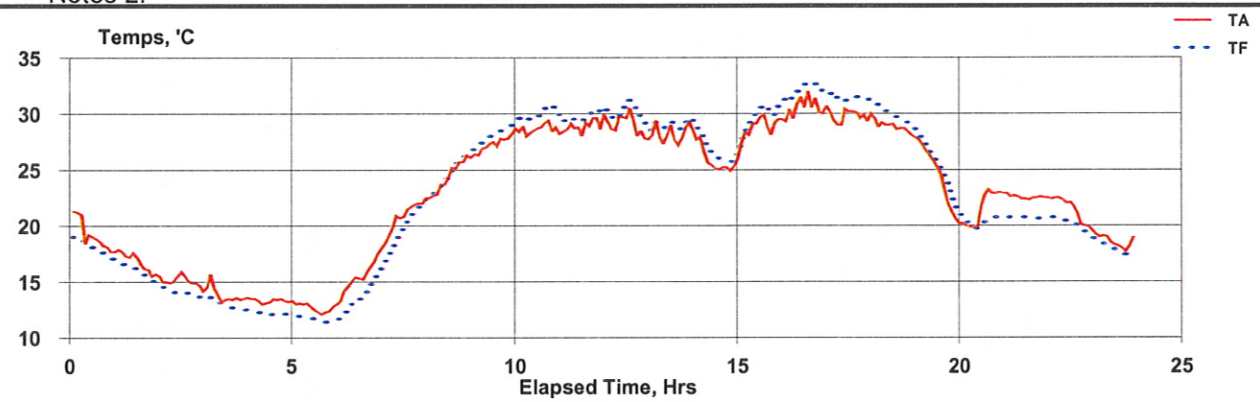
	Date dd-mmm	Time hh:mm:ss
Start:	18-25-jul	0:00:08
Stop:	18-26-jul	0:00:04

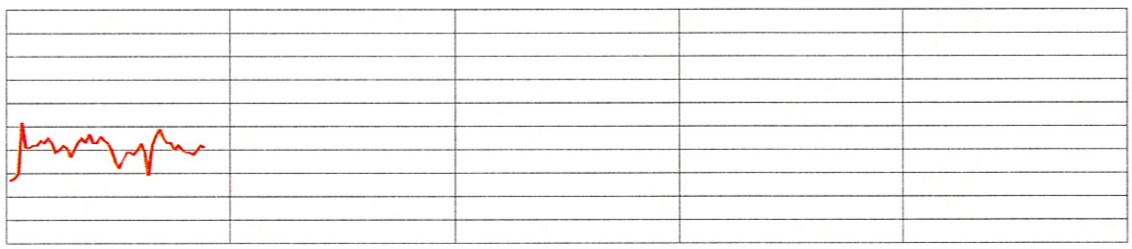
ET: 23:59

Mass Concentration Data:

Filter ID:	13	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-25-jul	0:05:08	596	19.1	18.1	-1.0	31	16.70
18-25-jul	1:05:08	596	16.7	15.9	-0.8	31	16.69
18-25-jul	2:05:08	596	15.1	14.0	-1.0	31	16.69
18-25-jul	3:05:08	596	13.8	13.0	-0.9	31	16.72
18-25-jul	4:05:08	596	13.3	12.2	-1.1	31	16.72
18-25-jul	5:05:08	596	12.7	11.7	-1.0	31	16.71
18-25-jul	6:05:08	597	15.6	13.7	-1.9	31	16.72
18-25-jul	7:05:08	597	21.0	19.8	-1.2	33	16.71
18-25-jul	8:05:08	597	24.5	24.5	0.0	34	16.73
18-25-jul	9:05:08	597	27.4	28.1	0.7	34	16.71
18-25-jul	10:05:08	597	28.6	30.0	1.3	35	16.68
18-25-jul	11:05:08	597	29.0	29.8	0.8	35	16.68
18-25-jul	12:05:08	596	28.9	30.0	1.1	36	16.70
18-25-jul	13:05:08	596	28.2	29.0	0.8	36	16.69
18-25-jul	14:05:08	596	25.8	26.7	0.9	35	16.69
18-25-jul	15:05:08	596	28.9	29.7	0.8	35	16.71
18-25-jul	16:05:08	595	30.6	32.1	1.5	36	16.70
18-25-jul	17:05:08	595	29.8	31.4	1.6	36	16.70
18-25-jul	18:05:08	595	28.8	29.9	1.1	35	16.69
18-25-jul	19:05:08	595	24.2	25.1	0.9	35	16.71
18-25-jul	20:05:08	596	21.6	20.4	-1.2	34	16.71
18-25-jul	21:05:08	596	22.5	20.7	-1.9	35	16.73
18-25-jul	22:05:08	596	21.4	20.1	-1.3	35	16.71
18-25-jul	23:05:08	596	18.6	17.9	-0.6	34	16.69

BGI PQ200 Air Sampling System Downloaded 2018 07 aug 10:56:34

Job Details:

Job Name: 18Aug07B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6549:28
Flags:

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

	Max	Min	Avg	Units
BP	595	590	593	mmHg
TA	32	8.6	21	°C
Q	---	---	16.69	Lpm

QCV	0.48 %
Max overheat	2.2 °C
occured	06-aug 15:04:12

Timer Information:

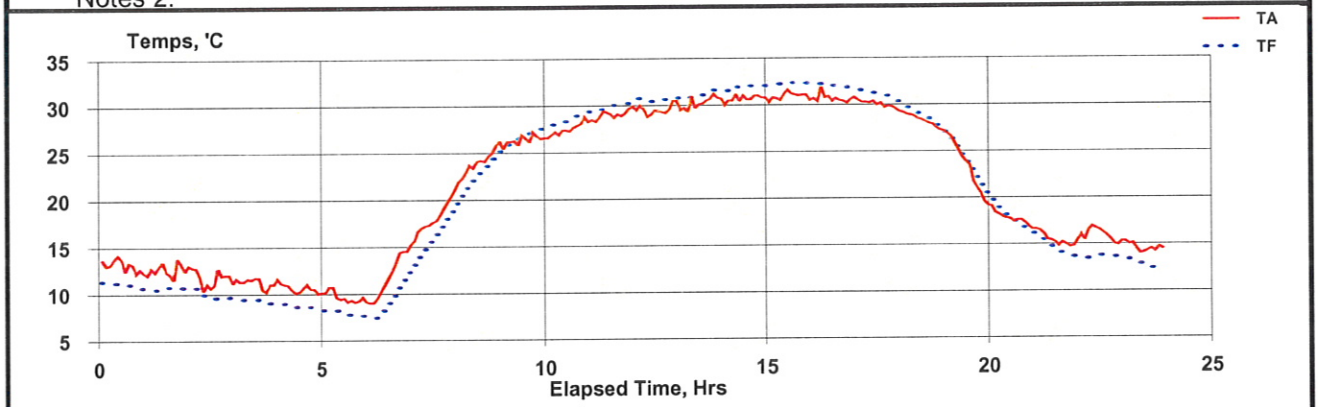
	Date dd-mmm	Time hh:mm:ss
Start:	18-06-aug	0:00:08
Stop:	18-07-aug	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	38	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	23.995	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:



18-06-aug	0:05:08	593	13.1	11.0	-2.1	25	16.73
18-06-aug	1:05:08	593	12.6	10.6	-2.1	25	16.71
18-06-aug	2:05:08	593	11.7	9.9	-1.8	25	16.70
18-06-aug	3:05:08	593	11.2	9.3	-2.0	25	16.71
18-06-aug	4:05:08	593	10.5	8.7	-1.9	25	16.70
18-06-aug	5:05:08	593	9.6	7.9	-1.7	25	16.65
18-06-aug	6:05:08	594	12.1	9.3	-2.8	25	16.70
18-06-aug	7:05:08	594	18.2	15.9	-2.2	26	16.69
18-06-aug	8:05:08	594	24.0	22.6	-1.5	28	16.72
18-06-aug	9:05:08	594	26.4	26.7	0.3	29	16.70
18-06-aug	10:05:08	594	27.5	28.5	0.9	29	16.67
18-06-aug	11:05:08	594	29.1	29.8	0.8	30	16.68
18-06-aug	12:05:08	594	29.6	30.6	1.0	30	16.71
18-06-aug	13:05:08	594	30.3	31.1	0.8	30	16.65
18-06-aug	14:05:08	593	30.7	31.9	1.2	30	16.70
18-06-aug	15:05:08	593	30.9	32.3	1.3	30	16.73
18-06-aug	16:05:08	593	30.7	31.9	1.3	30	16.68
18-06-aug	17:05:08	593	30.0	31.0	1.0	30	16.69
18-06-aug	18:05:08	593	28.2	28.7	0.5	30	16.69
18-06-aug	19:05:08	593	23.2	23.8	0.6	30	16.72
18-06-aug	20:05:08	593	17.7	17.8	0.1	29	16.70
18-06-aug	21:05:08	593	15.4	14.6	-0.9	29	16.71
18-06-aug	22:05:08	593	15.9	13.6	-2.3	29	16.72
18-06-aug	23:05:08	593	14.6	12.7	-1.8	29	16.70

BGI PQ200 Air Sampling System Downloaded 2018 15 aug 10:07:23

Job Details:

Job Name: 18Aug15B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6573:27
Flags:

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

	Max	Min	Avg	Units
BP	595	592	593	mmHg
TA	29.1	8.3	18.8	°C
Q	---	---	16.69	Lpm

QCV 0.48 %
Max overheat 3.6 °C
occured 13-aug 16:30:14

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-12-aug	0:00:08
Stop:	18-13-aug	0:00:05

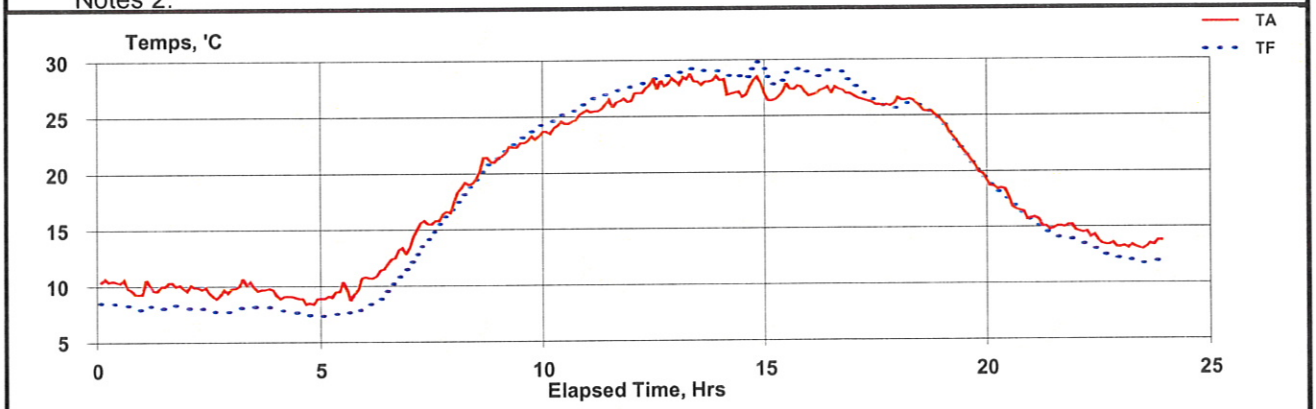
ET: 23:59

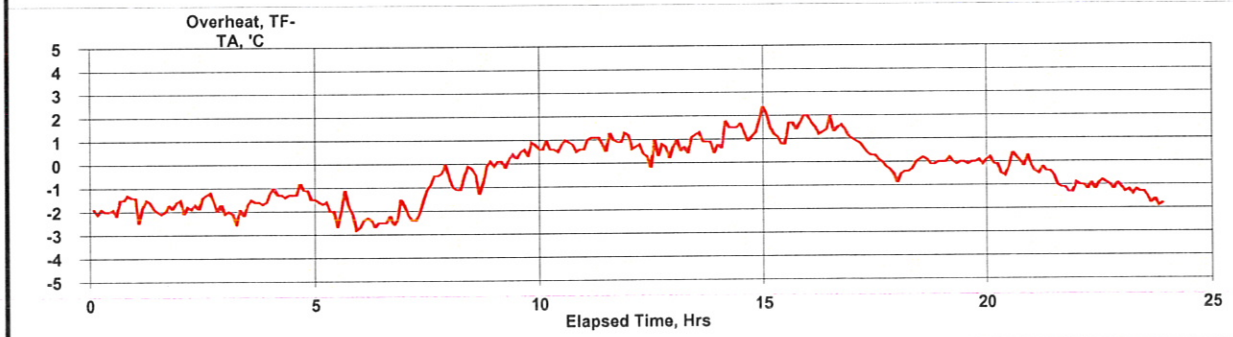
Mass Concentration Data:

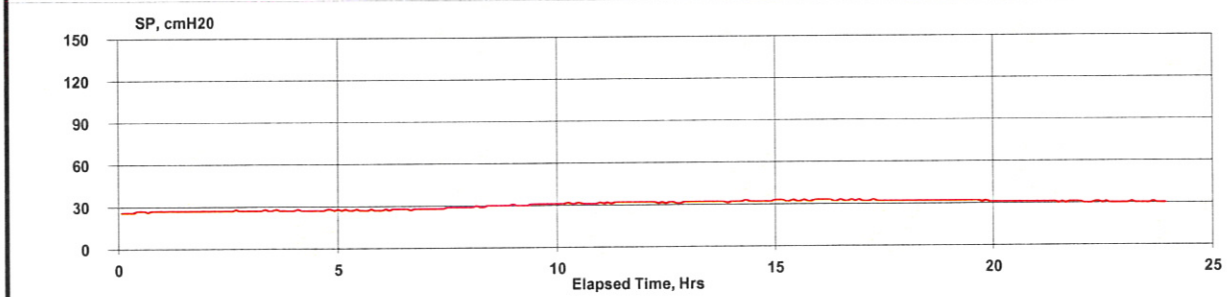
Filter ID: 17
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 23.998 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-12-aug	0:05:08	594	10.1	8.3	-1.8	27	16.73
18-12-aug	1:05:08	593	10.0	8.2	-1.8	27	16.73
18-12-aug	2:05:08	593	9.6	7.9	-1.7	27	16.71
18-12-aug	3:05:08	594	9.9	8.1	-1.8	27	16.71
18-12-aug	4:05:08	594	8.8	7.6	-1.2	27	16.70
18-12-aug	5:05:08	593	9.6	7.6	-2.0	27	16.68
18-12-aug	6:05:08	594	12.1	9.8	-2.3	28	16.74
18-12-aug	7:05:08	594	15.9	14.6	-1.2	29	16.71
18-12-aug	8:05:08	594	20.0	19.5	-0.6	30	16.72
18-12-aug	9:05:08	594	22.7	23.0	0.4	31	16.70
18-12-aug	10:05:08	594	24.5	25.2	0.7	31	16.65
18-12-aug	11:05:08	594	26.0	27.1	1.0	32	16.66
18-12-aug	12:05:08	594	27.7	28.3	0.5	32	16.66
18-12-aug	13:05:08	593	28.2	29.1	0.8	32	16.67
18-12-aug	14:05:08	593	27.4	28.9	1.5	32	16.70
18-12-aug	15:05:08	593	27.1	28.6	1.5	33	16.70
18-12-aug	16:05:08	593	27.2	28.6	1.4	33	16.72
18-12-aug	17:05:08	592	26.2	26.3	0.1	32	16.73
18-12-aug	18:05:08	592	25.7	25.6	-0.1	32	16.72
18-12-aug	19:05:08	593	21.6	21.6	0.0	32	16.73
18-12-aug	20:05:08	593	17.4	17.3	-0.1	31	16.70
18-12-aug	21:05:08	593	15.2	14.4	-0.8	31	16.73
18-12-aug	22:05:08	593	13.9	12.8	-1.0	30	16.69
18-12-aug	23:05:08	593	13.3	11.9	-1.5	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 20 aug 11:16:13

Job Details:

Job Name: 18Aug20B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6597:26
Flags:

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

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	30.5	12.6	21.3	°C
Q	---	---	16.71	Lpm

QCV 0.49 %
Max overheat 2.6 °C
occured 18-aug 11:39:46

Timer Information:

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

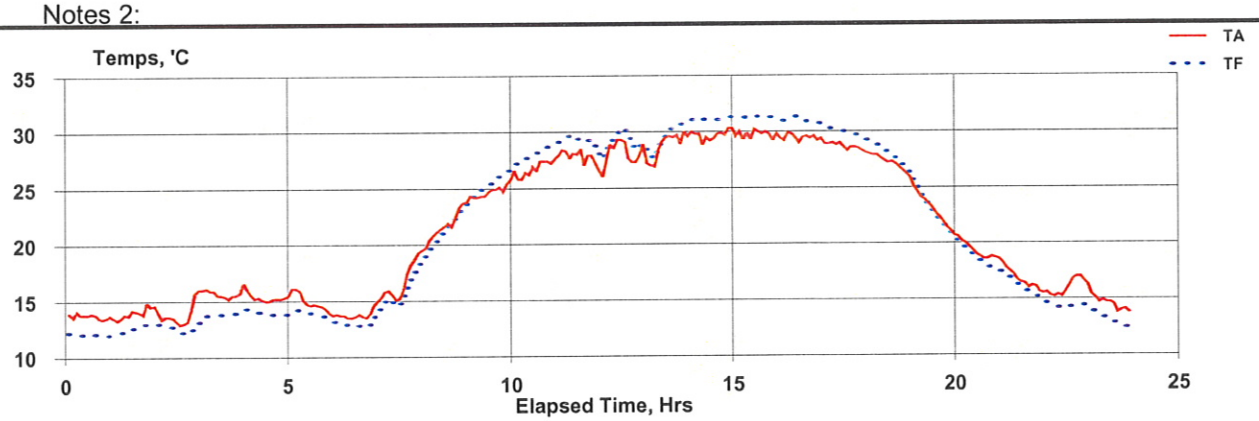
ET: 23:59

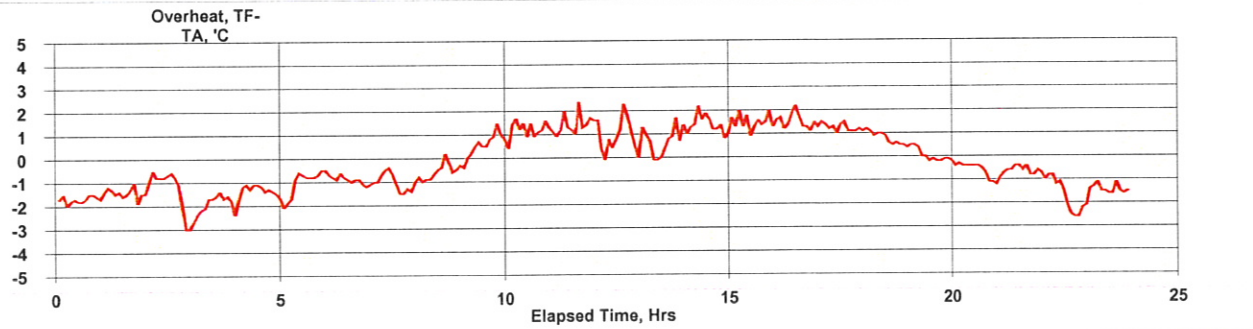
Mass Concentration Data:

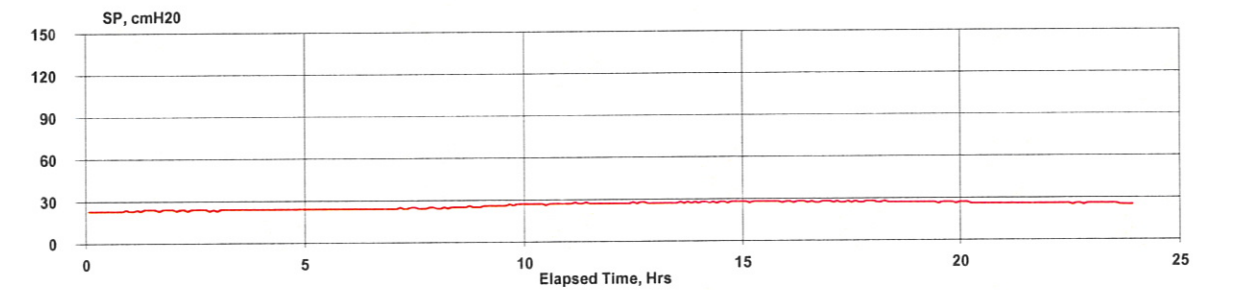
Filter ID: 28
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.019 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-18-aug	0:05:08	595	13.7	12.0	-1.7	23	16.69
18-18-aug	1:05:08	595	14.0	12.6	-1.4	24	16.72
18-18-aug	2:05:08	595	13.9	12.6	-1.3	24	16.74
18-18-aug	3:05:08	595	15.7	13.8	-1.9	24	16.68
18-18-aug	4:05:08	596	15.3	14.0	-1.3	24	16.66
18-18-aug	5:05:08	595	14.9	13.9	-1.0	24	16.68
18-18-aug	6:05:08	596	13.9	12.9	-0.9	24	16.68
18-18-aug	7:05:08	596	16.8	15.8	-1.0	24	16.64
18-18-aug	8:05:08	596	21.8	21.3	-0.5	25	16.64
18-18-aug	9:05:08	596	24.7	25.3	0.6	26	16.72
18-18-aug	10:05:08	596	26.8	28.0	1.2	27	16.73
18-18-aug	11:05:08	596	27.8	29.2	1.4	27	16.73
18-18-aug	12:05:08	595	28.1	29.0	0.9	27	16.76
18-18-aug	13:05:08	595	28.8	29.5	0.7	27	16.72
18-18-aug	14:05:08	594	29.7	31.1	1.4	28	16.79
18-18-aug	15:05:08	594	29.7	31.3	1.5	28	16.79
18-18-aug	16:05:08	594	29.5	31.0	1.5	28	16.71
18-18-aug	17:05:08	594	28.6	29.9	1.2	28	16.71
18-18-aug	18:05:08	593	27.2	27.9	0.8	27	16.71
18-18-aug	19:05:08	594	22.9	22.9	0.0	27	16.70
18-18-aug	20:05:08	594	19.3	18.6	-0.6	26	16.71
18-18-aug	21:05:08	594	16.7	16.0	-0.6	26	16.71
18-18-aug	22:05:08	594	16.0	14.3	-1.7	26	16.72
18-18-aug	23:05:08	594	14.5	13.1	-1.4	26	16.71

BGI PQ200 Air Sampling System Downloaded 2018 28 aug 12:49:57

Job Details:

Job Name: 18Aug28B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6621:25
Flags:

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

	Max	Min	Avg	Units
BP	594	591	592	mmHg
TA	25.3	9.6	17.1	°C
Q	---	---	16.72	Lpm

QCV 0.63 %
Max overheat 2.5 °C
occured 24-aug 15:22:47

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-24-aug	0:00:08
Stop:	18-25-aug	0:00:04

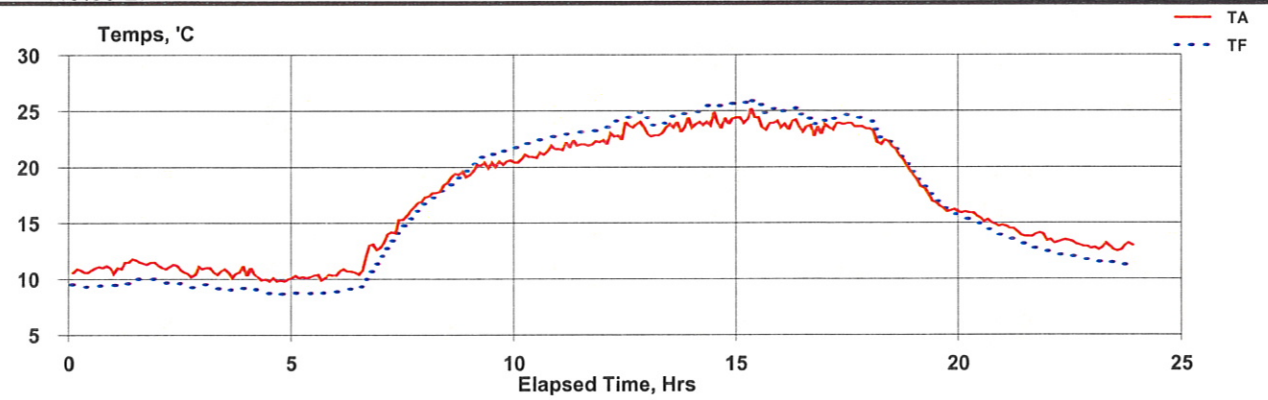
ET: 23:59

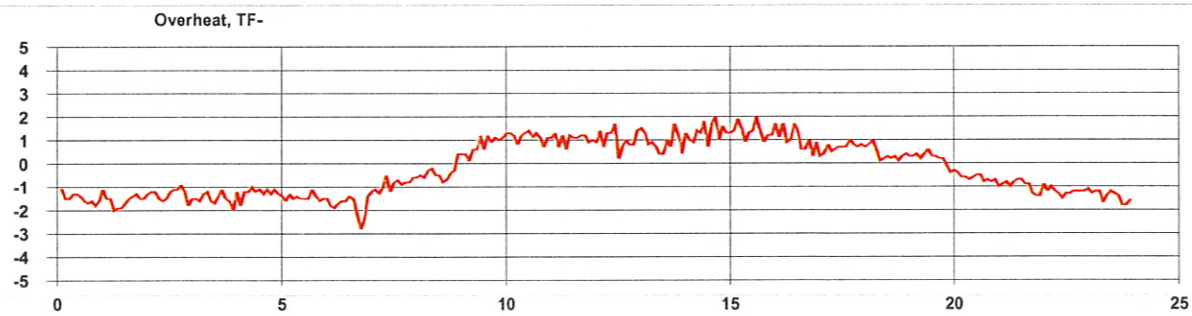
Mass Concentration Data:

Filter ID: 42
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.047 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-24-aug	0:05:08	593	10.8	9.4	-1.5	25	16.67
18-24-aug	1:05:08	593	11.4	9.8	-1.6	25	16.71
18-24-aug	2:05:08	593	10.8	9.5	-1.3	25	16.73
18-24-aug	3:05:08	593	10.7	9.2	-1.5	26	16.72
18-24-aug	4:05:08	592	10.1	8.8	-1.3	26	16.72
18-24-aug	5:05:08	593	10.2	8.8	-1.5	26	16.71
18-24-aug	6:05:08	593	11.5	9.7	-1.8	26	16.71
18-24-aug	7:05:08	593	15.4	14.6	-0.9	26	16.72
18-24-aug	8:05:08	593	18.6	18.3	-0.3	27	16.71
18-24-aug	9:05:08	594	20.2	21.1	0.8	28	16.74
18-24-aug	10:05:08	594	21.1	22.3	1.1	28	16.76
18-24-aug	11:05:08	593	22.0	23.1	1.0	28	16.73
18-24-aug	12:05:08	593	23.2	24.3	1.1	29	16.74
18-24-aug	13:05:08	593	23.4	24.3	0.9	29	16.77
18-24-aug	14:05:08	592	24.0	25.4	1.3	29	16.69
18-24-aug	15:05:08	592	24.1	25.5	1.4	29	16.79
18-24-aug	16:05:08	591	23.5	24.5	1.0	29	16.74
18-24-aug	17:05:08	591	23.7	24.4	0.7	29	16.72
18-24-aug	18:05:08	591	21.3	21.7	0.4	28	16.70
18-24-aug	19:05:08	591	17.0	17.1	0.2	28	16.71
18-24-aug	20:05:08	592	15.4	14.7	-0.7	28	16.71
18-24-aug	21:05:08	592	14.1	13.1	-1.0	28	16.71
18-24-aug	22:05:08	592	13.2	12.0	-1.2	27	16.72
18-24-aug	23:05:08	592	12.8	11.4	-1.4	27	16.71

BGI PQ200 Air Sampling System Downloaded 2018 31 aug 08:58:52

Job Details:

Job Name: 18Aug31B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6645:24
Flags:

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

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	27	8.9	17.6	°C
Q	---	---	16.71	Lpm

QCV 0.78 %
Max overheat 2 °C
occured 30-aug 14:43:09

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-30-aug	0:00:08
Stop:	18-31-aug	0:00:05

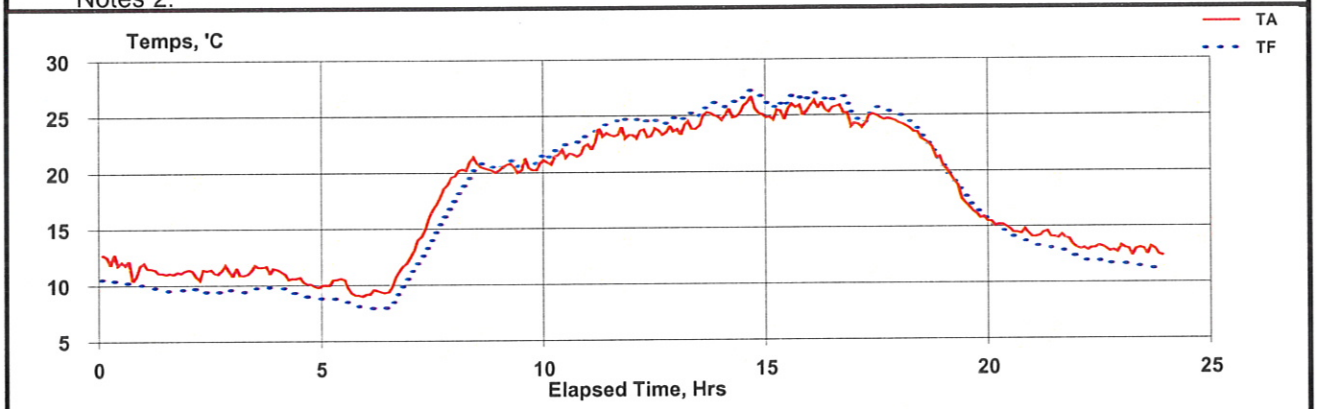
ET: 23:59

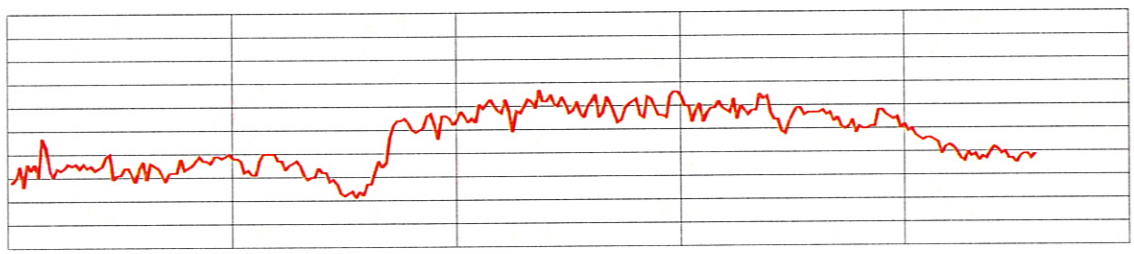
Mass Concentration Data:

Filter ID: 5
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.019 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:





18-30-aug	0:05:08	593	11.9	10.3	-1.6	26	16.71
18-30-aug	1:05:08	594	11.2	9.7	-1.6	26	16.70
18-30-aug	2:05:08	593	11.2	9.5	-1.6	26	16.70
18-30-aug	3:05:08	593	11.4	9.6	-1.7	26	16.73
18-30-aug	4:05:08	593	10.4	9.2	-1.2	26	16.76
18-30-aug	5:05:08	593	9.8	8.4	-1.4	26	16.77
18-30-aug	6:05:08	593	10.4	8.7	-1.7	26	16.73
18-30-aug	7:05:08	594	16.7	14.3	-2.5	26	16.69
18-30-aug	8:05:08	594	20.5	19.9	-0.6	28	16.70
18-30-aug	9:05:08	594	20.6	20.8	0.3	28	16.74
18-30-aug	10:05:08	594	21.6	22.4	0.8	28	16.75
18-30-aug	11:05:08	594	23.2	24.2	1.0	28	16.76
18-30-aug	12:05:08	594	23.6	24.6	1.0	29	16.78
18-30-aug	13:05:08	594	24.5	25.4	0.9	29	16.65
18-30-aug	14:05:08	593	25.4	26.5	1.0	29	16.75
18-30-aug	15:05:08	593	25.4	26.2	0.8	29	16.54
18-30-aug	16:05:08	592	25.4	26.4	0.9	29	16.64
18-30-aug	17:05:08	592	24.6	25.1	0.5	29	16.76
18-30-aug	18:05:08	592	22.7	23.0	0.3	29	16.72
18-30-aug	19:05:08	592	17.4	17.7	0.3	28	16.73
18-30-aug	20:05:08	592	14.8	14.3	-0.5	28	16.71
18-30-aug	21:05:08	592	14.0	12.9	-1.1	28	16.73
18-30-aug	22:05:08	592	13.0	11.8	-1.2	27	16.69
18-30-aug	23:05:08	592	12.8	11.3	-1.5	27	16.68

BGI PQ200 Air Sampling System Downloaded 2018_07 sep_14:09:34

Job Details:

Job Name: 18Sep07B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6669:23
Flags:

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

	Max	Min	Avg	Units
BP	596	591	594	mmHg
TA	22.5	8.5	14.2	°C
Q	---	---	16.72	Lpm

QCV 0.92 %
Max overheat 2.8 °C
occured 06-sep 13:55:12

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-05-sep	0:00:08
Stop:	18-06-sep	0:00:04

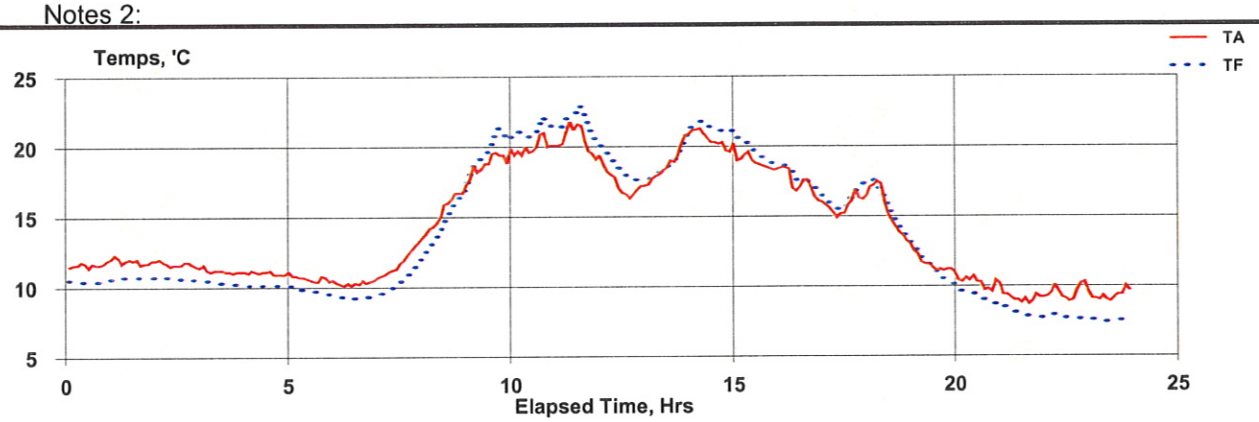
ET: 23:59

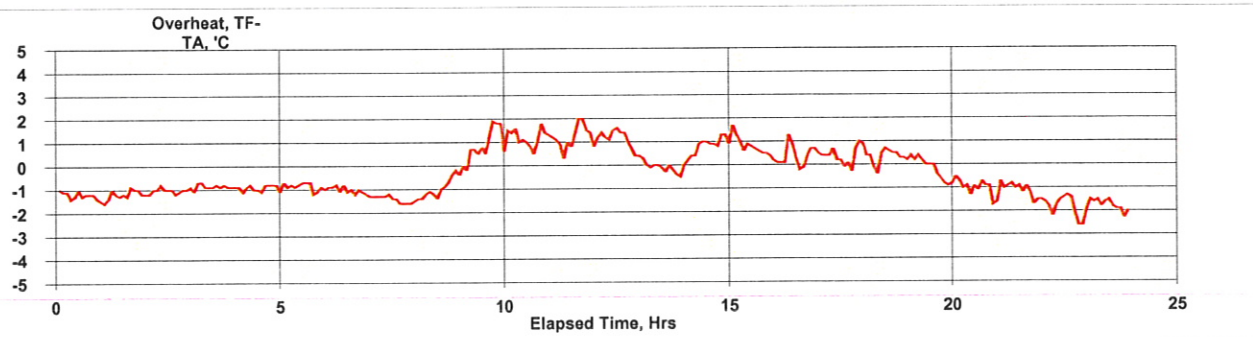
Mass Concentration Data:

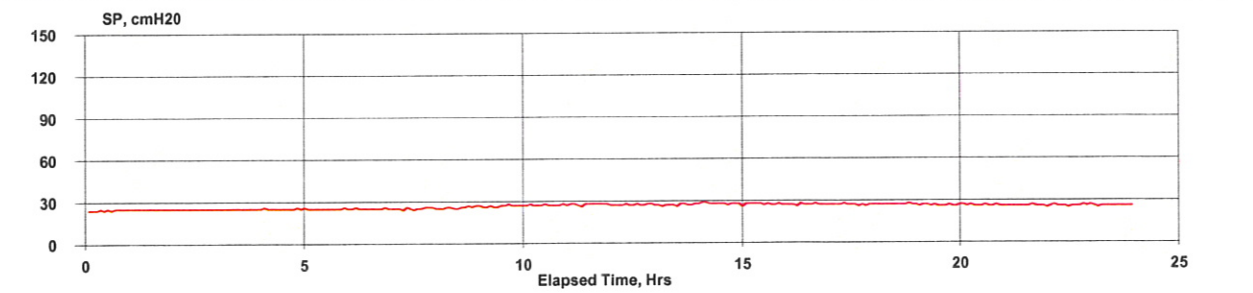
Filter ID: 12
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.034 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-05-sep	0:05:08	593	11.7	10.5	-1.2	25	16.69
18-05-sep	1:05:08	593	11.9	10.7	-1.2	25	16.71
18-05-sep	2:05:08	593	11.7	10.6	-1.0	25	16.71
18-05-sep	3:05:08	593	11.2	10.3	-0.9	25	16.70
18-05-sep	4:05:08	593	11.0	10.1	-0.9	25	16.69
18-05-sep	5:05:08	593	10.6	9.7	-0.9	25	16.71
18-05-sep	6:05:08	594	10.3	9.3	-1.0	25	16.73
18-05-sep	7:05:08	594	12.0	10.5	-1.4	25	16.61
18-05-sep	8:05:08	595	15.6	14.7	-0.9	26	16.66
18-05-sep	9:05:08	595	18.9	19.8	0.9	27	16.63
18-05-sep	10:05:08	595	20.0	21.2	1.2	27	16.75
18-05-sep	11:05:08	595	20.5	21.7	1.2	28	16.75
18-05-sep	12:05:08	595	17.3	18.4	1.1	27	16.75
18-05-sep	13:05:08	595	18.9	18.8	-0.1	27	16.75
18-05-sep	14:05:08	595	20.5	21.3	0.8	28	16.81
18-05-sep	15:05:08	595	18.8	19.6	0.8	28	16.84
18-05-sep	16:05:08	595	17.3	17.7	0.4	27	16.72
18-05-sep	17:05:08	595	15.8	16.2	0.4	27	16.68
18-05-sep	18:05:08	595	15.2	15.5	0.3	27	16.79
18-05-sep	19:05:08	594	11.5	11.3	-0.2	26	16.79
18-05-sep	20:05:08	595	10.2	9.2	-1.0	26	16.75
18-05-sep	21:05:08	595	9.1	8.0	-1.1	26	16.74
18-05-sep	22:05:08	595	9.5	7.7	-1.8	26	16.79
18-05-sep	23:05:08	595	9.3	7.5	-1.8	26	16.75

BGI PQ200 Air Sampling System Downloaded 2018 13 sep 11:36:03

Job Details:

Job Name: 18Sep13B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6693:22
Flags:

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

	Max	Min	Avg	Units
BP	592	588	590	mmHg
TA	27.2	8.9	17.5	°C
Q	---	---	16.66	Lpm

QCV 0.7 %
Max overheat 2.2 °C
occured 11-sep 14:04:17

Timer Information:

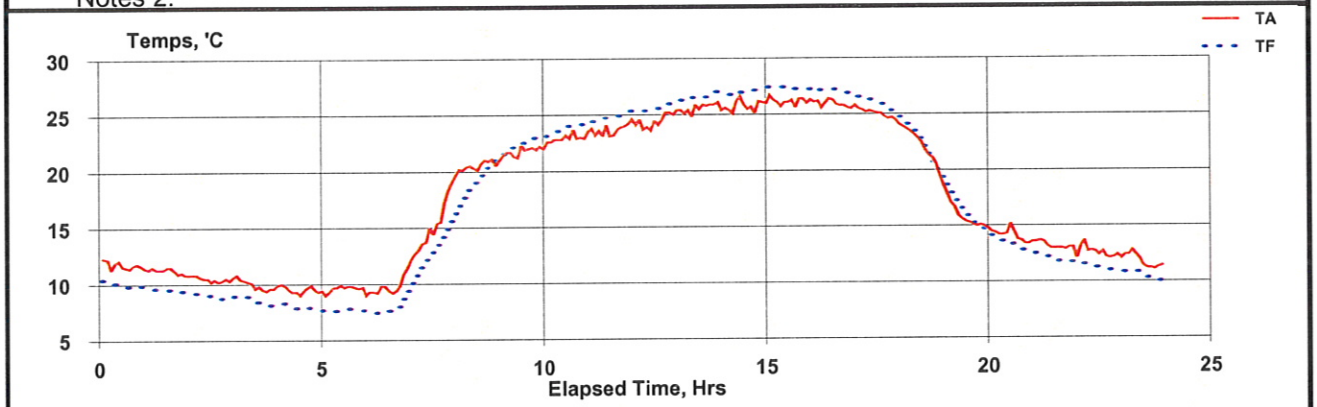
	Date dd-mmm	Time hh:mm:ss
Start:	18-11-sep	0:00:08
Stop:	18-12-sep	0:00:05

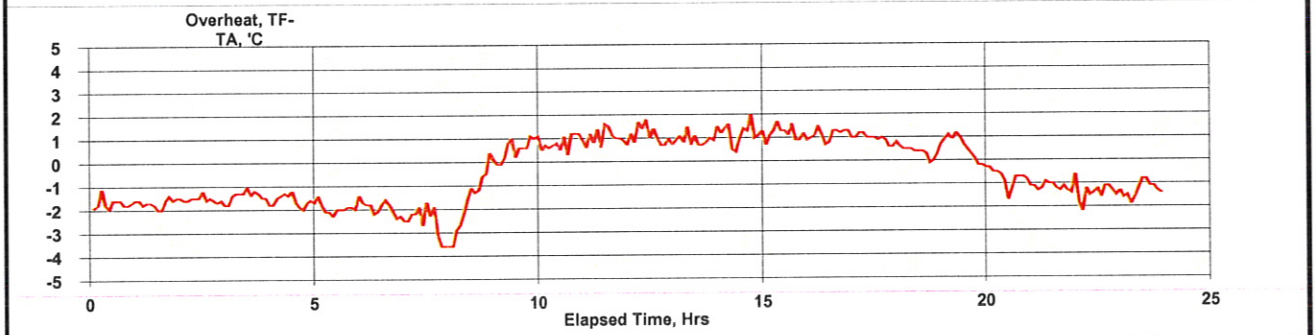
ET: 23:59

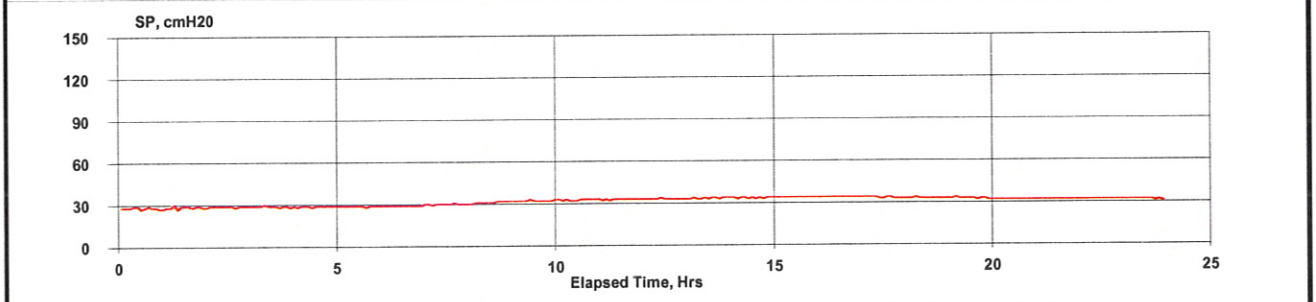
Mass Concentration Data:

Filter ID:	24	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	23.954	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-11-sep	0:05:08	590	11.7	10.0	-1.7	28	16.55
18-11-sep	1:05:08	591	11.2	9.5	-1.7	29	16.46
18-11-sep	2:05:08	591	10.5	8.9	-1.6	29	16.65
18-11-sep	3:05:08	591	9.9	8.5	-1.4	29	16.63
18-11-sep	4:05:08	591	9.5	7.9	-1.6	29	16.66
18-11-sep	5:05:08	591	9.6	7.7	-1.9	29	16.66
18-11-sep	6:05:08	591	10.0	8.0	-2.0	29	16.72
18-11-sep	7:05:08	591	15.6	13.0	-2.6	30	16.72
18-11-sep	8:05:08	591	20.6	19.1	-1.4	31	16.71
18-11-sep	9:05:08	592	21.8	22.4	0.6	32	16.69
18-11-sep	10:05:08	592	23.0	23.8	0.8	33	16.71
18-11-sep	11:05:08	591	23.7	24.7	1.0	33	16.68
18-11-sep	12:05:08	591	24.5	25.6	1.1	33	16.58
18-11-sep	13:05:08	591	25.6	26.6	1.0	34	16.60
18-11-sep	14:05:08	590	25.8	27.0	1.2	34	16.62
18-11-sep	15:05:08	590	26.2	27.3	1.2	34	16.69
18-11-sep	16:05:08	590	25.9	27.1	1.1	34	16.67
18-11-sep	17:05:08	589	25.0	25.9	0.9	34	16.65
18-11-sep	18:05:08	589	21.9	22.3	0.4	33	16.64
18-11-sep	19:05:08	589	15.7	16.2	0.5	33	16.71
18-11-sep	20:05:08	589	14.1	13.3	-0.8	32	16.67
18-11-sep	21:05:08	590	13.1	12.0	-1.1	32	16.69
18-11-sep	22:05:08	590	12.6	11.2	-1.4	32	16.69
18-11-sep	23:05:08	590	11.8	10.5	-1.3	32	16.70

BGI PQ200 Air Sampling System Downloaded 2018 18 sep 10:55:49

Job Details:

Job Name: 18Sep18B.JOB
Version: 5.62
Serial No: 963
Pump Time: 6717:21
Flags:

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

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	27.1	10	17.9	°C
Q	---	---	16.72	Lpm

QCV 0.58 %
Max overheat 2.4 °C
occured 17-sep 14:35:52

Timer Information:

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

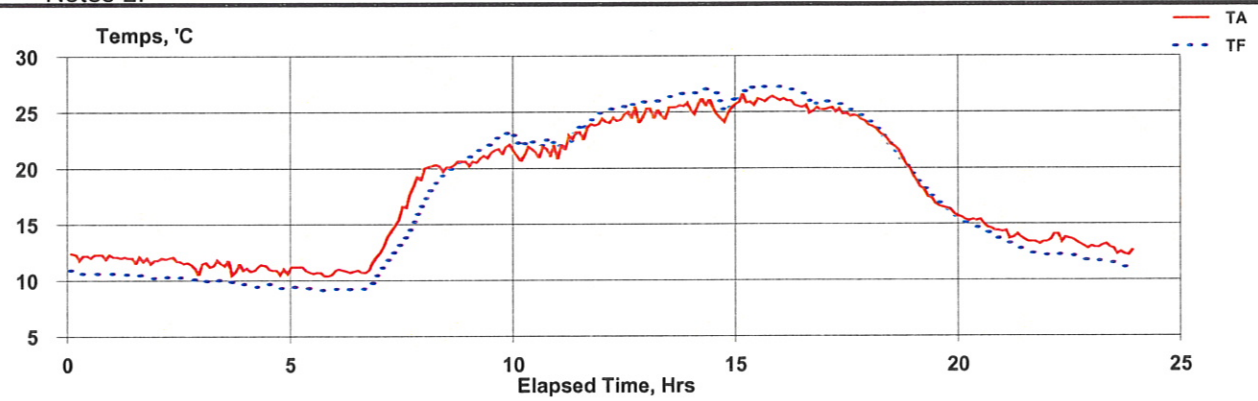
ET: 23:59

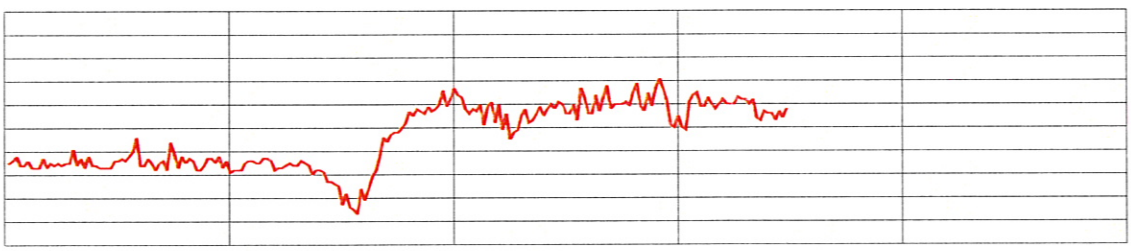
Mass Concentration Data:

Filter ID: 14
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.039 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:





18-17-sep	0:05:08	592	12.2	10.7	-1.5	25	16.66
18-17-sep	1:05:08	592	11.9	10.4	-1.5	25	16.69
18-17-sep	2:05:08	592	11.6	10.2	-1.4	25	16.73
18-17-sep	3:05:08	592	11.3	9.9	-1.4	25	16.70
18-17-sep	4:05:08	592	11.0	9.5	-1.5	25	16.74
18-17-sep	5:05:08	592	10.8	9.2	-1.5	25	16.72
18-17-sep	6:05:08	592	11.1	9.5	-1.7	25	16.71
18-17-sep	7:05:08	593	16.6	13.8	-2.8	26	16.68
18-17-sep	8:05:08	593	20.3	19.5	-0.7	27	16.71
18-17-sep	9:05:08	593	21.3	22.2	0.9	28	16.73
18-17-sep	10:05:08	593	21.4	22.2	0.8	28	16.71
18-17-sep	11:05:08	593	23.1	23.4	0.3	28	16.72
18-17-sep	12:05:08	593	24.6	25.5	0.9	28	16.79
18-17-sep	13:05:08	592	25.2	26.3	1.1	29	16.77
18-17-sep	14:05:08	592	25.2	26.3	1.1	29	16.74
18-17-sep	15:05:08	591	26.1	27.0	0.9	29	16.73
18-17-sep	16:05:08	591	25.5	26.4	0.9	29	16.73
18-17-sep	17:05:08	591	24.7	25.2	0.5	28	16.73
18-17-sep	18:05:08	591	21.8	21.9	0.1	28	16.75
18-17-sep	19:05:08	591	17.0	17.2	0.2	28	16.74
18-17-sep	20:05:08	591	15.0	14.5	-0.5	27	16.73
18-17-sep	21:05:08	591	13.6	12.7	-1.0	27	16.72
18-17-sep	22:05:08	591	13.5	12.1	-1.4	27	16.70
18-17-sep	23:05:08	591	12.7	11.4	-1.3	27	16.71

BGI PQ200 Air Sampling System Downloaded 2018 25 sep 13:36:13

Job Details:

Job Name:	18Sep25B.JOB
Version:	5.62
Serial No:	963
Pump Time:	6717:24
Flags:	Q T

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

	Max	Min	Avg	Units
BP	592	590	590	mmHg
TA	12.3	11.6	12.3	°C
Q	---	---	0	Lpm

QCV	0 %
Max overheat	2.2 °C
occured	24-sep 13:47:15

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-23-sep	0:00:08
Stop:	18-24-sep	0:00:05
ET:	0:03	

Mass Concentration Data:

Filter ID:	38	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	0.01	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:

yy-dd-mmm	hh:mm:ss	mmHg	°C	°C	°C	cmH2O	aLpm

Collocated Monitor 964C

PM_{10} Sampler Summary

July 1, 2018 - September 30, 2018

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

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
07/01/18	P2948706	**9.0**	**11.3**	24:00	24.0	19.0	390.3320	390.5487	0.2167		
07/07/18	P2948711	**Invalid - AQ**	**Invalid - AQ**	24:01	24.0	18.8	392.4690	392.9538	0.4848	CI	
07/13/18	P2948717	**16.1**	**20.1**	23:27	23.4	18.7	390.6380	391.0159	0.3779	FE	
07/19/18	P2948950	**Invalid - AN**	**Invalid - AN**	0:05	0.1	0.1	395.2159	395.2287	0.0128	SP,FE,CV	
07/25/18	P2948956	**Invalid - AN**	**Invalid - AN**	0:04	0.1	0.1	392.0671	392.0806	0.0135	SP,FE	
07/31/18	P2949157	**Invalid - AN**	**Invalid - AN**	22:46	22.8	18.0	391.6869	392.3139	0.6270	SP,FE	
08/06/18	P2949162	**38.9**	**49.1**	23:59	24.0	19.0	397.8629	398.7984	0.9355		
08/12/18	P2949401	**10.0**	**12.6**	23:59	24.0	19.2	391.5548	391.7975	0.2427		
08/18/18	P2949406	**12.2**	**15.3**	23:59	24.0	19.1	395.6267	395.9202	0.2935		
08/24/18	P2949411	**58.2**	**72.5**	23:49	23.8	19.1	388.5952	389.9843	1.3891	HT	
08/30/18	P2949632	**8.7**	**10.9**	23:59	24.0	19.3	396.3817	396.5926	0.2109	HT	
09/05/18	P2949637	**6.8**	**8.3**	23:25	23.5	19.1	394.0313	394.1913	0.1600	FE	
09/11/18	P2949884	**34.4**	**43.1**	23:59	24.0	19.2	391.7225	392.5501	0.8276		
09/17/18	P2950117	**Invalid - AN**	**Invalid - AN**	22:31	22.6	18.0	391.1037	391.6711	0.5674	SP,FE	
09/23/18	P2949890	**Invalid - AN**	**Invalid - AN**	7:13	7.2	6.0	396.4955	396.5513	0.0558	SP,FE	
09/29/18	P2950120	**Invalid - AG**	**Invalid - AG**	6:43	6.7	5.4	393.5365	394.9093	1.3728	SP	
09/18/18	P2949887		**Field Blank**				395.1453	395.1917	0.0464	FBout	Particle

# Valid	Recovery	Average	St. Dev.	Max	Min
9	**56%**	**27.0**	**22.5**	**72.5**	**8.3**

BGI PQ200 Air Sampling System Downloaded 2018 03 jul 10:23:09

Job Details:

Job Name: 18Jul03C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1532:25
Flags:

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	31.8	11.6	21.4	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 2.7 °C
occured 01-jul 10:36:02

Timer Information:

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

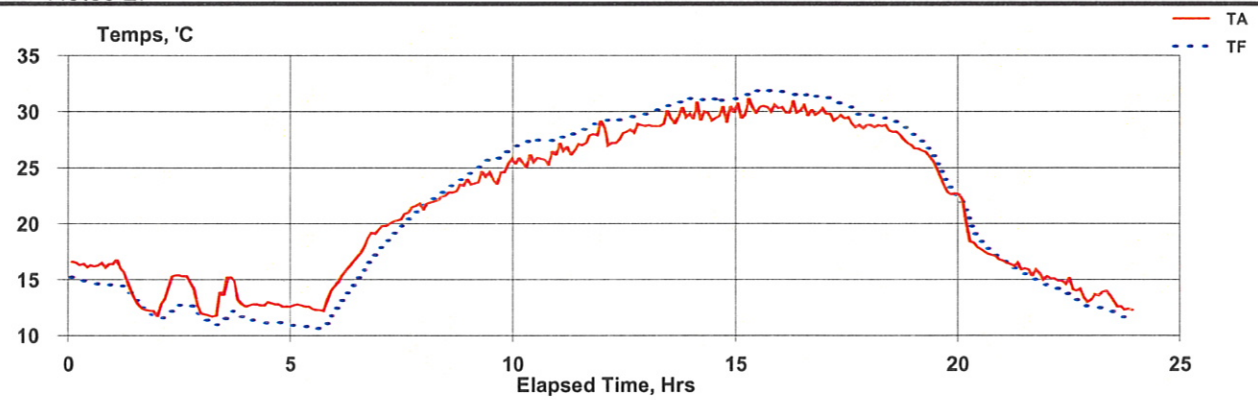
ET: 24:00:00

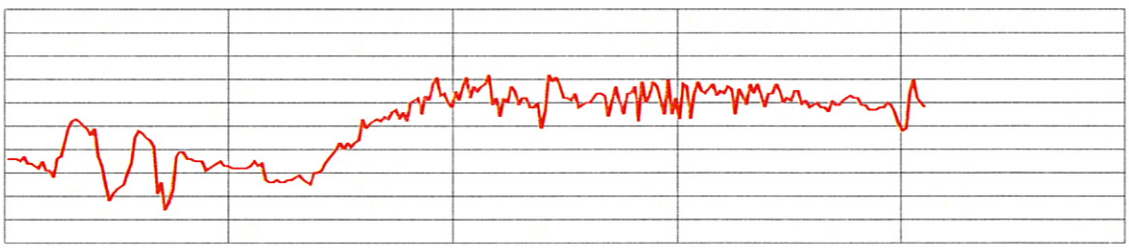
Mass Concentration Data:

Filter ID: 19
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-01-jul	0:04:39	594	16.3	14.8	-1.6	30	16.71
18-01-jul	1:04:39	594	13.7	13.2	-0.5	31	16.71
18-01-jul	2:04:39	594	14.2	12.3	-2.0	31	16.71
18-01-jul	3:04:39	594	13.2	11.5	-1.7	31	16.71
18-01-jul	4:04:39	595	12.8	11.2	-1.6	31	16.71
18-01-jul	5:04:39	595	12.9	11.0	-1.9	31	16.71
18-01-jul	6:04:39	595	17.3	15.0	-2.3	31	16.71
18-01-jul	7:04:39	596	20.7	19.8	-0.9	32	16.71
18-01-jul	8:04:39	596	22.7	23.0	0.3	33	16.71
18-01-jul	9:04:39	596	24.3	25.6	1.2	33	16.70
18-01-jul	10:04:39	596	25.7	27.3	1.6	34	16.70
18-01-jul	11:04:39	595	27.3	28.3	1.0	34	16.71
18-01-jul	12:04:39	595	28.1	29.4	1.3	34	16.70
18-01-jul	13:04:39	595	29.3	30.4	1.2	35	16.71
18-01-jul	14:04:39	594	29.8	31.0	1.3	35	16.71
18-01-jul	15:04:39	594	30.3	31.7	1.4	35	16.72
18-01-jul	16:04:39	593	30.1	31.5	1.3	35	16.72
18-01-jul	17:04:39	594	29.2	30.5	1.3	35	16.71
18-01-jul	18:04:39	594	28.2	29.2	1.0	35	16.71
18-01-jul	19:04:39	594	24.9	25.7	0.8	35	16.71
18-01-jul	20:04:39	594	18.6	19.3	0.7	35	16.71
18-01-jul	21:04:39	595	16.0	15.7	-0.3	35	16.71
18-01-jul	22:04:39	595	14.5	13.6	-0.8	35	16.72
18-01-jul	23:04:39	595	13.1	12.1	-1.1	34	16.71

BGI PQ200 Air Sampling System Downloaded 2018 09 jul 09:33:56

Job Details:

Job Name: 18Jul09C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1812:26
Flags:

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

	Max	Min	Avg	Units
BP	594	594	594	mmHg
TA	24.2	24.2	24.2	°C
Q	---	---	16.69	Lpm

QCV 0 %
Max overheat 0 °C
occured 00-00:00:00 Code:007

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	16-10-oct	10:10:10
Stop:	16-10-oct	10:10:10

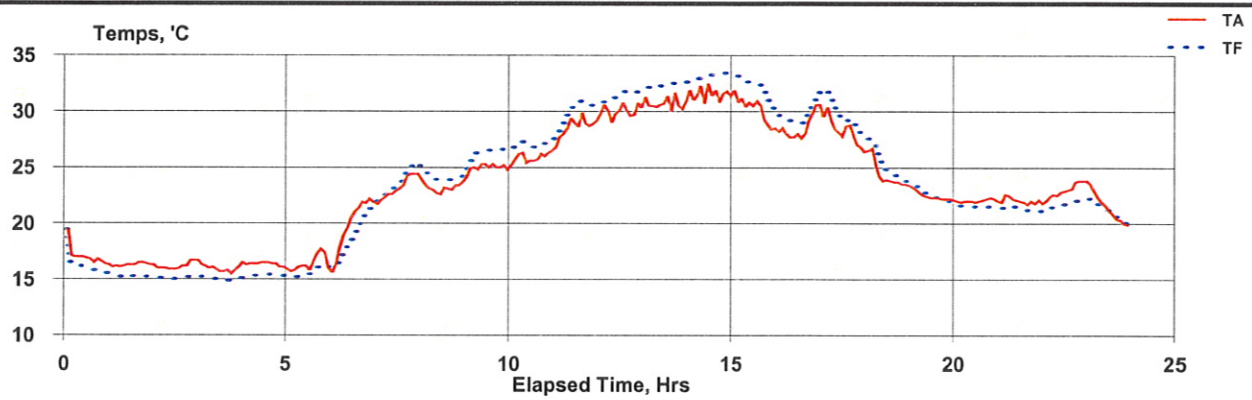
ET: 24:01:00

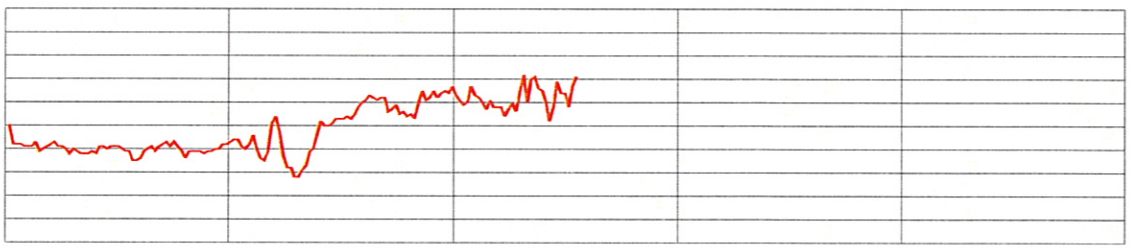
Mass Concentration Data:

Filter ID: 30
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.045 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-08-jul	0:07:05	597	19.4	19.4	0.0	0	16.72
18-07-jul	0:10:08	598	17.1	16.3	-0.8	30	16.70
18-07-jul	0:15:08	598	17.0	16.2	-0.8	29	16.70
18-07-jul	0:20:08	598	17.0	16.2	-0.8	29	16.70
18-07-jul	0:25:08	598	17.0	16.1	-0.9	30	16.72
18-07-jul	0:30:08	598	16.9	16.0	-0.9	30	16.72
18-07-jul	0:35:08	598	16.8	15.9	-0.9	30	16.70
18-07-jul	0:40:08	598	16.5	15.8	-0.7	30	16.72
18-07-jul	0:45:08	598	16.8	15.7	-1.1	30	16.72
18-07-jul	0:50:08	598	16.6	15.6	-1.0	30	16.72
18-07-jul	0:55:08	598	16.4	15.5	-0.9	30	16.72
18-07-jul	1:00:08	598	16.3	15.5	-0.8	30	16.70
18-07-jul	1:05:08	598	16.1	15.4	-0.7	30	16.70
18-07-jul	1:10:08	598	16.2	15.3	-0.9	30	16.72
18-07-jul	1:15:08	598	16.1	15.2	-0.9	30	16.72
18-07-jul	1:20:08	598	16.2	15.2	-1.0	30	16.72
18-07-jul	1:25:08	598	16.3	15.1	-1.2	30	16.70
18-07-jul	1:30:08	598	16.3	15.3	-1.0	30	16.70
18-07-jul	1:35:08	598	16.3	15.2	-1.1	30	16.70
18-07-jul	1:40:08	598	16.5	15.3	-1.2	30	16.70
18-07-jul	1:45:08	598	16.5	15.3	-1.2	30	16.72
18-07-jul	1:50:08	598	16.4	15.2	-1.2	30	16.72
18-07-jul	1:55:08	598	16.3	15.2	-1.1	30	16.70
18-07-jul	2:00:08	598	16.3	15.1	-1.2	30	16.72
18-07-jul	2:05:08	598	16.0	15.1	-0.9	30	16.70
18-07-jul	2:10:08	598	16.0	15.1	-0.9	30	16.70
18-07-jul	2:15:08	598	16.0	15.0	-1.0	30	16.70
18-07-jul	2:20:08	598	15.9	15.0	-0.9	30	16.70
18-07-jul	2:25:08	598	15.9	15.0	-0.9	30	16.67
18-07-jul	2:30:08	598	15.9	15.0	-0.9	31	16.72
18-07-jul	2:35:08	598	16.0	15.0	-1.0	30	16.70
18-07-jul	2:40:08	598	16.2	15.1	-1.1	30	16.72
18-07-jul	2:45:08	598	16.2	15.1	-1.1	30	16.70
18-07-jul	2:50:08	598	16.7	15.2	-1.5	31	16.70
18-07-jul	2:55:08	598	16.7	15.2	-1.5	31	16.72
18-07-jul	3:00:08	598	16.7	15.3	-1.4	30	16.72
18-07-jul	3:05:08	598	16.3	15.2	-1.1	30	16.72
18-07-jul	3:10:08	598	16.2	15.2	-1.0	30	16.70
18-07-jul	3:15:08	598	16.0	15.1	-0.9	30	16.72
18-07-jul	3:20:08	598	16.1	15.0	-1.1	30	16.70
18-07-jul	3:25:08	598	15.9	15.0	-0.9	30	16.70
18-07-jul	3:30:08	598	15.7	14.9	-0.8	31	16.72
18-07-jul	3:35:08	598	15.7	15.0	-0.7	31	16.70
18-07-jul	3:40:08	598	15.8	14.9	-0.9	30	16.72
18-07-jul	3:45:08	598	15.5	14.8	-0.7	30	16.72
18-07-jul	3:50:08	598	15.8	14.9	-0.9	30	16.70
18-07-jul	3:55:08	598	16.1	15.0	-1.1	30	16.72
18-07-jul	4:00:08	598	16.5	15.1	-1.4	31	16.72
18-07-jul	4:05:08	598	16.3	15.2	-1.1	30	16.67
18-07-jul	4:10:08	598	16.4	15.3	-1.1	30	16.70

18-07-jul	4:15:08	598	16.4	15.3	-1.1	30	16.70
18-07-jul	4:20:08	598	16.4	15.3	-1.1	30	16.70
18-07-jul	4:25:08	598	16.5	15.3	-1.2	30	16.72
18-07-jul	4:30:08	598	16.5	15.4	-1.1	31	16.72
18-07-jul	4:35:08	598	16.5	15.4	-1.1	30	16.70
18-07-jul	4:40:08	598	16.4	15.4	-1.0	30	16.72
18-07-jul	4:45:08	598	16.4	15.4	-1.0	30	16.72
18-07-jul	4:50:08	598	16.1	15.3	-0.8	31	16.70
18-07-jul	4:55:08	598	16.1	15.3	-0.8	30	16.72
18-07-jul	5:00:08	598	15.9	15.2	-0.7	31	16.70
18-07-jul	5:05:08	598	15.7	15.1	-0.6	31	16.72
18-07-jul	5:10:08	598	15.8	15.2	-0.6	31	16.70
18-07-jul	5:15:08	598	16.1	15.2	-0.9	30	16.72
18-07-jul	5:20:08	598	16.2	15.2	-1.0	30	16.72
18-07-jul	5:25:08	599	16.2	15.4	-0.8	31	16.72
18-07-jul	5:30:08	599	15.8	15.4	-0.4	31	16.72
18-07-jul	5:35:08	599	16.6	15.6	-1.0	30	16.70
18-07-jul	5:40:08	599	17.3	15.9	-1.4	31	16.72
18-07-jul	5:45:08	599	17.7	16.2	-1.5	31	16.70
18-07-jul	5:50:08	599	17.4	16.3	-1.1	31	16.72
18-07-jul	5:55:08	599	16.0	16.1	0.1	31	16.80
18-07-jul	6:00:08	599	15.6	16.0	0.4	31	16.72
18-07-jul	6:05:08	599	16.4	16.1	-0.3	31	16.72
18-07-jul	6:10:08	599	17.8	16.5	-1.3	31	16.72
18-07-jul	6:15:08	599	19.0	17.2	-1.8	30	16.72
18-07-jul	6:20:08	599	19.6	17.8	-1.8	31	16.70
18-07-jul	6:25:08	599	20.5	18.3	-2.2	31	16.72
18-07-jul	6:30:08	599	21.1	18.9	-2.2	31	16.70
18-07-jul	6:35:08	599	21.4	19.5	-1.9	31	16.70
18-07-jul	6:40:08	599	21.9	20.2	-1.7	31	16.72
18-07-jul	6:45:08	599	21.8	20.7	-1.1	31	16.72
18-07-jul	6:50:08	599	22.2	21.2	-1.0	31	16.72
18-07-jul	6:55:08	599	21.9	21.5	-0.4	31	16.70
18-07-jul	7:00:08	599	21.7	21.9	0.2	31	16.72
18-07-jul	7:05:08	599	22.1	22.1	0.0	31	16.67
18-07-jul	7:10:08	599	22.3	22.3	0.0	31	16.70
18-07-jul	7:15:08	599	22.6	22.7	0.1	31	16.70
18-07-jul	7:20:08	599	22.6	22.9	0.3	32	16.70
18-07-jul	7:25:08	599	22.9	23.2	0.3	32	16.70
18-07-jul	7:30:08	599	23.1	23.4	0.3	32	16.72
18-07-jul	7:35:08	599	23.4	23.8	0.4	32	16.70
18-07-jul	7:40:08	599	24.2	24.5	0.3	32	16.72
18-07-jul	7:45:08	599	24.4	24.9	0.5	31	16.70
18-07-jul	7:50:08	599	24.4	25.2	0.8	32	16.70
18-07-jul	7:55:08	599	24.4	25.4	1.0	32	16.67
18-07-jul	8:00:08	599	23.9	25.0	1.1	32	16.65
18-07-jul	8:05:08	599	23.4	24.7	1.3	32	16.70
18-07-jul	8:10:08	599	23.1	24.3	1.2	32	16.72
18-07-jul	8:15:08	599	23.0	24.1	1.1	32	16.72
18-07-jul	8:20:08	599	22.7	23.9	1.2	32	16.70

18-07-jul	8:25:08	599	22.6	23.8	1.2	32	16.70
18-07-jul	8:30:08	599	23.2	23.8	0.6	32	16.72
18-07-jul	8:35:08	599	23.1	23.8	0.7	32	16.70
18-07-jul	8:40:08	599	23.0	23.9	0.9	32	16.70
18-07-jul	8:45:08	599	23.4	23.9	0.5	32	16.72
18-07-jul	8:50:08	599	23.4	24.0	0.6	32	16.70
18-07-jul	8:55:08	599	23.7	24.1	0.4	32	16.70
18-07-jul	9:00:08	599	24.1	24.6	0.5	32	16.70
18-07-jul	9:05:08	599	24.9	25.2	0.3	32	16.70
18-07-jul	9:10:08	599	25.0	26.0	1.0	32	16.72
18-07-jul	9:15:08	599	24.8	26.3	1.5	32	16.70
18-07-jul	9:20:08	599	25.3	26.4	1.1	32	16.72
18-07-jul	9:25:08	599	25.3	26.5	1.2	33	16.70
18-07-jul	9:30:08	599	25.0	26.5	1.5	33	16.70
18-07-jul	9:35:08	599	25.3	26.5	1.2	32	16.70
18-07-jul	9:40:08	599	25.0	26.4	1.4	33	16.72
18-07-jul	9:45:08	599	25.0	26.5	1.5	32	16.72
18-07-jul	9:50:08	599	25.2	26.6	1.4	33	16.70
18-07-jul	9:55:08	599	24.8	26.5	1.7	32	16.70
18-07-jul	10:00:08	599	25.2	26.5	1.3	33	16.72
18-07-jul	10:05:08	599	25.7	26.8	1.1	33	16.70
18-07-jul	10:10:08	599	26.2	27.1	0.9	32	16.72
18-07-jul	10:15:08	599	26.3	27.3	1.0	32	16.72
18-07-jul	10:20:08	599	25.4	27.1	1.7	33	16.70
18-07-jul	10:25:08	598	25.6	26.9	1.3	33	16.72
18-07-jul	10:30:08	599	25.6	26.8	1.2	32	16.70
18-07-jul	10:35:08	599	25.7	26.7	1.0	33	16.70
18-07-jul	10:40:08	599	26.2	26.9	0.7	32	16.72
18-07-jul	10:45:08	598	26.0	27.1	1.1	33	16.70
18-07-jul	10:50:08	599	26.3	27.1	0.8	33	16.72
18-07-jul	10:55:08	599	26.5	27.3	0.8	33	16.72
18-07-jul	11:00:08	598	26.8	27.6	0.8	33	16.70
18-07-jul	11:05:08	599	27.7	28.1	0.4	33	16.70
18-07-jul	11:10:08	599	28.0	28.7	0.7	33	16.75
18-07-jul	11:15:08	598	28.5	29.5	1.0	33	16.72
18-07-jul	11:20:08	598	29.4	30.0	0.6	33	16.70
18-07-jul	11:25:08	598	29.0	30.5	1.5	33	16.75
18-07-jul	11:30:08	598	28.6	30.8	2.2	33	16.72
18-07-jul	11:35:08	598	29.9	30.9	1.0	33	16.70
18-07-jul	11:40:08	598	28.9	30.9	2.0	33	16.67
18-07-jul	11:45:08	598	28.7	30.8	2.1	34	16.72
18-07-jul	11:50:08	598	28.9	30.5	1.6	33	16.70
18-07-jul	11:55:08	598	29.2	30.7	1.5	33	16.72
18-07-jul	12:00:08	598	29.8	30.8	1.0	33	16.72
18-07-jul	12:05:08	598	30.6	30.8	0.2	33	16.70
18-07-jul	12:10:08	597	30.1	30.9	0.8	34	16.70
18-07-jul	12:15:08	598	29.0	30.9	1.9	33	16.65
18-07-jul	12:20:08	598	29.8	31.2	1.4	33	16.72
18-07-jul	12:25:08	597	30.1	31.5	1.4	33	16.70
18-07-jul	12:30:08	597	30.8	31.6	0.8	34	16.70

18-07-jul	12:35:08	597	30.1	31.8	1.7	34	16.72
18-07-jul	12:40:08	597	29.6	31.7	2.1	34	16.72
18-07-jul	12:45:08	597	29.7	31.8	2.1	34	16.70
18-07-jul	12:50:08	597	30.8	31.7	0.9	34	16.72
18-07-jul	12:55:08	597	30.3	31.9	1.6	34	16.70
18-07-jul	13:00:08	597	31.3	32.0	0.7	33	16.72
18-07-jul	13:05:08	597	30.5	32.1	1.6	34	16.70
18-07-jul	13:10:08	597	30.5	32.2	1.7	34	16.70
18-07-jul	13:15:08	597	30.4	32.1	1.7	34	16.72
18-07-jul	13:20:08	597	30.6	32.3	1.7	34	16.70
18-07-jul	13:25:08	597	30.7	32.2	1.5	34	16.67
18-07-jul	13:30:08	597	31.4	32.3	0.9	33	16.70
18-07-jul	13:35:08	597	30.0	32.4	2.4	34	16.72
18-07-jul	13:40:08	597	31.7	32.5	0.8	33	16.72
18-07-jul	13:45:08	597	30.5	32.6	2.1	34	16.72
18-07-jul	13:50:08	597	30.2	32.5	2.3	34	16.70
18-07-jul	13:55:08	597	30.9	32.6	1.7	34	16.65
18-07-jul	14:00:08	597	31.9	32.6	0.7	34	16.72
18-07-jul	14:05:08	596	31.0	32.8	1.8	34	16.72
18-07-jul	14:10:08	596	31.4	32.9	1.5	33	16.70
18-07-jul	14:15:08	597	32.3	32.9	0.6	34	16.70
18-07-jul	14:20:08	597	30.7	33.1	2.4	34	16.70
18-07-jul	14:25:08	597	32.5	33.1	0.6	34	16.70
18-07-jul	14:30:08	596	31.4	33.2	1.8	34	16.70
18-07-jul	14:35:08	596	31.9	33.3	1.4	34	16.72
18-07-jul	14:40:08	596	30.8	33.4	2.6	34	16.70
18-07-jul	14:45:08	596	31.6	33.4	1.8	34	16.70
18-07-jul	14:50:08	596	31.8	33.4	1.6	34	16.67
18-07-jul	14:55:08	596	31.4	33.4	2.0	34	16.70
18-07-jul	15:00:08	596	31.9	33.4	1.5	34	16.67
18-07-jul	15:05:08	596	30.8	33.2	2.4	34	16.70
18-07-jul	15:10:08	596	31.2	33.0	1.8	34	16.72
18-07-jul	15:15:08	596	30.4	32.8	2.4	34	16.70
18-07-jul	15:20:08	596	30.8	32.6	1.8	34	16.72
18-07-jul	15:25:08	596	30.5	32.6	2.1	34	16.70
18-07-jul	15:30:08	596	30.9	32.4	1.5	34	16.70
18-07-jul	15:35:08	596	30.5	32.4	1.9	34	16.70
18-07-jul	15:40:08	596	29.3	32.2	2.9	34	16.70
18-07-jul	15:45:08	596	28.8	31.3	2.5	34	16.70
18-07-jul	15:50:08	596	28.4	30.6	2.2	34	16.70
18-07-jul	15:55:08	596	28.5	30.2	1.7	34	16.72
18-07-jul	16:00:08	596	28.2	29.7	1.5	34	16.72
18-07-jul	16:05:08	596	28.5	29.4	0.9	34	16.72
18-07-jul	16:10:08	596	28.0	29.3	1.3	34	16.70
18-07-jul	16:15:08	596	27.7	29.2	1.5	34	16.70
18-07-jul	16:20:08	596	27.7	29.0	1.3	34	16.72
18-07-jul	16:25:08	596	28.0	29.0	1.0	34	16.72
18-07-jul	16:30:08	596	27.6	28.9	1.3	34	16.70
18-07-jul	16:35:08	596	28.0	29.0	1.0	33	16.75
18-07-jul	16:40:08	596	29.2	29.8	0.6	33	16.70

18-07-jul	16:45:08	596	29.8	30.4	0.6	34	16.65
18-07-jul	16:50:08	596	30.6	31.0	0.4	34	16.70
18-07-jul	16:55:08	596	30.6	31.7	1.1	34	16.70
18-07-jul	17:00:08	596	29.5	31.6	2.1	34	16.70
18-07-jul	17:05:08	596	30.4	31.9	1.5	34	16.67
18-07-jul	17:10:08	596	29.2	31.4	2.2	34	16.67
18-07-jul	17:15:08	596	28.4	30.5	2.1	34	16.70
18-07-jul	17:20:08	596	28.1	29.9	1.8	34	16.70
18-07-jul	17:25:08	596	27.8	29.3	1.5	34	16.70
18-07-jul	17:30:08	596	28.7	29.1	0.4	34	16.70
18-07-jul	17:35:08	596	28.8	29.3	0.5	33	16.70
18-07-jul	17:40:08	596	27.8	29.2	1.4	34	16.70
18-07-jul	17:45:08	596	27.0	28.6	1.6	34	16.70
18-07-jul	17:50:08	596	26.8	28.1	1.3	34	16.70
18-07-jul	17:55:08	596	26.4	27.8	1.4	34	16.72
18-07-jul	18:00:08	596	26.5	27.6	1.1	34	16.72
18-07-jul	18:05:08	597	26.7	27.4	0.7	33	16.72
18-07-jul	18:10:08	597	25.2	27.2	2.0	34	16.70
18-07-jul	18:15:08	597	24.2	26.1	1.9	34	16.72
18-07-jul	18:20:08	597	23.8	25.3	1.5	34	16.70
18-07-jul	18:25:08	597	23.9	24.8	0.9	34	16.70
18-07-jul	18:30:08	597	23.8	24.6	0.8	34	16.72
18-07-jul	18:35:08	597	23.7	24.4	0.7	34	16.72
18-07-jul	18:40:08	597	23.7	24.2	0.5	34	16.70
18-07-jul	18:45:08	597	23.5	24.0	0.5	33	16.72
18-07-jul	18:50:08	597	23.5	23.8	0.3	33	16.70
18-07-jul	18:55:08	597	23.4	23.7	0.3	33	16.70
18-07-jul	19:00:08	597	23.2	23.6	0.4	33	16.70
18-07-jul	19:05:08	597	23.0	23.4	0.4	34	16.72
18-07-jul	19:10:08	597	22.7	23.2	0.5	34	16.72
18-07-jul	19:15:08	597	22.5	22.8	0.3	34	16.72
18-07-jul	19:20:08	597	22.4	22.7	0.3	33	16.72
18-07-jul	19:25:08	597	22.3	22.5	0.2	33	16.70
18-07-jul	19:30:08	597	22.3	22.3	0.0	33	16.72
18-07-jul	19:35:08	597	22.3	22.3	0.0	34	16.70
18-07-jul	19:40:08	597	22.2	22.1	-0.1	33	16.72
18-07-jul	19:45:08	597	22.2	22.0	-0.2	33	16.72
18-07-jul	19:50:08	597	22.2	22.0	-0.2	34	16.70
18-07-jul	19:55:08	598	22.1	21.8	-0.3	33	16.70
18-07-jul	20:00:08	597	22.0	21.7	-0.3	34	16.72
18-07-jul	20:05:08	597	21.9	21.6	-0.3	33	16.67
18-07-jul	20:10:08	597	22.0	21.6	-0.4	33	16.70
18-07-jul	20:15:08	597	22.0	21.6	-0.4	33	16.67
18-07-jul	20:20:08	597	22.0	21.5	-0.5	33	16.70
18-07-jul	20:25:08	598	21.9	21.5	-0.4	33	16.72
18-07-jul	20:30:08	597	22.0	21.4	-0.6	33	16.72
18-07-jul	20:35:08	598	22.1	21.5	-0.6	33	16.72
18-07-jul	20:40:08	598	22.2	21.5	-0.7	33	16.72
18-07-jul	20:45:08	598	22.3	21.5	-0.8	33	16.72
18-07-jul	20:50:08	598	22.2	21.5	-0.7	33	16.67

18-07-jul	20:55:08	597	22.0	21.4	-0.6	33	16.72
18-07-jul	21:00:08	598	21.9	21.4	-0.5	33	16.72
18-07-jul	21:05:08	598	22.6	21.4	-1.2	33	16.70
18-07-jul	21:10:08	597	22.5	21.6	-0.9	33	16.72
18-07-jul	21:15:08	597	22.2	21.5	-0.7	34	16.70
18-07-jul	21:20:08	597	22.1	21.5	-0.6	33	16.70
18-07-jul	21:25:08	598	22.0	21.3	-0.7	33	16.70
18-07-jul	21:30:08	598	21.9	21.2	-0.7	33	16.70
18-07-jul	21:35:08	597	21.7	21.2	-0.5	34	16.72
18-07-jul	21:40:08	597	22.0	21.2	-0.8	33	16.70
18-07-jul	21:45:08	597	21.8	21.1	-0.7	33	16.75
18-07-jul	21:50:08	597	22.1	21.2	-0.9	33	16.70
18-07-jul	21:55:08	597	21.8	21.1	-0.7	33	16.70
18-07-jul	22:00:08	597	22.0	21.2	-0.8	33	16.70
18-07-jul	22:05:08	597	22.4	21.2	-1.2	33	16.70
18-07-jul	22:10:08	597	22.6	21.5	-1.1	33	16.70
18-07-jul	22:15:08	597	22.5	21.5	-1.0	33	16.72
18-07-jul	22:20:08	597	22.8	21.5	-1.3	33	16.70
18-07-jul	22:25:08	597	22.9	21.7	-1.2	33	16.65
18-07-jul	22:30:08	597	23.0	21.7	-1.3	33	16.72
18-07-jul	22:35:08	597	23.1	21.8	-1.3	33	16.72
18-07-jul	22:40:08	597	23.7	21.9	-1.8	33	16.70
18-07-jul	22:45:08	597	23.8	22.1	-1.7	33	16.70
18-07-jul	22:50:08	597	23.8	22.2	-1.6	33	16.67
18-07-jul	22:55:08	597	23.8	22.3	-1.5	33	16.70
18-07-jul	23:00:08	597	23.5	22.2	-1.3	33	16.70
18-07-jul	23:05:08	597	22.9	22.2	-0.7	33	16.70
18-07-jul	23:10:08	597	22.3	21.8	-0.5	33	16.70
18-07-jul	23:15:08	597	21.9	21.6	-0.3	33	16.67
18-07-jul	23:20:08	597	21.6	21.4	-0.2	34	16.72
18-07-jul	23:25:08	597	21.1	21.2	0.1	33	16.72
18-07-jul	23:30:08	597	20.8	20.9	0.1	33	16.70
18-07-jul	23:35:08	597	20.4	20.7	0.3	33	16.70
18-07-jul	23:40:08	597	20.3	20.4	0.1	33	16.70
18-07-jul	23:45:08	596	20.0	20.2	0.2	33	16.70
18-07-jul	23:50:08	597	19.9	20.0	0.1	34	16.70

BGI PQ200 Air Sampling System Downloaded 2018 16 jul 13:57:18

Job Details:

Job Name: 18Jul16C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1835:53
Flags: Q T

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

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	29.7	11.2	19	°C
Q	---	---	16.7	Lpm

QCV 0.52 %

Max overheat 7 °C
occured 16-jul 13:08:34

Timer Information:

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

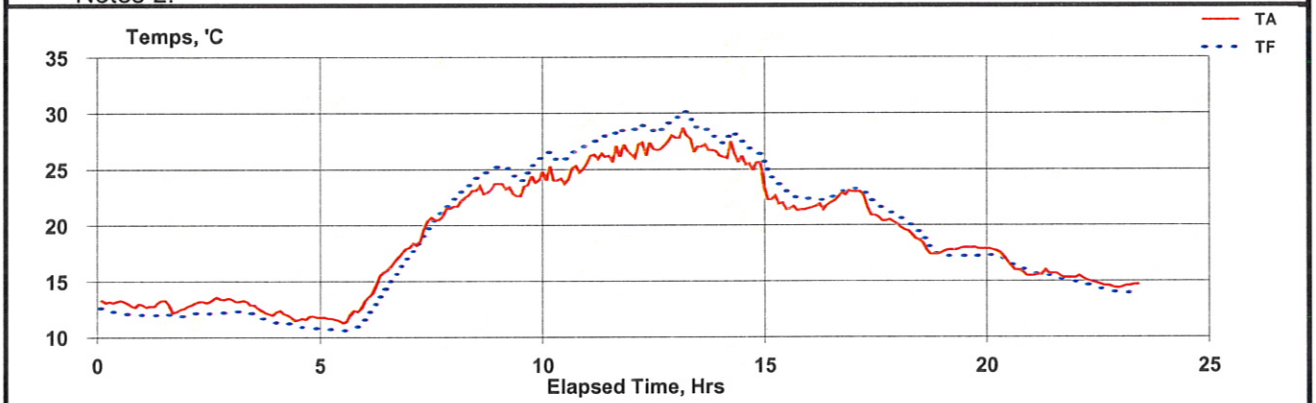
ET: 23:27

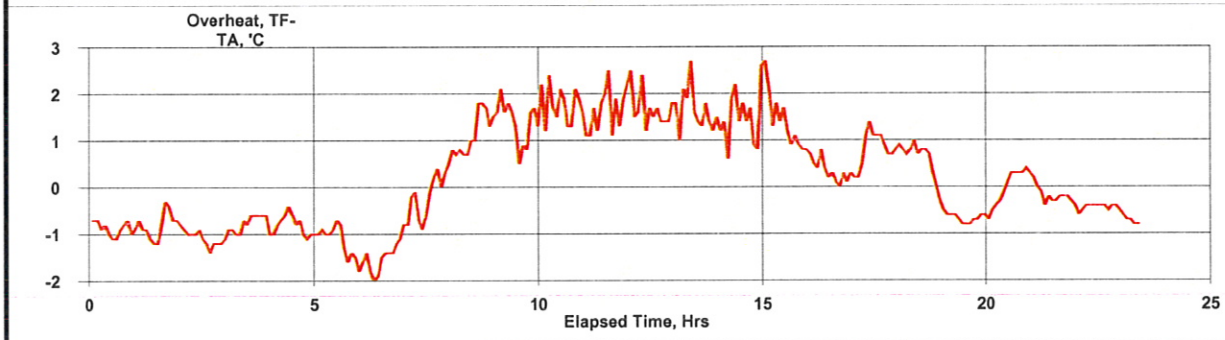
Mass Concentration Data:

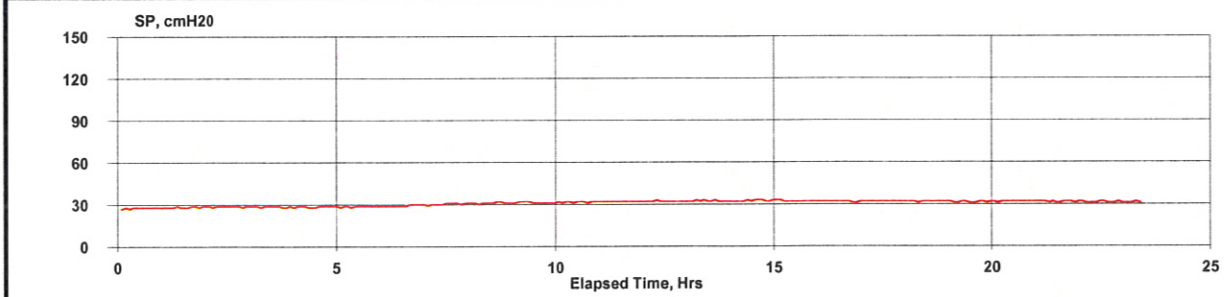
Filter ID: 35
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 23.421 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-13-jul	0:05:08	597	13.1	12.2	-0.9	28	16.70
18-13-jul	1:05:08	597	12.8	12.0	-0.8	28	16.71
18-13-jul	2:05:08	596	13.3	12.2	-1.1	29	16.70
18-13-jul	3:05:08	596	12.7	11.9	-0.8	29	16.71
18-13-jul	4:05:08	597	11.8	11.0	-0.8	29	16.72
18-13-jul	5:05:08	597	12.0	10.8	-1.2	29	16.72
18-13-jul	6:05:08	597	16.1	14.6	-1.5	29	16.71
18-13-jul	7:05:08	597	20.2	20.0	-0.2	30	16.72
18-13-jul	8:05:08	597	22.9	24.1	1.2	31	16.71
18-13-jul	9:05:08	597	23.5	24.9	1.4	31	16.71
18-13-jul	10:05:08	597	24.6	26.3	1.8	32	16.72
18-13-jul	11:05:08	597	26.3	28.0	1.7	32	16.70
18-13-jul	12:05:08	597	27.1	28.8	1.7	32	16.72
18-13-jul	13:05:08	596	27.2	28.8	1.6	32	16.72
18-13-jul	14:05:08	596	25.7	27.2	1.5	32	16.71
18-13-jul	15:05:08	596	21.8	23.2	1.4	32	16.71
18-13-jul	16:05:08	596	22.2	22.6	0.3	32	16.71
18-13-jul	17:05:08	596	21.2	22.0	0.8	32	16.71
18-13-jul	18:05:08	597	18.5	19.1	0.6	32	16.71
18-13-jul	19:05:08	597	17.9	17.2	-0.7	32	16.70
18-13-jul	20:05:08	597	16.7	16.7	0.0	32	16.71
18-13-jul	21:05:08	597	15.5	15.3	-0.2	32	16.71
18-13-jul	22:05:08	597	14.8	14.4	-0.4	31	16.71
18-13-jul	23:05:08	597	14.6	13.9	-0.7	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 20 jul 10:02:33

Job Details:

Job Name: 18Jul20C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1835:58
Flags: Q T

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

	Max	Min	Avg	Units
BP	597	594	595	mmHg
TA	16.9	16.2	16.6	°C
Q	---	---	15.8	Lpm

QCV 7 %
Max overheat 5.5 °C
occured 19-jul 12:48:31

Timer Information:

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

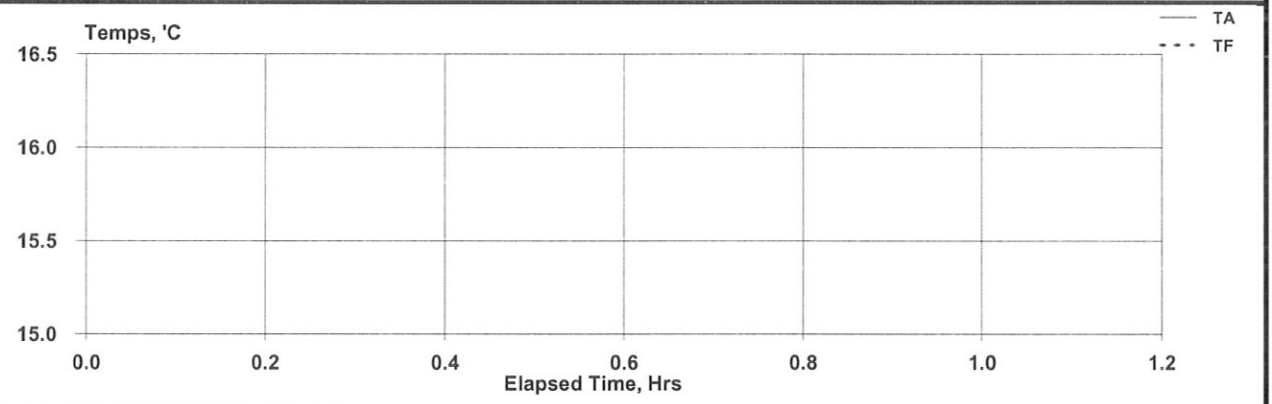
ET: 0:05

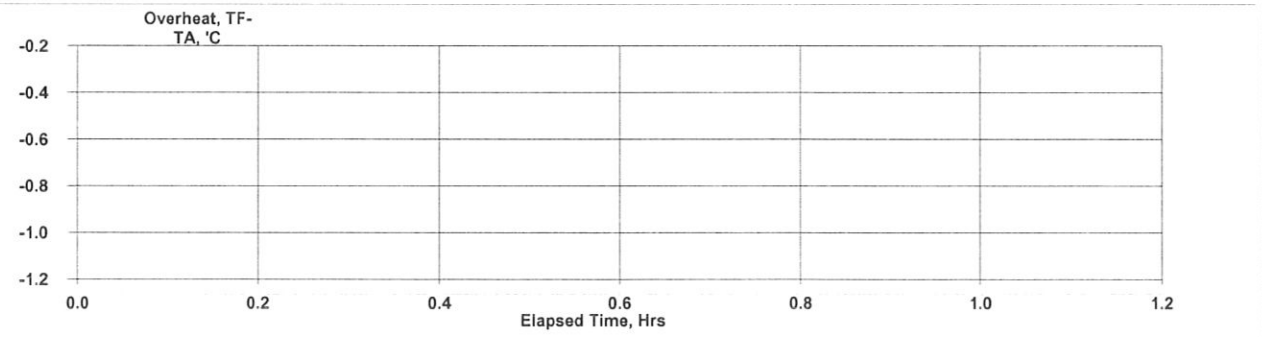
Mass Concentration Data:

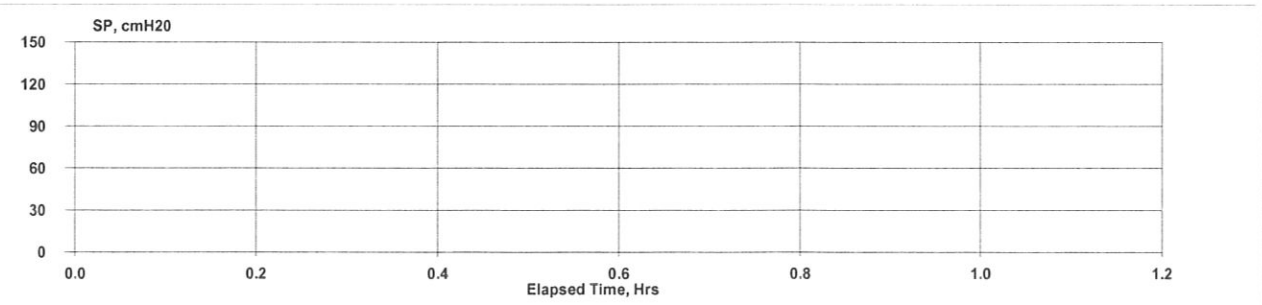
Filter ID: 7
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 0.082 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-19-jul	0:05:08	597	16.3	15.1	-1.2	21	14.20

BGI PQ200 Air Sampling System Downloaded 2018 26 jul 10:38:31

Job Details:

Job Name: 18Jul26C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1836:02
Flags: Q T

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

	Max	Min	Avg	Units
BP	598	596	596	mmHg
TA	22	21.2	21.9	°C
Q	---	---	16.07	Lpm

QCV 0 %

Max overheat 3.3 °C
occured 25-jul 17:05:21

Timer Information:

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

ET: 0:04

Mass Concentration Data:

Filter ID:	14	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	0.066	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:

yy-dd-mmm	hh:mm:ss	mmHg	°C	°C	°C	cmH2O	aLpm

BGI PQ200 Air Sampling System Downloaded 2018 01 aug 13:05:33

Job Details:

Job Name: 18Aug01C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1858:48
Flags: Q T

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

	Max	Min	Avg	Units
BP	597	594	596	mmHg
TA	32.9	11.8	23	°C
Q	---	---	16.72	Lpm

QCV 1.01 %
Max overheat 2.8 °C
occured 31-jul 12:50:07

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-31-jul	0:00:08
Stop:	18-01-aug	0:00:05

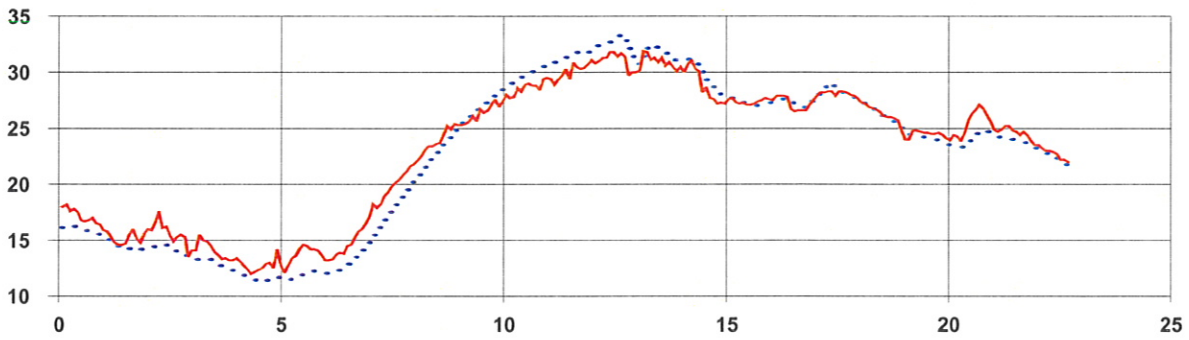
ET: 22:46

Mass Concentration Data:

Filter ID: 24
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 22.814 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-31-jul	0:05:08	597	17.1	15.9	-1.2	28	16.78
18-31-jul	1:05:08	597	15.2	14.4	-0.8	28	16.77
18-31-jul	2:05:08	597	15.5	14.1	-1.4	28	16.71
18-31-jul	3:05:08	597	14.0	12.9	-1.1	28	16.67
18-31-jul	4:05:08	597	12.7	11.6	-1.1	28	16.68
18-31-jul	5:05:08	597	13.7	11.9	-1.8	28	16.68
18-31-jul	6:05:08	597	14.8	13.0	-1.8	28	16.69
18-31-jul	7:05:08	597	19.8	17.7	-2.1	29	16.70
18-31-jul	8:05:08	597	23.9	22.8	-1.1	30	16.73
18-31-jul	9:05:08	597	26.4	26.9	0.5	31	16.75
18-31-jul	10:05:08	597	28.6	29.7	1.1	32	16.81
18-31-jul	11:05:08	596	30.1	31.4	1.3	33	16.77
18-31-jul	12:05:08	596	31.0	32.5	1.5	32	16.76
18-31-jul	13:05:08	596	30.9	31.6	0.7	33	16.76
18-31-jul	14:05:08	596	28.8	29.7	0.8	33	16.74
18-31-jul	15:05:08	596	27.4	27.3	-0.1	33	16.72
18-31-jul	16:05:08	596	27.2	27.2	0.0	33	16.71
18-31-jul	17:05:08	595	28.1	28.2	0.1	33	16.71
18-31-jul	18:05:08	596	26.3	26.3	-0.1	33	16.71
18-31-jul	19:05:08	596	24.5	24.1	-0.3	33	16.71
18-31-jul	20:05:08	596	25.4	24.0	-1.5	33	16.71
18-31-jul	21:05:08	596	24.6	23.9	-0.7	33	16.71
18-31-jul	22:05:08	596	22.7	22.5	-0.3	33	16.70

BGI PQ200 Air Sampling System Downloaded 2018 07 aug 10:51:57

Job Details:

Job Name: 18Aug07C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1882:47
Flags:

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	32.3	8.7	21.2	°C
Q	---	---	16.7	Lpm

QCV 0.51 %
Max overheat 2.2 °C
occured 06-aug 14:57:58

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-06-aug	0:00:08
Stop:	18-07-aug	0:00:05

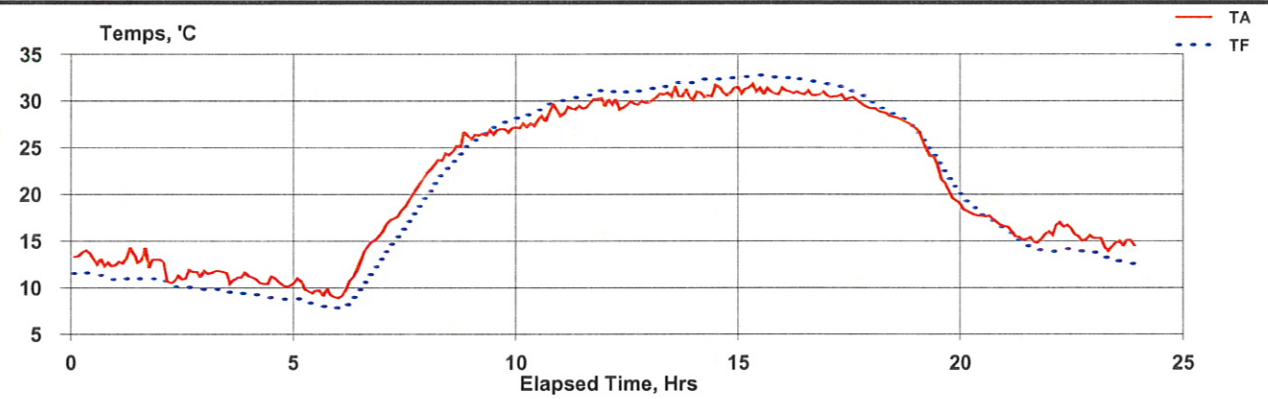
ET: 23:59

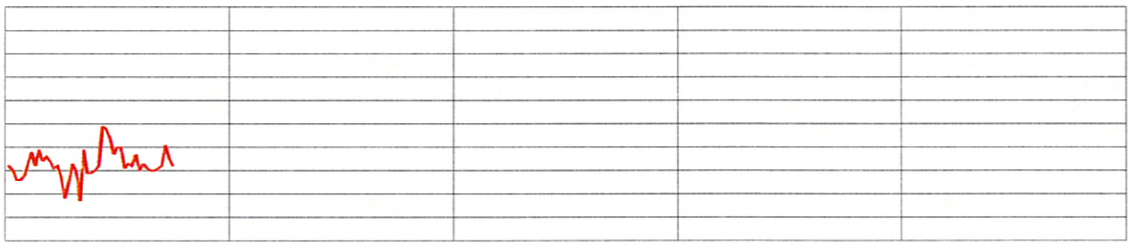
Mass Concentration Data:

Filter ID: 39
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.028 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:





18-06-aug	0:05:08	595	13.1	11.3	-1.8	28	16.72
18-06-aug	1:05:08	595	13.1	11.0	-2.2	28	16.71
18-06-aug	2:05:08	595	11.3	10.1	-1.2	28	16.71
18-06-aug	3:05:08	595	11.4	9.6	-1.8	28	16.71
18-06-aug	4:05:08	595	10.6	8.9	-1.7	28	16.71
18-06-aug	5:05:08	595	9.7	8.2	-1.5	28	16.72
18-06-aug	6:05:08	595	12.9	10.1	-2.8	29	16.71
18-06-aug	7:05:08	596	19.2	16.7	-2.5	30	16.71
18-06-aug	8:05:08	596	24.6	23.1	-1.5	31	16.71
18-06-aug	9:05:08	596	26.7	27.0	0.3	32	16.71
18-06-aug	10:05:08	596	28.1	29.1	1.0	32	16.70
18-06-aug	11:05:08	596	29.5	30.5	1.0	33	16.70
18-06-aug	12:05:08	595	29.7	31.0	1.3	33	16.67
18-06-aug	13:05:08	595	30.7	31.7	1.0	33	16.67
18-06-aug	14:05:08	595	31.0	32.3	1.3	33	16.69
18-06-aug	15:05:08	594	31.1	32.6	1.4	33	16.68
18-06-aug	16:05:08	594	30.8	32.1	1.3	33	16.70
18-06-aug	17:05:08	594	30.1	31.0	1.0	34	16.71
18-06-aug	18:05:08	594	28.2	28.5	0.3	34	16.71
18-06-aug	19:05:08	595	22.5	23.4	0.9	33	16.71
18-06-aug	20:05:08	595	17.6	17.9	0.3	33	16.71
18-06-aug	21:05:08	595	15.5	14.7	-0.8	33	16.71
18-06-aug	22:05:08	595	15.9	13.9	-2.0	33	16.71
18-06-aug	23:05:08	595	14.7	13.0	-1.8	33	16.70

BGI PQ200 Air Sampling System Downloaded 2018 15 aug 10:04:20

Job Details:

Job Name: 18Aug15C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1906:46
Flags:

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

	Max	Min	Avg	Units
BP	596	593	595	mmHg
TA	29.3	8.5	19	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 3.8 °C
occured 14-aug 13:23:47

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-12-aug	0:00:08
Stop:	18-13-aug	0:00:05

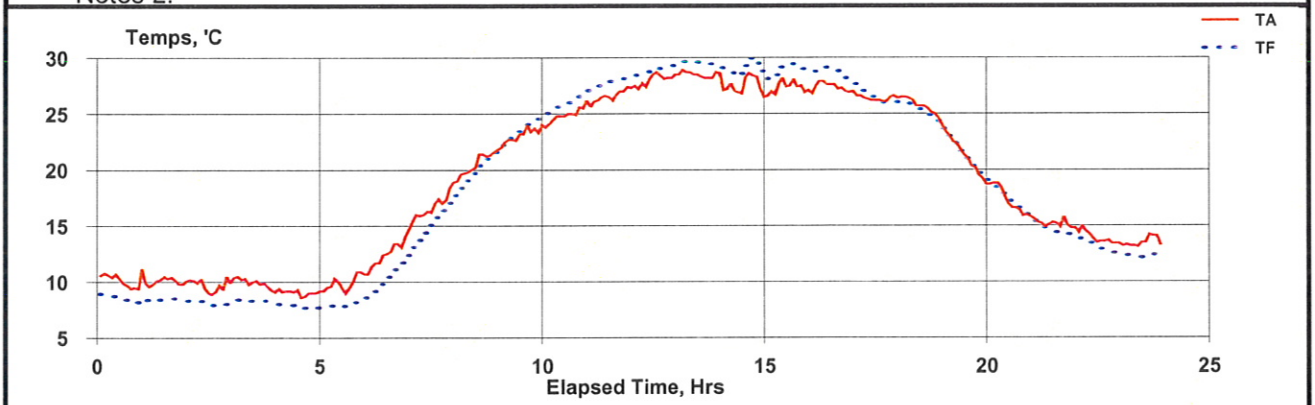
ET: 23:59

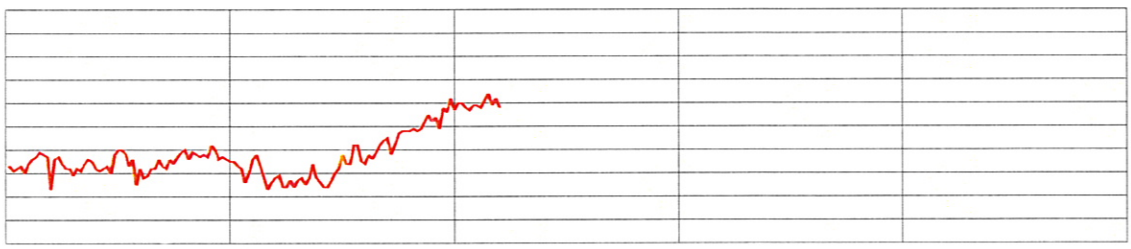
Mass Concentration Data:

Filter ID: 1
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.039 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-12-aug	0:05:08	596	10.2	8.6	-1.6	28	16.72
18-12-aug	1:05:08	595	10.1	8.4	-1.7	28	16.70
18-12-aug	2:05:08	595	9.7	8.1	-1.6	29	16.72
18-12-aug	3:05:08	596	9.9	8.3	-1.6	29	16.70
18-12-aug	4:05:08	595	9.1	7.8	-1.2	29	16.71
18-12-aug	5:05:08	595	9.9	8.0	-1.9	29	16.71
18-12-aug	6:05:08	596	12.6	10.3	-2.3	30	16.71
18-12-aug	7:05:08	596	16.8	15.1	-1.7	30	16.71
18-12-aug	8:05:08	596	20.6	19.9	-0.7	31	16.71
18-12-aug	9:05:08	596	23.1	23.5	0.3	32	16.71
18-12-aug	10:05:08	596	24.9	25.9	1.0	33	16.70
18-12-aug	11:05:08	596	26.6	27.8	1.2	33	16.71
18-12-aug	12:05:08	595	28.0	28.8	0.8	33	16.70
18-12-aug	13:05:08	595	28.5	29.5	1.0	33	16.71
18-12-aug	14:05:08	595	27.5	29.0	1.5	33	16.71
18-12-aug	15:05:08	594	27.3	28.8	1.5	34	16.71
18-12-aug	16:05:08	594	27.4	28.7	1.3	34	16.71
18-12-aug	17:05:08	594	26.4	26.5	0.1	33	16.71
18-12-aug	18:05:08	594	25.6	25.3	-0.3	33	16.71
18-12-aug	19:05:08	594	21.1	21.3	0.2	33	16.72
18-12-aug	20:05:08	594	17.2	17.3	0.1	33	16.71
18-12-aug	21:05:08	595	15.2	14.6	-0.6	33	16.71
18-12-aug	22:05:08	595	13.9	13.1	-0.8	33	16.71
18-12-aug	23:05:08	595	13.5	12.2	-1.3	33	16.71

BGI PQ200 Air Sampling System Downloaded 2018 20 aug 11:12:48

Job Details:

Job Name: 18Aug20C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1930:45
Flags:

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

	Max	Min	Avg	Units
BP	598	594	596	mmHg
TA	30.8	12.8	21.5	°C
Q	---	---	16.7	Lpm

QCV 0.58 %
Max overheat 2.8 °C
occured 18-aug 11:32:55

Timer Information:

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

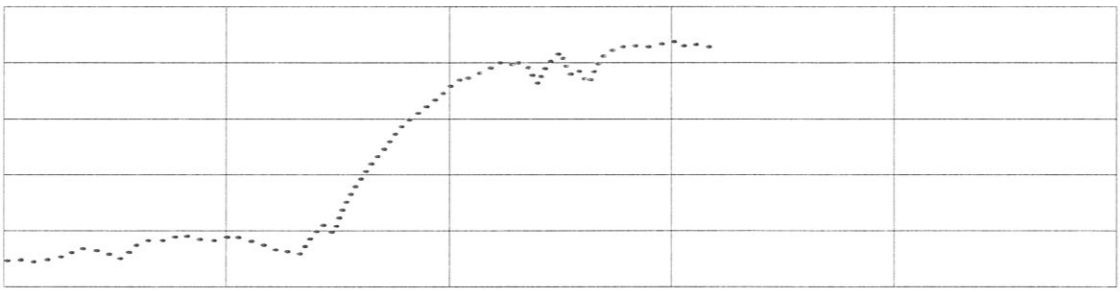
ET: 23:59

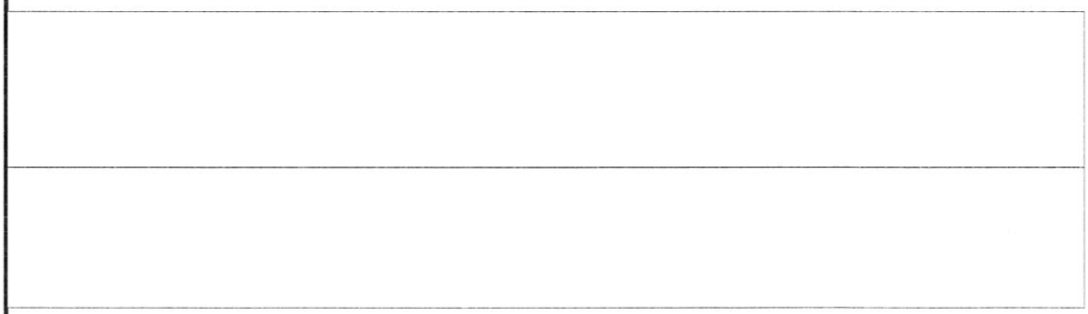
Mass Concentration Data:

Filter ID: 29
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.031 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





Overheat, TF-

18-18-aug	0:05:08	597	13.9	12.4	-1.5	26	16.70
18-18-aug	1:05:08	597	14.3	13.0	-1.3	27	16.72
18-18-aug	2:05:08	597	14.3	13.0	-1.3	27	16.72
18-18-aug	3:05:08	597	15.9	14.2	-1.8	27	16.71
18-18-aug	4:05:08	597	15.4	14.2	-1.2	27	16.71
18-18-aug	5:05:08	597	14.7	14.1	-0.7	27	16.71
18-18-aug	6:05:08	598	14.2	13.4	-0.8	27	16.71
18-18-aug	7:05:08	598	17.8	16.7	-1.1	28	16.71
18-18-aug	8:05:08	598	22.5	22.3	-0.2	28	16.70
18-18-aug	9:05:08	598	25.2	26.3	1.0	29	16.69
18-18-aug	10:05:08	597	27.2	28.8	1.6	30	16.66
18-18-aug	11:05:08	597	27.8	29.5	1.7	30	16.68
18-18-aug	12:05:08	597	28.6	29.7	1.1	31	16.70
18-18-aug	13:05:08	596	29.5	30.3	0.8	31	16.71
18-18-aug	14:05:08	596	29.8	31.6	1.8	31	16.70
18-18-aug	15:05:08	596	29.8	31.6	1.7	31	16.71
18-18-aug	16:05:08	595	29.7	31.2	1.5	31	16.72
18-18-aug	17:05:08	595	28.7	30.0	1.2	31	16.72
18-18-aug	18:05:08	595	26.9	27.4	0.4	31	16.71
18-18-aug	19:05:08	595	22.5	22.6	0.0	30	16.71
18-18-aug	20:05:08	595	19.1	18.7	-0.4	30	16.71
18-18-aug	21:05:08	596	16.5	16.1	-0.4	30	16.71
18-18-aug	22:05:08	596	16.2	14.6	-1.6	29	16.71
18-18-aug	23:05:08	596	14.4	13.2	-1.2	29	16.69

BGI PQ200 Air Sampling System Downloaded 2018 28 aug 12:45:55

Job Details:

Job Name:	18Aug28C.JOB
Version:	5.62
Serial No:	964
Pump Time:	1954:34
Flags:	

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

	Max	Min	Avg	Units
BP	594	593	593	mmHg
TA	24.3	24	24.2	°C
Q	---	---	16.7	Lpm

QCV	0 %
Max overheat	1.7 °C
occured	28-aug 12:45:49

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-28-aug	12:39:28
Stop:	18-28-aug	12:39:32

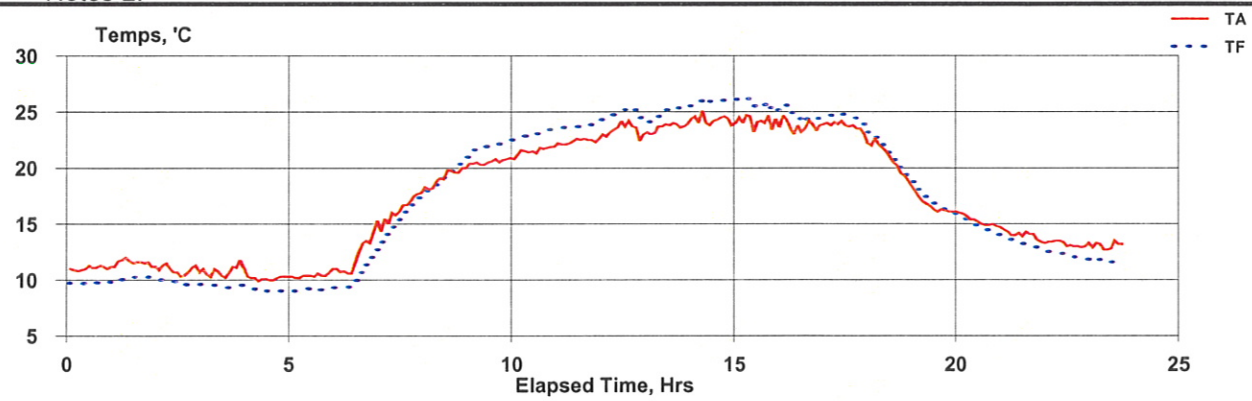
ET: 23:49

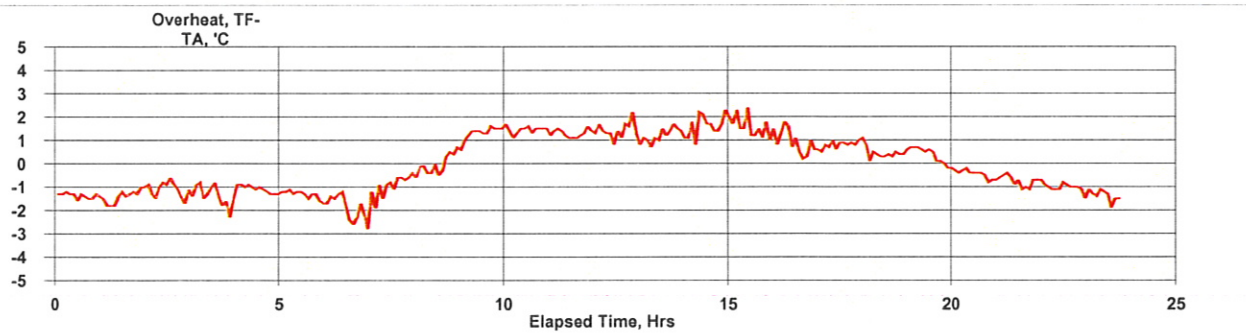
Mass Concentration Data:

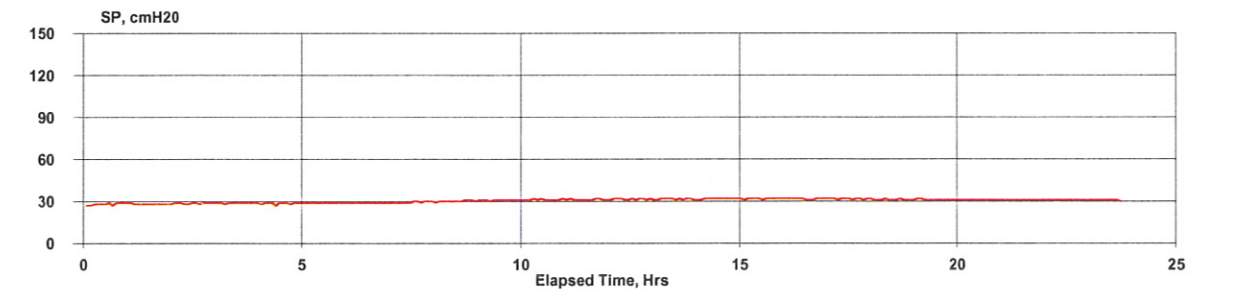
Filter ID:	JBR 1	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	23.841	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-24-aug	0:05:08	595	11.1	9.7	-1.4	28	16.73
18-24-aug	1:05:08	595	11.6	10.2	-1.4	28	16.62
18-24-aug	2:05:08	595	10.9	9.8	-1.1	29	16.71
18-24-aug	3:05:08	594	10.8	9.5	-1.4	29	16.72
18-24-aug	4:05:08	594	10.2	9.1	-1.1	29	16.71
18-24-aug	5:05:08	595	10.4	9.1	-1.3	29	16.73
18-24-aug	6:05:08	595	12.3	10.4	-1.9	29	16.70
18-24-aug	7:05:08	595	16.3	15.4	-0.9	29	16.71
18-24-aug	8:05:08	595	19.2	19.2	0.0	30	16.72
18-24-aug	9:05:08	595	20.6	21.9	1.3	31	16.70
18-24-aug	10:05:08	595	21.5	23.0	1.5	31	16.71
18-24-aug	11:05:08	595	22.4	23.7	1.3	31	16.71
18-24-aug	12:05:08	595	23.4	24.8	1.4	32	16.71
18-24-aug	13:05:08	594	23.6	24.8	1.2	32	16.69
18-24-aug	14:05:08	594	24.3	25.9	1.6	32	16.70
18-24-aug	15:05:08	593	24.2	25.8	1.6	32	16.71
18-24-aug	16:05:08	593	23.7	24.7	1.0	32	16.71
18-24-aug	17:05:08	593	23.8	24.6	0.8	32	16.71
18-24-aug	18:05:08	593	21.0	21.4	0.5	31	16.71
18-24-aug	19:05:08	593	16.8	17.2	0.4	31	16.71
18-24-aug	20:05:08	594	15.4	14.9	-0.4	31	16.71
18-24-aug	21:05:08	594	14.1	13.3	-0.8	31	16.71
18-24-aug	22:05:08	594	13.2	12.2	-1.0	31	16.71
18-24-aug	23:05:08	594	13.1	11.7	-1.4	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 31 aug 08:54:18

Job Details:

Job Name: 18Aug31C.JOB
Version: 5.62
Serial No: 964
Pump Time: 1978:33
Flags:

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

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	27.3	9.1	17.8	°C
Q	---	---	16.7	Lpm

QCV 0.58 %
Max overheat 2.4 °C
occured 30-aug 14:36:07

Timer Information:

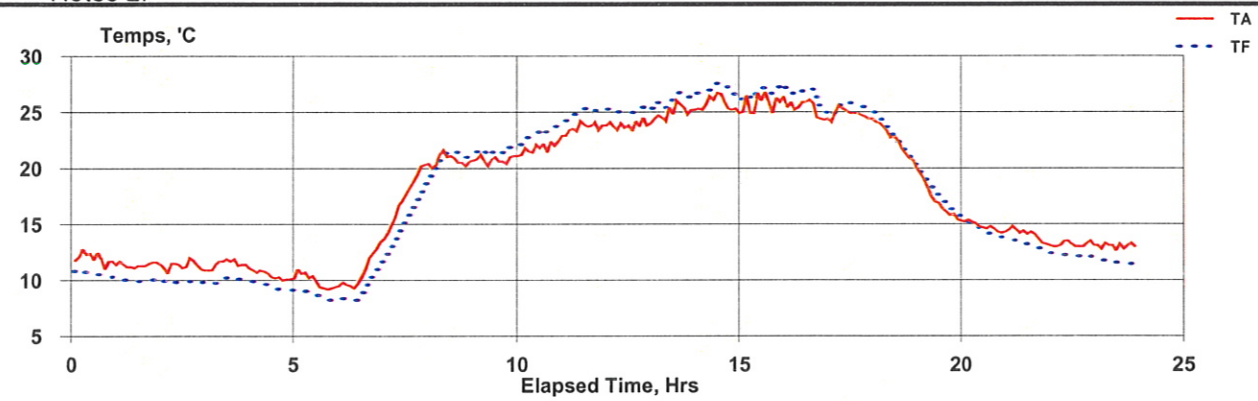
	Date dd-mmm	Time hh:mm:ss
Start:	18-30-aug	0:00:08
Stop:	18-31-aug	0:00:05

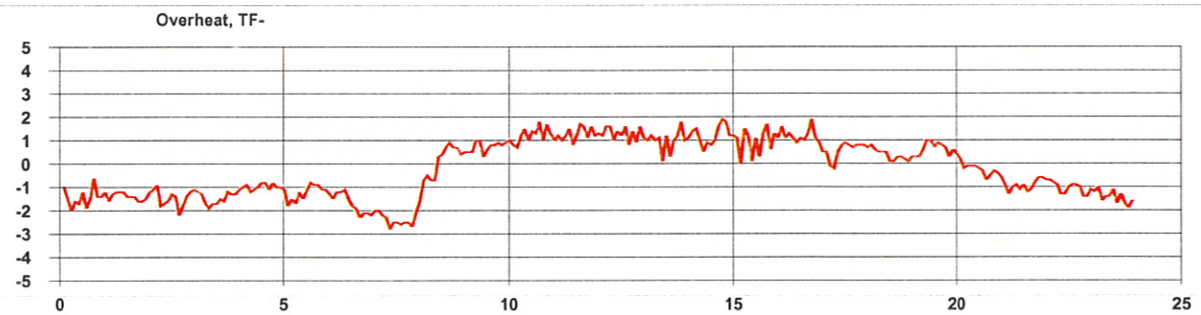
ET: 23:59

Mass Concentration Data:

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

Notes 1:
Notes 2:





18-30-aug	0:05:08	595	12.0	10.5	-1.4	28	16.70
18-30-aug	1:05:08	595	11.4	10.0	-1.4	28	16.71
18-30-aug	2:05:08	595	11.3	9.8	-1.5	28	16.71
18-30-aug	3:05:08	595	11.4	10.0	-1.5	28	16.71
18-30-aug	4:05:08	595	10.4	9.4	-1.0	28	16.71
18-30-aug	5:05:08	595	9.9	8.7	-1.2	28	16.71
18-30-aug	6:05:08	595	11.1	9.4	-1.7	28	16.71
18-30-aug	7:05:08	596	17.8	15.4	-2.4	29	16.71
18-30-aug	8:05:08	596	20.7	20.9	0.2	30	16.71
18-30-aug	9:05:08	596	20.8	21.5	0.8	30	16.71
18-30-aug	10:05:08	596	21.9	23.2	1.2	30	16.71
18-30-aug	11:05:08	596	23.7	24.9	1.3	31	16.70
18-30-aug	12:05:08	595	23.8	25.1	1.3	31	16.72
18-30-aug	13:05:08	595	25.0	26.0	1.0	31	16.70
18-30-aug	14:05:08	595	25.7	27.0	1.2	31	16.70
18-30-aug	15:05:08	594	25.8	26.8	0.9	31	16.71
18-30-aug	16:05:08	594	25.3	26.4	1.2	31	16.71
18-30-aug	17:05:08	594	24.8	25.4	0.6	31	16.71
18-30-aug	18:05:08	594	22.3	22.7	0.4	31	16.71
18-30-aug	19:05:08	594	16.9	17.6	0.6	31	16.71
18-30-aug	20:05:08	594	14.8	14.5	-0.3	31	16.71
18-30-aug	21:05:08	594	14.0	13.1	-0.9	30	16.71
18-30-aug	22:05:08	594	13.2	12.1	-1.1	30	16.71
18-30-aug	23:05:08	594	13.0	11.6	-1.4	30	16.72

BGI PQ200 Air Sampling System Downloaded 2018 07 sep 14:09:36

Job Details:

Job Name: 18Sep07C.JOB
Version: 5.62
Serial No: 964
Pump Time: 2513:58
Flags: Q T

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

	Max	Min	Avg	Units
BP	597	593	596	mmHg
TA	22.7	8.7	14.4	°C
Q	---	---	16.7	Lpm

QCV 1.88 %

Max overheat 2.8 °C
occured 06-sep 13:28:08

Timer Information:

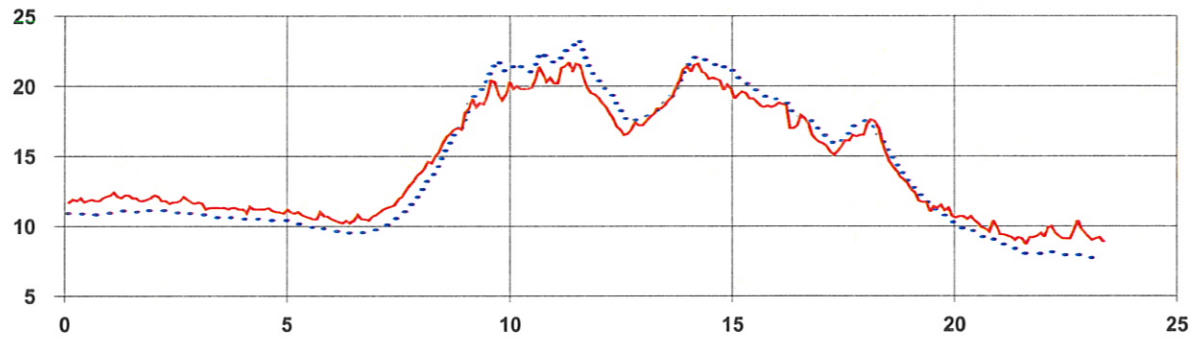
	Date dd-mmm	Time hh:mm:ss
Start:	18-05-sep	0:00:08
Stop:	18-06-sep	0:00:05

ET: 23:25

Mass Concentration Data:

Filter ID:	33	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	23.47	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-05-sep	0:05:08	595	11.9	10.8	-1.1	25	16.71
18-05-sep	1:05:08	595	12.1	11.0	-1.0	26	16.71
18-05-sep	2:05:08	595	11.8	11.0	-0.8	26	16.71
18-05-sep	3:05:08	595	11.3	10.6	-0.7	26	16.71
18-05-sep	4:05:08	595	11.1	10.4	-0.7	26	16.70
18-05-sep	5:05:08	595	10.7	10.0	-0.7	26	16.71
18-05-sep	6:05:08	596	10.5	9.6	-0.9	26	16.71
18-05-sep	7:05:08	596	12.2	10.8	-1.4	26	16.71
18-05-sep	8:05:08	597	15.9	15.1	-0.9	26	16.70
18-05-sep	9:05:08	597	19.3	20.3	1.0	28	16.71
18-05-sep	10:05:08	597	20.3	21.6	1.3	28	16.71
18-05-sep	11:05:08	597	20.6	22.0	1.4	28	16.71
18-05-sep	12:05:08	597	17.4	18.5	1.1	28	16.72
18-05-sep	13:05:08	596	19.2	19.1	-0.1	28	16.71
18-05-sep	14:05:08	597	20.6	21.7	1.0	28	16.71
18-05-sep	15:05:08	597	19.0	19.8	0.9	28	16.70
18-05-sep	16:05:08	597	17.4	18.0	0.6	28	16.71
18-05-sep	17:05:08	597	15.9	16.5	0.6	28	16.71
18-05-sep	18:05:08	596	15.3	15.5	0.3	27	16.71
18-05-sep	19:05:08	596	11.5	11.6	0.0	27	16.71
18-05-sep	20:05:08	597	10.3	9.5	-0.8	27	16.71
18-05-sep	21:05:08	597	9.2	8.3	-0.9	27	16.71
18-05-sep	22:05:08	597	9.6	7.9	-1.6	26	16.71
18-05-sep	23:05:08	597	9.1	7.7	-1.4	26	16.69

BGI PQ200 Air Sampling System Downloaded 2018 13 sep 11:38:27

Job Details:

Job Name: 18Sep13C.JOB
Version: 5.62
Serial No: 964
Pump Time: 2537:57
Flags:

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	27.5	9.1	17.7	°C
Q	---	---	16.7	Lpm

QCV 0.57 %
Max overheat 2.5 °C
occured 11-sep 13:56:43

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-11-sep	0:00:08
Stop:	18-12-sep	0:00:05

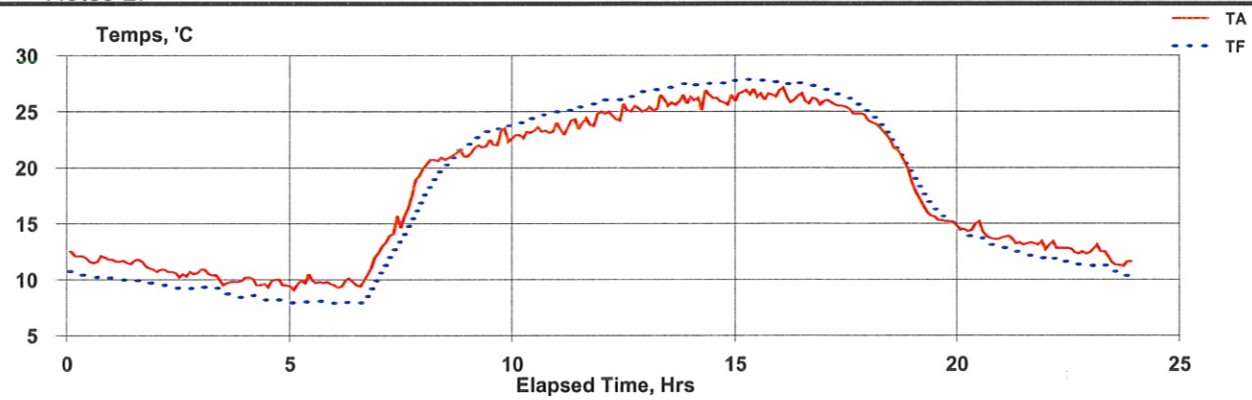
ET: 23:59

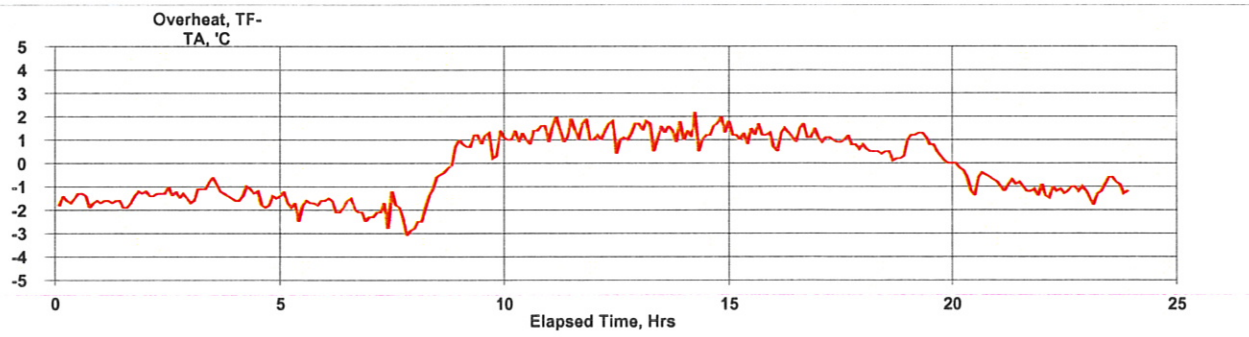
Mass Concentration Data:

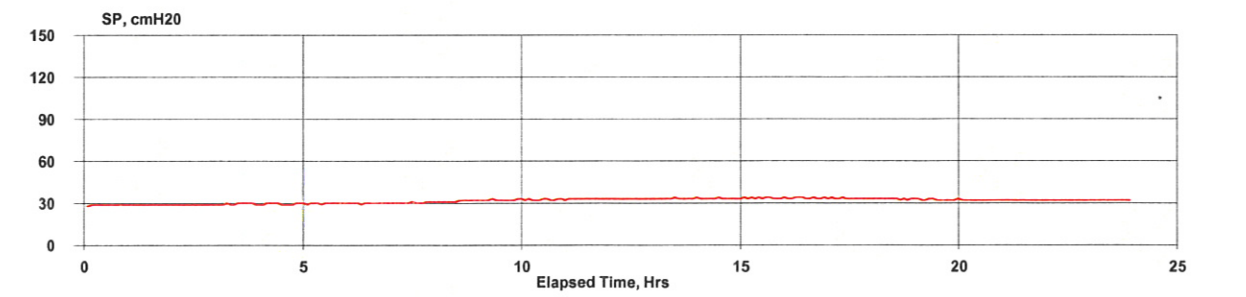
Filter ID: 25
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.042 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-11-sep	0:05:08	592	11.9	10.4	-1.6	29	16.72
18-11-sep	1:05:08	592	11.4	9.8	-1.6	29	16.71
18-11-sep	2:05:08	592	10.6	9.3	-1.4	29	16.72
18-11-sep	3:05:08	592	10.1	8.9	-1.2	30	16.71
18-11-sep	4:05:08	592	9.7	8.2	-1.5	30	16.72
18-11-sep	5:05:08	593	9.7	8.0	-1.7	30	16.71
18-11-sep	6:05:08	593	10.3	8.3	-1.9	30	16.72
18-11-sep	7:05:08	593	16.0	13.8	-2.3	30	16.71
18-11-sep	8:05:08	593	20.9	20.1	-0.8	32	16.71
18-11-sep	9:05:08	593	22.3	23.2	0.9	32	16.70
18-11-sep	10:05:08	593	23.2	24.4	1.2	32	16.71
18-11-sep	11:05:08	593	24.0	25.4	1.4	33	16.71
18-11-sep	12:05:08	592	25.0	26.2	1.3	33	16.71
18-11-sep	13:05:08	592	25.8	27.1	1.3	33	16.71
18-11-sep	14:05:08	592	26.1	27.5	1.4	33	16.71
18-11-sep	15:05:08	592	26.6	27.8	1.2	34	16.71
18-11-sep	16:05:08	591	26.1	27.4	1.2	33	16.71
18-11-sep	17:05:08	591	25.2	26.1	0.9	33	16.71
18-11-sep	18:05:08	591	21.9	22.4	0.4	33	16.70
18-11-sep	19:05:08	591	15.8	16.5	0.7	32	16.70
18-11-sep	20:05:08	591	14.2	13.6	-0.6	32	16.70
18-11-sep	21:05:08	591	13.3	12.3	-1.0	32	16.71
18-11-sep	22:05:08	591	12.7	11.5	-1.2	32	16.72
18-11-sep	23:05:08	592	11.9	10.8	-1.1	32	16.71

BGI PQ200 Air Sampling System Downloaded 2018 18 sep 10:56:49

Job Details:

Job Name: 18Sep18C.JOB
Version: 5.62
Serial No: 964
Pump Time: 2304:28
Flags: Q T

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

	Max	Min	Avg	Units
BP	595	592	593	mmHg
TA	27.4	10.2	18.3	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 2.7 °C
occured 17-sep 14:35:04

Timer Information:

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

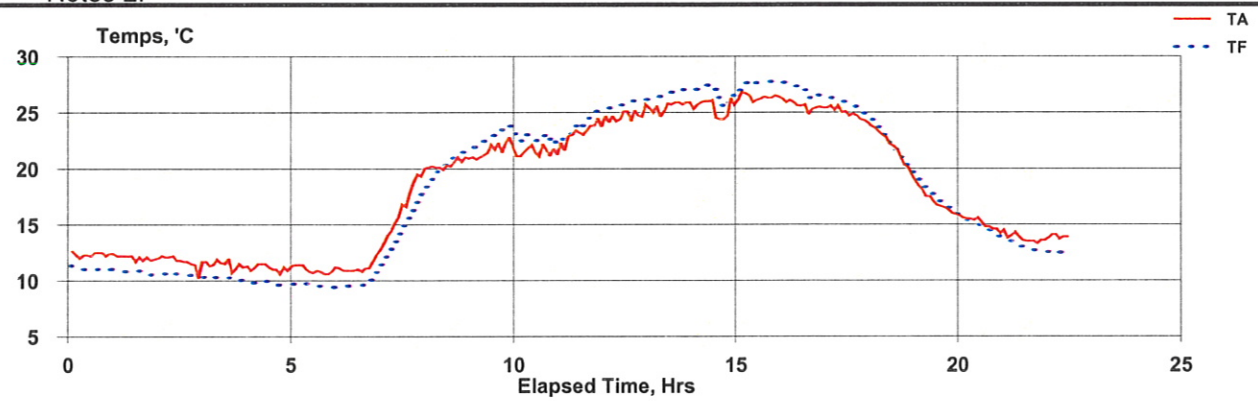
ET: 22:31

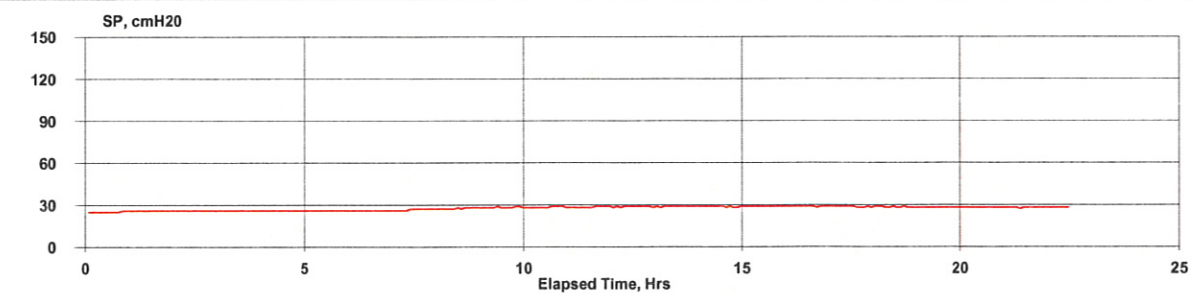
Mass Concentration Data:

Filter ID: 15
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 22.565 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-17-sep	0:05:08	594	12.4	11.0	-1.3	25	16.71
18-17-sep	1:05:08	594	12.0	10.7	-1.3	26	16.71
18-17-sep	2:05:08	594	11.7	10.5	-1.2	26	16.71
18-17-sep	3:05:08	594	11.4	10.2	-1.3	26	16.71
18-17-sep	4:05:08	594	11.1	9.8	-1.4	26	16.71
18-17-sep	5:05:08	594	11.0	9.6	-1.4	26	16.71
18-17-sep	6:05:08	594	11.3	9.8	-1.5	26	16.71
18-17-sep	7:05:08	594	16.8	14.7	-2.1	27	16.72
18-17-sep	8:05:08	595	20.4	20.3	-0.1	28	16.71
18-17-sep	9:05:08	595	21.7	22.9	1.2	28	16.72
18-17-sep	10:05:08	595	21.5	22.7	1.2	28	16.71
18-17-sep	11:05:08	594	23.2	23.8	0.6	28	16.70
18-17-sep	12:05:08	594	24.7	25.7	1.0	29	16.71
18-17-sep	13:05:08	594	25.5	26.6	1.1	29	16.71
18-17-sep	14:05:08	593	25.4	26.7	1.3	29	16.71
18-17-sep	15:05:08	593	26.4	27.5	1.1	29	16.71
18-17-sep	16:05:08	593	25.6	27.0	1.4	29	16.70
18-17-sep	17:05:08	593	24.9	25.7	0.8	29	16.71
18-17-sep	18:05:08	593	21.9	22.3	0.3	28	16.71
18-17-sep	19:05:08	593	17.1	17.6	0.5	28	16.71
18-17-sep	20:05:08	593	15.1	14.9	-0.2	28	16.70
18-17-sep	21:05:08	593	13.8	13.0	-0.7	28	16.71
18-17-sep	22:05:08	593	13.9	12.5	-1.4	28	16.71

BGI PQ200 Air Sampling System Downloaded 2018 25 sep 13:36:56

Job Details:

Job Name: 18Sep25C.JOB
Version: 5.62
Serial No: 964
Pump Time: 2311:41
Flags: Q T

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

	Max	Min	Avg	Units
BP	594	592	593	mmHg
TA	12.8	6.8	9.5	°C
Q	---	---	16.71	Lpm

QCV 0.15 %
Max overheat 2.6 °C
occured 24-sep 13:46:55

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-23-sep	0:00:08
Stop:	18-24-sep	0:00:05

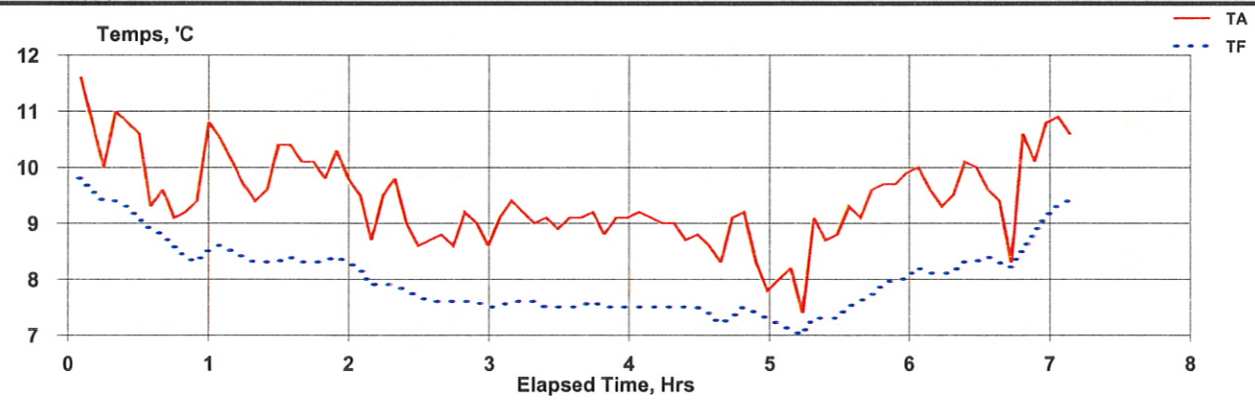
ET: 7:13

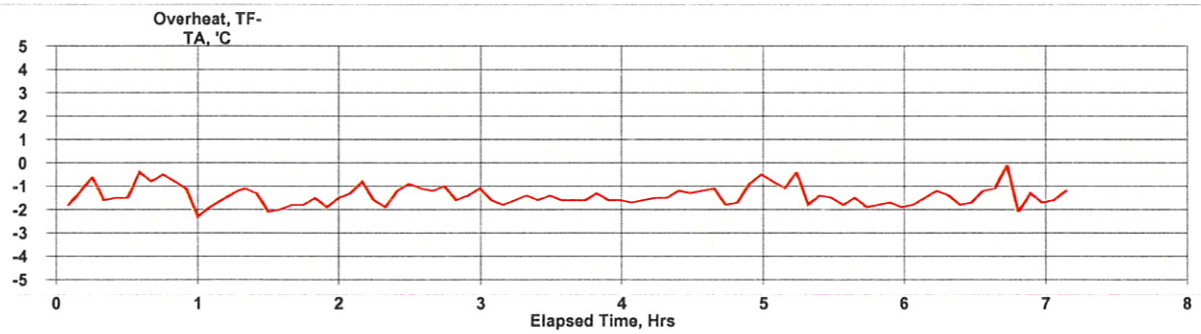
Mass Concentration Data:

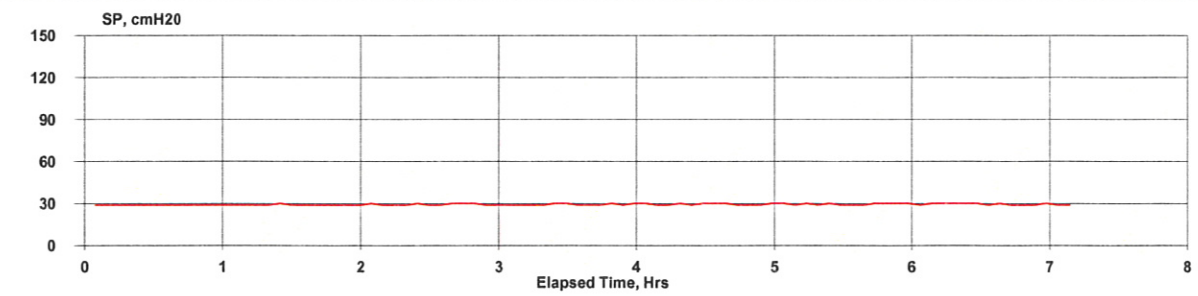
Filter ID: 39
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 7.23 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:







18-23-sep	0:05:08	594	10.2	9.0	-1.2	29	16.72
18-23-sep	1:05:08	594	10.0	8.4	-1.7	29	16.71
18-23-sep	2:05:08	594	9.0	7.7	-1.3	29	16.72
18-23-sep	3:05:08	594	9.1	7.5	-1.6	29	16.70
18-23-sep	4:05:08	594	8.8	7.4	-1.3	30	16.72
18-23-sep	5:05:08	594	9.0	7.5	-1.5	30	16.71
18-23-sep	6:05:08	594	9.8	8.4	-1.4	30	16.71
18-23-sep	7:05:08	594	10.8	9.4	-1.4	29	16.71

Compliance Monitor 2366D

PM_{10} Sampler Summary

July 1, 2018 - September 30, 2018

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

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
07/01/18	P2948707	**37.5**	**47.6**	24:00	24.0	19.0	392.2050	393.1088	0.9038		
07/07/18	P2948712	**47.1**	**59.9**	23:59	24.0	18.9	395.5040	396.6367	1.1327		
07/13/18	P2948718	**247.7**	**310.8**	23:59	24.0	19.2	384.9500	390.9035	5.9535	EH	Loose particles
07/19/18	P2948951	**91.0**	**114.6**	23:59	24.0	19.1	385.9337	388.1222	2.1885		
07/25/18	P2948957	**27.5**	**34.9**	23:59	24.0	18.9	390.5236	391.1863	0.6627		
07/31/18	P2949158	**75.7**	**96.4**	23:59	24.0	18.9	394.1691	395.9890	1.8199		
08/06/18	P2949163	**120.8**	**153.5**	23:59	24.0	18.9	387.2243	390.1286	2.9043		
08/12/18	P2949402	**13.0**	**16.4**	23:59	24.0	19.1	390.6152	390.9299	0.3147		
08/18/18	P2949407	**Invalid - AI**	**Invalid - AI**				391.1424	391.1536	0.0112	MD	No data
08/24/18	P2949412	**21.0**	**26.3**	23:59	24.0	19.2	388.5365	389.0420	0.5055	HT	
08/30/18	P2949633	**116.7**	**146.2**	23:59	24.0	19.2	398.8828	401.6901	2.8073	HT	
09/05/18	P2949638	**41.0**	**50.6**	23:59	24.0	19.5	395.4711	396.4570	0.9859		
09/11/18	P2949885	**107.0**	**134.5**	23:59	24.0	19.1	392.2175	394.7900	2.5725		
09/17/18	P2950118	**83.5**	**105.0**	23:59	24.0	19.1	394.2477	396.2562	2.0085		
09/23/18	P2949891	**17.2**	**21.5**	23:59	24.0	19.3	390.5518	390.9672	0.4154		
09/29/18	P2950121	**119.8**	**149.8**	23:59	24.0	19.2	393.9919	396.8727	2.8808		

# Valid	Recovery	Average	St. Dev.	Max	Min
15	94%	97.9	77.0	310.8	16.4

BGI PQ200 Air Sampling System Downloaded 2018 03 jul 10:39:59

Job Details:

Job Name: 18Jul03D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3627:09
Flags:

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

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	31.6	8.7	20.5	°C
Q	---	---	16.7	Lpm

QCV	0.51 %
Max overheat	4.3 °C
occured	02-jul 20:24:17

Timer Information:

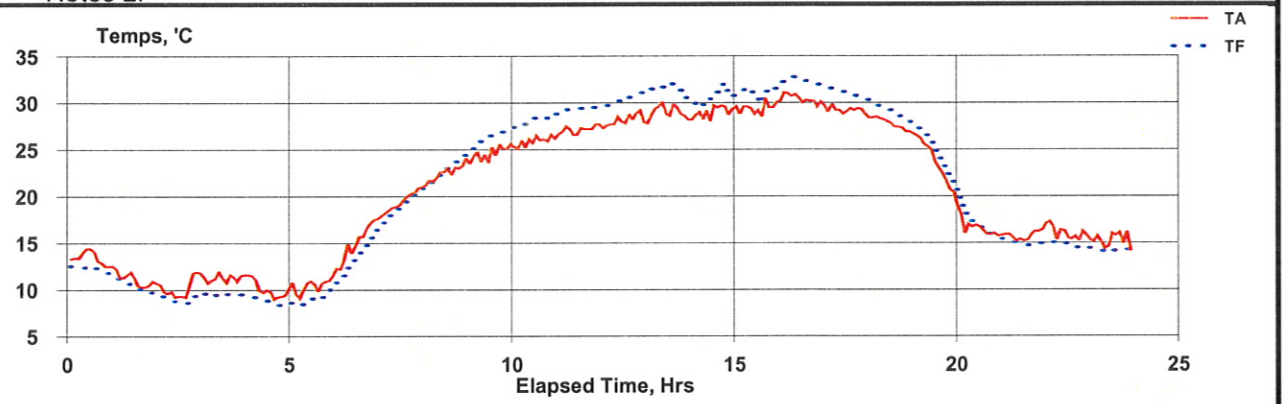
	Date dd-mmm	Time hh:mm:ss
Start:	18-01-jul	0:00:08
Stop:	18-02-jul	0:00:05

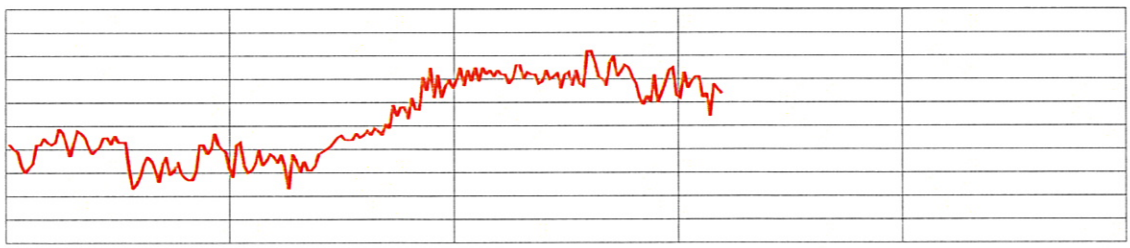
ET: 24:00:00

Mass Concentration Data:

Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:





18-01-jul	0:04:25	592	13.4	12.2	-1.1	30	16.70
18-01-jul	1:04:25	592	11.1	10.4	-0.7	31	16.71
18-01-jul	2:04:25	592	10.2	9.0	-1.2	31	16.71
18-01-jul	3:04:25	592	11.3	9.5	-1.8	31	16.71
18-01-jul	4:04:25	592	10.1	8.8	-1.3	31	16.70
18-01-jul	5:04:25	593	10.5	9.0	-1.5	31	16.71
18-01-jul	6:04:25	593	15.1	13.4	-1.7	32	16.71
18-01-jul	7:04:25	593	19.5	18.8	-0.6	32	16.71
18-01-jul	8:04:25	593	22.5	22.7	0.2	33	16.71
18-01-jul	9:04:25	592	24.6	26.2	1.6	34	16.71
18-01-jul	10:04:25	592	25.9	28.1	2.2	34	16.71
18-01-jul	11:04:25	592	27.2	29.3	2.2	35	16.72
18-01-jul	12:04:25	591	28.1	30.3	2.1	35	16.71
18-01-jul	13:04:25	591	29.0	31.4	2.4	36	16.71
18-01-jul	14:04:25	591	29.0	30.6	1.6	35	16.72
18-01-jul	15:04:25	590	29.4	31.0	1.6	35	16.68
18-01-jul	16:04:25	590	30.4	32.3	1.9	36	16.71
18-01-jul	17:04:25	590	29.3	31.1	1.8	36	16.70
18-01-jul	18:04:25	590	27.8	29.2	1.4	36	16.71
18-01-jul	19:04:25	591	23.9	25.2	1.3	35	16.71
18-01-jul	20:04:25	592	16.7	17.3	0.7	36	16.72
18-01-jul	21:04:25	592	15.8	15.0	-0.8	35	16.71
18-01-jul	22:04:25	592	16.1	14.8	-1.3	35	16.71
18-01-jul	23:04:25	592	15.3	14.2	-1.1	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 09 jul 09:58:46

Job Details:

Job Name: 18Jul09D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3651:08
Flags:

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

	Max	Min	Avg	Units
BP	596	592	594	mmHg
TA	33.2	16.5	23.4	°C
Q	---	---	16.7	Lpm

QCV 0.53 %
Max overheat 4.9 °C
occured 08-jul 14:30:08

Timer Information:

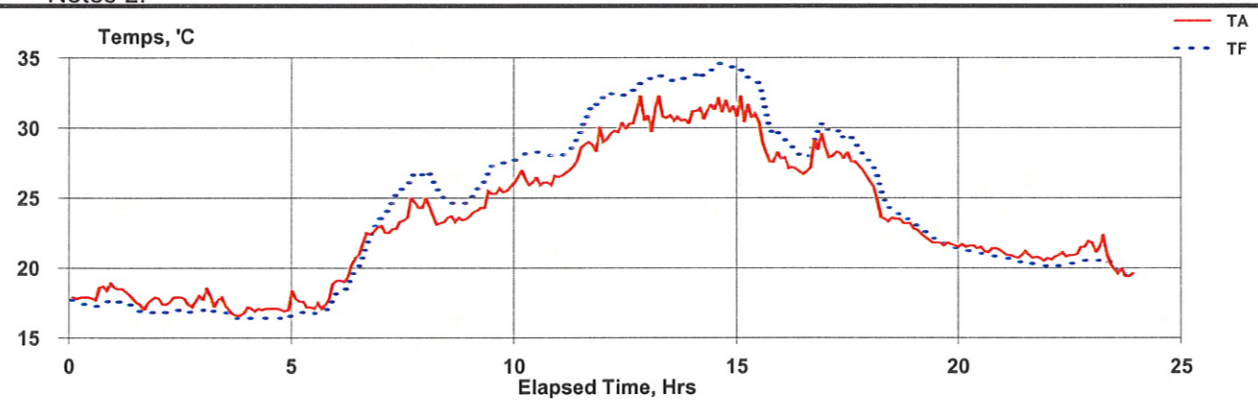
	Date dd-mmm	Time hh:mm:ss
Start:	18-07-jul	0:00:08
Stop:	18-08-jul	0:00:05

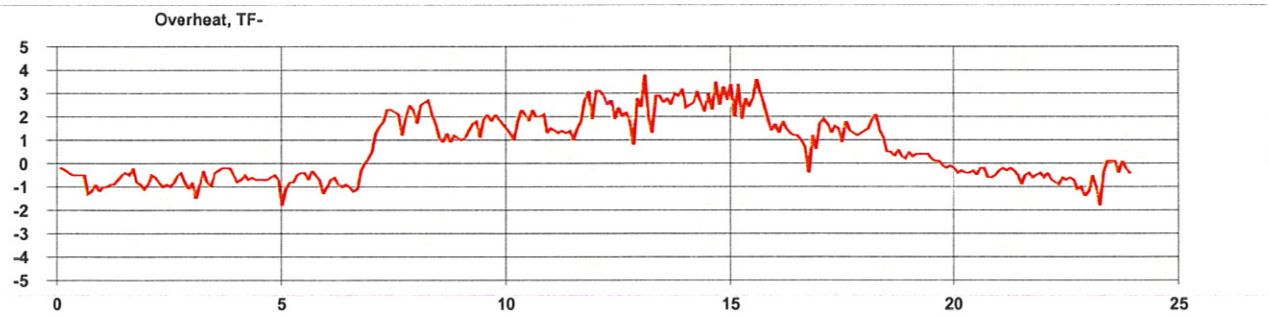
ET: 23:59

Mass Concentration Data:

Filter ID:	31	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-07-jul	0:05:08	595	18.2	17.5	-0.7	25	16.71
18-07-jul	1:05:08	595	17.8	17.1	-0.7	26	16.71
18-07-jul	2:05:08	595	17.7	16.9	-0.8	25	16.71
18-07-jul	3:05:08	595	17.3	16.7	-0.6	26	16.71
18-07-jul	4:05:08	595	17.2	16.4	-0.7	26	16.72
18-07-jul	5:05:08	596	17.7	17.0	-0.7	26	16.71
18-07-jul	6:05:08	596	21.2	20.6	-0.6	27	16.71
18-07-jul	7:05:08	596	23.7	25.6	1.9	28	16.73
18-07-jul	8:05:08	596	23.5	25.1	1.6	28	16.71
18-07-jul	9:05:08	596	25.1	26.8	1.7	28	16.72
18-07-jul	10:05:08	595	26.3	28.1	1.8	28	16.70
18-07-jul	11:05:08	595	28.2	30.0	1.8	28	16.69
18-07-jul	12:05:08	594	30.3	32.6	2.3	28	16.71
18-07-jul	13:05:08	593	30.8	33.5	2.7	29	16.71
18-07-jul	14:05:08	593	31.4	34.2	2.8	29	16.71
18-07-jul	15:05:08	593	29.6	32.0	2.5	29	16.71
18-07-jul	16:05:08	593	27.7	28.8	1.1	28	16.71
18-07-jul	17:05:08	593	27.6	29.0	1.4	29	16.71
18-07-jul	18:05:08	594	23.7	24.6	0.9	29	16.71
18-07-jul	19:05:08	594	21.9	22.1	0.1	28	16.70
18-07-jul	20:05:08	595	21.4	21.0	-0.4	28	16.71
18-07-jul	21:05:08	595	20.8	20.4	-0.5	28	16.70
18-07-jul	22:05:08	594	21.1	20.3	-0.8	28	16.71
18-07-jul	23:05:08	594	20.4	20.0	-0.4	28	16.70

BGI PQ200 Air Sampling System Downloaded 2018 16 jul 14:12:51

Job Details:

Job Name: 18Jul16D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3675:07
Flags:

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

	Max	Min	Avg	Units
BP	595	592	593	mmHg
TA	28.8	12	18.7	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 8.8 °C
occured 16-jul 12:50:43

Timer Information:

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

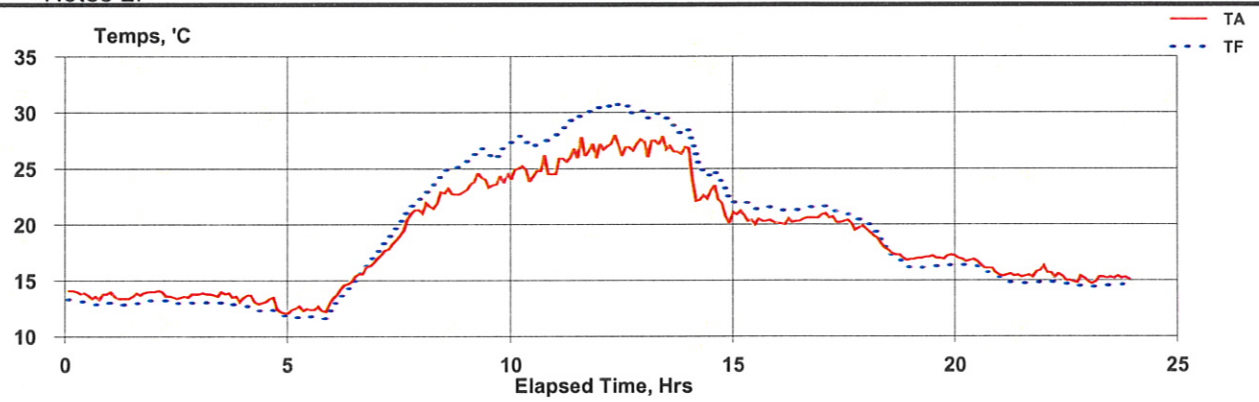
ET: 23:59

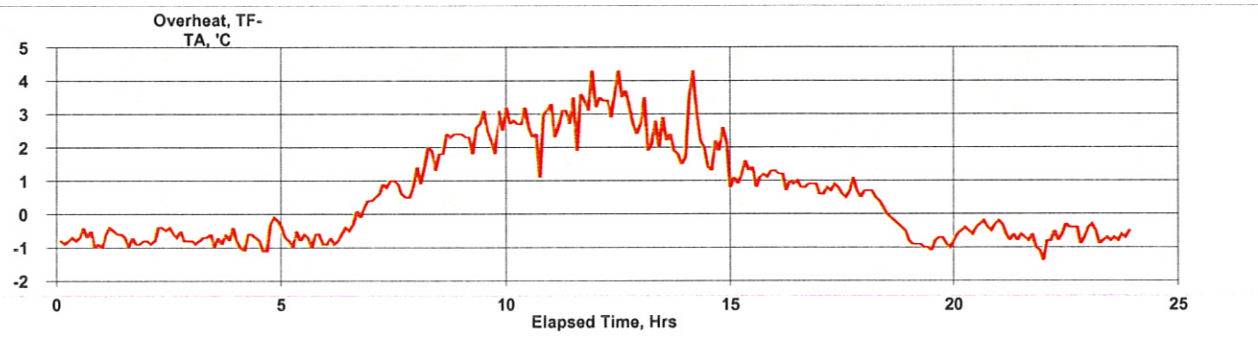
Mass Concentration Data:

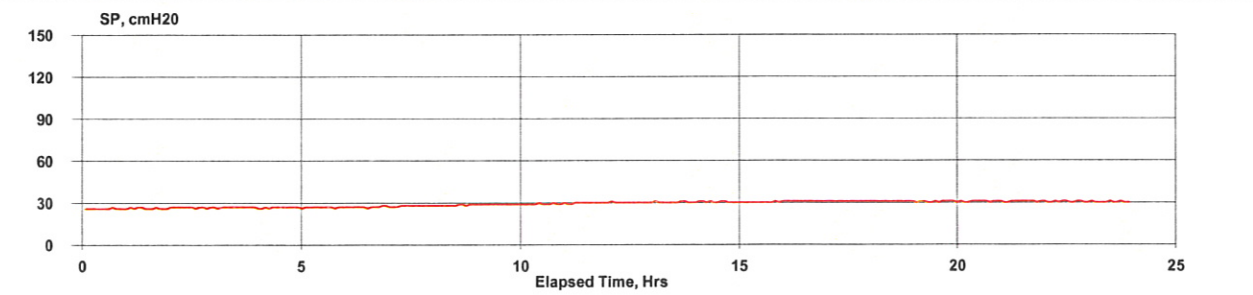
Filter ID: 36
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.036 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-13-jul	0:05:08	594	13.8	13.0	-0.8	26	16.71
18-13-jul	1:05:08	594	13.7	13.0	-0.7	26	16.70
18-13-jul	2:05:08	594	13.7	13.1	-0.6	27	16.69
18-13-jul	3:05:08	594	13.7	12.9	-0.7	27	16.70
18-13-jul	4:05:08	594	12.9	12.3	-0.7	27	16.70
18-13-jul	5:05:08	594	12.6	11.8	-0.8	27	16.71
18-13-jul	6:05:08	594	15.4	15.1	-0.3	27	16.71
18-13-jul	7:05:08	594	19.4	20.2	0.8	28	16.71
18-13-jul	8:05:08	594	22.5	24.4	1.9	28	16.71
18-13-jul	9:05:08	594	23.9	26.5	2.5	29	16.71
18-13-jul	10:05:08	594	24.8	27.4	2.7	29	16.70
18-13-jul	11:05:08	594	26.4	29.5	3.1	30	16.70
18-13-jul	12:05:08	593	27.1	30.3	3.3	30	16.72
18-13-jul	13:05:08	593	26.9	29.1	2.2	30	16.71
18-13-jul	14:05:08	593	22.1	24.4	2.3	30	16.71
18-13-jul	15:05:08	593	20.5	21.6	1.2	30	16.71
18-13-jul	16:05:08	593	20.4	21.3	0.9	31	16.71
18-13-jul	17:05:08	593	20.2	20.9	0.7	31	16.70
18-13-jul	18:05:08	594	17.8	17.8	0.0	31	16.72
18-13-jul	19:05:08	594	17.1	16.2	-0.9	31	16.71
18-13-jul	20:05:08	594	16.4	16.0	-0.4	31	16.71
18-13-jul	21:05:08	594	15.6	14.8	-0.8	31	16.70
18-13-jul	22:05:08	594	15.2	14.7	-0.6	30	16.71
18-13-jul	23:05:08	594	15.2	14.5	-0.7	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 20 jul 10:27:56

Job Details:

Job Name: 18Jul20D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3699:06
Flags:

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

	Max	Min	Avg	Units
BP	596	592	593	mmHg
TA	32.2	13.4	19.8	°C
Q	---	---	16.7	Lpm

QCV	0.5	%
Max overheat	5.3	°C
occured	19-jul 12:44:53	

Timer Information:

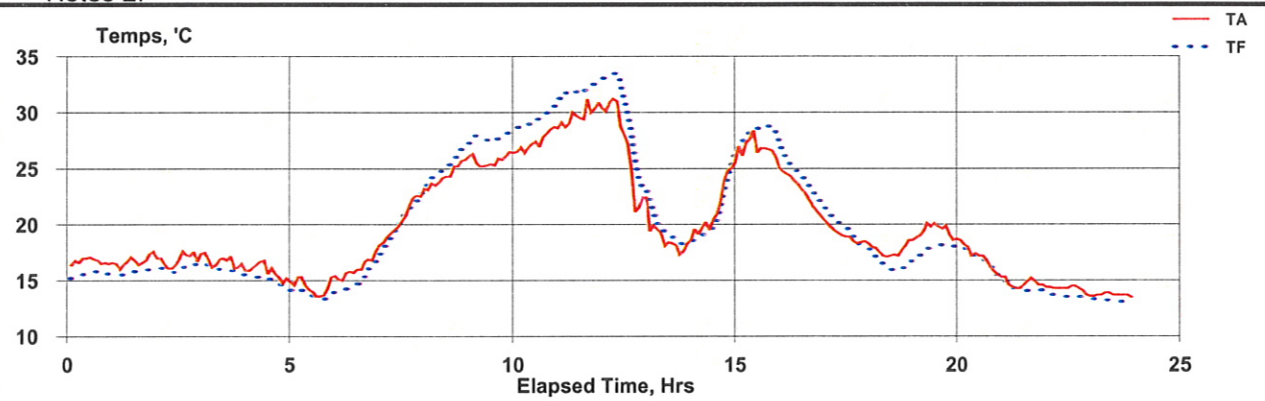
	Date dd-mmm	Time hh:mm:ss
Start:	18-19-jul	0:00:08
Stop:	18-20-jul	0:00:05

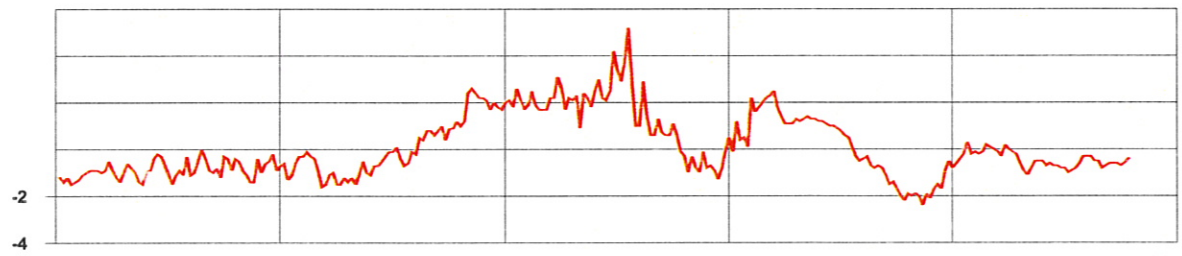
ET: 23:59

Mass Concentration Data:

Filter ID:	8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.036	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:





18-19-jul	0:05:08	594	16.7	15.6	-1.2	25	16.71
18-19-jul	1:05:08	594	16.8	15.8	-1.0	25	16.71
18-19-jul	2:05:08	593	16.9	16.1	-0.8	25	16.71
18-19-jul	3:05:08	593	16.6	16.0	-0.6	25	16.71
18-19-jul	4:05:08	593	15.8	15.0	-0.8	25	16.70
18-19-jul	5:05:08	594	14.5	13.7	-0.8	25	16.71
18-19-jul	6:05:08	594	16.3	15.1	-1.2	26	16.72
18-19-jul	7:05:08	594	20.8	20.4	-0.4	26	16.72
18-19-jul	8:05:08	594	24.6	25.4	0.8	27	16.71
18-19-jul	9:05:08	594	25.7	27.8	2.0	27	16.71
18-19-jul	10:05:08	593	27.5	29.5	2.0	28	16.72
18-19-jul	11:05:08	593	29.9	32.0	2.2	28	16.71
18-19-jul	12:05:08	593	26.6	29.5	2.8	28	16.71
18-19-jul	13:05:08	594	18.6	19.4	0.8	28	16.71
18-19-jul	14:05:08	593	21.7	21.1	-0.6	28	16.71
18-19-jul	15:05:08	592	26.7	28.1	1.4	28	16.71
18-19-jul	16:05:08	593	22.8	24.1	1.3	28	16.71
18-19-jul	17:05:08	593	18.9	19.4	0.5	28	16.71
18-19-jul	18:05:08	594	17.7	16.4	-1.3	27	16.71
18-19-jul	19:05:08	595	19.4	17.8	-1.6	28	16.71
18-19-jul	20:05:08	595	17.0	16.8	-0.1	28	16.71
18-19-jul	21:05:08	595	14.7	14.2	-0.4	28	16.71
18-19-jul	22:05:08	595	14.2	13.5	-0.7	28	16.72
18-19-jul	23:05:08	594	13.7	13.1	-0.6	28	16.71

BGI PQ200 Air Sampling System Downloaded 2018 26 jul 11:13:15

Job Details:

Job Name: 18Jul26D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3723:05
Flags:

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

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	33.3	13.3	22.5	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 5.1 °C
occured 25-jul 12:27:47

Timer Information:

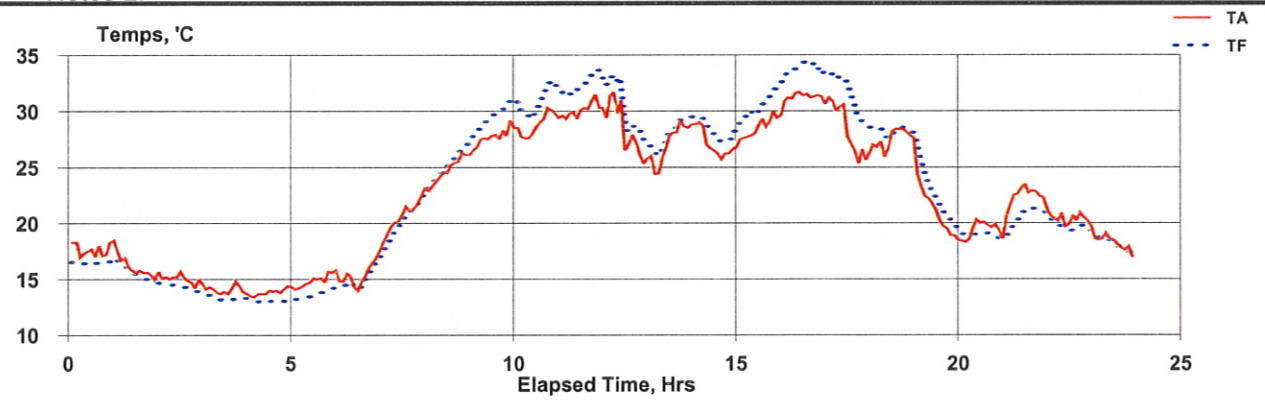
	Date dd-mmm	Time hh:mm:ss
Start:	18-25-jul	0:00:08
Stop:	18-26-jul	0:00:05

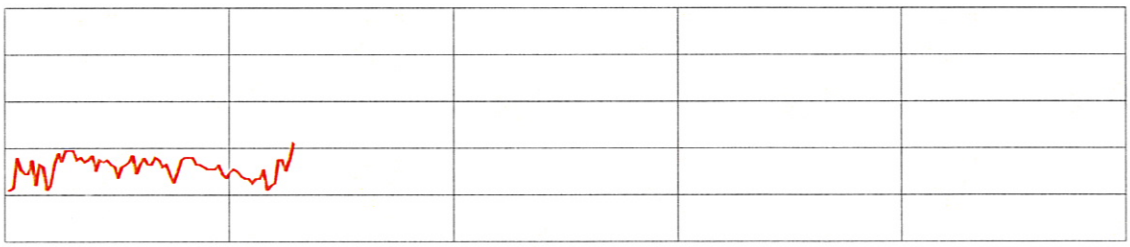
ET: 23:59

Mass Concentration Data:

Filter ID:	15	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.032	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:





18-25-jul	0:05:08	596	17.7	16.5	-1.2	26	16.71
18-25-jul	1:05:08	595	16.0	15.6	-0.4	26	16.72
18-25-jul	2:05:08	595	15.0	14.3	-0.7	26	16.71
18-25-jul	3:05:08	595	14.1	13.3	-0.7	26	16.71
18-25-jul	4:05:08	595	13.9	13.1	-0.8	26	16.72
18-25-jul	5:05:08	595	14.9	13.6	-1.3	26	16.73
18-25-jul	6:05:08	596	15.5	15.0	-0.5	27	16.70
18-25-jul	7:05:08	596	20.8	20.1	-0.7	27	16.71
18-25-jul	8:05:08	596	24.8	25.1	0.3	28	16.71
18-25-jul	9:05:08	595	27.7	29.4	1.7	28	16.68
18-25-jul	10:05:08	595	28.8	30.9	2.1	29	16.71
18-25-jul	11:05:08	595	30.1	32.4	2.3	29	16.71
18-25-jul	12:05:08	594	28.3	30.1	1.9	29	16.70
18-25-jul	13:05:08	594	27.2	27.9	0.7	29	16.70
18-25-jul	14:05:08	594	27.0	28.2	1.2	29	16.71
18-25-jul	15:05:08	594	28.6	30.4	1.8	29	16.71
18-25-jul	16:05:08	593	31.3	33.7	2.5	29	16.72
18-25-jul	17:05:08	593	28.2	31.3	3.2	29	16.71
18-25-jul	18:05:08	593	27.5	28.2	0.7	29	16.71
18-25-jul	19:05:08	594	20.9	22.5	1.6	29	16.71
18-25-jul	20:05:08	594	19.4	18.9	-0.5	29	16.71
18-25-jul	21:05:08	595	22.4	20.5	-1.9	28	16.71
18-25-jul	22:05:08	595	20.3	19.7	-0.7	29	16.70
18-25-jul	23:05:08	594	18.2	18.2	0.0	29	16.71

BGI PQ200 Air Sampling System Downloaded 2018 01 aug 13:27:41

Job Details:

Job Name: 18Aug01D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3747:04
Flags:

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

	Max	Min	Avg	Units
BP	594	592	593	mmHg
TA	32.8	12.3	23	°C
Q	---	---	16.7	Lpm

QCV	0.53	%
Max overheat	3.2	°C
occured	31-jul 13:12:04	

Timer Information:

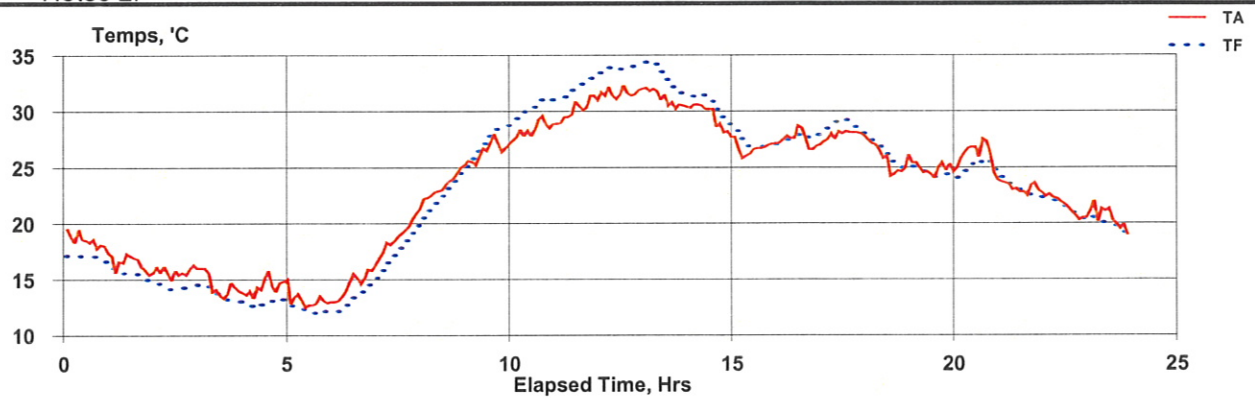
	Date dd-mmm	Time hh:mm:ss
Start:	18-31-jul	0:00:08
Stop:	18-01-aug	0:00:05

