

2016
Air Quality Report
Site 174, Dennis Collins Park

Attached is a technical summary of air quality data for 2016 at the Site 174 cleanup site submitted by PPG Industries' air monitoring consultant.

This report provides air monitoring information about conditions at the perimeter associated with Site 174 (Dennis Collins Park).

Also, this document notes any deviations from the monitoring plan and work schedule caused by factors beyond the control of cleanup contractors, such as inclement weather and malfunctioning equipment.



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Final Air Monitoring Report Site 174, Dennis Collins Park Bayonne, New Jersey

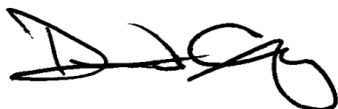
Reporting Period: March 2016 - September 2016

Final Air Monitoring Report Site 174, Dennis Collins Park Bayonne, New Jersey

Reporting Period: March 2016 - September 2016



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List of Acronyms

AAC – Acceptable Air Concentration

AMP – Air Monitoring Plan

AMS – Air Monitoring Station

Cr⁺⁶ – Hexavalent Chromium

ng/m³ – Nanograms per Cubic Meter of Air

NJDEP – New Jersey Department of Environmental Protection

PM₁₀ – Particulate Matter 10 Microns or less in Diameter

PPG – PPG Industries, Inc.

µg/m³ – Micrograms per Cubic Meter of Air

Executive Summary

Air monitoring conducted at Site 174 was completed in accordance with the Site-Specific Air Monitoring Plan (AMP), and included daily sampling and analysis for 8-hour integrated hexavalent chromium (Cr^{+6}) and total particulates at one downwind station, as well as real-time monitoring for PM_{10} at all air monitoring stations. This program was designed to measure various aspects of air quality at the Site to ensure that remedial activities at the Site did not have an adverse effect on Site workers and the surrounding community.

Results of the integrated Cr^{+6} sampling and analysis indicate that program-to-date average airborne Cr^{+6} concentrations were significantly below the Acceptable Air Concentration (AAC). The results and calculations document continued compliance with the current AAC set by the New Jersey Department of Environmental Protection (NJDEP), confirm that dust control measures were effective, and indicate that the levels of Cr^{+6} in dust generated at the Site did not represent an emission source of Cr^{+6} sufficient to create potential offsite exposure to Cr^{+6} at or exceeding the AAC.

1.0 Introduction

This final air monitoring report includes both tabular information and written discussions summarizing the ambient air quality data collected in accordance with the Air Monitoring Plan (AMP) at Site 174 (referred herein as Site), in Bayonne, New Jersey.

This final report is designed to provide a summary of the air monitoring data collected during the intrusive activities associated with Site 174 throughout the project. This report includes both monthly and program-to-date summaries of the following:

- Integrated hexavalent chromium analytical results;
- Integrated total particulate analytical results;
- Real-time 15-minute average PM₁₀ readings; and
- Meteorological conditions.

Results have been evaluated and compared to the Site-specific Acceptable Air Concentration (AAC) and the Action Levels in accordance with the AMP.

2.0 Air Monitoring

This report summarizes air monitoring at the Site performed between the baseline period and the end of the project. The baseline period includes data measured between March 30, 2016 and March 31, 2016.

Remedial activities began on the Site on April 4, 2016. Air monitoring stations provided protection during intrusive work between April 4, 2016 and September 2, 2016. Air monitoring activities were concluded on September 2, 2016 when all intrusive activities that required monitoring were completed.

The site contained three ground level stations. One station collects Cr⁺⁶ and total particulate samples for 8-10 hours daily during the week. The sampling location each day was determined based on wind direction and was conducted at the downwind location. Locations of AMS during the reporting period are provided in Appendix G. Table 2-1 provides an overview of the air monitoring approach.

Air monitoring results throughout the project have confirmed protection of the community, and the overall effectiveness of the program has been evaluated as a success based on the average Cr⁺⁶ concentrations compared to the AAC. The Cr⁺⁶ average concentrations measured when compared to the site-specific AAC for Cr⁺⁶ confirm the effectiveness of the program. Thus, this report will focus largely on the integrated analytical results collected as part of the Cr⁺⁶ fence-line air monitoring.

Air monitoring data collected at the Site includes:

- 8-hour integrated Cr⁺⁶ and total particulate sample collection and associated laboratory analysis;
- Real-time 15-minute average PM₁₀, readings measured at the perimeter.
- Hand-held readings for PM₁₀ measured at the perimeter.

The following sections outline the types of data collected, frequency of collection, and the corresponding locations.

Table 2-1: Air Monitoring Approach

Site	Station	Integrated Air Monitoring	Real-Time Air Monitoring
Site 174	AMS1, AMS2, AMS3	Integrated 8-hour Cr ⁺⁶ and total particulate sampling and analysis during workdays at one downwind station.	15-minute average PM ₁₀ readings measured for a 24-hour period.

2.1 Integrated Air Sampling

Integrated Cr⁺⁶ and total particulate samples were collected at one of the AMS for an 8-hour-to-10-hour duration each working day (typically Monday – Friday). Samples were collected on a pre-weighed polyvinyl chloride 37mm filter cassette for both Cr⁺⁶ and total particulate. Sampling pumps operated at or around 2 liters per minute and were calibrated at the beginning and end of each sampling run.

2.1.1 Integrated Cr⁺⁶ Sampling

The exposed Cr⁺⁶ filters were shipped to an American Industrial Hygiene Association Industrial Hygiene Laboratory Accreditation Program-certified analytical laboratory for Cr⁺⁶ analysis using Modified OSHA ID 215. The sample weights were provided by the laboratory with a laboratory detection limit of 10.0 ng. The sample weights and flow information were utilized to calculate 8-hour to 10-hour integrated Cr⁺⁶ air concentrations in nanograms per cubic meter of air (ng/m³). Filter weights reported as non-detect were included in the concentration calculation at one-half the laboratory detection limit for data reporting purposes.

2.1.2 Integrated Total Particulate Sampling

The exposed total particulate filters were shipped to an American Industrial Hygiene Association Industrial Hygiene Laboratory Accreditation Program-certified analytical laboratory for total particulate analysis using NIOSH Method 0500. The sample weights were provided by the laboratory with a laboratory detection limit of 100 ug. The sample weights and flow information were utilized to calculate 8-hour-to-10-hour integrated total particulate air concentrations in micrograms per cubic meter of air (µg/m³). Filter weights reported as non-detect were included in the concentration calculation at one half the laboratory detection limit for data reporting purposes.

2.2 Real-Time Air Monitoring

Real-time air monitoring was divided into two types of monitoring including: perimeter monitoring and meteorological monitoring. Each monitoring type is described in more detail in the following sections.

2.2.1 Perimeter

Perimeter air monitoring consisted of ground level stations at the perimeter of the Site. Perimeter monitoring included the following:

- Real-time 15-minute average PM₁₀ readings at each AMS location. All AMS operated during remedial activities.

2.2.2 Meteorological Measurements

Meteorological measurements of 15-minute average wind speed and direction, relative humidity, pressure, and temperature were recorded onsite during working hours, typically Monday – Friday.

2.3 Hand-held Air Monitoring

Hand-held air monitoring consisted of the collection of perimeter PM₁₀ readings. Monitoring is described in more detail in the following section.

2.3.1 Perimeter PM₁₀ Hand-held Monitoring

Hand-held readings were taken along the downwind perimeter of the Site periodically each day during remedial activities and logged to be reported weekly. The readings were collected as instantaneous readings and if levels were elevated, 15-minute averages were recorded for comparison to adjacent perimeter stations

3.0 Site-Specific Acceptable Air Concentration and Real-Time Action Levels

Site-specific Acceptable Air Concentration (AAC) and real-time Action Levels had been established for Cr⁺⁶ and real-time PM₁₀ concentrations by NJDEP as part of the approved AMP, in compliance with risk assessment procedures. The AAC and real-time Action Levels had been developed to protect off-site receptors from potential adverse health impacts from Cr⁺⁶ and particulates over the duration of the intrusive remediation activities.

Real-time monitoring and integrated results were compared against the AAC and the real-time action levels to alert Site management of the potential need to enhance control of emissions and curtail operations to maintain concentrations at levels below the specified criteria. The AAC and real-time action levels for integrated Cr⁺⁶ concentrations and real-time PM₁₀ are outlined in the following sections.

3.1 Integrated Cr⁺⁶ Acceptable Air Concentration

A Site-specific Cr⁺⁶ AAC had been established by NJDEP to protect off-site receptors from potential adverse health impacts due to potential exposure to Cr⁺⁶ in dust. The AAC for Cr⁺⁶ was developed to represent the maximum allowable average concentration of Cr⁺⁶ in the air over the project duration. The AAC was protective of human health based on a non-carcinogenic exposure endpoint with a duration of one calendar year or less for intrusive remedial activities.

The AAC of 487 ng/m³ was applicable at the perimeter and represents the maximum allowable average concentration measured over the project duration and was developed to ensure the protection of human health. This AAC was also used to evaluate the effectiveness of dust control. PPG had established an operational goal of achieving a project average hexavalent chromium air concentration of 49 ng/m³ to the extent practicable using best management practices throughout the duration of intrusive remedial activities at the site.

To ensure ongoing compliance with the AAC, shorter duration rolling averages were utilized to provide for the early and regular assessment of performance trends and, if necessary, allow for responsive corrective measures to be implemented to ensure that emissions of Cr⁺⁶ were maintained well below the AAC over the duration of the project, and were minimized to the greatest extent practicable. These shorter duration average concentrations metrics included: program-to-date, 90-day, 60-day, and 30-day running averages where the average Cr⁺⁶ concentration over the previous 90-day, 60-day, and 30-day periods were calculated for each sample day. Sampling days were considered days where routine

sampling was conducted (typically Monday – Friday). The shorter-term average concentrations were compared against the list of metrics provided in Table 3-1 which also depicts respective response actions.