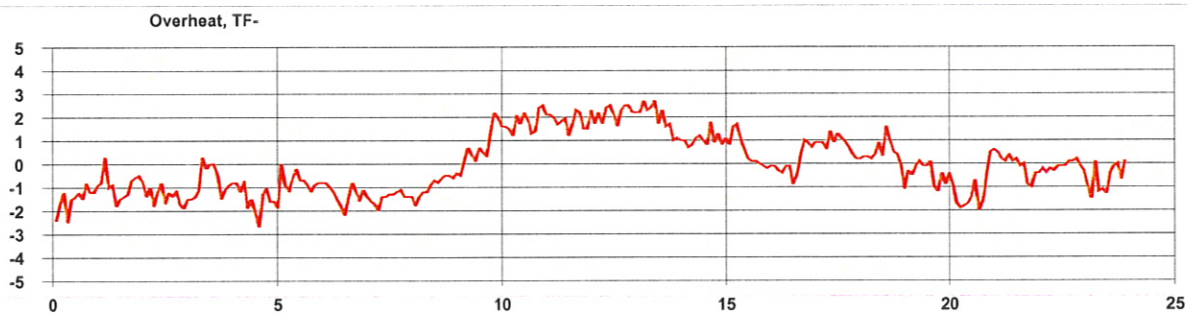
ET: 23:59

Mass Concentration Data:

Filter ID:	25	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.038	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:





18-31-jul	0:05:08	594	18.5	17.0	-1.5	26	16.70
18-31-jul	1:05:08	594	16.4	15.5	-0.9	26	16.71
18-31-jul	2:05:08	594	15.7	14.4	-1.4	26	16.71
18-31-jul	3:05:08	594	14.4	13.7	-0.7	27	16.71
18-31-jul	4:05:08	594	14.4	12.9	-1.5	27	16.71
18-31-jul	5:05:08	594	13.0	12.3	-0.7	27	16.70
18-31-jul	6:05:08	594	14.7	13.4	-1.3	27	16.71
18-31-jul	7:05:08	594	19.1	17.6	-1.4	27	16.72
18-31-jul	8:05:08	594	23.5	22.6	-0.9	28	16.71
18-31-jul	9:05:08	594	26.5	27.3	0.8	29	16.71
18-31-jul	10:05:08	593	28.4	30.2	1.8	30	16.71
18-31-jul	11:05:08	593	30.2	32.0	1.9	30	16.71
18-31-jul	12:05:08	593	31.7	33.8	2.2	30	16.71
18-31-jul	13:05:08	592	31.1	33.0	1.9	31	16.71
18-31-jul	14:05:08	592	29.5	30.6	1.0	31	16.71
18-31-jul	15:05:08	592	26.7	27.2	0.5	31	16.70
18-31-jul	16:05:08	592	27.5	27.6	0.1	31	16.71
18-31-jul	17:05:08	592	27.9	28.7	0.8	31	16.71
18-31-jul	18:05:08	592	25.7	26.1	0.4	31	16.70
18-31-jul	19:05:08	592	24.9	24.5	-0.4	31	16.71
18-31-jul	20:05:08	592	26.0	25.0	-1.1	31	16.70
18-31-jul	21:05:08	593	23.1	23.0	-0.1	32	16.71
18-31-jul	22:05:08	593	21.5	21.3	-0.1	32	16.71
18-31-jul	23:05:08	593	20.5	19.9	-0.6	31	16.71

BGI PQ200 Air Sampling System

Downloaded 2018_07 aug 11:07:05

Job Details:

Job Name: 18Aug07D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3771:03
Flags:

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

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	33	10.7	21.5	°C
Q	---	---	16.7	Lpm

QCV 0.52 %
Max overheat 3.3 °C
occured 06-aug 15:06:46

Timer Information:

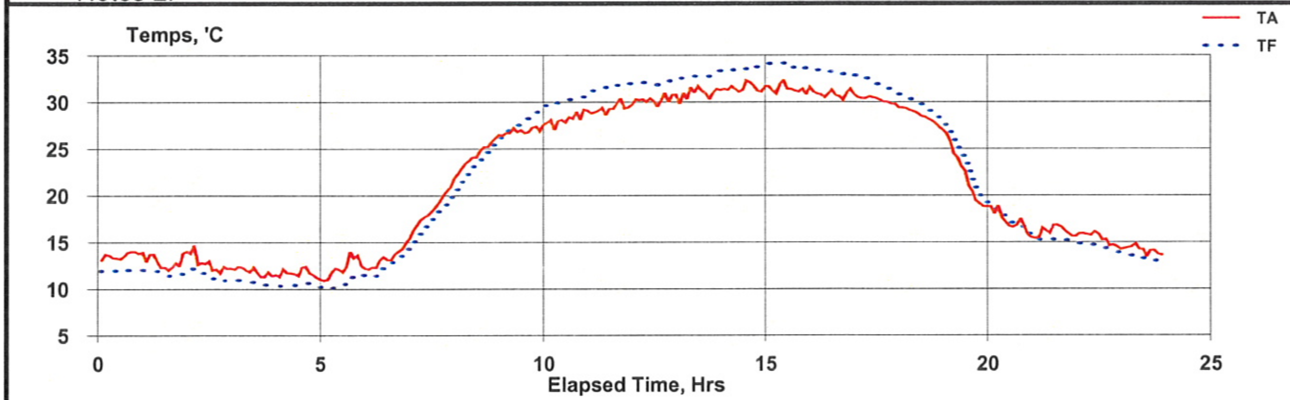
	Date dd-mmm	Time hh:mm:ss
Start:	18-06-aug	0:00:08
Stop:	18-07-aug	0:00:05

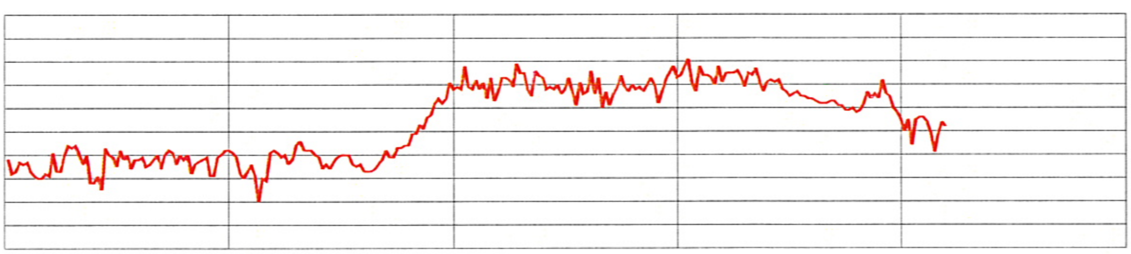
ET: 23:59

Mass Concentration Data:

Filter ID:	40	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.037	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-06-aug	0:05:08	592	13.6	11.9	-1.7	26	16.72
18-06-aug	1:05:08	592	12.9	11.7	-1.3	26	16.71
18-06-aug	2:05:08	592	12.7	11.4	-1.3	27	16.70
18-06-aug	3:05:08	592	11.8	10.7	-1.2	27	16.72
18-06-aug	4:05:08	592	11.7	10.4	-1.3	27	16.70
18-06-aug	5:05:08	592	12.3	10.7	-1.6	27	16.71
18-06-aug	6:05:08	593	13.5	12.6	-0.9	27	16.71
18-06-aug	7:05:08	593	18.8	17.5	-1.3	28	16.71
18-06-aug	8:05:08	593	24.5	23.4	-1.1	29	16.71
18-06-aug	9:05:08	593	27.0	27.8	0.9	30	16.70
18-06-aug	10:05:08	592	28.2	30.2	1.9	30	16.70
18-06-aug	11:05:08	592	29.3	31.6	2.3	31	16.72
18-06-aug	12:05:08	592	30.3	32.1	1.8	31	16.71
18-06-aug	13:05:08	592	31.0	32.8	1.8	31	16.72
18-06-aug	14:05:08	591	31.5	33.6	2.0	31	16.71
18-06-aug	15:05:08	591	31.4	33.8	2.4	32	16.70
18-06-aug	16:05:08	591	30.9	33.2	2.3	32	16.70
18-06-aug	17:05:08	591	30.2	31.9	1.7	32	16.70
18-06-aug	18:05:08	591	28.4	29.5	1.1	32	16.70
18-06-aug	19:05:08	591	22.0	23.3	1.3	32	16.70
18-06-aug	20:05:08	592	17.2	17.3	0.1	32	16.71
18-06-aug	21:05:08	592	16.1	15.2	-0.9	32	16.70
18-06-aug	22:05:08	592	15.3	14.4	-0.9	32	16.71
18-06-aug	23:05:08	592	14.1	13.2	-0.9	32	16.71

BGI PQ200 Air Sampling System
Downloaded 2018 15 aug 13:45:53

Job Details:

Job Name:	18Aug15D.JOB
Version:	5.62
Serial No:	2366
Pump Time:	3795:02
Flags:	

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	29.1	9.4	18.9	°C
Q	---	---	16.7	Lpm

QCV 0.53 %

Max overheat 5.7 °C

occured 15-aug 12:32:31

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-12-aug	0:00:08
Stop:	18-13-aug	0:00:04

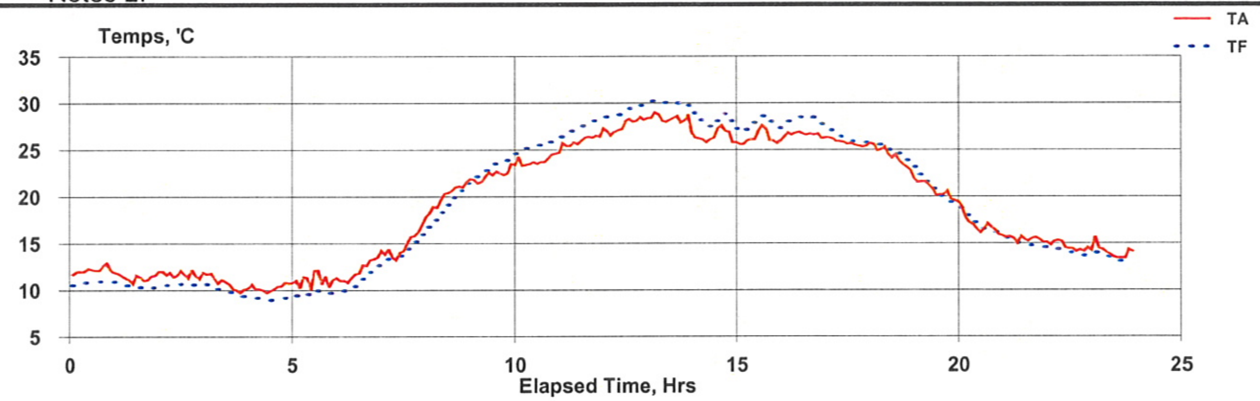
ET: 23:59

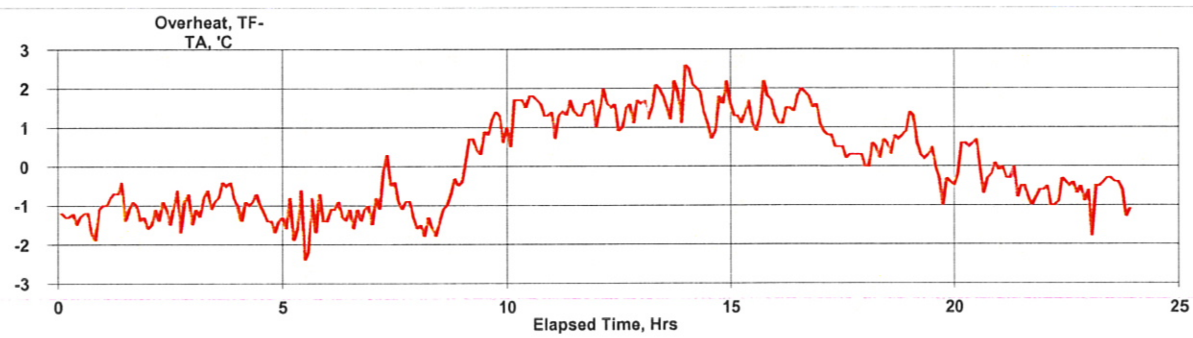
Mass Concentration Data:

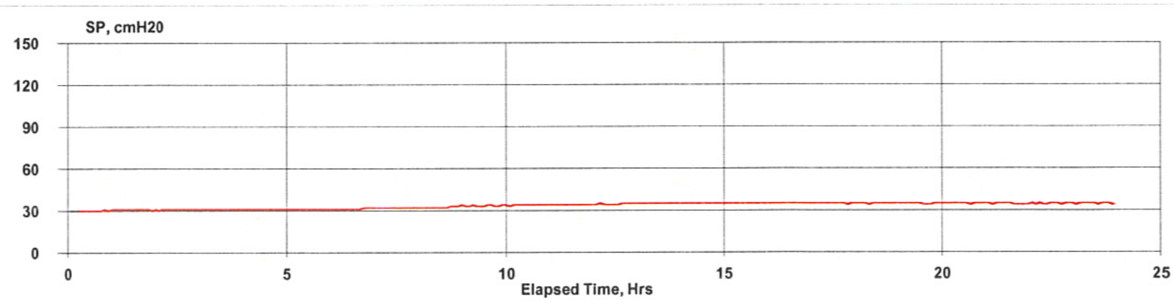
Filter ID:	19	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-12-aug	0:05:08	593	12.2	10.8	-1.3	30	16.71
18-12-aug	1:05:08	593	11.4	10.4	-1.0	31	16.71
18-12-aug	2:05:08	593	11.7	10.5	-1.2	31	16.72
18-12-aug	3:05:08	593	10.7	9.9	-0.8	31	16.71
18-12-aug	4:05:08	593	10.3	9.1	-1.2	31	16.71
18-12-aug	5:05:08	593	11.1	9.7	-1.4	31	16.70
18-12-aug	6:05:08	593	12.3	11.0	-1.2	31	16.71
18-12-aug	7:05:08	593	15.1	14.3	-0.8	32	16.71
18-12-aug	8:05:08	593	20.3	19.2	-1.1	32	16.72
18-12-aug	9:05:08	593	22.4	23.2	0.8	33	16.71
18-12-aug	10:05:08	593	23.9	25.4	1.5	34	16.71
18-12-aug	11:05:08	593	26.1	27.5	1.4	34	16.71
18-12-aug	12:05:08	592	27.7	29.2	1.5	35	16.71
18-12-aug	13:05:08	592	28.3	30.0	1.7	35	16.71
18-12-aug	14:05:08	592	26.4	28.1	1.7	35	16.70
18-12-aug	15:05:08	591	26.3	27.7	1.4	35	16.71
18-12-aug	16:05:08	591	26.6	28.1	1.5	35	16.70
18-12-aug	17:05:08	591	25.7	26.2	0.5	35	16.71
18-12-aug	18:05:08	591	24.1	24.7	0.6	35	16.72
18-12-aug	19:05:08	591	20.5	20.6	0.1	35	16.70
18-12-aug	20:05:08	592	16.8	17.0	0.1	35	16.71
18-12-aug	21:05:08	592	15.4	14.9	-0.5	35	16.71
18-12-aug	22:05:08	592	14.6	13.9	-0.6	35	16.71
18-12-aug	23:05:08	592	14.0	13.3	-0.7	35	16.70

BGI PQ200 Air Sampling System Downloaded 2018 20 aug 13:08:22

Job Details:

Job Name: 18Aug20D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3795:02
Flags:

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

Incorrect Data
Void

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	29.1	9.4	18.9	°C
Q	---	---	16.7	Lpm

QCV 0.53 %
Max overheat 5.7 °C
occured 15-aug 12:32:31

Timer Information:

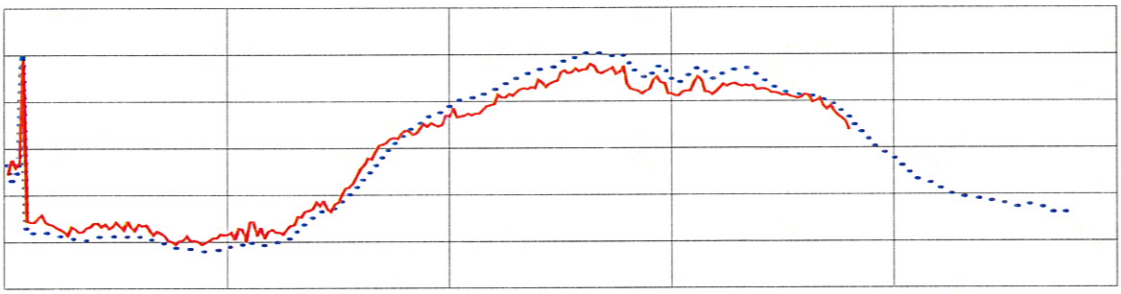
	Date dd-mmm	Time hh:mm:ss
Start:	18-12-aug	0:00:08
Stop:	18-13-aug	0:00:04

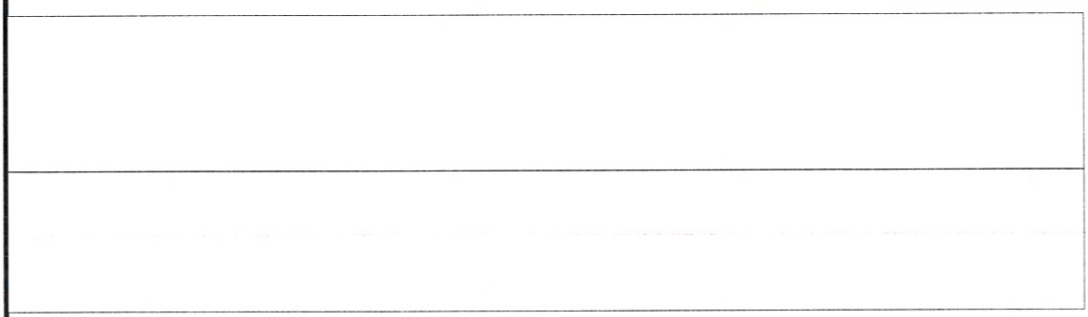
ET: 23:59

Mass Concentration Data:

Filter ID:	30	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





Overheat, TF-

18-15-aug	13:56:20	591	18.1	17.4	-0.7		0.00
18-15-aug	16:16:39	590	18.0	16.7	-1.3		0.00
18-15-aug	0.751377315	592	19.8	20.0	0.2	33	16.56
18-12-aug	19:05:08	591	20.5	20.6	0.1	35	16.70
18-12-aug	20:05:08	592	16.8	17.0	0.1	35	16.71
18-12-aug	21:05:08	592	15.4	14.9	-0.5	35	16.71
18-12-aug	22:05:08	592	14.6	13.9	-0.6	35	16.71
18-12-aug	23:05:08	592	14.0	13.3	-0.7	35	16.70

BGI PQ200 Air Sampling System Downloaded 2018 28 aug 13:11:29

Job Details:

Job Name: 18Aug28D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3819:01
Flags:

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

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	25.6	10.1	17.4	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 3.4 °C
occured 24-aug 15:24:49

Timer Information:

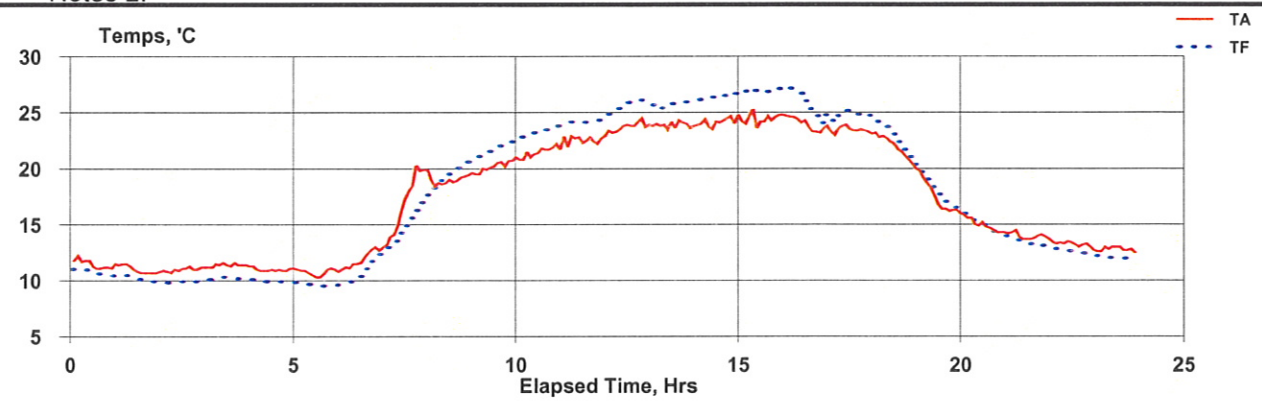
	Date dd-mmm	Time hh:mm:ss
Start:	18-24-aug	0:00:08
Stop:	18-25-aug	0:00:05

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:



Overheat, TF-

18-24-aug	0:05:08	593	11.5	10.8	-0.7	25	16.71
18-24-aug	1:05:08	592	11.0	10.2	-0.8	26	16.71
18-24-aug	2:05:08	592	11.0	9.9	-1.1	26	16.71
18-24-aug	3:05:08	592	11.4	10.2	-1.2	26	16.71
18-24-aug	4:05:08	592	11.0	10.0	-1.0	26	16.71
18-24-aug	5:05:08	592	10.8	9.6	-1.1	26	16.70
18-24-aug	6:05:08	592	12.0	10.8	-1.2	26	16.71
18-24-aug	7:05:08	593	17.2	14.9	-2.3	27	16.72
18-24-aug	8:05:08	592	19.0	19.4	0.5	28	16.71
18-24-aug	9:05:08	592	20.2	21.7	1.5	29	16.71
18-24-aug	10:05:08	592	21.5	23.3	1.8	29	16.71
18-24-aug	11:05:08	592	22.6	24.2	1.6	29	16.70
18-24-aug	12:05:08	592	23.8	25.6	1.9	29	16.70
18-24-aug	13:05:08	591	23.9	25.7	1.8	29	16.69
18-24-aug	14:05:08	591	24.2	26.4	2.2	29	16.70
18-24-aug	15:05:08	590	24.5	26.9	2.5	29	16.71
18-24-aug	16:05:08	590	24.0	25.9	1.9	29	16.70
18-24-aug	17:05:08	590	23.4	24.8	1.4	29	16.71
18-24-aug	18:05:08	590	21.8	22.7	0.9	29	16.71
18-24-aug	19:05:08	590	17.3	17.9	0.5	29	16.71
18-24-aug	20:05:08	591	14.9	14.9	0.0	29	16.70
18-24-aug	21:05:08	591	14.0	13.4	-0.6	29	16.71
18-24-aug	22:05:08	591	13.2	12.5	-0.7	29	16.72
18-24-aug	23:05:08	591	12.8	12.0	-0.8	29	16.71

BGI PQ200 Air Sampling System Downloaded 2018 31 aug 09:16:46

Job Details:

Job Name: 18Aug31D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3843:00
Flags:

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

	Max	Min	Avg	Units
BP	593	590	591	mmHg
TA	26.6	8.4	17.3	°C
Q	---	---	16.7	Lpm

QCV	0.55 %
Max overheat	2.8 °C
occured	30-aug 13:48:40

Timer Information:

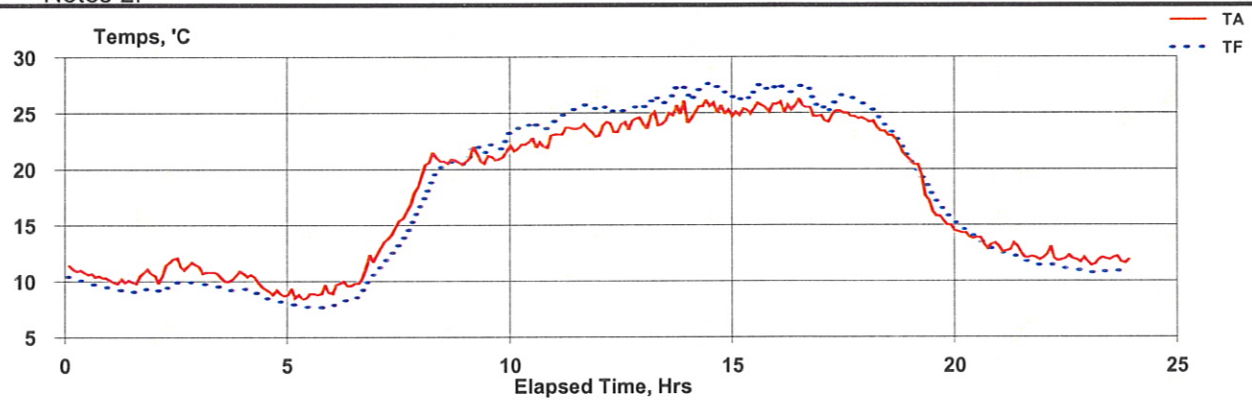
	Date dd-mmm	Time hh:mm:ss
Start:	18-30-aug	0:00:08
Stop:	18-31-aug	0:00:04

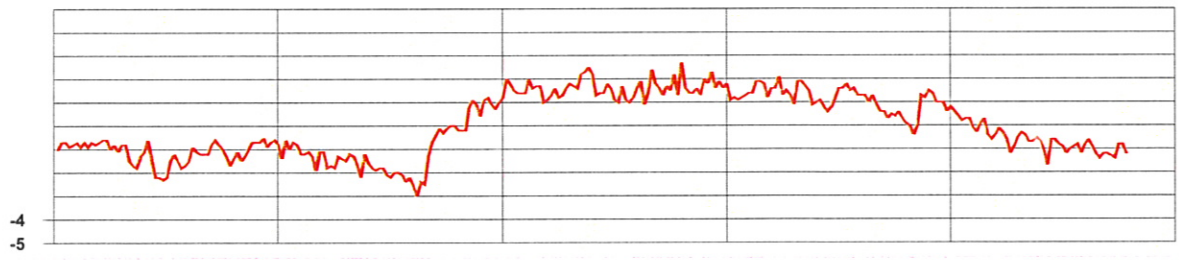
ET: 23:59

Mass Concentration Data:

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

Notes 1:
Notes 2:





18-30-aug	0:05:08	593	10.7	9.9	-0.8	26	16.71
18-30-aug	1:05:08	593	10.3	9.2	-1.1	26	16.71
18-30-aug	2:05:08	593	11.3	9.6	-1.7	26	16.71
18-30-aug	3:05:08	592	10.5	9.4	-1.1	27	16.71
18-30-aug	4:05:08	592	9.5	8.6	-0.9	27	16.71
18-30-aug	5:05:08	593	8.9	7.8	-1.1	27	16.71
18-30-aug	6:05:08	593	10.5	9.0	-1.6	27	16.70
18-30-aug	7:05:08	593	15.8	13.7	-2.1	29	16.71
18-30-aug	8:05:08	593	20.7	19.8	-0.9	30	16.72
18-30-aug	9:05:08	593	21.2	21.9	0.7	30	16.71
18-30-aug	10:05:08	593	22.3	23.8	1.6	31	16.71
18-30-aug	11:05:08	592	23.4	25.2	1.8	31	16.71
18-30-aug	12:05:08	592	24.0	25.3	1.4	31	16.72
18-30-aug	13:05:08	592	24.7	26.4	1.7	31	16.72
18-30-aug	14:05:08	591	25.3	27.0	1.7	31	16.71
18-30-aug	15:05:08	591	25.4	26.8	1.4	31	16.72
18-30-aug	16:05:08	591	25.4	26.9	1.5	32	16.70
18-30-aug	17:05:08	591	24.7	26.0	1.3	31	16.71
18-30-aug	18:05:08	591	22.8	23.4	0.7	31	16.71
18-30-aug	19:05:08	591	16.9	17.7	0.8	32	16.71
18-30-aug	20:05:08	591	13.7	13.7	0.0	32	16.71
18-30-aug	21:05:08	591	12.5	11.9	-0.6	32	16.70
18-30-aug	22:05:08	591	12.1	11.1	-1.0	31	16.71
18-30-aug	23:05:08	591	11.8	10.8	-1.1	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 07 sep 14:22:06

Job Details:

Job Name: 18Sep07D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3866:59
Flags:

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

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	21.8	9.6	14.1	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 3.8 °C
occured 06-sep 17:09:49

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-05-sep	0:00:08
Stop:	18-06-sep	0:00:05

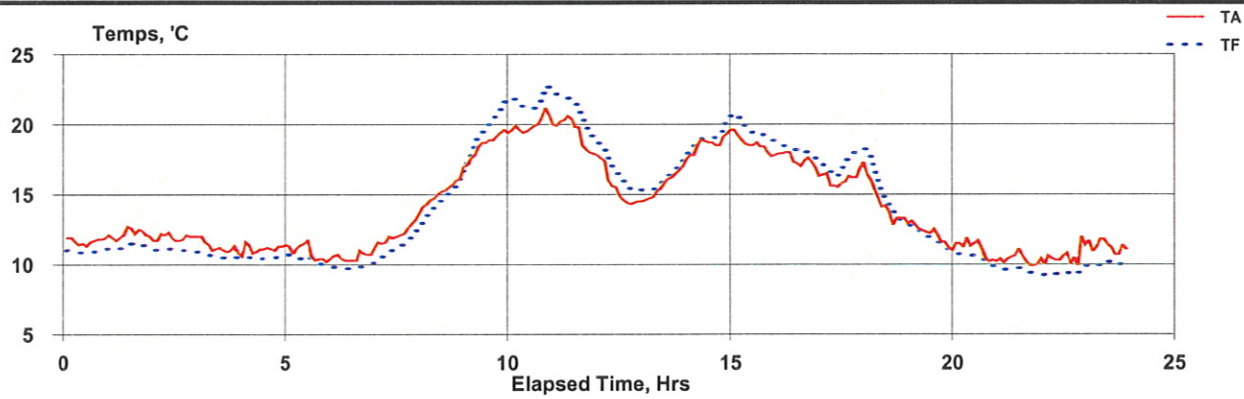
ET: 23:59

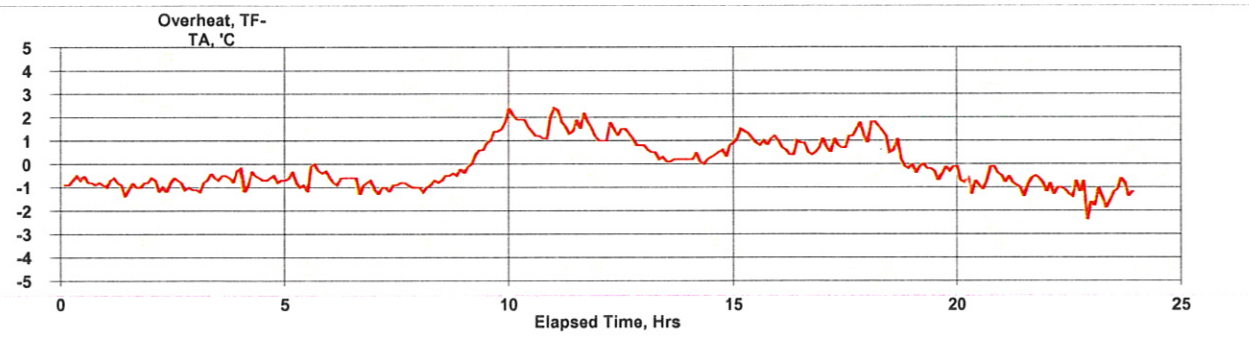
Mass Concentration Data:

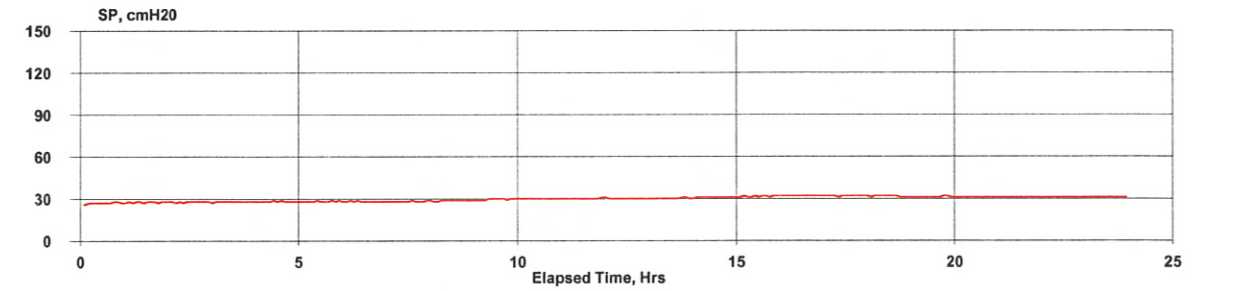
Filter ID: 34
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 ug/m3

Notes 1:
Notes 2:







18-05-sep	0:05:08	593	11.7	10.9	-0.8	27	16.70
18-05-sep	1:05:08	593	12.2	11.3	-0.9	28	16.72
18-05-sep	2:05:08	593	12.0	11.0	-0.9	28	16.71
18-05-sep	3:05:08	592	11.2	10.6	-0.6	28	16.71
18-05-sep	4:05:08	592	11.2	10.5	-0.7	28	16.71
18-05-sep	5:05:08	593	10.9	10.3	-0.5	28	16.71
18-05-sep	6:05:08	593	10.6	9.8	-0.8	28	16.71
18-05-sep	7:05:08	594	12.3	11.3	-1.0	28	16.71
18-05-sep	8:05:08	594	15.3	14.6	-0.7	29	16.71
18-05-sep	9:05:08	594	18.6	19.6	1.0	30	16.71
18-05-sep	10:05:08	594	20.0	21.7	1.7	30	16.72
18-05-sep	11:05:08	594	19.3	20.9	1.6	30	16.70
18-05-sep	12:05:08	594	15.3	16.5	1.2	30	16.72
18-05-sep	13:05:08	594	15.9	16.2	0.3	30	16.71
18-05-sep	14:05:08	594	18.7	19.1	0.4	31	16.71
18-05-sep	15:05:08	594	18.5	19.6	1.1	32	16.71
18-05-sep	16:05:08	594	17.4	18.1	0.7	32	16.72
18-05-sep	17:05:08	594	16.2	17.2	1.0	32	16.71
18-05-sep	18:05:08	594	14.2	15.0	0.8	32	16.71
18-05-sep	19:05:08	594	12.1	11.9	-0.2	31	16.72
18-05-sep	20:05:08	594	11.1	10.4	-0.6	31	16.71
18-05-sep	21:05:08	594	10.3	9.5	-0.8	31	16.70
18-05-sep	22:05:08	595	10.6	9.4	-1.2	31	16.73
18-05-sep	23:05:08	595	11.3	10.0	-1.3	31	16.71

BGI PQ200 Air Sampling System Downloaded 2018 13 sep 12:26:53

Job Details:

Job Name: 18Sep13D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3890:58
Flags:

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

	Max	Min	Avg	Units
BP	591	587	589	mmHg
TA	26.8	8.9	17.3	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 3.5 °C
occured 12-sep 20:29:18

Timer Information:

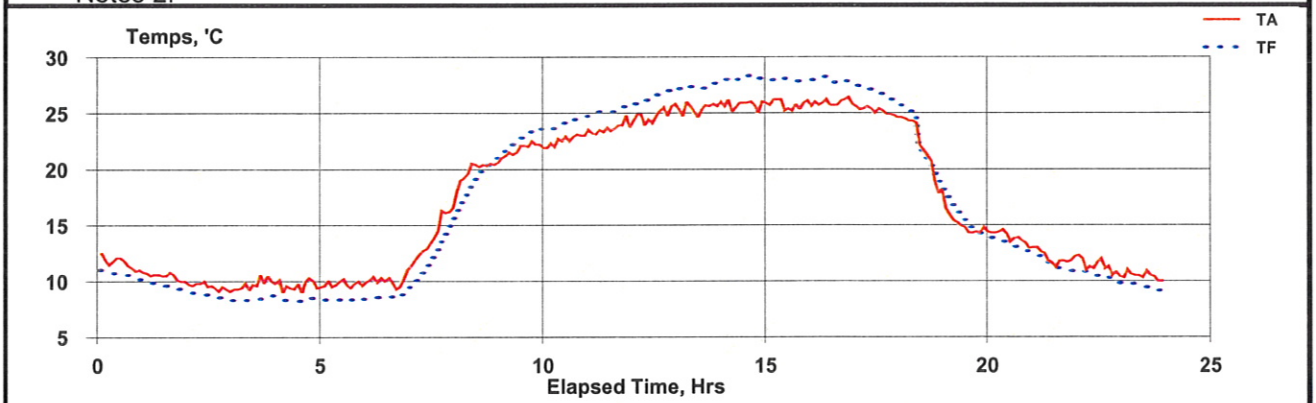
	Date dd-mmm	Time hh:mm:ss
Start:	18-11-sep	0:00:08
Stop:	18-12-sep	0:00:05

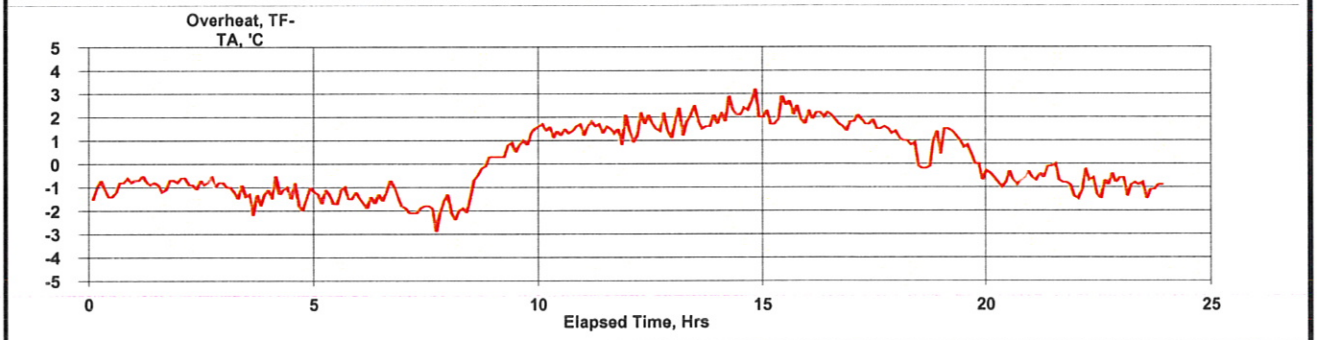
ET: 23:59

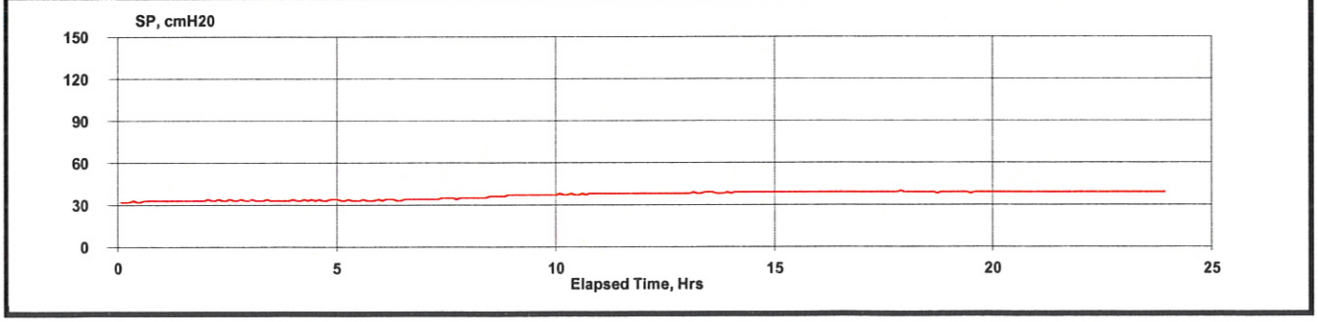
Mass Concentration Data:

Filter ID:	26	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.04	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-11-sep	0:05:08	590	11.6	10.6	-1.0	33	16.72
18-11-sep	1:05:08	590	10.4	9.6	-0.8	33	16.71
18-11-sep	2:05:08	590	9.5	8.7	-0.8	33	16.71
18-11-sep	3:05:08	590	9.8	8.4	-1.4	33	16.71
18-11-sep	4:05:08	590	9.6	8.3	-1.3	34	16.71
18-11-sep	5:05:08	590	9.8	8.4	-1.4	33	16.72
18-11-sep	6:05:08	590	10.3	8.8	-1.5	34	16.71
18-11-sep	7:05:08	590	15.2	13.2	-2.0	35	16.72
18-11-sep	8:05:08	590	20.4	19.7	-0.7	36	16.71
18-11-sep	9:05:08	590	22.0	23.0	1.1	37	16.71
18-11-sep	10:05:08	590	22.9	24.3	1.5	38	16.71
18-11-sep	11:05:08	590	24.0	25.4	1.4	38	16.71
18-11-sep	12:05:08	589	25.0	26.7	1.7	38	16.71
18-11-sep	13:05:08	589	25.5	27.5	2.0	39	16.71
18-11-sep	14:05:08	589	25.8	28.1	2.2	39	16.70
18-11-sep	15:05:08	588	25.7	27.9	2.2	39	16.71
18-11-sep	16:05:08	588	25.8	27.7	1.8	39	16.71
18-11-sep	17:05:08	588	24.8	26.2	1.4	39	16.71
18-11-sep	18:05:08	588	20.9	21.3	0.4	39	16.71
18-11-sep	19:05:08	588	15.3	15.9	0.7	39	16.71
18-11-sep	20:05:08	589	13.9	13.3	-0.6	39	16.71
18-11-sep	21:05:08	589	12.1	11.5	-0.6	39	16.70
18-11-sep	22:05:08	589	11.3	10.4	-0.9	39	16.71
18-11-sep	23:05:08	589	10.5	9.5	-1.0	39	16.72

BGI PQ200 Air Sampling System Downloaded 2018 18 sep 11:07:54

Job Details:

Job Name: 18Sep18D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3914:57
Flags:

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

	Max	Min	Avg	Units
BP	592	589	590	mmHg
TA	27.2	10.1	17.8	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 3.2 °C
occured 17-sep 14:32:25

Timer Information:

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

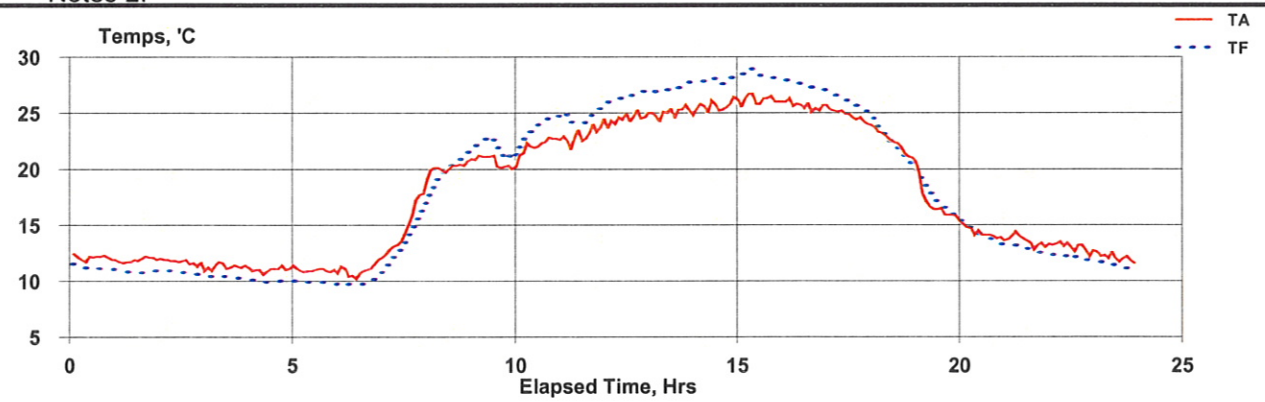
ET: 23:59

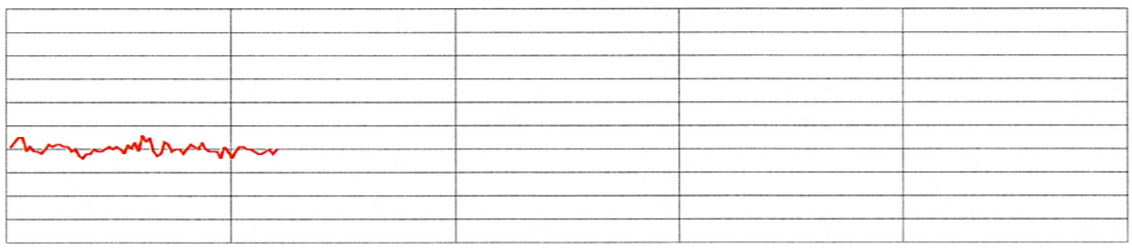
Mass Concentration Data:

Filter ID: 16
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-17-sep	0:05:08	591	12.1	11.2	-0.9	29	16.71
18-17-sep	1:05:08	591	11.9	10.8	-1.1	29	16.71
18-17-sep	2:05:08	591	11.7	10.7	-0.9	29	16.71
18-17-sep	3:05:08	591	11.3	10.3	-1.0	29	16.71
18-17-sep	4:05:08	591	11.1	10.0	-1.0	29	16.71
18-17-sep	5:05:08	592	10.9	9.9	-1.1	29	16.71
18-17-sep	6:05:08	592	11.1	9.9	-1.2	30	16.70
18-17-sep	7:05:08	592	15.1	13.8	-1.4	30	16.72
18-17-sep	8:05:08	592	20.2	20.0	-0.2	32	16.71
18-17-sep	9:05:08	592	20.6	21.9	1.3	32	16.71
18-17-sep	10:05:08	592	22.2	23.7	1.5	33	16.71
18-17-sep	11:05:08	591	23.1	24.7	1.6	33	16.71
18-17-sep	12:05:08	591	24.5	26.4	1.9	33	16.70
18-17-sep	13:05:08	591	25.0	27.2	2.2	33	16.71
18-17-sep	14:05:08	590	25.7	27.8	2.2	33	16.71
18-17-sep	15:05:08	590	26.2	28.4	2.2	33	16.71
18-17-sep	16:05:08	589	25.7	27.4	1.8	33	16.71
18-17-sep	17:05:08	589	24.7	25.9	1.2	33	16.70
18-17-sep	18:05:08	590	22.2	22.2	0.0	33	16.71
18-17-sep	19:05:08	590	16.6	17.3	0.7	33	16.71
18-17-sep	20:05:08	590	14.2	14.2	-0.1	33	16.71
18-17-sep	21:05:08	591	13.6	12.8	-0.7	33	16.71
18-17-sep	22:05:08	590	13.0	12.1	-0.9	33	16.71
18-17-sep	23:05:08	591	12.1	11.3	-0.7	33	16.71

BGI PQ200 Air Sampling System Downloaded 2018 25 sep 13:21:59

Job Details:

Job Name: 18Sep25D.JOB
Version: 5.62
Serial No: 2366
Pump Time: 3938:56
Flags:

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

	Max	ot	Avg	Units
BP	592	588	590	mmHg
TA	24.5	7.9	15.3	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 3.1 °C
occured 24-sep 19:33:42

Timer Information:

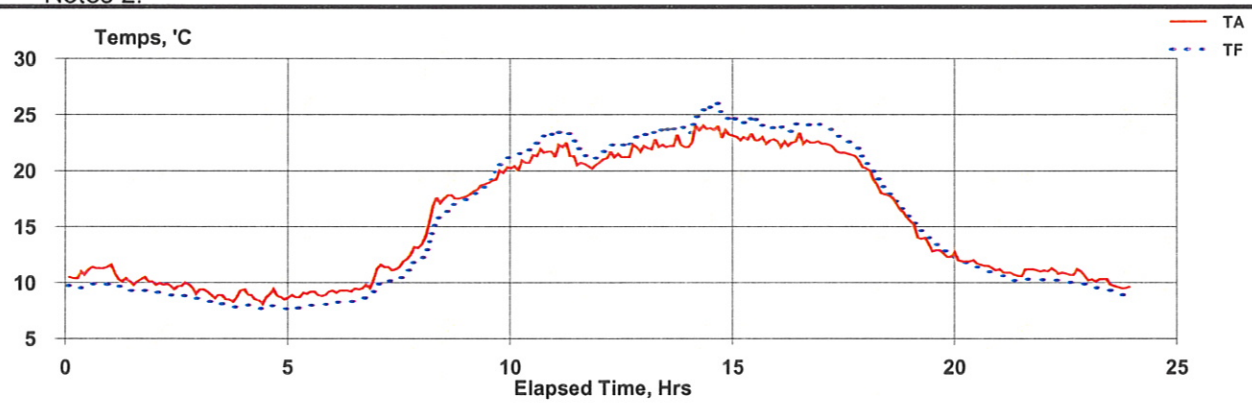
	Date dd-mmm	Time hh:mm:ss
Start:	18-23-sep	0:00:08
Stop:	18-24-sep	0:00:05

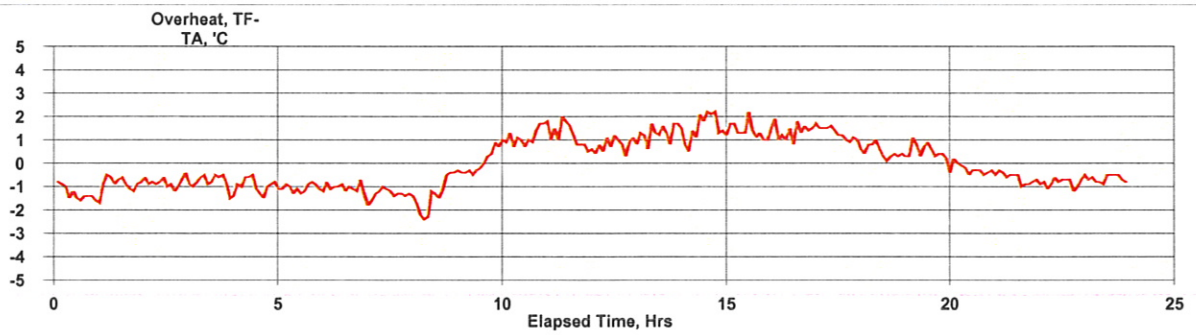
ET: 23:59

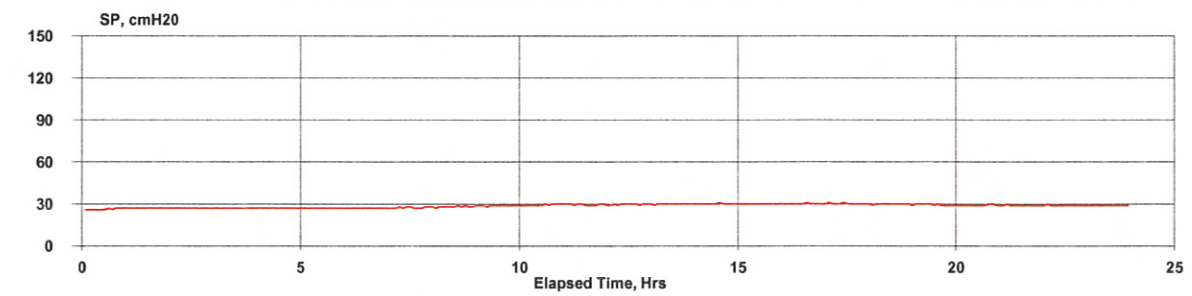
Mass Concentration Data:

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

Notes 1:
Notes 2:







18-23-sep	0:05:08	591	11.0	9.7	-1.3	26	16.70
18-23-sep	1:05:08	591	10.2	9.4	-0.8	27	16.70
18-23-sep	2:05:08	591	9.7	8.8	-0.8	27	16.72
18-23-sep	3:05:08	591	8.9	8.1	-0.8	27	16.71
18-23-sep	4:05:08	591	8.7	7.8	-0.9	27	16.71
18-23-sep	5:05:08	591	9.0	7.9	-1.1	27	16.72
18-23-sep	6:05:08	592	9.6	8.5	-1.1	27	16.71
18-23-sep	7:05:08	592	12.0	10.7	-1.3	28	16.71
18-23-sep	8:05:08	592	17.0	15.8	-1.3	28	16.71
18-23-sep	9:05:08	592	19.1	19.2	0.1	29	16.71
18-23-sep	10:05:08	591	21.1	22.3	1.2	29	16.71
18-23-sep	11:05:08	591	21.1	22.2	1.1	30	16.71
18-23-sep	12:05:08	591	21.5	22.3	0.8	30	16.70
18-23-sep	13:05:08	590	22.3	23.6	1.3	30	16.72
18-23-sep	14:05:08	589	23.5	25.0	1.5	30	16.71
18-23-sep	15:05:08	589	22.8	24.2	1.4	30	16.71
18-23-sep	16:05:08	589	22.5	23.9	1.4	30	16.71
18-23-sep	17:05:08	588	21.4	22.7	1.2	30	16.71
18-23-sep	18:05:08	589	17.5	18.0	0.5	30	16.71
18-23-sep	19:05:08	589	13.3	13.7	0.5	30	16.71
18-23-sep	20:05:08	589	11.6	11.4	-0.3	29	16.71
18-23-sep	21:05:08	589	11.0	10.3	-0.7	29	16.71
18-23-sep	22:05:08	589	10.9	10.1	-0.8	29	16.71
18-23-sep	23:05:08	589	9.9	9.2	-0.7	29	16.71

Collocated Monitor 2398E

PM_{10} Sampler Summary

July 1, 2018 - September 30, 2018

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

Date	Filter ID	Concentration (µg/m3) LTP	Concentration (µg/m3) STP	Sample Period (hr:min)	Sample Volume (m3)	Std Volume (m3)	Mass Tare (mg)	Mass Gross (mg)	Mass Net (mg)	Flag	Comments
07/01/18	P2948708	6.7	8.5	24:00	24.0	19.0	391.0840	391.2474	0.1634		
07/07/18	P2948713	Invalid - AI	Invalid - AI				397.6660	398.2978	0.6318	SP,MD	No data
07/13/18	P2948719	220.6	276.3	23:59	24.0	19.2	396.2970	401.5984	5.3014	EH	Loose particles
07/19/18	P2948952	64.4	80.8	23:59	24.0	19.1	392.9267	394.4748	1.5481		
07/25/18	P2948958	34.6	43.8	23:59	24.0	19.0	391.9415	392.7743	0.8328		
07/31/18	P2949159	68.7	87.3	23:59	24.0	18.9	393.0424	394.6956	1.6532		
08/06/18	P2949164	83.8	106.3	23:59	24.0	18.9	393.5857	395.6012	2.0155		
08/12/18	P2949403	13.7	17.2	23:59	24.0	19.1	396.0417	396.3716	0.3299		
08/18/18	P2949408	Invalid - AG	Invalid - AG	1:24	1.4	1.2	393.9629	393.9846	0.0217	SP	
08/24/18	P2949413	28.2	35.2	23:59	24.0	19.2	394.0541	394.7321	0.6780	HT	
08/30/18	P2949634	169.7	211.9	23:59	24.0	19.3	395.8089	399.8890	4.0801	HT,EH	
09/05/18	P2949639	46.2	57.0	23:59	24.0	19.5	394.4182	395.5300	1.1118		
09/11/18	P2949886	95.2	119.5	23:59	24.0	19.2	393.8432	396.1326	2.2894		
09/17/18	P2950119	83.6	105.0	23:59	24.0	19.2	388.4291	390.4406	2.0115		
09/23/18	P2949892	15.7	19.6	23:59	24.0	19.3	388.8324	389.2117	0.3793		
09/29/18	P2950122	114.6	143.1	23:59	24.0	19.3	393.5801	396.3359	2.7558		

# Valid	Recovery	Average	St. Dev.	Max	Min
14	88%	93.7	76.8	276.3	8.5

BGI PQ200 Air Sampling System Downloaded 2018 03 jul 10:41:52

Job Details:

Job Name: 18Jul03E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1270:09
Flags:

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

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	32.2	9.3	21.1	°C
Q	---	---	16.7	Lpm

QCV 0.52 %

Max overheat 4.4 °C
occured 02-jul 20:24:09

Timer Information:

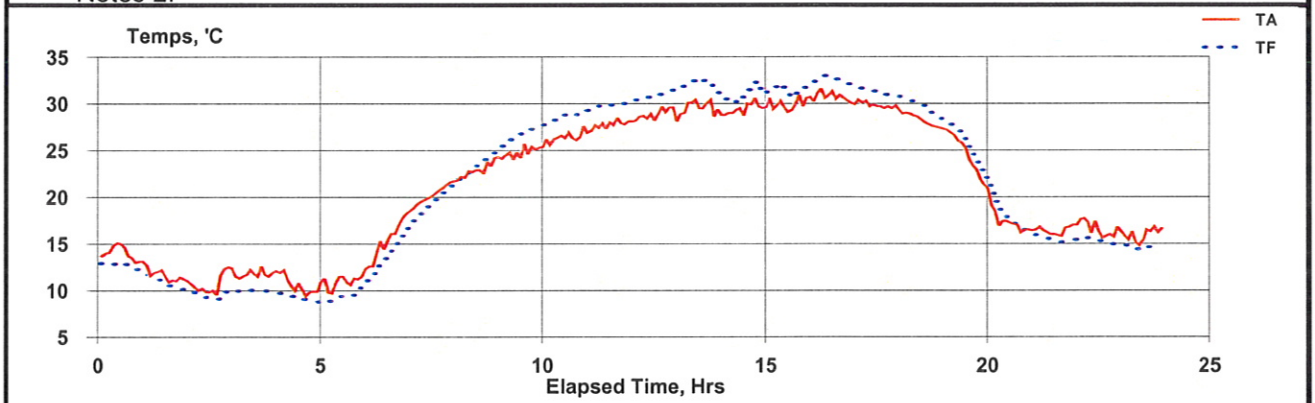
	Date dd-mmm	Time hh:mm:ss
Start:	18-01-jul	0:00:08
Stop:	18-02-jul	0:00:05

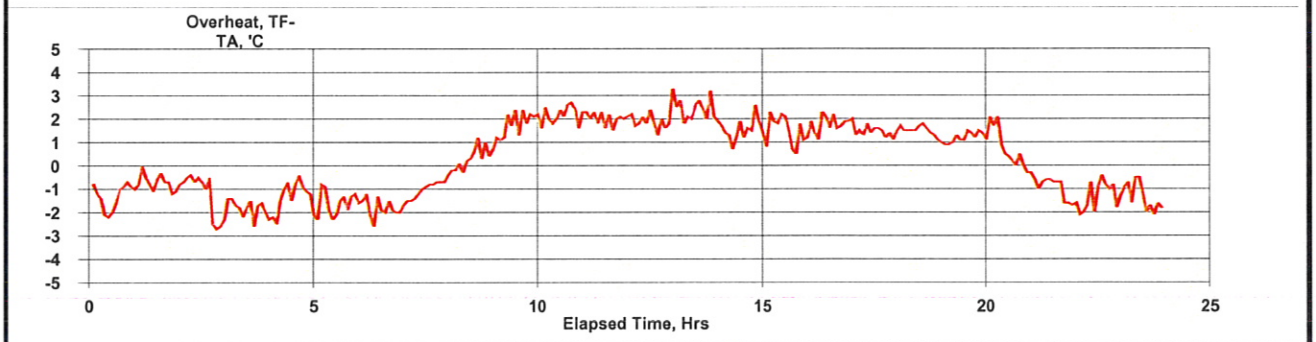
ET: 24:00:00

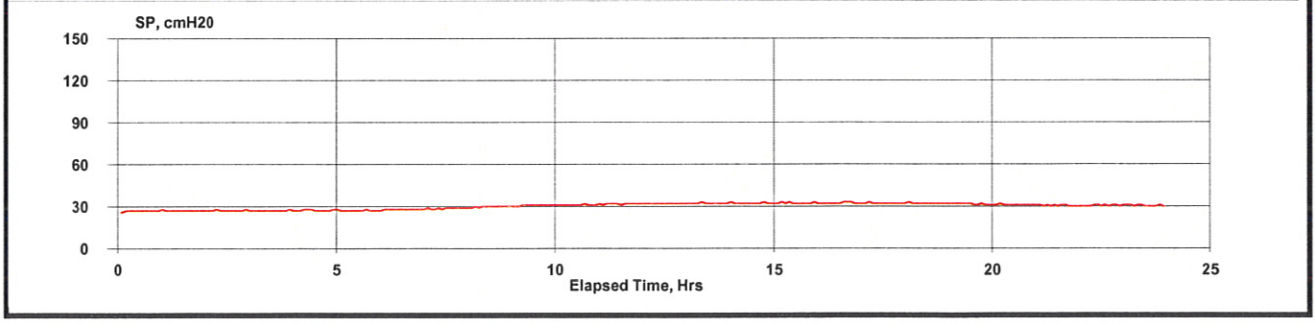
Mass Concentration Data:

Filter ID:	21	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:







18-01-jul	0:05:12	593	14.0	12.7	-1.3	27	16.71
18-01-jul	1:05:12	593	11.5	10.8	-0.7	27	16.71
18-01-jul	2:05:12	593	10.8	9.5	-1.3	27	16.71
18-01-jul	3:05:12	593	11.8	9.9	-1.8	27	16.71
18-01-jul	4:05:12	593	10.6	9.2	-1.3	27	16.71
18-01-jul	5:05:12	594	11.0	9.4	-1.6	27	16.71
18-01-jul	6:05:12	594	15.7	13.9	-1.8	28	16.70
18-01-jul	7:05:12	595	20.3	19.4	-1.0	29	16.71
18-01-jul	8:05:12	595	23.0	23.3	0.3	30	16.71
18-01-jul	9:05:12	595	24.8	26.6	1.8	31	16.71
18-01-jul	10:05:12	595	26.5	28.6	2.2	31	16.70
18-01-jul	11:05:12	595	27.8	29.8	2.0	32	16.71
18-01-jul	12:05:12	594	28.8	30.8	2.0	32	16.71
18-01-jul	13:05:12	594	29.6	31.9	2.4	32	16.71
18-01-jul	14:05:12	594	29.5	31.0	1.5	32	16.70
18-01-jul	15:05:12	593	30.0	31.5	1.5	32	16.70
18-01-jul	16:05:12	593	30.7	32.5	1.8	32	16.71
18-01-jul	17:05:12	593	29.8	31.2	1.4	32	16.71
18-01-jul	18:05:12	593	28.2	29.6	1.5	32	16.71
18-01-jul	19:05:12	593	24.3	25.5	1.2	32	16.70
18-01-jul	20:05:12	594	17.2	17.8	0.7	31	16.70
18-01-jul	21:05:12	594	16.4	15.4	-1.0	30	16.70
18-01-jul	22:05:12	594	16.6	15.3	-1.3	31	16.71
18-01-jul	23:05:12	594	15.9	14.6	-1.3	30	16.71

BGI PQ200 Air Sampling System Downloaded 2018 15 aug 09:16:03

Job Details:

Job Name:	18Jul09E.JOB
Version:	
Serial No:	
Pump Time:	
Flags:	

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

	Max	Min	Avg	Units
BP	0	0	0	mmHg
TA	0	0	0	°C
Q	---	---	0	Lpm

QCV	0 %
Max overheat occured	0 °C

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:		
Stop:		
ET:		

Mass Concentration Data:

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

Notes 1:

Notes 2:

yy-dd-mmm	hh:mm:ss	mmHg	°C	°C	°C	cmH2O	aLpm

BGI PQ200 Air Sampling System Downloaded 2018 16 jul 14:14:24

Job Details:

Job Name: 18Jul16E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1318:07
Flags:

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

	Max	Min	Avg	Units
BP	597	593	595	mmHg
TA	29.2	12.5	19.2	°C
Q	---	---	16.7	Lpm

QCV 0.56 %
Max overheat 8.7 °C
occured 16-jul 12:50:44

Timer Information:

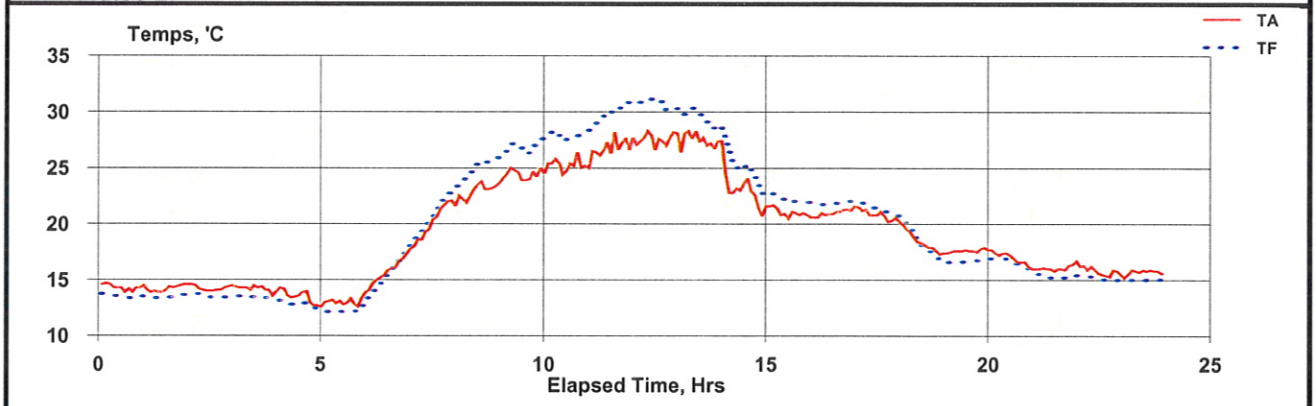
	Date dd-mmm	Time hh:mm:ss
Start:	18-13-jul	0:00:08
Stop:	18-14-jul	0:00:05

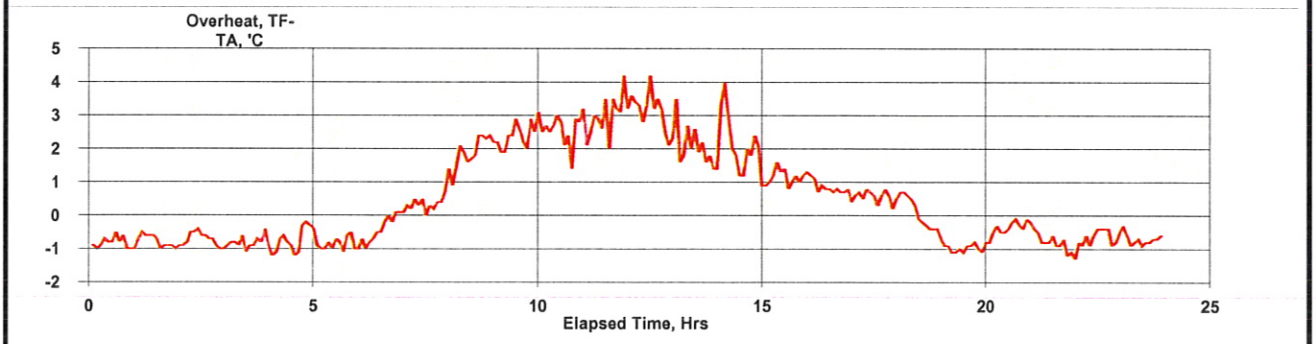
ET: 23:59

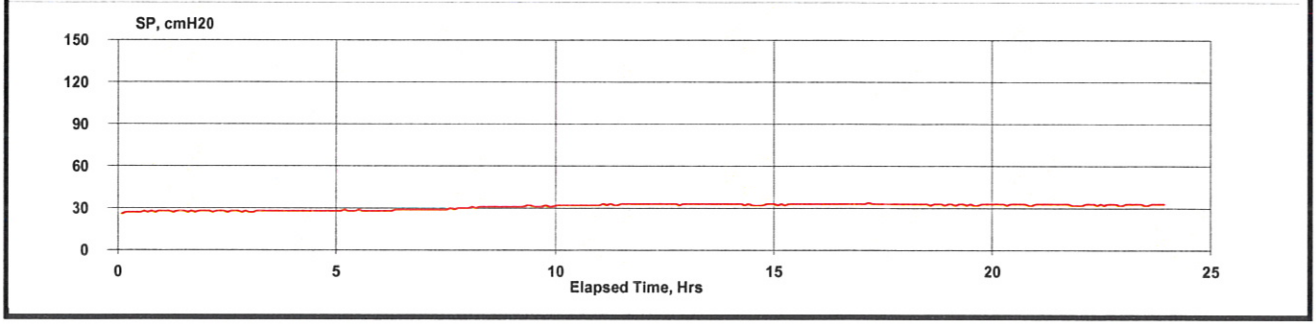
Mass Concentration Data:

Filter ID:	37	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.039	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-13-jul	0:05:08	595	14.3	13.5	-0.8	27	16.71
18-13-jul	1:05:08	595	14.2	13.5	-0.8	28	16.71
18-13-jul	2:05:08	595	14.2	13.5	-0.7	28	16.71
18-13-jul	3:05:08	595	14.2	13.4	-0.8	28	16.70
18-13-jul	4:05:08	595	13.5	12.7	-0.7	28	16.71
18-13-jul	5:05:08	595	13.1	12.2	-0.9	28	16.71
18-13-jul	6:05:08	596	15.9	15.6	-0.4	29	16.71
18-13-jul	7:05:08	596	20.3	20.7	0.4	29	16.71
18-13-jul	8:05:08	597	23.0	24.9	1.9	31	16.72
18-13-jul	9:05:08	597	24.4	26.9	2.4	31	16.70
18-13-jul	10:05:08	597	25.3	27.9	2.6	32	16.71
18-13-jul	11:05:08	597	26.9	29.9	3.0	33	16.72
18-13-jul	12:05:08	596	27.6	30.7	3.1	33	16.72
18-13-jul	13:05:08	596	27.5	29.5	2.0	33	16.71
18-13-jul	14:05:08	596	22.8	24.9	2.1	33	16.71
18-13-jul	15:05:08	596	21.0	22.2	1.2	33	16.71
18-13-jul	16:05:08	596	21.0	21.8	0.8	33	16.71
18-13-jul	17:05:08	596	20.8	21.4	0.6	33	16.71
18-13-jul	18:05:08	596	18.4	18.4	0.0	33	16.71
18-13-jul	19:05:08	596	17.6	16.7	-1.0	33	16.71
18-13-jul	20:05:08	596	16.9	16.6	-0.4	33	16.70
18-13-jul	21:05:08	596	16.1	15.3	-0.8	33	16.71
18-13-jul	22:05:08	596	15.8	15.2	-0.6	33	16.71
18-13-jul	23:05:08	596	15.7	15.0	-0.7	33	16.71

BGI PQ200 Air Sampling System

Downloaded 2018 20 jul 10:29:28

Job Details:			
Job Name:	18Jul20E.JOB	Job Code:	
Version:	5.62	Site Name:	
Serial No:	2398	Station Code:	
Pump Time:	1342:06	Operators:	
		User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
Flags:		User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	599	594	596	mmHg
TA	32.6	14	20.4	°C
Q	---	---	16.7	Lpm
QCV			0.54	%
Max overheat			5.3	°C

occured 19-jul 12:44:55

Timer Information:

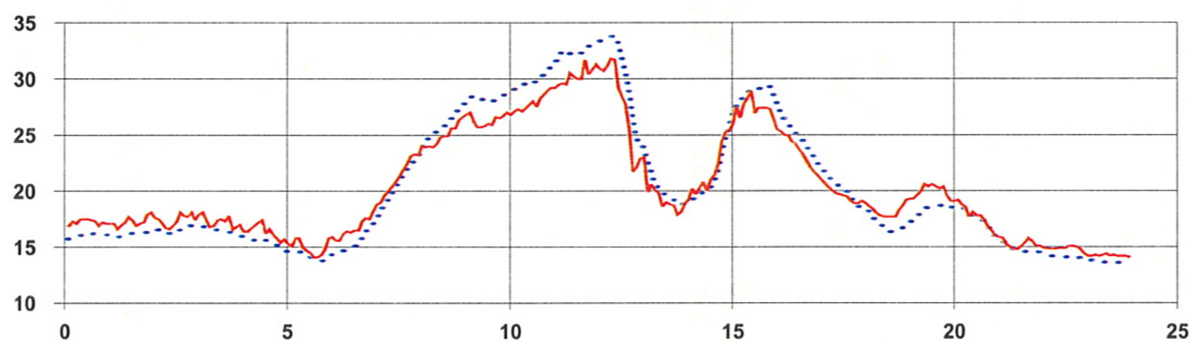
	Date dd-mmm	Time hh:mm:ss
Start:	18-19-jul	0:00:08
Stop:	18-20-jul	0:00:05
ET:	23:59	

Mass Concentration Data:

Filter ID:	9	
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:



Overheat, TF-

18-19-jul	0:05:08	596	17.2	16.0	-1.2	28	16.71
18-19-jul	1:05:08	596	17.3	16.2	-1.1	28	16.72
18-19-jul	2:05:08	596	17.4	16.5	-0.9	28	16.71
18-19-jul	3:05:08	596	17.2	16.4	-0.7	28	16.71
18-19-jul	4:05:08	596	16.3	15.4	-0.9	28	16.71
18-19-jul	5:05:08	596	15.0	14.2	-0.8	28	16.71
18-19-jul	6:05:08	596	16.9	15.5	-1.4	28	16.71
18-19-jul	7:05:08	597	21.6	20.9	-0.7	30	16.71
18-19-jul	8:05:08	597	25.1	26.0	0.9	30	16.71
18-19-jul	9:05:08	597	26.3	28.3	2.0	31	16.70
18-19-jul	10:05:08	597	28.0	30.0	1.9	32	16.72
18-19-jul	11:05:08	597	30.4	32.5	2.1	32	16.71
18-19-jul	12:05:08	597	27.2	30.0	2.8	32	16.70
18-19-jul	13:05:08	596	19.1	19.9	0.8	31	16.71
18-19-jul	14:05:08	596	22.2	21.6	-0.6	31	16.71
18-19-jul	15:05:08	596	27.3	28.7	1.4	32	16.71
18-19-jul	16:05:08	596	23.3	24.6	1.3	32	16.71
18-19-jul	17:05:08	596	19.5	20.0	0.4	31	16.71
18-19-jul	18:05:08	596	18.3	16.9	-1.3	30	16.70
18-19-jul	19:05:08	597	19.9	18.3	-1.6	31	16.70
18-19-jul	20:05:08	598	17.6	17.4	-0.2	31	16.71
18-19-jul	21:05:08	598	15.2	14.7	-0.5	31	16.71
18-19-jul	22:05:08	597	14.8	14.1	-0.8	31	16.71
18-19-jul	23:05:08	597	14.2	13.6	-0.6	31	16.70

BGI PQ200 Air Sampling System

Downloaded 2018 26 jul 11:15:17

Job Details:

Job Name:	18Jul26E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	1366:05
Flags:	

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

	Max	Min	Avg	Units
BP	598	595	596	mmHg
TA	33.7	13.9	23	°C
Q	---	---	16.7	Lpm

QCV	0.49	%
Max overheat	5.5	°C
occured	25-jul 12:27:54	

Timer Information:

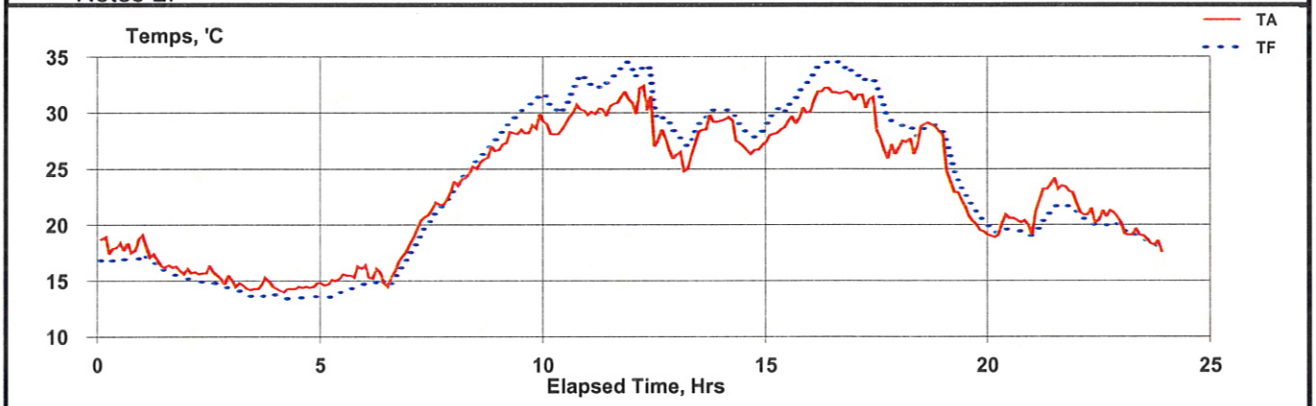
	Date dd-mmm	Time hh:mm:ss
Start:	18-25-jul	0:00:08
Stop:	18-26-jul	0:00:05
ET:	23:59	

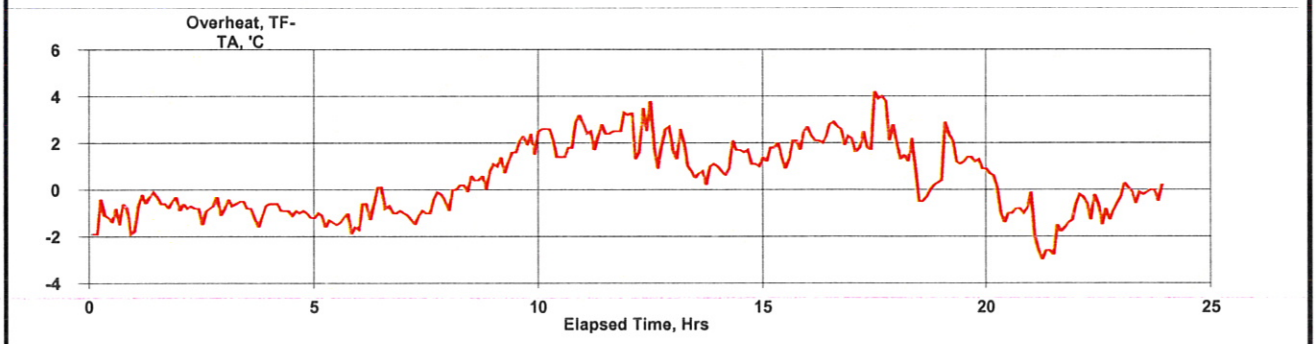
Mass Concentration Data:

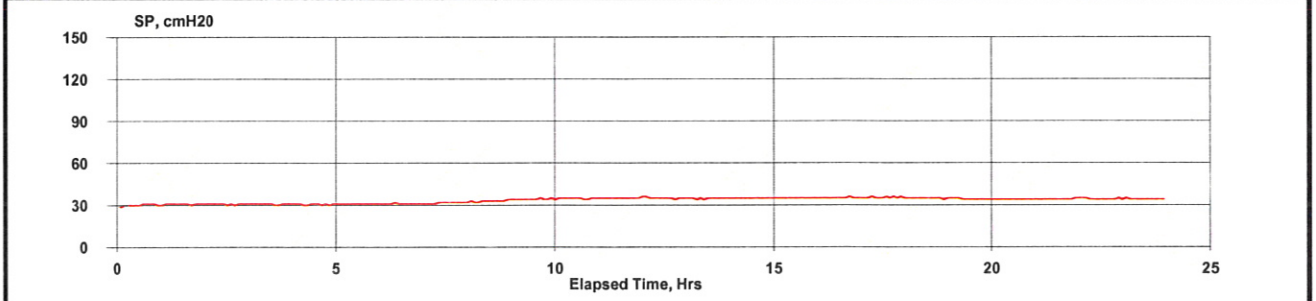
Filter ID:	16	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.035	m^3
Mass Conc:	0	ug/m3

Notes 1:

Notes 2:







18-25-jul	0:05:08	597	18.2	16.9	-1.3	30	16.71
18-25-jul	1:05:08	597	16.5	16.0	-0.5	31	16.70
18-25-jul	2:05:08	597	15.6	14.7	-0.8	31	16.71
18-25-jul	3:05:08	597	14.6	13.8	-0.8	31	16.71
18-25-jul	4:05:08	597	14.4	13.5	-0.9	31	16.74
18-25-jul	5:05:08	597	15.4	14.1	-1.4	31	16.71
18-25-jul	6:05:08	597	16.1	15.4	-0.7	31	16.71
18-25-jul	7:05:08	598	21.4	20.6	-0.8	32	16.70
18-25-jul	8:05:08	598	25.4	25.7	0.3	33	16.71
18-25-jul	9:05:08	598	28.4	30.1	1.7	34	16.70
18-25-jul	10:05:08	598	29.3	31.5	2.2	35	16.71
18-25-jul	11:05:08	598	30.7	33.2	2.5	35	16.71
18-25-jul	12:05:08	597	28.8	31.1	2.3	35	16.71
18-25-jul	13:05:08	597	27.7	28.8	1.1	35	16.70
18-25-jul	14:05:08	597	27.6	28.9	1.3	35	16.70
18-25-jul	15:05:08	597	29.1	30.9	1.8	35	16.70
18-25-jul	16:05:08	596	31.8	34.1	2.4	35	16.73
18-25-jul	17:05:08	596	28.8	31.5	2.7	35	16.71
18-25-jul	18:05:08	596	28.1	28.6	0.6	35	16.71
18-25-jul	19:05:08	596	21.5	23.0	1.5	34	16.70
18-25-jul	20:05:08	597	20.0	19.4	-0.5	34	16.70
18-25-jul	21:05:08	597	23.0	21.0	-2.0	34	16.72
18-25-jul	22:05:08	597	20.9	20.1	-0.7	34	16.70
18-25-jul	23:05:08	596	18.8	18.7	-0.1	34	16.70

BGI PQ200 Air Sampling System Downloaded 2018 01 aug 13:29:39

Job Details:

Job Name:	18Aug01E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	1390:04
Flags:	

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

	Max	Min	Avg	Units
BP	596	593	595	mmHg
TA	33.2	12.8	23.5	°C
Q	---	---	16.7	Lpm

QCV	0.54 %
Max overheat	3.2 °C
occured	31-jul 12:38:34

Timer Information:

	Date (dd-mmm)	Time (hh:mm:ss)
Start:	18-31-jul	0:00:08
Stop:	18-01-aug	0:00:05

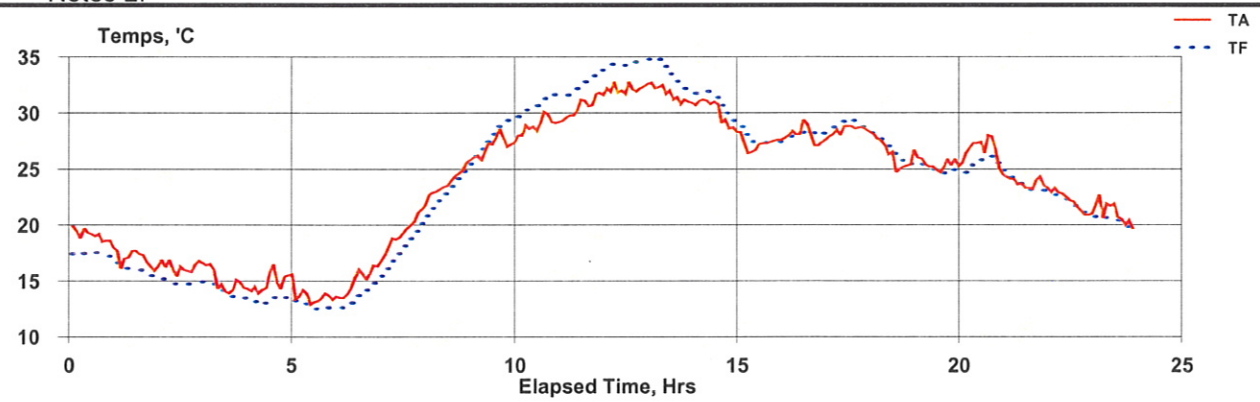
ET: 23:59

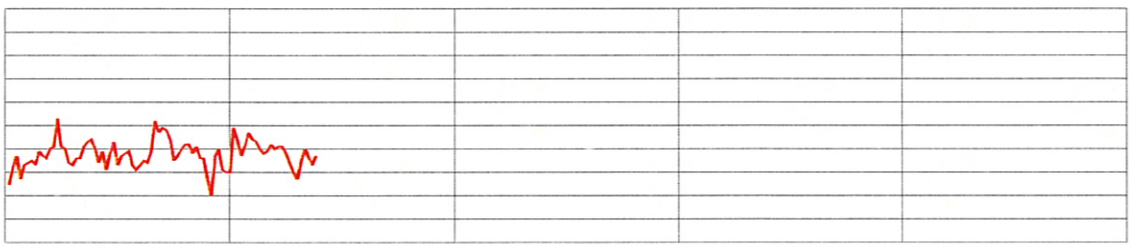
Mass Concentration Data:

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:





18-31-jul	0:05:08	595	19.0	17.4	-1.6	31	16.71
18-31-jul	1:05:08	595	16.9	16.0	-1.0	32	16.71
18-31-jul	2:05:08	595	16.3	14.9	-1.4	32	16.72
18-31-jul	3:05:08	595	14.9	14.1	-0.8	32	16.71
18-31-jul	4:05:08	595	14.9	13.3	-1.6	32	16.71
18-31-jul	5:05:08	595	13.5	12.7	-0.8	32	16.71
18-31-jul	6:05:08	596	15.2	13.8	-1.4	32	16.71
18-31-jul	7:05:08	596	19.6	18.1	-1.6	33	16.71
18-31-jul	8:05:08	596	24.0	23.2	-0.8	34	16.71
18-31-jul	9:05:08	596	27.1	27.9	0.8	35	16.71
18-31-jul	10:05:08	596	28.9	30.8	1.8	36	16.72
18-31-jul	11:05:08	596	30.6	32.5	1.9	37	16.71
18-31-jul	12:05:08	596	32.2	34.4	2.2	37	16.71
18-31-jul	13:05:08	595	31.7	33.5	1.8	37	16.71
18-31-jul	14:05:08	595	30.1	31.0	0.9	37	16.72
18-31-jul	15:05:08	595	27.3	27.6	0.4	37	16.71
18-31-jul	16:05:08	595	28.0	28.0	0.0	37	16.71
18-31-jul	17:05:08	595	28.5	28.9	0.4	38	16.71
18-31-jul	18:05:08	595	26.3	26.6	0.3	38	16.71
18-31-jul	19:05:08	595	25.4	25.0	-0.4	37	16.71
18-31-jul	20:05:08	595	26.6	25.4	-1.2	38	16.71
18-31-jul	21:05:08	595	23.7	23.6	-0.2	37	16.71
18-31-jul	22:05:08	595	22.0	21.9	-0.2	38	16.71
18-31-jul	23:05:08	595	21.1	20.4	-0.7	37	16.71

BGI PQ200 Air Sampling System Downloaded 2018 07 aug 11:09:12

Job Details:

Job Name: 18Aug07E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1414:03
Flags:

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

	Max	Min	Avg	Units
BP	595	591	593	mmHg
TA	33.5	11.2	22	°C
Q	---	---	16.7	Lpm

QCV 0.54 %
Max overheat 3.2 °C
occured 06-aug 10:14:36

Timer Information:

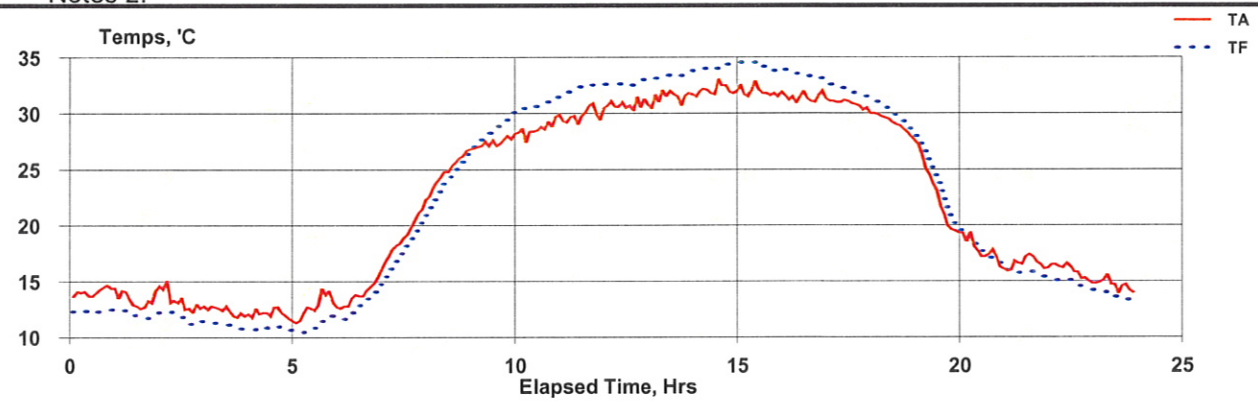
	Date dd-mmm	Time hh:mm:ss
Start:	18-06-aug	0:00:08
Stop:	18-07-aug	0:00:05

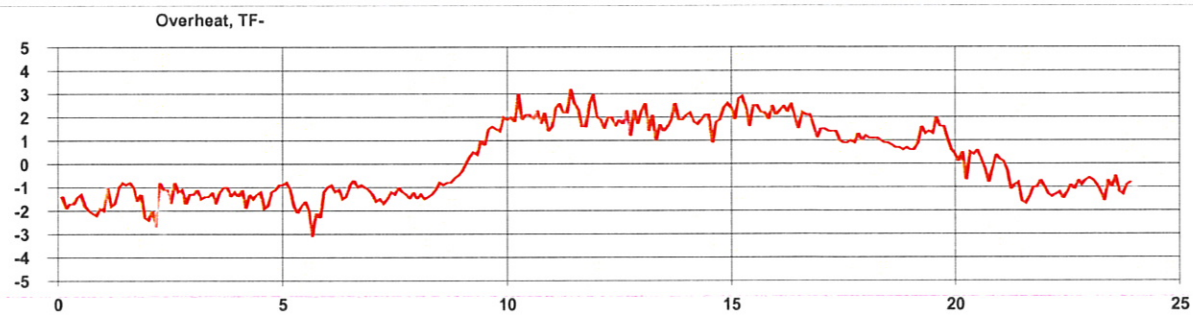
ET: 23:59

Mass Concentration Data:

Filter ID:	41	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:





18-06-aug	0:05:08	593	14.1	12.4	-1.8	27	16.70
18-06-aug	1:05:08	593	13.5	12.1	-1.4	27	16.72
18-06-aug	2:05:08	593	13.2	11.8	-1.4	27	16.71
18-06-aug	3:05:08	593	12.3	11.0	-1.3	27	16.71
18-06-aug	4:05:08	593	12.1	10.8	-1.3	27	16.71
18-06-aug	5:05:08	593	12.8	11.1	-1.7	27	16.70
18-06-aug	6:05:08	594	14.0	12.9	-1.1	28	16.71
18-06-aug	7:05:08	594	19.3	17.9	-1.4	29	16.71
18-06-aug	8:05:08	595	25.0	24.1	-0.9	30	16.71
18-06-aug	9:05:08	595	27.4	28.5	1.1	31	16.71
18-06-aug	10:05:08	595	28.7	30.7	2.0	32	16.71
18-06-aug	11:05:08	595	29.9	32.2	2.4	32	16.71
18-06-aug	12:05:08	595	30.8	32.7	1.9	33	16.72
18-06-aug	13:05:08	594	31.5	33.3	1.9	33	16.71
18-06-aug	14:05:08	594	32.1	34.1	2.0	33	16.71
18-06-aug	15:05:08	594	31.9	34.2	2.3	33	16.71
18-06-aug	16:05:08	594	31.4	33.4	2.0	33	16.70
18-06-aug	17:05:08	593	30.8	32.0	1.2	33	16.71
18-06-aug	18:05:08	593	29.0	29.9	0.8	33	16.71
18-06-aug	19:05:08	594	22.6	23.8	1.2	32	16.71
18-06-aug	20:05:08	594	17.7	17.8	0.1	33	16.71
18-06-aug	21:05:08	594	16.6	15.6	-1.0	33	16.71
18-06-aug	22:05:08	594	15.9	14.8	-1.1	33	16.71
18-06-aug	23:05:08	594	14.7	13.7	-1.0	33	16.71

BGI PQ200 Air Sampling System Downloaded 2018 15 aug 14:17:11

Job Details:

Job Name: 18Aug15E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1438:02
Flags:

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

	Max	Min	Avg	Units
BP	595	592	593	mmHg
TA	29.7	10	19.5	°C
Q	---	---	16.7	Lpm

QCV 0.55 %
Max overheat 5.7 °C
occured 15-aug 12:32:09

Timer Information:

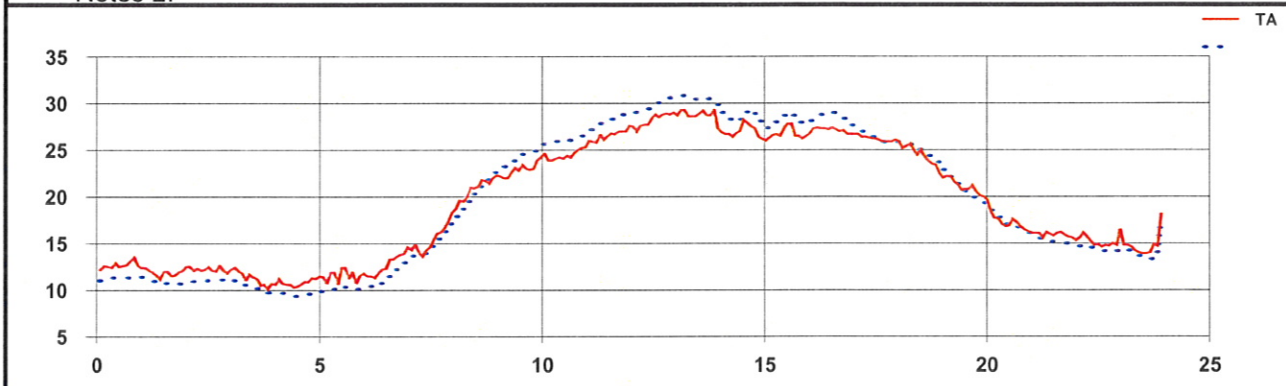
	Date dd-mmm	Time hh:mm:ss
Start:	18-12-aug	0:00:08
Stop:	18-13-aug	0:00:05

ET: 23:59

Mass Concentration Data:

Filter ID:	20	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:
Notes 2:



Overheat, TF-

18-12-aug	0:05:08	594	12.7	11.3	-1.4	32	16.71
18-12-aug	1:05:08	594	11.9	10.8	-1.1	33	16.71
18-12-aug	2:05:08	593	12.2	11.0	-1.3	33	16.71
18-12-aug	3:05:08	594	11.2	10.3	-0.9	33	16.71
18-12-aug	4:05:08	593	10.9	9.5	-1.3	33	16.71
18-12-aug	5:05:08	594	11.6	10.1	-1.5	33	16.71
18-12-aug	6:05:08	594	12.8	11.4	-1.4	33	16.72
18-12-aug	7:05:08	594	15.5	14.9	-0.6	34	16.71
18-12-aug	8:05:08	594	20.8	20.3	-0.6	35	16.71
18-12-aug	9:05:08	595	22.9	24.1	1.2	36	16.71
18-12-aug	10:05:08	595	24.5	26.0	1.6	37	16.72
18-12-aug	11:05:08	594	26.6	28.1	1.5	38	16.70
18-12-aug	12:05:08	594	28.2	29.7	1.5	38	16.70
18-12-aug	13:05:08	594	28.8	30.5	1.7	39	16.72
18-12-aug	14:05:08	594	27.0	28.6	1.6	39	16.71
18-12-aug	15:05:08	593	26.7	28.1	1.3	38	16.71
18-12-aug	16:05:08	593	27.1	28.5	1.4	38	16.70
18-12-aug	17:05:08	593	26.2	26.4	0.2	38	16.71
18-12-aug	18:05:08	593	24.5	25.0	0.4	38	16.71
18-12-aug	19:05:08	593	21.1	21.0	-0.1	38	16.72
18-12-aug	20:05:08	593	17.4	17.4	0.0	38	16.71
18-12-aug	21:05:08	593	16.0	15.3	-0.7	37	16.71
18-12-aug	22:05:08	593	15.1	14.4	-0.7	37	16.71
18-12-aug	23:05:08	593	14.6	13.8	-0.8	37	16.70
18-15-aug	14:16:27	592	18.1	17.1	-1.0		0.00

BGI PQ200 Air Sampling System Downloaded 2018 20 aug 13:11:14

Job Details:

Job Name: 18Aug20E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1439:26
Flags: T

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

	Max	Min	Avg	Units
BP	597	800	597	mmHg
TA	15	13.8	14.3	°C
Q	---	---	16.71	Lpm

QCV 0.25 %
Max overheat 3.3 °C
occured 19-aug 13:33:56

Timer Information:

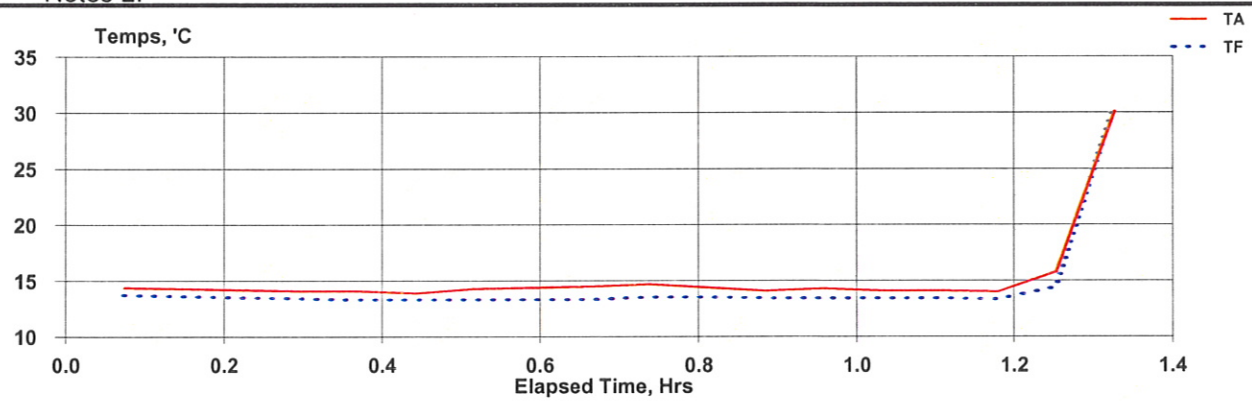
	Date dd-mmm	Time hh:mm:ss
Start:	18-18-aug	0:00:00
Stop:	18-19-aug	0:00:13

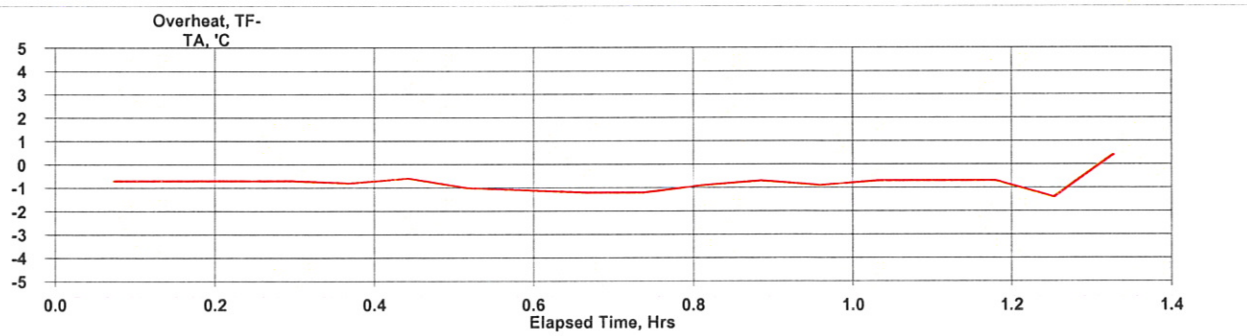
ET: 1:24

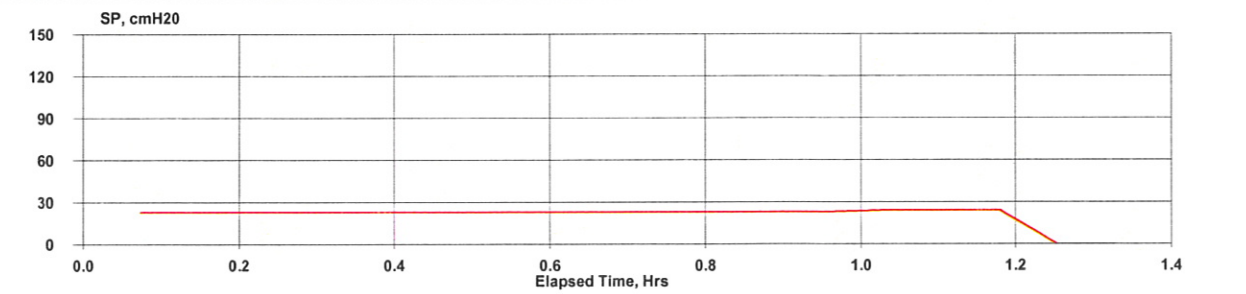
Mass Concentration Data:

Filter ID:	31	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	1.413	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-18-aug	0:05:00	597	14.3	13.4	-0.9	23	16.70
18-18-aug	1:05:00	596	14.5	13.6	-0.9	19	13.36
18-20-aug	13:04:23	593	30.1	30.5	0.4		0.00

BGI PQ200 Air Sampling System Downloaded 2018 28 aug 13:13:40

Job Details:

Job Name:	18Aug28E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	1463:25
Flags:	

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

	Max	Min	Avg	Units
BP	595	592	593	mmHg
TA	26.1	10.7	18	°C
Q	---	---	16.71	Lpm

QCV	0.53 %
Max overheat	3.2 °C
occured	24-aug 15:25:17

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-24-aug	0:00:08
Stop:	18-25-aug	0:00:05

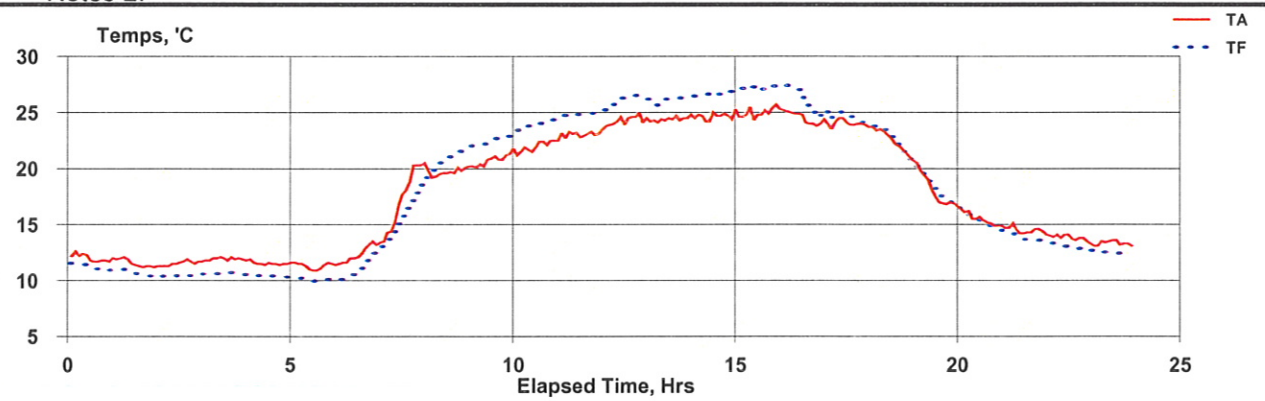
ET: 23:59

Mass Concentration Data:

Filter ID:	JBR 8	
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:



18-24-aug	0:05:08	594	12.0	11.2	-0.8	30	16.71
18-24-aug	1:05:08	594	11.5	10.6	-0.9	31	16.70
18-24-aug	2:05:08	594	11.6	10.4	-1.2	31	16.71
18-24-aug	3:05:08	594	11.9	10.6	-1.3	31	16.70
18-24-aug	4:05:08	593	11.5	10.4	-1.2	31	16.71
18-24-aug	5:05:08	594	11.3	10.1	-1.2	31	16.70
18-24-aug	6:05:08	594	12.5	11.1	-1.3	31	16.71
18-24-aug	7:05:08	594	17.5	15.7	-1.8	32	16.71
18-24-aug	8:05:08	595	19.7	20.8	1.1	34	16.71
18-24-aug	9:05:08	595	20.8	22.5	1.7	34	16.71
18-24-aug	10:05:08	595	22.0	23.9	1.9	34	16.71
18-24-aug	11:05:08	595	23.1	24.8	1.7	35	16.72
18-24-aug	12:05:08	594	24.3	26.1	1.8	35	16.71
18-24-aug	13:05:08	594	24.4	26.1	1.7	35	16.71
18-24-aug	14:05:08	593	24.7	26.7	2.0	35	16.71
18-24-aug	15:05:08	593	25.0	27.2	2.2	36	16.71
18-24-aug	16:05:08	593	24.5	26.2	1.7	36	16.71
18-24-aug	17:05:08	592	24.0	24.6	0.6	35	16.71
18-24-aug	18:05:08	592	22.4	22.6	0.2	35	16.71
18-24-aug	19:05:08	593	18.0	18.2	0.3	35	16.71
18-24-aug	20:05:08	593	15.5	15.4	-0.1	34	16.71
18-24-aug	21:05:08	593	14.5	13.8	-0.7	34	16.70
18-24-aug	22:05:08	593	13.8	13.0	-0.8	34	16.71
18-24-aug	23:05:08	593	13.3	12.4	-0.9	34	16.70

BGI PQ200 Air Sampling System Downloaded 2018 31 aug 09:22:13

Job Details:

Job Name:	18Aug31E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	1487:24
Flags:	

Job Code:	
Site Name:	2399E
Station Code:	
Operators:	KN
User1:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ
User2:	ÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿÿ

	Max	Min	Avg	Units
BP	596	593	594	mmHg
TA	27.2	8.9	17.8	°C
Q	---	---	16.71	Lpm

QCV 0.57 %

Max overheat 2.6 °C

occured 30-aug 13:48:58

Timer Information:

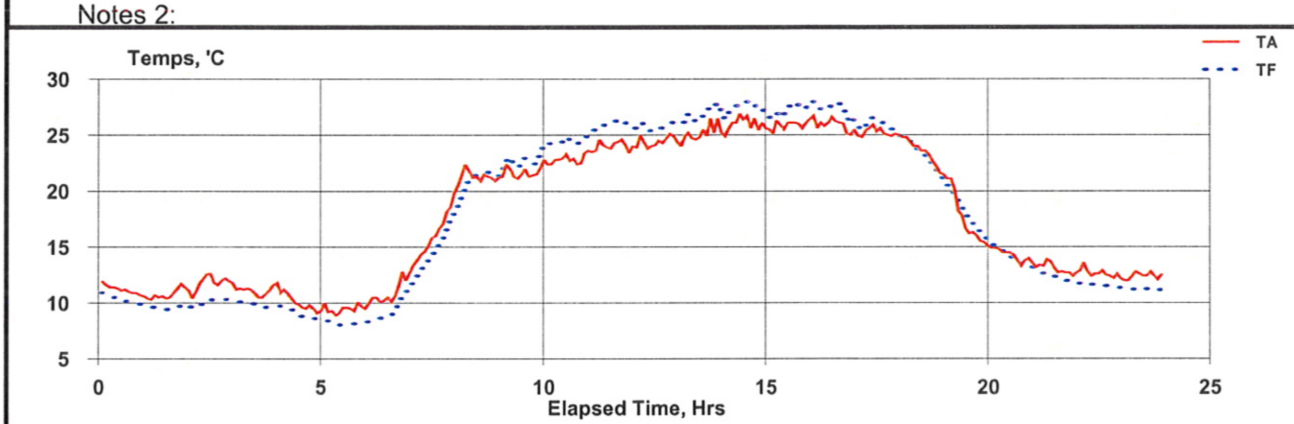
	Date dd-mmm	Time hh:mm:ss
Start:	18-30-aug	0:00:08
Stop:	18-31-aug	0:00:05
ET:	23:59	

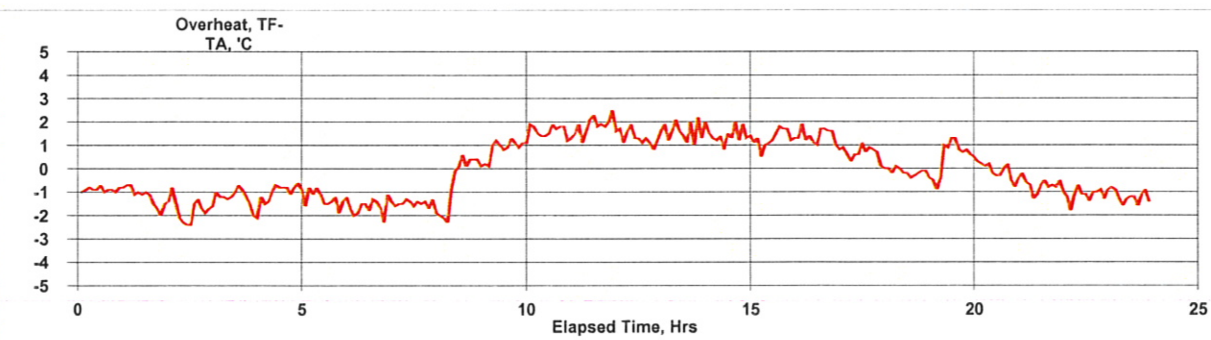
Mass Concentration Data:

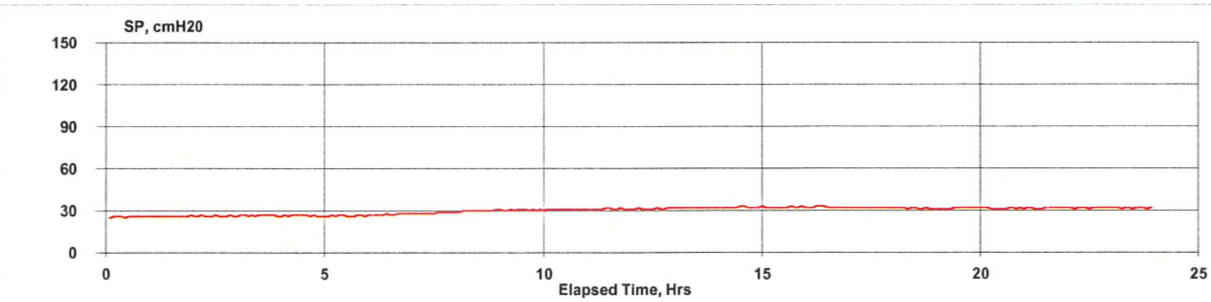
Filter ID:	8	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	µg/m3

Notes 1:

Notes 2:







18-30-aug	0:05:08	595	11.2	10.3	-0.9	26	16.72
18-30-aug	1:05:08	595	10.8	9.6	-1.2	26	16.71
18-30-aug	2:05:08	595	11.8	10.1	-1.8	26	16.71
18-30-aug	3:05:08	595	11.1	9.8	-1.3	27	16.71
18-30-aug	4:05:08	595	10.0	9.0	-1.0	27	16.71
18-30-aug	5:05:08	595	9.5	8.2	-1.3	27	16.72
18-30-aug	6:05:08	595	11.0	9.3	-1.6	28	16.71
18-30-aug	7:05:08	595	16.1	14.6	-1.5	29	16.72
18-30-aug	8:05:08	596	21.3	20.9	-0.4	30	16.72
18-30-aug	9:05:08	596	21.7	22.6	0.9	31	16.71
18-30-aug	10:05:08	596	22.8	24.4	1.6	31	16.71
18-30-aug	11:05:08	596	24.0	25.9	1.8	31	16.71
18-30-aug	12:05:08	596	24.4	25.8	1.3	31	16.71
18-30-aug	13:05:08	596	25.2	26.8	1.6	32	16.71
18-30-aug	14:05:08	595	26.0	27.4	1.4	32	16.72
18-30-aug	15:05:08	595	25.9	27.2	1.3	32	16.70
18-30-aug	16:05:08	595	25.9	27.3	1.4	32	16.71
18-30-aug	17:05:08	594	25.2	25.8	0.6	32	16.71
18-30-aug	18:05:08	594	23.4	23.2	-0.2	32	16.71
18-30-aug	19:05:08	594	17.5	18.0	0.5	32	16.71
18-30-aug	20:05:08	594	14.2	14.1	-0.1	31	16.71
18-30-aug	21:05:08	594	13.1	12.3	-0.7	32	16.71
18-30-aug	22:05:08	594	12.6	11.5	-1.1	32	16.71
18-30-aug	23:05:08	594	12.4	11.2	-1.2	32	16.71

BGI PQ200 Air Sampling System Downloaded 2018 07 sep 14:23:53

Job Details:

Job Name: 18Sep07E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1511:23
Flags:

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

	Max	Min	Avg	Units
BP	596	592	595	mmHg
TA	22.2	10.1	14.6	°C
Q	---	---	16.71	Lpm

QCV 0.56 %
Max overheat 3.8 °C
occured 06-sep 18:47:24

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-05-sep	0:00:08
Stop:	18-06-sep	0:00:05

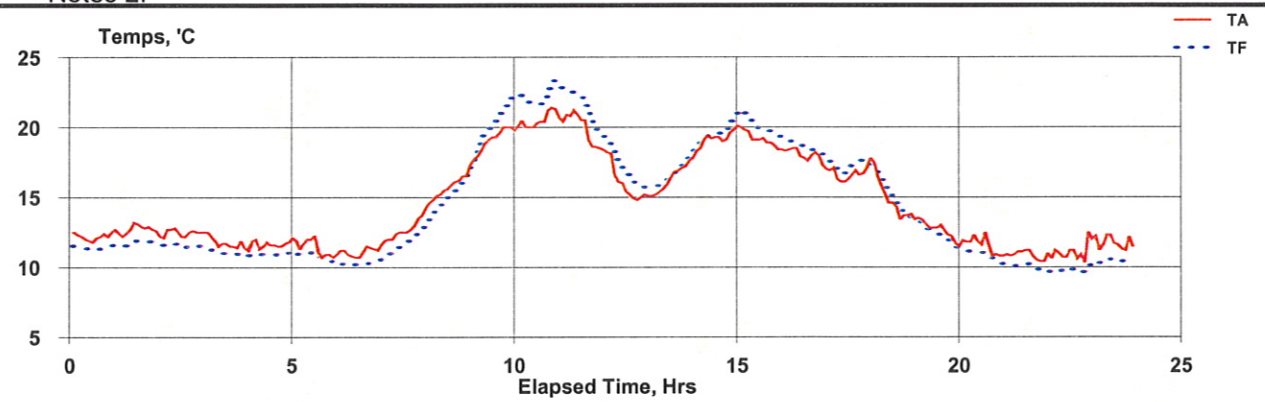
ET: 23:59

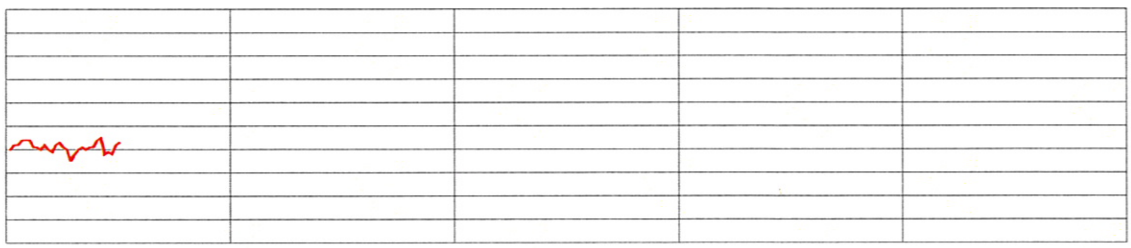
Mass Concentration Data:

Filter ID: 35
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.043 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-05-sep	0:05:08	594	12.2	11.4	-0.8	31	16.71
18-05-sep	1:05:08	594	12.7	11.7	-1.0	31	16.71
18-05-sep	2:05:08	594	12.5	11.5	-1.0	31	16.71
18-05-sep	3:05:08	594	11.7	11.0	-0.7	32	16.71
18-05-sep	4:05:08	594	11.7	11.0	-0.7	32	16.71
18-05-sep	5:05:08	594	11.4	10.8	-0.6	32	16.70
18-05-sep	6:05:08	595	11.1	10.3	-0.9	32	16.71
18-05-sep	7:05:08	595	12.7	11.7	-1.1	32	16.72
18-05-sep	8:05:08	596	15.8	15.0	-0.7	33	16.72
18-05-sep	9:05:08	596	19.2	20.1	0.9	34	16.71
18-05-sep	10:05:08	596	20.5	22.2	1.7	34	16.71
18-05-sep	11:05:08	596	19.9	21.5	1.7	35	16.71
18-05-sep	12:05:08	596	15.9	17.0	1.1	34	16.71
18-05-sep	13:05:08	596	16.4	16.6	0.2	34	16.71
18-05-sep	14:05:08	596	19.2	19.5	0.3	35	16.71
18-05-sep	15:05:08	596	19.1	20.1	1.0	36	16.71
18-05-sep	16:05:08	596	18.0	18.6	0.6	36	16.71
18-05-sep	17:05:08	596	16.7	17.3	0.5	36	16.71
18-05-sep	18:05:08	596	14.7	15.1	0.4	36	16.71
18-05-sep	19:05:08	595	12.6	12.4	-0.3	35	16.71
18-05-sep	20:05:08	596	11.5	10.8	-0.7	35	16.71
18-05-sep	21:05:08	596	10.9	10.0	-0.9	35	16.70
18-05-sep	22:05:08	596	11.1	9.8	-1.3	35	16.72
18-05-sep	23:05:08	596	11.7	10.4	-1.3	35	16.71

BGI PQ200 Air Sampling System Downloaded 2018 13 sep 12:31:07

Job Details:

Job Name: 18Sep13E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1535:22
Flags:

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

	Max	Min	Avg	Units
BP	593	589	591	mmHg
TA	27.3	9.3	17.8	°C
Q	---	---	16.71	Lpm

QCV 0.55 %
Max overheat 3.5 °C
occured 12-sep 20:29:28

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-11-sep	0:00:08
Stop:	18-12-sep	0:00:04

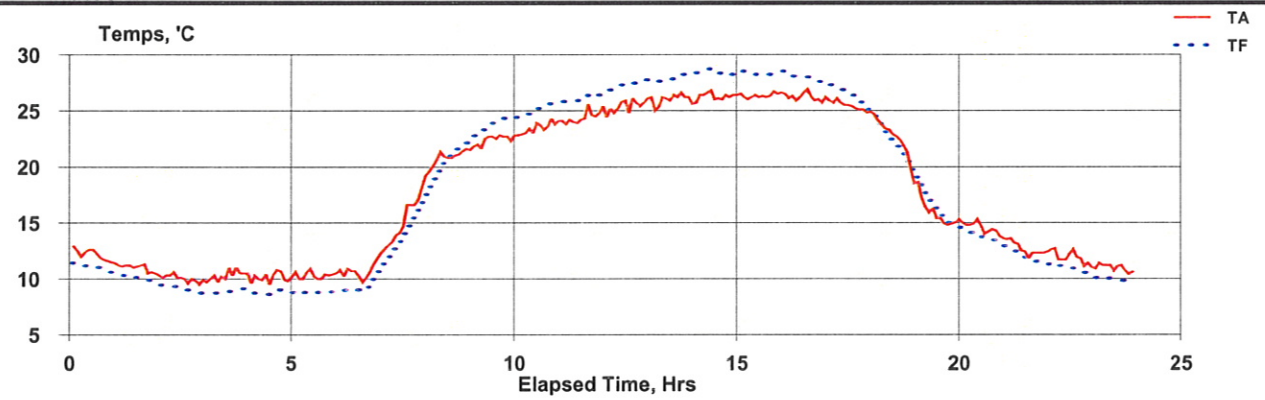
ET: 23:59

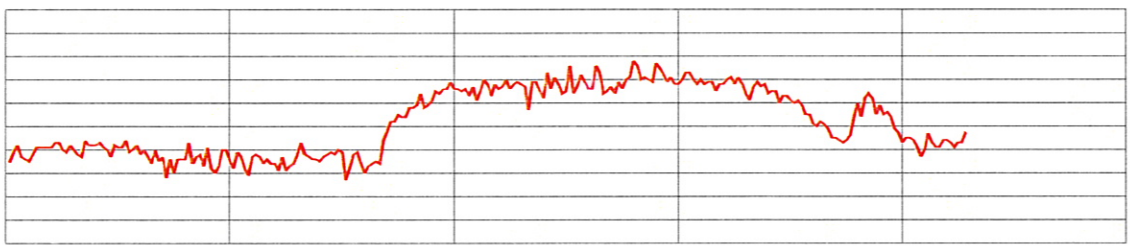
Mass Concentration Data:

Filter ID: 27
Final Wt: mg
Initial Wt: mg
Delta Wt: 0.000 mg
Total Vol: 24.041 m^3

Mass Conc: 0 µg/m3

Notes 1:
Notes 2:





18-11-sep	0:05:08	591	12.1	11.0	-1.1	28	16.70
18-11-sep	1:05:08	591	10.9	10.0	-0.9	28	16.73
18-11-sep	2:05:08	591	10.0	9.1	-0.9	28	16.71
18-11-sep	3:05:08	591	10.3	8.8	-1.5	28	16.71
18-11-sep	4:05:08	591	10.1	8.8	-1.4	28	16.72
18-11-sep	5:05:08	591	10.3	8.8	-1.5	29	16.72
18-11-sep	6:05:08	591	10.8	9.4	-1.4	29	16.71
18-11-sep	7:05:08	592	15.5	14.1	-1.4	30	16.72
18-11-sep	8:05:08	592	20.9	20.5	-0.4	32	16.71
18-11-sep	9:05:08	593	22.4	23.7	1.3	32	16.71
18-11-sep	10:05:08	593	23.5	25.1	1.6	33	16.72
18-11-sep	11:05:08	592	24.5	26.1	1.6	33	16.71
18-11-sep	12:05:08	592	25.4	27.3	1.8	34	16.72
18-11-sep	13:05:08	592	26.0	27.9	1.9	34	16.71
18-11-sep	14:05:08	591	26.3	28.4	2.1	34	16.71
18-11-sep	15:05:08	591	26.3	28.3	1.9	34	16.71
18-11-sep	16:05:08	591	26.2	27.9	1.7	35	16.71
18-11-sep	17:05:08	590	25.4	26.4	1.0	34	16.71
18-11-sep	18:05:08	590	22.4	22.3	-0.1	34	16.71
18-11-sep	19:05:08	590	15.8	16.3	0.5	34	16.71
18-11-sep	20:05:08	590	14.5	13.8	-0.7	33	16.70
18-11-sep	21:05:08	590	12.6	11.9	-0.7	33	16.71
18-11-sep	22:05:08	590	11.9	10.9	-1.0	33	16.71
18-11-sep	23:05:08	590	11.0	9.9	-1.1	33	16.70

BGI PQ200 Air Sampling System Downloaded 2018 18 sep 11:10:04

Job Details:

Job Name: 18Sep18E.JOB
Version: 5.62
Serial No: 2398
Pump Time: 1559:21
Flags:

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

	Max	Min	Avg	Units
BP	594	590	592	mmHg
TA	27.8	10.7	18.3	°C
Q	---	---	16.71	Lpm

QCV 0.56 %
Max overheat 2.9 °C
occured 17-sep 14:02:09

Timer Information:

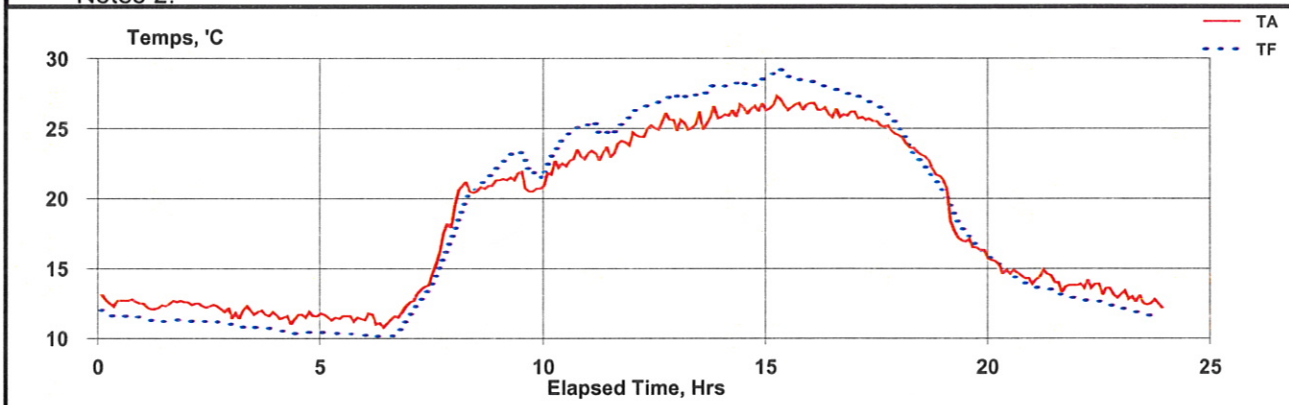
	Date dd-mmm	Time hh:mm:ss
Start:	18-17-sep	0:00:08
Stop:	18-18-sep	0:00:04

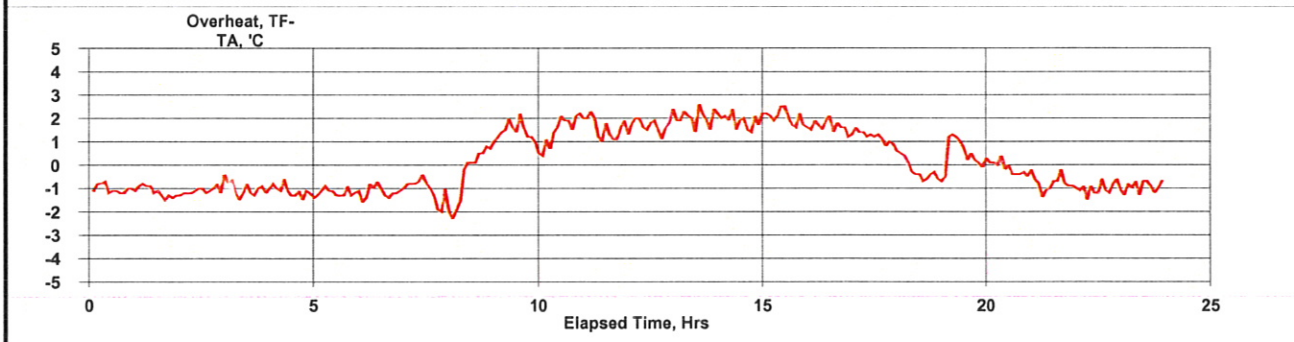
ET: 23:59

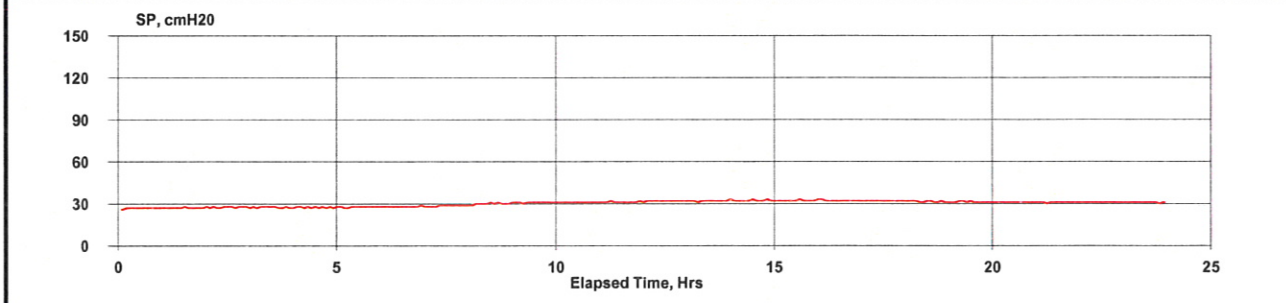
Mass Concentration Data:

Filter ID:	17	
Final Wt:		mg
Initial Wt:		mg
Delta Wt:	0.000	mg
Total Vol:	24.041	m^3
Mass Conc:	0	ug/m3

Notes 1:
Notes 2:







18-17-sep	0:05:08	592	12.7	11.6	-1.0	27	16.71
18-17-sep	1:05:08	593	12.4	11.3	-1.2	27	16.71
18-17-sep	2:05:08	592	12.2	11.2	-1.0	28	16.71
18-17-sep	3:05:08	592	11.8	10.8	-1.1	28	16.72
18-17-sep	4:05:08	592	11.6	10.4	-1.1	28	16.71
18-17-sep	5:05:08	592	11.5	10.3	-1.2	28	16.72
18-17-sep	6:05:08	593	11.6	10.4	-1.1	28	16.71
18-17-sep	7:05:08	593	15.5	14.4	-1.1	29	16.72
18-17-sep	8:05:08	594	20.8	20.7	-0.2	30	16.71
18-17-sep	9:05:08	594	21.1	22.5	1.4	31	16.71
18-17-sep	10:05:08	594	22.6	24.2	1.6	31	16.71
18-17-sep	11:05:08	594	23.6	25.1	1.6	31	16.71
18-17-sep	12:05:08	593	25.1	26.8	1.8	32	16.71
18-17-sep	13:05:08	593	25.5	27.6	2.0	32	16.71
18-17-sep	14:05:08	593	26.3	28.2	1.9	32	16.71
18-17-sep	15:05:08	592	26.7	28.7	2.0	32	16.72
18-17-sep	16:05:08	592	26.2	27.8	1.6	32	16.72
18-17-sep	17:05:08	592	25.3	26.4	1.2	32	16.72
18-17-sep	18:05:08	592	22.9	22.6	-0.3	32	16.71
18-17-sep	19:05:08	592	17.2	17.7	0.5	31	16.71
18-17-sep	20:05:08	592	14.8	14.6	-0.1	31	16.71
18-17-sep	21:05:08	592	14.1	13.2	-0.8	31	16.72
18-17-sep	22:05:08	592	13.6	12.5	-1.0	31	16.72
18-17-sep	23:05:08	592	12.7	11.8	-0.9	31	16.72

BGI PQ200 Air Sampling System Downloaded 2018 25 sep 13:23:57

Job Details:

Job Name:	18Sep25E.JOB
Version:	5.62
Serial No:	2398
Pump Time:	1583:20
Flags:	

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

	Max	Min	Avg	Units
BP	594	590	591	mmHg
TA	25.1	8.5	15.8	°C
Q	---	---	16.7	Lpm

QCV	0.54 %
Max overheat	3.1 °C
occured	24-sep 19:34:18

Timer Information:

	Date dd-mmm	Time hh:mm:ss
Start:	18-23-sep	0:00:08
Stop:	18-24-sep	0:00:05

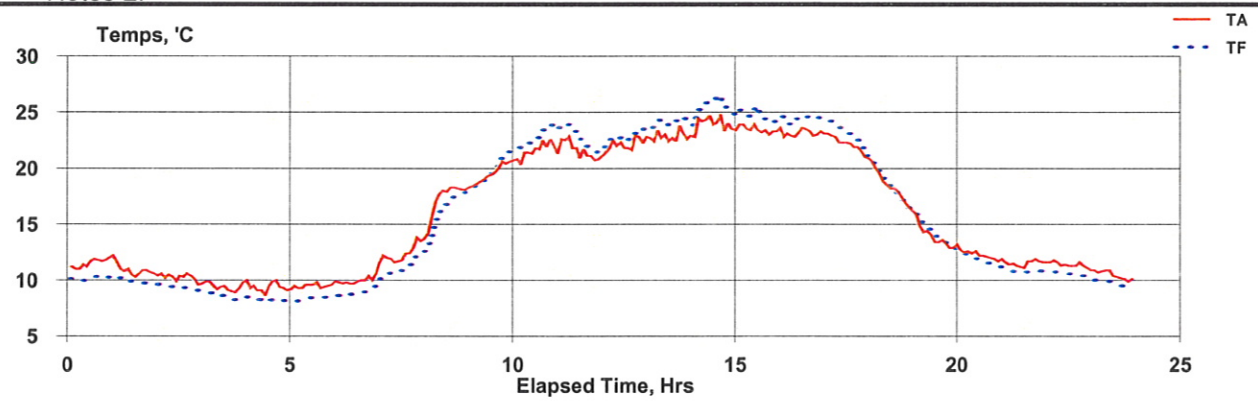
ET: 23:59

Mass Concentration Data:

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

Notes 1:

Notes 2:



Overheat, TF-

18-23-sep	0:05:08	592	11.6	10.1	-1.5	28	16.71
18-23-sep	1:05:08	592	10.8	9.8	-0.9	29	16.71
18-23-sep	2:05:08	592	10.2	9.3	-0.9	29	16.71
18-23-sep	3:05:08	592	9.5	8.6	-0.9	29	16.71
18-23-sep	4:05:08	592	9.3	8.2	-1.1	29	16.71
18-23-sep	5:05:08	592	9.5	8.4	-1.2	29	16.72
18-23-sep	6:05:08	592	10.1	9.0	-1.2	29	16.71
18-23-sep	7:05:08	592	12.5	11.2	-1.3	29	16.71
18-23-sep	8:05:08	593	17.5	16.3	-1.2	30	16.71
18-23-sep	9:05:08	593	19.6	19.8	0.1	31	16.71
18-23-sep	10:05:08	593	21.6	22.8	1.2	32	16.71
18-23-sep	11:05:08	593	21.6	22.7	1.1	32	16.71
18-23-sep	12:05:08	592	22.2	22.8	0.6	32	16.71
18-23-sep	13:05:08	592	22.8	24.1	1.3	32	16.71
18-23-sep	14:05:08	591	24.0	25.5	1.5	32	16.72
18-23-sep	15:05:08	591	23.5	24.7	1.2	32	16.72
18-23-sep	16:05:08	590	23.1	24.4	1.3	32	16.70
18-23-sep	17:05:08	590	22.1	23.0	1.0	32	16.71
18-23-sep	18:05:08	590	18.2	18.4	0.1	32	16.71
18-23-sep	19:05:08	590	13.8	14.2	0.3	32	16.71
18-23-sep	20:05:08	590	12.2	11.8	-0.4	31	16.72
18-23-sep	21:05:08	590	11.5	10.8	-0.8	31	16.70
18-23-sep	22:05:08	590	11.4	10.5	-0.9	31	16.71
18-23-sep	23:05:08	590	10.5	9.7	-0.8	31	16.71

APPENDIX C

Precision and Single-Point Flow Rate Checks

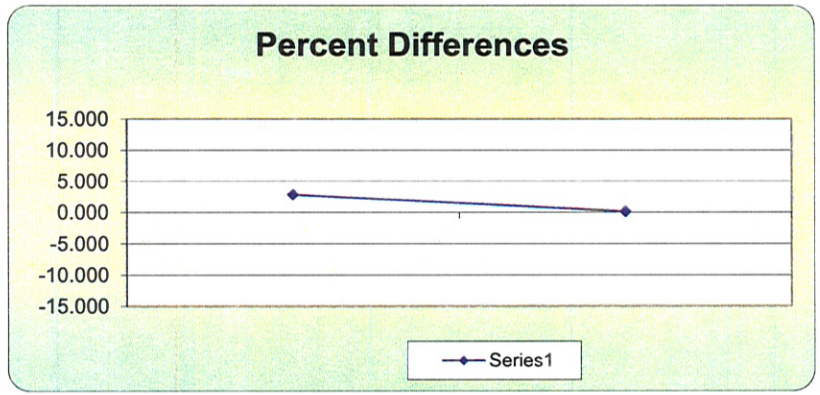
Alton Coal Development, LLC - Coal Hollow Mine

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	16.24	2.833	0.799	8.023	2.833	8.023
16.57	16.55	0.121	75th Percentile	0.015	0.121	0.015
			2.155			

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	2.953	1.477
n-1	$\Sigma\|d\|^2$	"AS" (Eqn 5)
1	8.038	1.917

Bias (%) (Eqn 3)	Both Signs Positive
10.04	TRUE
Signed Bias (%)	Both Signs Negative
+10.04	FALSE



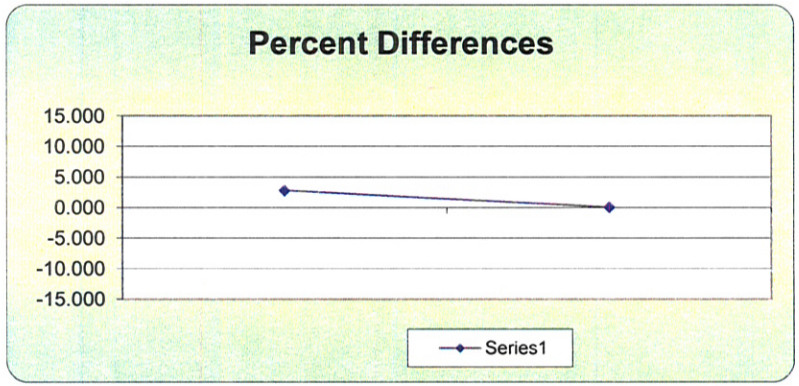
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 963B		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**$\|d\|$**	**$\|d\|^2$**	
16.7	16.24	2.833	0.799	8.023	2.833	8.023	
16.57	16.55	0.121	**75th Percentile**	0.015	0.121	0.015	
			2.155				

n	$\sum\|d\|$	**"AB" (Eqn 4)**
2	2.953	1.477
n-1	$\sum\|d\|^2$	**"AS" (Eqn 5)**
1	8.038	1.917

Bias (%) (Eqn 3)	Both Signs Positive
10.04	TRUE
Signed Bias (%)	Both Signs Negative
+10.04	FALSE



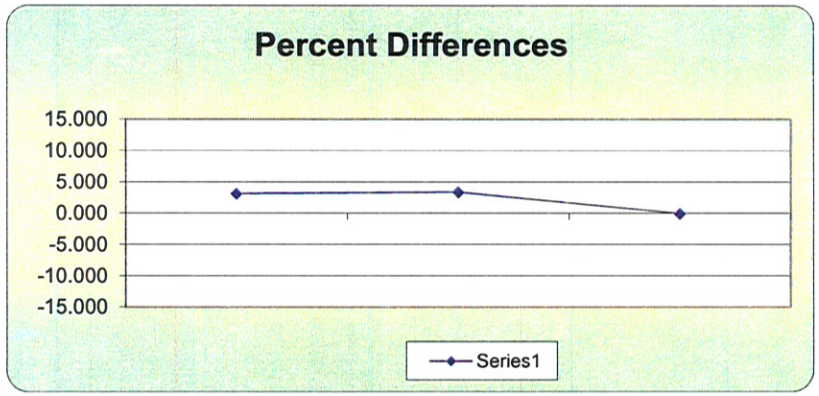
Alton Coal Development, LLC - Coal Hollow Mine

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	16.19	3.150	3.214	9.923	3.150	9.923	
16.7	16.15	3.406	75th Percentile	11.598	3.406	11.598	
			3.342				

n	$\Sigma\|d\|$	"AB" (Eqn 4)
2	6.556	3.278
n-1	$\Sigma\|d\|^2$	"AS" (Eqn 5)
1	21.521	0.181

Bias (%) (Eqn 3)	Both Signs Positive
4.08	TRUE
Signed Bias (%)	Both Signs Negative
+4.08	FALSE



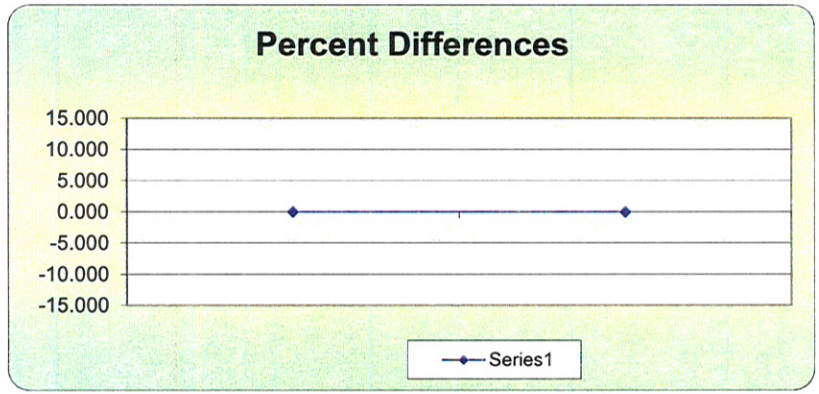
Alton Coal Development, LLC - Coal Hollow Mine

One-Point Flow Rate Bias Estimate

Site ID: Monitor 2366D		Pollutant type:					Bias (%)
Meas Val (Y)	**Audit Val (X)**	**d (Eqn. 1)**	**25th Percentile**	**d^2**	**$\|d\|$**	**$\|d\|^2$**	
16.7	16.7	0.000	0.000	0.000	0.000	0.000	
			75th Percentile				
			0.000				

n	$\Sigma\|d\|$	**"AB" (Eqn 4)**
1	0.000	0.000
n-1	$\Sigma\|d\|^2$	**"AS" (Eqn 5)**
0	0.000	#DIV/0!