Table 3-1: Running Cr⁺⁶ Metrics

Metric Observation	Response Action
30-day ¹ Cr ⁺⁶ average concentration greater than or equal to 400 ng/m ³	External meeting to review levels, evaluate activities each day when elevated concentrations were observed, and trigger corrective action if required.
60-day ¹ Cr ⁺⁶ average concentration greater than or equal to 300 ng/m ³	
90-day ¹ Cr ⁺⁶ average concentration greater than or equal to 200 ng/m ³	
¹ Refers to days on which samples were collected, not necessarily calendar days	

3.2 Real-Time Alert and Action Levels

Real-time Alert and Action Levels were designed to monitor and assist in control of Site emissions to ensure protection of human health, and represent an important aspect of the remedial program at the Site. The real-time Alert and Action Levels used on Site are shown in Table 3-2.

Table 3-2: Site-specific Alert and Action Levels

Parameter	Alert Level (15-min TWA)	Action Level (15-min TWA)
PM ₁₀	255 µg/m ³	339 µg/m ³

4.0 Air Sampling and Monitoring Results

Results of air sampling and monitoring conducted between April 4, 2016 and September 2, 2016 are summarized herein. The following sections present both tabular and written discussions of the air sampling and monitoring results for the project including:

- Monthly integrated and real-time results;
- Program-to-date integrated and real-time statistics;
- Evaluation of program success versus the Site-specific AAC and action levels;
- Meteorological results; and
- Hand-held monitoring results

Air sampling and monitoring results are presented in detail in the Appendices of this report. Appendix A through Appendix G includes summary of the air sampling and monitoring results, meteorological data, and site maps for the project. Appendix H includes program-to-date statistics and monthly comparison of results.

4.1 Integrated Air Sampling Results

Results of the integrated Cr^{+6} and total particulate sampling and analysis are presented in the following sections.

4.1.1 Cr^{+6} Sampling Results

Results of the Cr^{+6} sampling for the project and a program-to-date evaluation are discussed in the following sections. The short-term average integrated Cr^{+6} results at the end of the project are presented in Table 4-1.

Project Reporting Period

Individual integrated 8-hour Cr^{+6} concentrations measured during the project are presented in Appendix A. If an individual sample result exceeded 80% of the project duration AAC, additional evaluation and review of relevant Site conditions and activities were performed to potentially modify procedures if necessary, to reduce the potential for increased Cr^{+6} concentration trends. Any elevated concentration data during the project duration are listed and discussed in Appendix E.

Program-to-date

Sampling and analytical statistics for integrated 8-hour Cr^{+6} results are shown in Table H-1 and include various program-to-date metrics relative to Cr^{+6} analytical data. Monthly average 8-hour Cr^{+6} concentration results are shown in Table H-2 for each AMS location.

Table 4-1: Short-Term Average 8-hour Integrated Cr⁶ Metrics

Running Cr ⁶ Metrics		Site 174
	Metric (ng/m ³)	Downwind Sampling Location (ng/m ³)
30-day	400	4.7
60-day	300	4.6
90-day	200	N/A
PTD ¹	487	4.8
<p>1. Program-to-date - Air monitoring conducted from March 630, 2016 through the end of the project.</p>		

4.1.2 Total Particulate Sampling Results

Results of the 8-hour integrated total particulate sampling and analysis for the project and program-to-date results are discussed in the following sections.

Project Reporting Period

Individual integrated 8-hour total particulate concentrations measured at each station during the project are presented in Appendix B.

Program-to-date

Sampling and analytical statistics for integrated total particulate are shown in Table H-3 and include various metrics relative to total particulate analytical data. Monthly average total particulate concentration results are shown in Table H-4 for each AMS.

4.1.3 Integrated Air Sampling Results Summary

There were 84 sample days between March 30th, 2016 and the end of the project. The results of the sample analysis are summarized in the following sections.

Air Monitoring

The program throughout the project shows the 8-hour Cr⁺⁶ average concentrations, based upon lab analytical results, were less than 0.98% of the AAC, demonstrating that the dust control measures were effective.

4.2 Real-Time Air Monitoring Results

Real-time air monitoring for PM₁₀ was conducted during all remedial activities. The results of the real-time air monitoring are presented in the following sections.

4.2.1 PM₁₀ Monitoring Results

Results of the real-time PM₁₀ sampling for the project since the start of intrusive activities are discussed in the following sections.

Project Reporting Period

Real-time 15-minute PM₁₀ averages measured during the project are presented in Appendix C. Real-time 15-minute PM₁₀ averages were compared directly to the PM₁₀ Action Level (339 µg/m³) and averages greater than the action level were subject to additional evaluation. If applicable, elevated PM₁₀ averages are listed and discussed in Appendix E.

Program-to-date

Real-time monthly PM₁₀ averages are shown in Table H-5 for each AMS. Dust readings measured during the reporting period were similar to those during the baseline period (when no intrusive activities were occurring). This indicates that dust control measures during intrusive activities were effective.

4.3 Meteorological Monitoring Results

Time series plots for wind speed, temperature, and relative humidity for the reporting period are shown in Appendix F. A wind-rose for each month displaying the primary wind directions is also shown in Appendix F.

4.4 Hand-held Monitoring Results

Maximum hand-held monitoring results during the reporting period are displayed in Appendix D. Readings were compared directly to the 15-Minute TWA Action Level (339 ug/m³) and averages greater than the action level were subject to additional evaluation. If applicable, elevated averages were listed and discussed in Appendix E.

4.5 Site Activities

Activities which occurred on the site during the project included:

- Excavation and load out of non-hazardous soils and chromium-impacted material / soils;
- Delivery and placement of clean fill materials;
- Backfilling open excavations.

4.6 Site Map(s)

Site maps during the project reporting period are documented and included in Appendix G.

5.0 Conclusions

Results of the project reporting period for the Site 174 air sampling and monitoring program indicate that the average Cr⁺⁶ concentrations for each AMS were well below the site safety goal of 49 ng/m³ and below the AAC of 487 ng/m³. The Cr⁺⁶ concentrations and the percent Cr⁺⁶ in dust samples throughout the project demonstrate that the dust control measures were effective at maintaining concentrations of Cr⁺⁶ in airborne dust at the Site well below the AAC. These results indicate that dust generated at the Site contained very small percentages of Cr⁺⁶ and does not represent an emission source of Cr⁺⁶ sufficient to create potential offsite exposure to Cr⁺⁶ at or exceeding the AAC.

Appendix A

Integrated 8-hour Cr⁺⁶ Concentrations

Air Sampling Results Cr⁺⁶
Site 174 - Dennis Collins Park
1st Street, Bayonne NJ

Date	Field Sample #	Lab ID	Location	Volume (Liters)	Analytical Results (ng/m ³)
03/30/16	927-0821	1600859-01	DC1	1,166	4.35
03/30/16	927-0819	1600859-02	DC2	1,162	4.35
03/30/16	927-0820	1600859-03	DC3	1,173	4.35
03/31/16	927-0822	1600887-01	DC1	1,380	3.70
03/31/16	927-0823	1600887-02	DC2	1,380	3.70
03/31/16	927-0827	1600887-03	DC3	1,563	3.25
04/05/16	927-0826	1600978-01	DC3	1,078	4.70
04/06/16	927-5998	1600978-02	DC2	1,087	4.70
04/08/16	927-0824	1600978-03	DC2	1,013	5.00
04/11/16	927-5996	1601068-01	DC3	1,214	4.20
04/12/16	927-5995	1601068-02	DC3	1,586	3.20
04/13/16	927-6002	1601068-03	DC2	1,466	3.50
04/14/16	927-6006	1601068-04	DC3	1,369	3.70
04/15/16	927-5993	1601068-05	DC2	1,122	4.55
04/18/17	927-5990	16011139-01	DC2	1,443	3.55
04/18/16	927-6000	16011139-02	DC3	1,331	3.85
04/20/16	927-6001	16011139-03	DC2	1,332	3.85
04/21/16	927-6005	16011139-04	DC2	1,482	3.45
04/22/16	927-6003	16011139-05	DC2	1,422	3.60
04/25/16	927-5991	1601224-01	DC2	1,549	3.30
04/26/16	927-6008	1601224-02	DC2	1,487	3.45
04/27/16	927-6009	1601224-02	DC2	1,496	3.40
04/28/16	927-5919	1601224-04	DC2	1,482	3.45
04/29/16	927-5901	1601224-05	DC2	1,384	37.00
05/02/16	927-5915	1601328-01	DC2	1,478	3.45
05/03/16	927-5914	1601328-02	DC2	1,173	4.35
05/04/16	927-5903	1601328-03	DC2	1,360	3.75
05/09/16	927-5918	1610385-01	DC2	1,388	3.70
05/10/16	927-5910	1610385-02	DC2	1,216	4.20
05/11/16	927-5925	1610385-03	DC2	1,532	3.35
05/12/16	927-5916	1610385-04	DC2	1,609	3.40
05/13/16	927-5906	1610385-05	DC3	1,181	4.35
05/16/16	9275900	1601455-01	DC2	1,476	3.45