Bias (%) (Eqn 3)	Both Signs Positive
#NUM!	FALSE
Signed Bias (%)	Both Signs Negative
#NUM!	FALSE



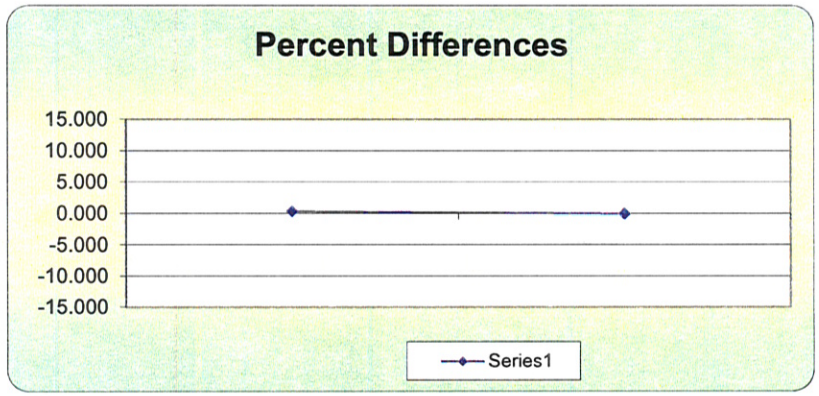
Alton Coal Development, LLC - Coal Hollow Mine

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	0.361	0.130	0.361	0.130
			75th Percentile			
			0.361			

n	$\Sigma\|d\|$	**"AB" (Eqn 4)**
1	0.361	0.361
n-1	$\Sigma\|d\|^2$	**"AS" (Eqn 5)**
0	0.130	#DIV/0!

Bias (%) (Eqn 3)	Both Signs Positive
#NUM!	TRUE
Signed Bias (%)	Both Signs Negative
#NUM!	FALSE



Alton Coal Development

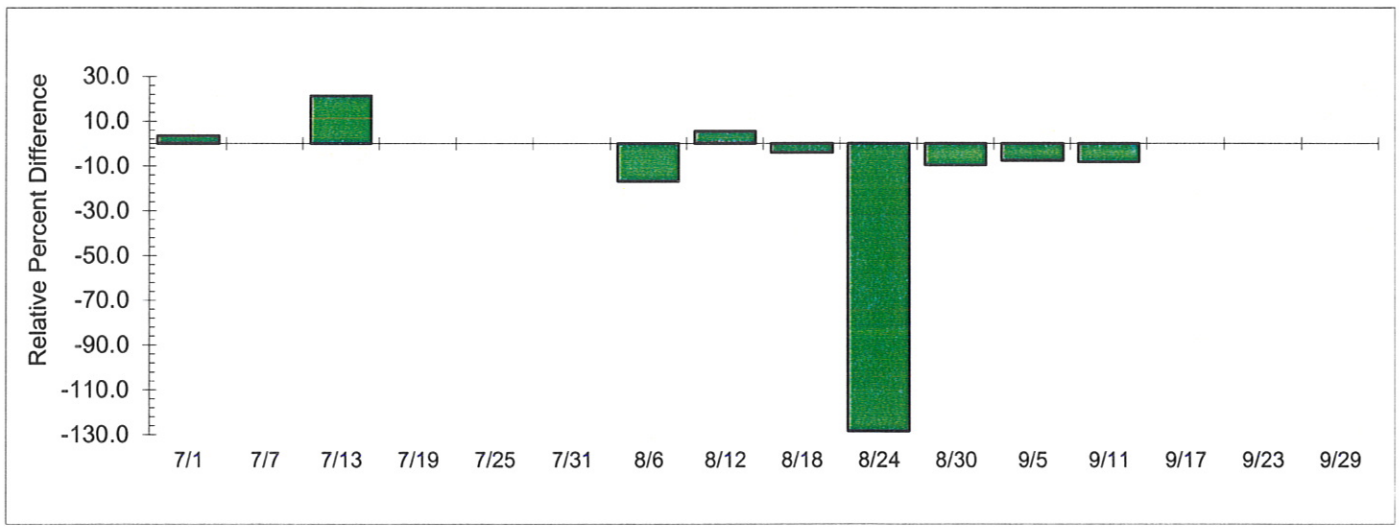
Coal Hollow

Precision Report For Collocated Samplers

STP PM10 Concentrations(µg/m³)
July 1, 2018 - September 30, 2018

Date	7/1	7/7	7/13	7/19	7/25	7/31	8/6	8/12	8/18	8/24	8/30	9/5	9/11	9/17	9/23	9/29
Coal Hollow-B	11.7	11.0	24.9	23.0	16.4		41.5	13.3	14.7	15.8	9.9	7.7	39.7	29.2		24.8
Coal Hollow-C	11.3		20.1				49.1	12.6	15.3	72.5	10.9	8.3	43.1			
Rel. %Diff.	3.5	*	21.3	*	*	*	-16.8	5.4	-4.0	-128.4	-9.6	-7.5	-8.2	*	*	*

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



Statistical Calculations:

n=	9.0	S Dev=	43.6 %
Mean=	-16.0	** CV=	46.7 %

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

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

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

Alton Coal Development

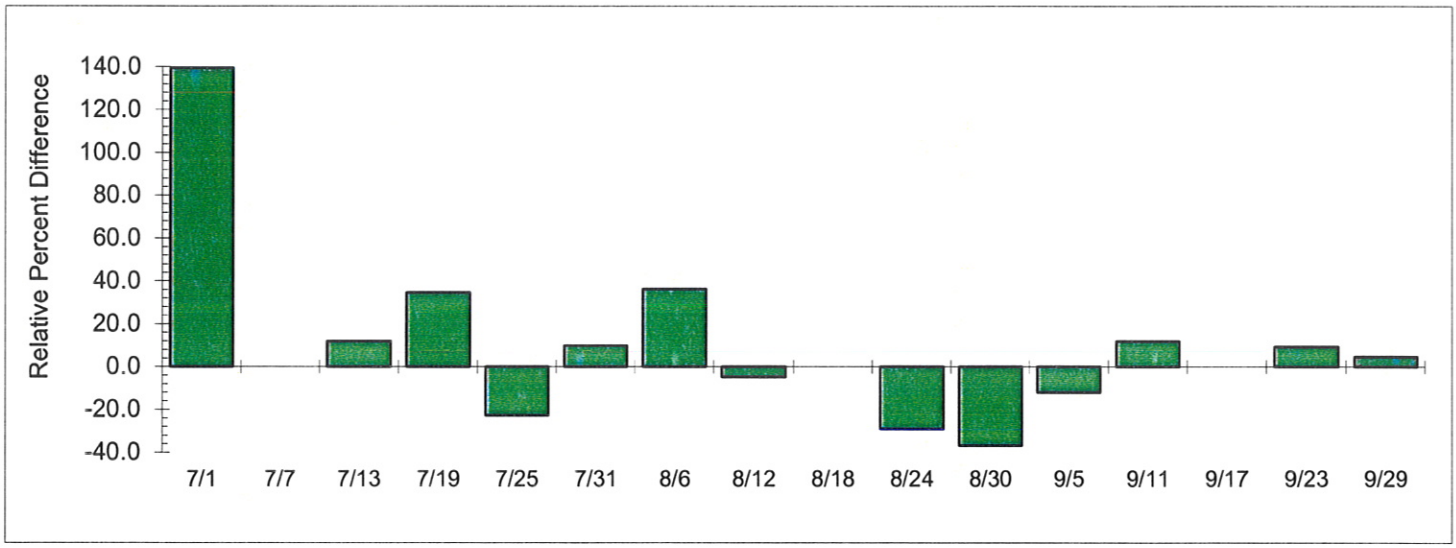
Coal Hollow

Precision Report For Collocated Samplers

STP PM10 Concentrations(µg/m³)
July 1, 2018 - September 30, 2018

Date	7/1	7/7	7/13	7/19	7/25	7/31	8/6	8/12	8/18	8/24	8/30	9/5	9/11	9/17	9/23	9/29
Coal Hollow-D	47.6	59.9	310.8	114.6	34.9	96.4	153.5	16.4		26.3	146.2	50.6	134.5	105.0	21.5	149.8
Coal Hollow-E	8.5		276.3	80.8	43.8	87.3	106.3	17.2		35.2	211.9	57.0	119.5	105.0	19.6	143.1
Rel. %Diff.	139.4	*	11.8	34.6	-22.6	9.9	36.3	-4.8	*	-28.9	-36.7	-11.9	11.8	0.0	9.2	4.6

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



Statistical Calculations:

n=	14.0	S Dev=	42.6 %
Mean=	10.9	** CV=	41.0 %

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

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

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

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	
07-03-18	1039	07-03-18	0938	17	28	M·M	07-07-18	JKSR	Code F
07-09-18	1013	07-09-18	0912	28	33	M·M	07-13-18	KN	
07-16-18	1445	07-16-18	1343	33	4	1343	07-18-18	JKSR	Blank
07-16-18	1447	07-16-18	1345	4	5	M-M	07-19-18	JKSR	
07-20-18	1053	07-20-18	0952	5	11	M-M	07-25-18	JKSR	
07-26-18	1130	07-26-18	1029	11	22	M-M	07-31-18	JKSR	
08-01-18	1357	08-01-18	1256	11	27	M-M	08-06-18	JKSR	
08-07-18	1142	08-07-18	1041	27	10	M-M	08-12-18	JKSR	
08-15-18	1021	08-15-18	0920	10	21	M-M	08-18-18	KN	Code F
08-20-18	1154	08-20-18	1053	21	32	M-M	08-24-18	KN	
08-28-18	1335	08-28-18	1234	32	4	M-M	08-30-18	JKSR	Code F
08-31-18	0837	08-31-18	0736	4	9	M-M	09-05-18	KN	
09-07-18	1457	09-07-18	1356	9	23	M-M	09-11-18	JKSR	
[illegible]	[illegible]	[illegible]	[illegible]	23	10	[illegible]	[illegible]	K[illegible]	[illegible]
09-13-18	1009	09-13-18	0908	23	11	M-M	09-17-18	KN	
09-18-18	1128	09-18-18	1027	11	37	M-M	09-23-18	JKSR	
09-25-18	1518	09-25-18	1417	37	10	M-M	09-29-18	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
8/15/18	10:36	110	109	Pass	KN	Cleaned Manifold
09/13/18		108	105	Pass	KN	" "

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
08/15/18	1040	16.70	587	588	24.8	25.5	12.98	16.79	-0.5	KN
09/13/18		16.70	585	588	18.9	19.7		16.94	-1.4	KN

ACD 2010

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	
07-03-18	1127	07-03-18	1027	18	29	M-M	07-07-18	JKSR	
07-09-18	1037	07-09-18	0938	29	34	M-M	07-13-18	KN	
07-16-18	1500	07-16-18	1901	34	6	M-M	07-19-18	JKSR	
07-20-18	1106	07-20-18	1006	6	12	1006	07-20-18	JKSR	Blank
07-20-18	1107	07-20-18	1007	12	13	M-M	07-25-18	JKSR	
07-26-18	1143	07-26-18	1043	13	23	M-M	07-31-18	JKSR	
08-01-18	1409	08-01-18	1310	23	38	M-M	08-06-18	JKSR	
08-07-18	1155	08-07-18	1056	38	17	M-M	08-12-18	JKSR	
08-15-18	1107	08-15-18	1008	17	28	M-M	08-18-18	KN	
08-20-18	1215	08-20-18	1116	28	42	M-M	08-24-18	KN	
08-28-18	1349	08-28-18	1250	42	5	M-M	08-30-18	JKSR	
08-31-18	0956	08-31-18	0857	5	12	M-M	09-05-18	KN	
09-07-18	1508	09-07-18	1409	12	24	M-M	09-11-18	JKSR	
09-13-18	1237	09-13-18	1138	24	14	M-M	09-17-18	KN	
09-18-18	1156	09-18-18	1055	14	38	M-M	09-23-18	JKSR	
09-25-18	1436	09-25-18	1336	38	13	M-M	09-29-18	JKSR	QT

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
08-15-18	11:11	110	107	Pass	KN	Cleaned Manifold
09-13-18		109	107	Pass	KN	" "

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
08-15-18	11:19	16.70	593	594	25.3	25.6	12.43	16.24	-2.85	KN
09-13-18		16.57	592	593	23.0	23.5		16.55	0.12	

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	
07-03-18	1129	07-03-18	1023	19	30	M-M	07-07-18	JKSR	
07-09-18	1045	07-09-18	0938	20	35	M-M	07-13-18	KN	Monitor still Running
07-16-18	1503	07-16-18	1357	35	7	M-M	07-19-18	JKSR	QT codes
07-20-18	1109	07-20-18	1003	7	14	M-M	07-25-18	JKSR	QT codes
07-26-18	1144	07-26-18	1038	14	24	M-M	07-31-18	JKSR	QT codes
08-01-18	1412	08-01-18	1306	24	39	M-M	08-06-18	JKSR	QT codes
08-07-18	1158	08-07-18	1052	39	18	M-M	08-12-18	JKSR	
08-15-18	1156	08-15-18	1050	18	29	M-M	08-18-18	KN	
08-20-18	1223	08-20-18	1117	29	JBR1	M-M	08-24-18	KN	
08-28-18	1351	08-28-18	1244	JBR1	6	M-M	08-30-18	JKSR	still Running
08-31-18	1001	08-31-18	0855	6	JJ	M-M	09-05-18	KN	
09-07-18	1510	09-07-18	1409	33	25	M-M	09-11-18	JKSR	codes QT
09-13-18	12:46	09-13-18	11:45	25	15	M-M	09-17-18	KN	
09-18-18	1153	09-18-18	1053	15	36	1053	09-18-18	JKSR	Blank QT
09-18-18	1158	09-18-18	1057	36	39	M-M	09-23-18	JKSR	
09-25-18	1438	09-25-18	1337	39	18	M-M	09-29-18	JKSR	QT

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance	
08-15-18	1158	111	107	Pass	KN	Cleaned manifold, changed screen, ~~increased~~	
09-13-18					KN		

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	
08-15-18	12:00	16.70	595	594	26.0	26.2	12.59	16.19	3.15	KN	increased flow 16.57
09-13-18		16.70	594	592.5	22.7	22.8		16.15	2.46	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
07-03-18	1140	07-03-18	1040	20	31	M-M	07-07-18	JKSR
07-09-18	1059	07-09-18	0959	31	36	M-M	07-13-18	KN
07-16-18	1513	07-16-18	1413	36	8	M-M	07-19-18	JKSR
07-20-18	1128	07-20-18	1028	8	15	M-M	07-25-18	JKSR
07-26-18	1214	07-26-18	1113	15	25	M-M	07-31-18	JKSR
08-01-18	1428	08-01-18	1327	25	40	M-M	08-06-18	JKSR
08-07-18	1208	08-07-18	1107	40	19	M-M	08-12-18	JKSR
08-15-18	1447	08-15-18	1347	19	30	M-M	08-18-18	KN
08-20-18	1412	08-20-18	1311	36	7	M-M	08-24-18	KN
08-28-18	1412	08-28-18	1311	7	7	M-M	08-30-18	JKSR
08-31-18	1018	08-31-18	0917	7	34	M-M	09-05-18	KN
09-07-18	1523	09-07-18	1422	34	26	M-M	09-11-18	JKSR
09-13-18	1329	09-13-18	1228	26	16	M-M	09-17-18	KN
09-18-18	1209	09-18-18	1108	16	40	M-M	09-23-18	JKSR
09-25-18	1423	09-25-18	1322	40	19	M-M	09-29-18	JKSR

Likely Exceeded

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
08/15/18					KN	Cleaned Manifold
09/13/18		100	96	Pass	KN	" "

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
09/13/18		16.70	590.0	592.0	23.6	24.2		16.70	0	KN

Co-located Monitor 2398E

Table I - Every 6th Day Sampling

Date	Time	Displayed Date	Displayed Time	Collected Filter ID#	New Filter ID#	Sample Start Time	Sample Start Date	Sampler Initials	
07-03-18	1142	07-03-18	1042	~~50~~ 21	32	M-M	07-07-18	JKSR	
07-09-18	1119	07-09-18	1019	32	37	M-M	07-13-18	KN	Didn't Run - Programing Correct
07-16-18	1515	07-16-18	1415	37	9	M-M	07-18-18	JKSR	
07-20-18	1130	07-20-18	1029	9	16	M-M	07-25-18	JKSR	
07-26-18	1216	07-26-18	1115	16	26	M-M	07-31-18	JKSR	
08-01-18	1430	08-01-18	1329	26	41	M-M	08-06-18	JKSR	
08-07-18	1210	08-07-18	1109	41	20	M-M	08-12-18	JKSR	
08-15-18	15:21	08-15-18	1420	20	31	M-M	08-25-18	KN	
08-20-18	14:15	08-20-18	1313	31	JBR8	M-M	08-24-18	KN	T-code incomplete Run Programing correct
08-28-18	1414	08-28-18	1313	JBR8	8	M-M	08-30-18	JKSR	
09-07-18	1525	09-07-18	1424	8	27	M-M	09-11-18	JKSR	
09-13-18	1332	09-13-18	1231	27	17	M-M	09-17-18	KN	
09-18-18	1211	09-18-18	1110	17	41	M-M	09-23-18	JKSR	
09-25-18	1425	09-25-18	1324	41	20	M-M	09-29-18	JKSR	

Table II - Monthly Leak Test

Date	Time	Initial SP Value	Final SP Value	Pass/Fail	Initials	Maintenance
08/15/18					KN	Cleaned Manifold
09/13/18		99	96	Pass	KN	" "

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
09/13/18		16.70	593.0	592.0	24.4	24.4		16.64	0.36	KN

APPENDIX E

Independent PM_{10} Sampler Performance Audit Report

AUDIT REPORT
FOR

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

Prepared for

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

Prepared by

Air Resource SPECIALISTS

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

Site Audited: September 13, 2018

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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 13, 2018. The monitoring sites are located at the Coal Hollow Mine near Alton, Utah.

Table 1-1

Site Location Information

	Primary CHM	Background	Primary NPL	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. Audit results for the meteorological measurements are summarized in Table 1-3. 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

Table 1-3

Summary of Meteorological Audit Results

Parameter	**Sensor**	**Within Accuracy Goal**
Wind Speed	Met-One 34B	Yes
Wind Direction	Met-One 34B	Yes
Temperature	Campbell Scientific 107	Yes
Precipitation	Hydrological Services TB4	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 B. *Quality Assurance Requirements for Prevention of Significant Deterioration (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*

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	≤ ±10mm Hg

Table 2-2

Particulate Samplers
Audit Equipment

References	Manufacturer	Model Number	Serial Number	Expiration Date
FRM Flow	BGI	DeltaCal	1237	12/1/2018

2.2 METEOROLOGICAL PARAMETERS

Meteorological measurement systems are audited in accordance with (and accuracy goals were obtained from) the EPA's *Quality Assurance Handbook for Air Pollution Measurement Systems: Volume IV – Meteorological Measurements*, (March 2008). ARS uses National Institute of Standards and Technologies (NIST) traceable test equipment for all meteorological parameters. All equipment is recertified annually. Audit ranges and acceptable criteria for each parameter are summarized in Table 2-3.

2.2.1 Wind Speed

Wind speed sensors are audited using an R.M. Young model 18802 (high RPM) or 18811 (low RPM) pulsed motor wind speed calibrator. Each sensor is tested at zero and five shaft revolution speeds. The equivalent wind speed is calculated corresponding to the sensor manufacturer's specified values for shaft speed versus wind velocity and compared to readings obtained from the on-site datalogger.

2.2.2 Wind Direction

Wind direction sensor audits include the verification of sensor orientation, linearity, and starting threshold (bearing integrity). The sensor orientation accuracy is verified by a reference. The reference can be an internal reference (a tower-mounted alignment vane) or external (pointing at landmarks from the sensor). Accuracy of the references is verified by the solar azimuth method for the determination of true north. Using a compass and the site latitude and longitude, a computer model outputs the sun's azimuth for that exact time of day. The compass is adjusted to that azimuth, effectively correcting for the compass to the local magnetic declination (which may include local magnetic field disturbances). The sensor orientation accuracy is checked by aligning the wind direction vane to and from each landmark reference, recording sensor responses from the on-site datalogger.

Potentiometer linearity is tested by verifying the change in response between two successive orientations across eight points on a calibrated disc mounted atop the sensor. For example, any two adjacent orientations on the eight-point disc are separated by 45 degrees. The difference in the datalogger response for these two adjacent orientations is compared to this value.

2.2.3 Ambient Temperature

Temperature sensors that are non-immersible are audited by collocation of the audit sensor under ambient conditions utilizing similar methods of sensor aspiration. Collocated comparisons are typically carried out using hourly averages. Audit data are collected by a datalogger provided by the auditor. Temperature sensors that are immersible are audited by comparison to the audit sensor in water baths. The test baths are typically at 0°C, near ambient conditions (or approximately 25°C), and near the full scale of the sensor (typically near 50°C). Data observed on the on-site datalogger are used to assess the accuracy of sensors. Sensor aspirators are inspected for proper function, including fan function and flow direction.

2.2.4 Precipitation

The tipping bucket style precipitation gauges are audited with a volumetric precipitation gauge calibrator by transferring a known amount of water through the gauge orifice at a maximum rate equivalent to 2.0 inches/hour of precipitation. The total values from the on-site datalogger values are compared to the actual introduced volume. The level and cleanliness of the sensor is observed where possible.

Table 2-3

Meteorological Sensors
Audit Ranges and Acceptance Criteria

Parameter	Audit Method	Acceptance Criteria
Wind Speed	Accuracy at five speeds with anemometer drive	$\leq \pm 0.2$ m/s
	Starting threshold with torque gauge	Manufacturer specs
Wind Direction	Accuracy with compass	$\leq \pm 5^{o}$
	Linearity	$\leq \pm 5^{o}$
	Starting threshold with torque gauge	Manufacturer specs
Ambient Temperature (non-immersible sensor)	Accuracy via collocation in ambient conditions	$\leq \pm 0.5^{o}$
Ambient Temperature (immersible sensor)	Accuracy via collocation in three water baths	$\leq \pm 0.5^{o}$
Precipitation	Accuracy via known volume of water	$\leq \pm 10\%$

Table 2-4

Meteorological Audit Equipment

References	Manufacturer	Model Number	Serial Number	Expiration Date
Wind Speed (high rpm)	R.M. Young	18802	CA4104	3/9/2018
Wind Direction Orientation	Brunton	Transit	5103212072	N/A
Temperature (immersible)	Eutechnics	4400	307635	2/28/2019
Precipitation	R.M. Young	52260	N/A	N/A

3.0 AUDIT RESULTS

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

Performance Audit Results

All parameters at the meteorological station passed the performance audit. It should be noted that the auditor could only perform qualitative checks on the wind speed measurement. Quantitative checks on the wind speed measurement will be conducted next quarter.

The Primary site PQ200 had highly variable flow rates, as both indicated by the instrument and the BGI deltaCal flow calibrator. While all flow rates noted passed the performance audit requirements, the %CV flow is likely an issue for sampling. Based upon recent data downloads, it looks like this issue just started. The issue appears to be related to the pump. The collocated PQ200 initially failed the leak check due to a minuscule leak. Once the filter holder assembly was tightened, there was no issue.

No issues were noted at the Background and NPL sites.

APPENDIX A

AUDIT DATA FORMS

Air Resource SPECIALISTS

TEMPERATURE / DELTA-TEMPERATURE SYSTEM AUDIT

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
Temperature Reference	Eutechnics	4400	307635	2/28/2019

2m Temperature Sensor	
Manufacturer	Campbell Scientific
Model	107
Serial Number	10755-14 / WO#1272

List sensors according to height on tower, from highest to lowest.

Temp. Deltas	

CALIBRATION ACCEPTANCE CRITERIA (<=)	
Ambient Temperature Difference (°C)	0.5
Vertical Temperature Difference (°C)	0.1

AS FOUND	2m Temperature											
Bath Temp (°C)	DAS	Difference										
0.23	0.29	0.06	PASS									
36.12	36.35	0.23	PASS									
21.58	21.74	0.16	PASS									
MAX ABS Difference		0.23	PASS									

MAX ABS Difference						

Aspirator fan functional 2m?	☐ Yes ☐ No ☑ N/A	Each sensor was verified against its data channel ?
	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☑ N/A
	☐ Yes ☐ No ☐ N/A	Each Temperature *Difference* = Upper - Lower ?
	☐ Yes ☐ No ☐ N/A	☐ Yes ☐ No ☑ N/A

NOTES:

Air Resource SPECIALISTS

WIND SPEED SENSOR AUDIT

ABBR.	n/a	CLIENT	Alton Coal	FIELD SPECIALIST	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
Wind Speed Reference	RM Young	18802	CA04104	3/9/2019
Wind Speed Torque Gauge	RM Young	18310		

Manufacturer and Model	Met One - 034B
Sensor Serial #	E2281
Cups Serial #	

AUDIT CRITERIA (<=)	
Wind Speed Difference (m/s)	0.20
Wind Speed Difference (%)	N/A

Select UNITS	m/s

		Wind Speed			
Motor Speed (rpm)	Target Speed	DAS	Difference		
0	0.000	0.000	N/A	N/A	N/A
100	2.943				
200	5.607				
300	8.270				
600	16.260				
1800	48.220				

Starting Threshold	TORQUE
Torque <= 0.2 g-cm	

Heater sleeve functional?	☐ Yes ☐ No ☑ N/A

NOTES:

Air Resource SPECIALISTS

WIND DIRECTION AUDIT

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
Direction Alignment Reference	Brunton	Transit	5103212072	
Direction Linearity Reference	RM Young	18212	n/a	
Direction Torque Gauge	RM Young	18331	n/a	

Manufacturer & Model	Met One - 034B
Sensor Serial #	E2281
Vane Serial #	

Local Magnetic Declination (degrees)	0.0
Method	n/a

Mag. Dec. from NOAA (deg/min/sec)				0.00

http://www.ngdc.noaa.gov/geomag-web/#declination

Landmarks	Degrees
To left most building/barn to the east	338
From left most building/barn to the east	158
From center of right rock outcrop, saddle	73
To center of right rock outcrop, saddle	253

AUDIT CRITERIA (<=)	
Cross-arm Alignment Error (degrees)	2
Total Align. Diff (degrees)	5
Sensor Linearity (degrees)	5

Reference Alignment Error (degrees)	0.0	PASS

SENSOR ALIGNMENT

Reference	Degrees	DAS	Difference	
From the North	0			
From the South	180			
From the East	90			
From the West	270			
Total Alignment	MAX ABS Diff			

OR

SENSOR ALIGNMENT

Landmark	Degrees	DAS	Difference	
host building/barn to	338	335.8	-2.2	
most building/barn to	158	156.0	-2.0	
er of right rock outcr	73	72.5	-0.5	
r of right rock outcro	253	250.8	-2.2	
Total Alignment	MAX ABS Diff		2.2	PASS

SENSOR LINEARITY

Point	DAS	Difference	
1		N/A	
2			
3			
4			
5			
6			
7			
8			
1			
MAX Difference			

Starting Threshold	TORQUE
Torque <= 6.5 g-cm	

Heater sleeve functional? ☐ Yes ☐ No ☑ N/A

NOTES:

Air Resource SPECIALISTS

PRECIPITATION SENSOR AUDIT

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
Precipitation Reference	RM Young	52260	n/a	

Manufacturer	Hydrological Services
Model	TB4
Serial Number	05-94

AUDIT CRITERIA (<=)	
Difference from Input Volume (%)	10%

	Reference Chart			Input Volume (mL)		1000
	Manufacturer	Model	Diameter (in.)	mm/tip	mL/tip	DAS target
	Met One	385	12	0.254	18.53	13.71
	RM Young	52202	6.2825	0.100	2.00	50.00
	Climatronics	100097-1-G0-H0	8	0.254	8.24	30.84
	Climatronics	100508	9.66	0.100	4.73	21.15
X	Hydrological Serv.	TB4	8	0.254	8.24	30.84

Conversions			
Value	Units	Value	Units
1.000	inch	25.40	mm
25.40	mm	1.000	inch

		Precipitation		
Reference (mL)	Target (mm)	DAS (mm)	Difference	
1000	30.84	29.47	-4.4%	PASS

Heater functional?	☐ Yes	☐ No	☑ N/A

NOTES: Slightly dirty, level, tipping mechanism calibrated well

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1237	12/1/2018
PM Temperature Standard #1	BGI	deltaCal	1237	12/1/2018
PM Barometric Pressure Standard #1	BGI	deltaCal	1237	12/1/2018

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N963B

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
2 cm	PASS

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.55	16.57	0.1%	-0.9%	PASS

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

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
22.6	22.1	-0.5	PASS

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

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
23.5	23.0	-0.5	PASS

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

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
593.0	592.0	-1.0	PASS

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

NOTES: Flow flucuated on deltacal (16.33-16.78 LPM) and the instrument (16.22-16.92), It looks like a pump issue.

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1237	12/1/2018
PM Temperature Standard #1	BGI	deltaCal	1237	12/1/2018
PM Barometric Pressure Standard #1	BGI	deltaCal	1237	12/1/2018

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N964C

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
		FAIL

FLOW VERIFICATION					
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.50	16.70	1.2%	-1.2%	PASS

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

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
22.8	22.7	-0.1	PASS

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

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
23.8	23.6	-0.2	PASS

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

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
592.5	594.0	1.5	PASS

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

NOTES: initially leak check failed due to a tiny leak. The filter holder assembly was tighten and the leak check passed. Data integrity is ok.

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1237	12/1/2018
PM Temperature Standard #1	BGI	deltaCal	1237	12/1/2018
PM Barometric Pressure Standard #1	BGI	deltaCal	1237	12/1/2018

MANUFACTURER	BGI
MODEL	PQ200S
SERIAL NUMBER	N962

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	16.94	16.70	-1.4%	1.4%	PASS

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

AMBIENT TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
19.7	18.9	-0.8	PASS

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

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
18.8	18.2	-0.6	PASS

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

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
587.0	585.0	-2.0	PASS

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

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1237	12/1/2018
PM Temperature Standard #1	BGI	deltaCal	1237	12/1/2018
PM Barometric Pressure Standard #1	BGI	deltaCal	1237	12/1/2018

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2366D

Date and Time correct?
☐ Yes ☑ No
If no, time off by:
-2 min

SETTINGS	
Total Flow	16.70

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

	FLOW VERIFICATION				
	Reference	Instrument	Actual Diff	Design Diff	
Total Flow	16.70	16.70	0.0%	0.0%	PASS

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

	AMBIENT TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	24.2	23.6	-0.6	PASS

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

	FILTER TEMPERATURE SENSOR (°C)			
	Reference	Instrument	Difference	
	24.6	24.1	-0.5	PASS

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

	PRESSURE SENSOR (mmHg)			
	Reference	Instrument	Difference	
	592.0	590.0	-2.0	PASS

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

NOTES:

Air Resource SPECIALISTS

FRM AUDIT (PM_{10})

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollow					

	MANUFACTURER	MODEL	SERIAL NUMBER	EXPIRATION DATE
PM Flow Standard #1	BGI	deltaCal	1237	12/1/2018
PM Temperature Standard #1	BGI	deltaCal	1237	12/1/2018
PM Barometric Pressure Standard #1	BGI	deltaCal	1237	12/1/2018

MANUFACTURER	BGI
MODEL	PQ200
SERIAL NUMBER	2398E

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	16.64	16.70	0.4%	-0.4%	PASS

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

AMBIENT TEMPERATURE SENSOR (°C)				
Reference	Instrument	Difference		
24.4	24.4	0.0	PASS	

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

FILTER TEMPERATURE SENSOR (°C)			
Reference	Instrument	Difference	
592.0	593.0	1.0	PASS

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

PRESSURE SENSOR (mmHg)			
Reference	Instrument	Difference	
24.4	24.7	0.3	PASS

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

NOTES:

Air Resource SPECIALISTS

SITE INFORMATION

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
NETWORK TYPE		Alton Coal- Coal Hollow					

		Deg	Min	Sec		Decimal
LATITUDE	North	37	23	53.2	--CALCULATE->	37.3981
LONGITUDE	West	112	26	43.1		112.4453

Decimal		Deg	Min	Sec
	--CALCULATE->			

	Meters		Feet
ELEVATION		--CALCULATE->	

Feet		Meters
	--CALCULATE->	

Please verify site standards used by the site operator

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

NOTES:	

Air Resource SPECIALISTS

CALIBRATION AND VERIFICATION STANDARDS

ABBR.	n/a	CLIENT	Alton Coal	AUDITOR	C.Kirk	DATE	9/13/2018
SITE NAME		Alton- Coal Hollow Mine					
Network type		Alton Coal- Coal Hollov					

	MANUFACTURER	MODEL	SERIAL #	Calibration Expiration Date
Ozone Transfer Standard				
Gas Dilution Transfer Standard				
MFC High Flow Reference				
MFC Low Flow Reference				
Temperature Reference	Eutechnics	4400	307635	2/28/2019
AT/RH Sensor Reference				
Barometric Pressure Reference				
Wind Speed Reference (high rpm)	RM Young	18802	CA04104	3/9/2019
Wind Speed Reference (low rpm)				
Wind Speed Torque Gauge	RM Young	18310		
Wind Direction Alignment Reference	Brunton	Transit	5103212072	
Wind Direction Linearity Reference	RM Young	18212	n/a	
Wind Direction Torque Gauge	RM Young	18331	n/a	
Solar Radiation Reference				
Multiplier	W/m2 / mV			
UV Radiation Reference				
Multiplier	W/m2 / mV			
Precipitation Reference				
Volume 1000 mL	RM Young	52260	n/a	

PM Flow Standard #1	BGI	deltaCal	1237	12/1/2018
PM Flow Standard #2				
PM Flow Standard #3				
PM Flow Standard #4				

PM Temperature Standard #1	BGI	deltaCal	1237	12/1/2018
PM Temperature Standard #2				
PM Temperature Standard #3				
PM Temperature Standard #4				

PM Barometric Pressure Standard #1	BGI	deltaCal	1237	12/1/2018
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

MICRO PRECISION CALIBRATION
22835 INDUSTRIAL PLACE
GRASS VALLEY CA 95949
530-268-1860

Certificate of Calibration

Date: Feb 28, 2018 **Cert No. 512200813278800**

Customer:

AIR RESOURCE SPECIALIST, INC

1901 SHARP POINT DRIVE, SUITE F
FORT COLLINS CO 80525

		Work Order #:	SAC-70093204
		Purchase Order #:	a32178
MPC Control #:	AX7278	Serial Number:	307635
Asset ID:	N/A	Department:	N/A
Gage Type:	DIGITAL THERMOMETER	Performed By:	TODD MORRIS
Manufacturer:	EUTECHNICS	Received Condition:	IN TOLERANCE
Model Number:	4400	Returned Condition:	IN TOLERANCE
Size:	-20 to 130 Deg C	Cal. Date:	February 28, 2018
Temp/RH:	70.0°F / 45.0%	Cal. Interval:	12 MONTHS
Location:	Calibration performed at MPC facility	Cal. Due Date:	February 28, 2019

Calibration Notes:

Standards Used to Calibrate Equipment

I.D.	Description.	Model	Serial	Manufacturer	Cal. Due Date	Traceability #
CR6700	DOUBLE WELL BATH	7013	79006	HART SCIENTIFIC	Sep 30, 2018	512200813015067
DA8367	PRECISION PLATINUM RESISTANCE THERMOMETER SPRT W/ CASE	8167-25	1803221	LEEDS & NORTHRUP CO.	Aug 1, 2019	512200812443997
N1741	ICE POINT CELL	K140-4	802125	KAYE INSTRUMENTS	Jan 31, 2020	512200813197782

Procedures Used in this Event

Procedure Name	Description
MPC-TEM-001	Temperature Sensor and Indicators, General, Oct-31-2017, rev01

Calibrating Technician: Todd Morris

TODD MORRIS

QC Approval:

BRIAN GOLD

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA's Publication and NIST Technical Note 1297, 1994 Edition. Services rendered conform with ISO/IEC 17025:2005, ANSI/NCSL Z540-1-1994, ANSI/NCSL Z540.3-2006, MPC Quality Manual, MPC CSD and with customer purchase order instructions.

Calibration cycles and resulting due dates were submitted/approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. The information on this report, pertains only to the instrument identified.

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

CERTIFICATE OF CALIBRATION AND TESTING

Model: 18802
Serial Number: CA04104

Description: Anemometer Drive - 200 to 15000 RPM
(Comprised of 18820A Control Unit and 18830A Motor Assembly)

R. M. Young Company certifies that the above equipment was inspected and calibrated prior to shipment in accordance with established manufacturing and testing procedures. Standards established by R.M. Young Company for calibrating the measuring and test equipment used in controlling product quality are traceable to the National Institute of Standards and Technology.

Nominal Motor RPM RPM	27106D Output Frequency Hz (1)	Calculated RPM (2)	Indicated RPM (3)
300	50	300	300
2700	450	2700	2700
5100	850	5100	5100
7500	1250	7500	7500
10200	1700	10200	10200
12600	2100	12600	12600
15000	2500	15000	15000
☑ Clockwise and Counterclockwise rotation verified.			

(1) Measured output frequency of YOUNG model 27106D standard anemometer attached to motor shaft.
(2) YOUNG model 27106D produces 10 pulsed per revolution of the anemometer shaft.
(3) Indicated on the Control Unit LCD.

* Indicates out of tolerance.

☐ New Unit ☑ Service / Repair Unit ☐ As found
☑ No calibration adjustments required ☐ As left

Traceable frequency meter used for calibration:
Model: 34405A Serial Number: 53020093

Date: 9 March 2018
Calibration Interval: One year

Tested By : EC

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: **1237** DATE: 22-Nov-2017

Calibration Operator: P.Pitty

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

Room Temperature: +- 0.03°C from -5°C - 70°C Room Temperature: 23.5 °C
Brand: Telatemp Serial Number: 358921
Std Cal Date 19-Apr-17 Std Cal Due Date 19-Apr-18
deltaCal:
Ambient Temperature (set): 23.5 °C
Aux (filter) Temperature (set): 23.5 °C

Barometric Pressure ans Absolute Pressure
Vaisala Model PTB330(50-1100) Digital Accuracy: 0.03371%
Serial Number: HO850001
Std Cal Date 27-Mar-17 Std Cal Due Date 27-Mar-18
deltaCal:
Barometric pressure (set): 749 mm of Hg

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

Q= 3.93154 ΔP ^ 0.51535 Overall Uncertainty: 0.35%
Q= 3.87507 ΔP ^ 0.50721 Overall Uncertainty: 0.35%

Date Placed In Service 12/1/17
(To be filled in by operator upon receipt)
Recommended Recalibration Date 12/1/18
(12 months from date placed in service)

Revised: March 2016
Cal102-01T2 Rev F

To Check a deltaCal 22-Nov-17 P.Pitty

1.5-19.5 VER 4.00P

BP= 749 mm of Hg

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

Serial No. 1237

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 2	125.05	23.50	1.410	1.413	**0.23**
	215.29	23.50	2.462	2.468	**0.24**
	266.58	23.50	3.060	3.051	**-0.30**
	405.05	23.50	4.675	4.684	**0.19**
	567.26	23.50	6.567	6.530	**-0.56**
#1	177.30	23.50	7.067	7.100	**0.46**
	269.58	23.50	10.825	10.816	**-0.09**
	333.95	23.50	13.447	13.417	**-0.22**
	411.08	23.50	16.588	16.580	**-0.05**
	483.80	23.50	19.549	19.564	**0.07**
				Average %	**0.00**

To Check a deltaCal 22-Nov-17 Pre-Recert

1.5-19.5 VER 4.00P

BP= 748.5 mm of Hg

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

Serial No. 1237

	Reading Abs. P Crit. Vent. mm of Hg	Room Temp	CV Qa Flow Lpm	Qa deltaCal Indicated	% Error
# 2	138.23	19.70	1.544	1.801	**16.61**
	309.57	19.70	3.518	3.690	**4.88**
	551.18	19.70	6.302	6.380	**1.24**
#1	188.43	19.70	7.429	7.520	**1.22**
	371.83	19.70	14.807	14.970	**1.10**
	481.42	19.70	19.216	19.460	**1.27**
				Average %	**4.39**