Air Sampling Results Cr⁺⁶
Site 174 - Dennis Collins Park
1st Street, Bayonne NJ

Date	Field Sample #	Lab ID	Location	Volume (Liters)	Analytical Results (ng/m ³)
05/17/16	927-5917	1601455-02	DC2	1,273	4.00
05/18/16	927-5907	1601455-03	DC3	1,435	3.55
05/19/16	927-5904	1601455-04	DC3	1,372	3.75
05/20/16	927-5921	1601455-05	DC2	1,064	4.80
05/23/16	927-5912	1601521-01	DC2	1,418	3.60
05/24/16	927-5922	1601521-02	DC2	1,162	4.40
05/25/16	927-5886	1601521-03	DC2	1,434	3.55
05/26/16	927-5923	1601521-04	DC2	1,427	3.60
05/27/16	927-5882	1601521-05	DC3	904	5.50
05/31/16	927-5994	1601588-01	DC3	1,482	3.45
06/01/16	927-5884	1601588-02	DC3	1,494	3.45
06/02/16	927-5911	1601588-03	DC3	1,377	3.75
06/03/16	927-2887	1601588-04	DC2	1,476	3.50
06/06/16	927-5885	1601685-01	DC3	1,486	8.30
06/07/16	927-5891	1601685-02	DC3	1,464	3.50
06/08/16	927-5888	1601685-03	DC2	1,370	18.00
06/09/16	927-5890	1601685-04	DC2	1,377	3.75
06/10/16	927-5895	1601685-05	DC2	1,419	3.60
06/13/16	927-5913	1601760-01	DC3	1,470	3.50
06/14/16	927-5892	1601760-02	DC3	1,480	3.45
06/15/16	927-5896	1601760-03	DC3	1,178	4.35
06/16/16	927-5897	1601760-04	DC2	1,297	3.95
06/17/16	927-5893	1601760-05	DC2	1,232	4.15
07/05/16	927-5869	1602006-01	DC2	1,176	4.40
07/06/16	927-5862	1602006-02	DC2	1,225	4.20
07/07/16	927-5881	1602006-03	DC2	1,308	3.95
07/08/16	927-5860	1602006-04	DC2	1,031	5.00
07/11/16	927-5861	1602058-01	DC2	1,338	3.85
07/12/16	927-5866	1602058-02	DC2	1,348	3.85
07/13/16	927-5855	1602058-03	DC2	1,173	4.40
07/14/16	927-5873	1602058-04	DC2	1,263	4.10
07/15/16	927-5858	1602058-05	DC2	1,217	4.25
07/26/16	927-5868	1602236-01	DC2	1,216	4.25

Air Sampling Results Cr⁺⁶
Site 174 - Dennis Collins Park
1st Street, Bayonne NJ

Date	Field Sample #	Lab ID	Location	Volume (Liters)	Analytical Results (ng/m ³)
07/27/16	927-5856	1602236-02	DC2	1,263	4.10
07/28/16	927-5870	1602236-03	DC2	1,323	3.90
08/09/16	927-5871	1602382-01	DC2	904	7.05
08/11/16	927-5863	1602382-02	DC2	1,257	3.80
08/12/16	927-5899	1602382-03	DC3	1,267	4.05
08/15/16	927-5887	1062478-01	DC2	723	7.00
08/16/16	927-5867	1062478-02	DC2	1,213	4.25
08/17/16	927-5874	1062478-03	DC2	1,451	3.55
08/18/16	927-5857	1062478-04	DC2	1,088	4.75
08/19/16	927-5859	1062478-05	DC2	682	7.50
08/22/16	927-5840	1062537-01	DC2	1,084	4.80
08/23/16	927-5847	1062537-02	DC2	1,303	4.00
08/24/16	927-5846	1062537-03	DC2	1,404	3.70
08/25/16	927-5839	1062537-04	DC2	1,361	3.80
08/26/16	927-5844	1062537-05	DC2	500	10.50
08/29/16	927-5842	1062575-01	DC2	994	5.00
08/30/16	927-5845	1062575-02	DC2	1,301	4.00
08/31/16	927-5850	1062575-03	DC2	1,259	4.10

Results in nanograms per cubic meter
 Highlighted cells indicate a detectable level of Cr+6. All other values are below the laboratory method detection limit (MDL).
 Values below the MDL are shown in the table at one-half the MDL for data reporting purposes. This established practice is consistent with PPG's Site 114 reporting of non-detects by AECOM.

Appendix B

Integrated 8-hour Total Particulate Concentrations

Air Sampling Results Particulates

Site 174 - Dennis Collins Park

1st Street, Bayonne NJ

Date	Field Sample #	Lab ID	Location	Volume (Liters)	Analytical Results (ug/m ³)
03/30/16	927-0821	1600859-01	DC1	1,166	43.0
03/30/16	927-0819	1600859-02	DC2	1,162	43.0
03/30/16	927-0820	1600859-03	DC3	1,173	42.5
03/31/16	927-0822	1600887-01	DC1	1,380	36.0
03/31/16	927-0823	1600887-02	DC2	1,380	36.0
03/31/16	927-0827	1600887-03	DC3	1,563	32.0
04/05/16	927-0826	1600978-01	DC3	1,078	46.5
04/06/16	927-5998	1600978-02	DC2	1,087	46.0
04/08/16	927-0824	1600978-03	DC2	1,013	49.5
04/11/16	927-5996	1601068-01	DC3	1,214	41.0
04/12/16	927-5995	1601068-02	DC3	1,586	31.5
04/13/16	927-6002	1601068-03	DC2	1,466	34.0
04/14/16	927-6006	1601068-04	DC3	1,369	36.5
04/15/16	927-5993	1601068-05	DC2	1,122	44.5
04/18/17	927-5990	16011139-01	DC2	1,443	34.5
04/18/16	927-6000	16011139-02	DC3	1,331	37.5
04/20/16	927-6001	16011139-03	DC2	1,332	37.5
04/21/16	927-6005	16011139-04	DC2	1,482	100.0
04/22/16	927-6003	16011139-05	DC2	1,422	75.0
04/25/16	927-5991	1601224-01	DC2	1,549	32.5
04/26/16	927-6008	1601224-02	DC2	1,487	33.5
04/27/16	927-6009	1601224-02	DC2	1,496	33.5
04/28/16	927-5919	1601224-04	DC2	1,482	33.5
04/29/16	927-5901	1601224-05	DC2	1,384	36.0
05/02/16	927-5915	1601328-01	DC2	1,478	34.0
05/03/16	927-5914	1601328-02	DC2	1,173	42.5
05/04/16	927-5903	1601328-03	DC2	1,360	37.0
05/09/16	927-5918	1610385-01	DC2	1,388	36.0
05/10/16	927-5910	1610385-02	DC2	1,216	41.0
05/11/16	927-5925	1610385-03	DC2	1,532	32.5
05/12/16	927-5916	1610385-04	DC2	1,609	33.0
05/13/16	927-5906	1610385-05	DC3	1,181	42.5
05/16/16	9275900	1601455-01	DC2	1,476	34.0

Air Sampling Results Particulates

Site 174 - Dennis Collins Park

1st Street, Bayonne NJ

Date	Field Sample #	Lab ID	Location	Volume (Liters)	Analytical Results (ug/m ³)
05/17/16	927-5917	1601455-02	DC2	1,273	39.5
05/18/16	927-5907	1601455-03	DC3	1,435	35.0
05/19/16	927-5904	1601455-04	DC3	1,372	36.5
05/20/16	927-5921	1601455-05	DC2	1,064	47.0
05/23/16	927-5912	1601521-01	DC2	1,418	35.5
05/24/16	927-5922	1601521-02	DC2	1,162	43.0
05/25/16	927-5886	1601521-03	DC2	1,434	35.0
05/26/16	927-5923	1601521-04	DC2	1,427	35.0
05/27/16	927-5882	1601521-05	DC3	904	55.0
05/31/16	927-5994	1601588-01	DC3	1,482	33.5
06/01/16	927-5884	1601588-02	DC3	1,494	75.0
06/02/16	927-5911	1601588-03	DC3	1,377	36.5
06/03/16	927-2887	1601588-04	DC2	1,476	34.0
06/06/16	927-5885	1601685-01	DC3	1,486	33.5
06/07/16	927-5891	1601685-02	DC3	1,464	34.0
06/08/16	927-5888	1601685-03	DC2	1,370	36.5
06/09/16	927-5890	1601685-04	DC2	1,377	36.5
06/10/16	927-5895	1601685-05	DC2	1,419	35.0
06/13/16	927-5913	1601760-01	DC3	1,470	34.0
06/14/16	927-5892	1601760-02	DC3	1,480	34.0
06/15/16	927-5896	1601760-03	DC3	1,178	42.5
06/16/16	927-5897	1601760-04	DC2	1,297	38.5
06/17/16	927-5893	1601760-05	DC2	1,232	40.5
07/05/16	927-5869	1602006-01	DC2	1,176	42.5
07/06/16	927-5862	1602006-02	DC2	1,225	41.0
07/07/16	927-5881	1602006-03	DC2	1,308	38.0
07/08/16	927-5860	1602006-04	DC2	1,031	48.5
07/11/16	927-5861	1602058-01	DC2	1,338	37.5
07/12/16	927-5866	1602058-02	DC2	1,348	37.0
07/13/16	927-5855	1602058-03	DC2	1,173	42.5
07/14/16	927-5873	1602058-04	DC2	1,263	39.5
07/15/16	927-5858	1602058-05	DC2	1,217	41.0
07/26/16	927-5868	1602236-01	DC2	1,216	41.0

Air Sampling Results Particulates
Site 174 - Dennis Collins Park
1st Street, Bayonne NJ

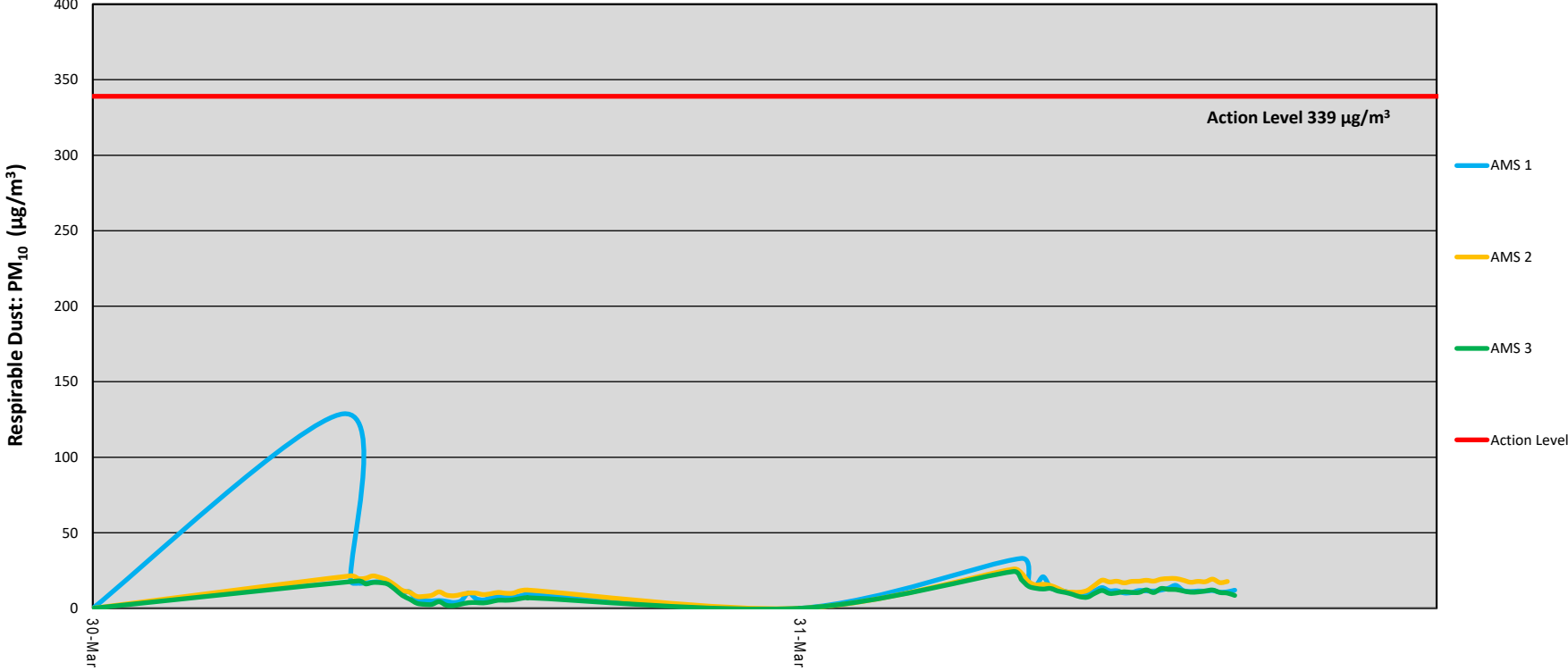
Date	Field Sample #	Lab ID	Location	Volume (Liters)	Analytical Results (ug/m ³)
07/27/16	927-5856	1602236-02	DC2	1,263	39.5
07/28/16	927-5870	1602236-03	DC2	1,323	38.0
08/09/16	927-5871	1602382-01	DC2	904	55.0
08/11/16	927-5863	1602382-02	DC2	1,257	37.0
08/12/16	927-5899	1602382-03	DC3	1,267	39.5
08/15/16	927-5887	1062478-01	DC2	723	70.0
08/16/16	927-5867	1062478-02	DC2	1,213	41.0
08/17/16	927-5874	1062478-03	DC2	1,451	34.5
08/18/16	927-5857	1062478-04	DC2	1,088	46.0
08/19/16	927-5859	1062478-05	DC2	682	75.0
08/22/16	927-5840	1062537-01	DC2	1,084	46.0
08/23/16	927-5847	1062537-02	DC2	1,303	38.5
08/24/16	927-5846	1062537-03	DC2	1,404	35.5
08/25/16	927-5839	1062537-04	DC2	1,361	36.5
08/26/16	927-5844	1062537-05	DC2	500	100.0
08/29/16	927-5842	1062575-01	DC2	994	50.0
08/30/16	927-5845	1062575-02	DC2	1,301	38.5
08/31/16	927-5850	1062575-03	DC2	1,259	210.0

Results in micrograms per cubic meter
Highlighted cells indicate a detectable level of Cr+6. All other values are below the laboratory method detection limit (MDL).
Values below the MDL are shown in the table at one-half the MDL for data reporting purposes. This established practice is consistent with PPG's Site 114 reporting of non-detects by AECOM.

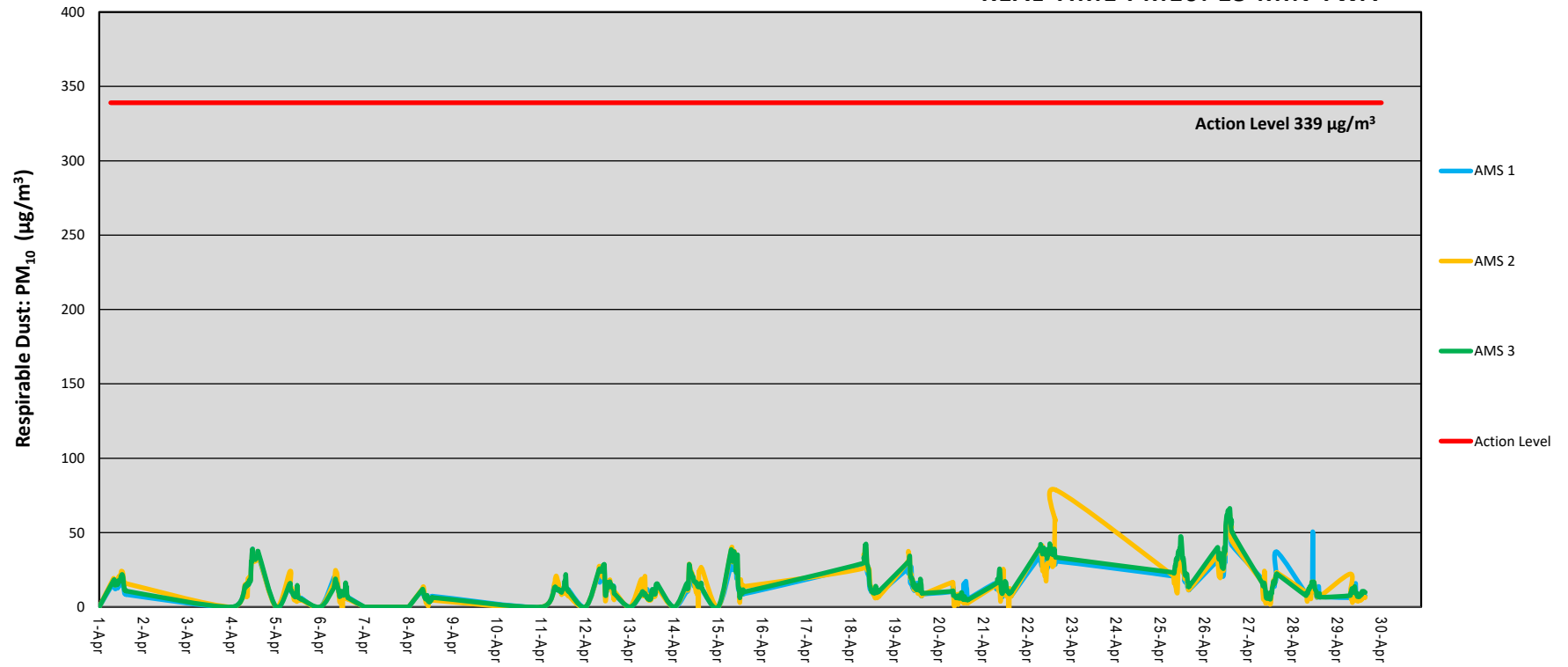
Appendix C

Real-time PM¹⁰ Readings

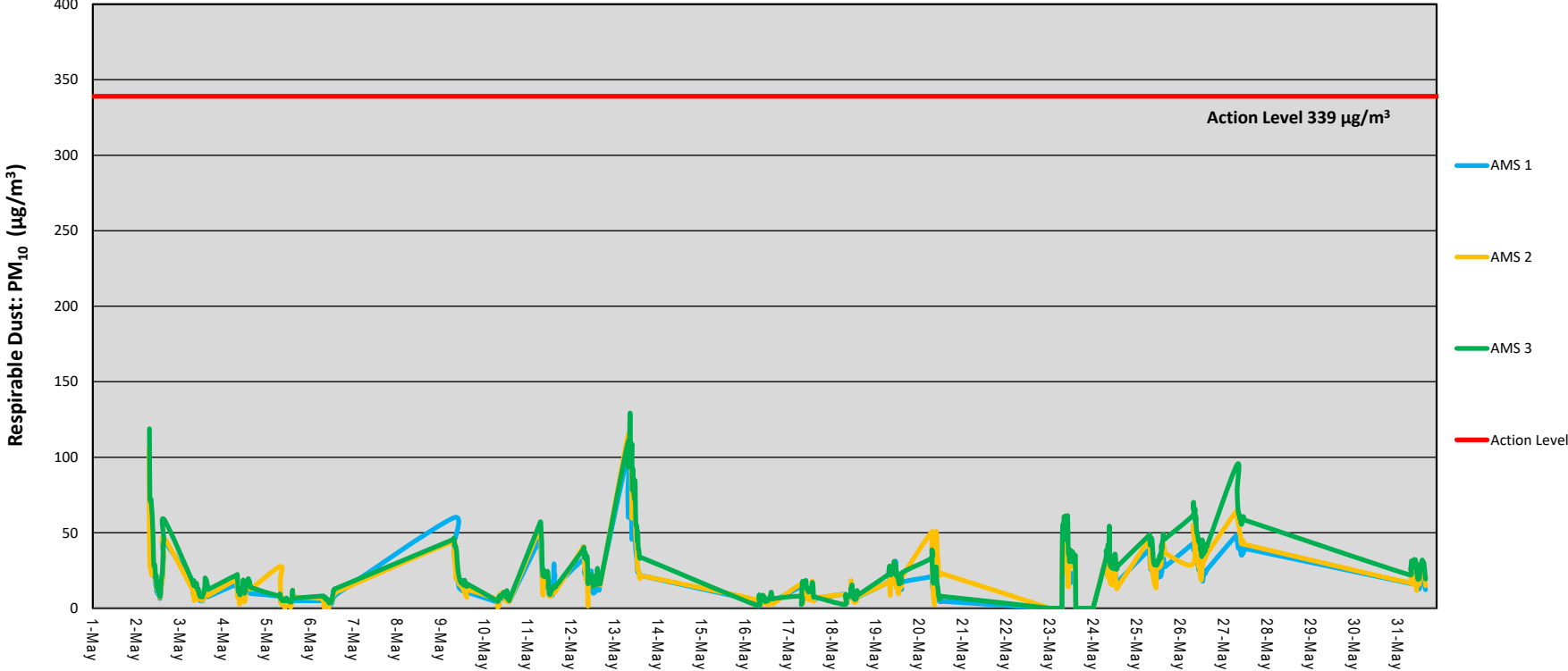
REAL TIME PM10: 15 MIN TWA



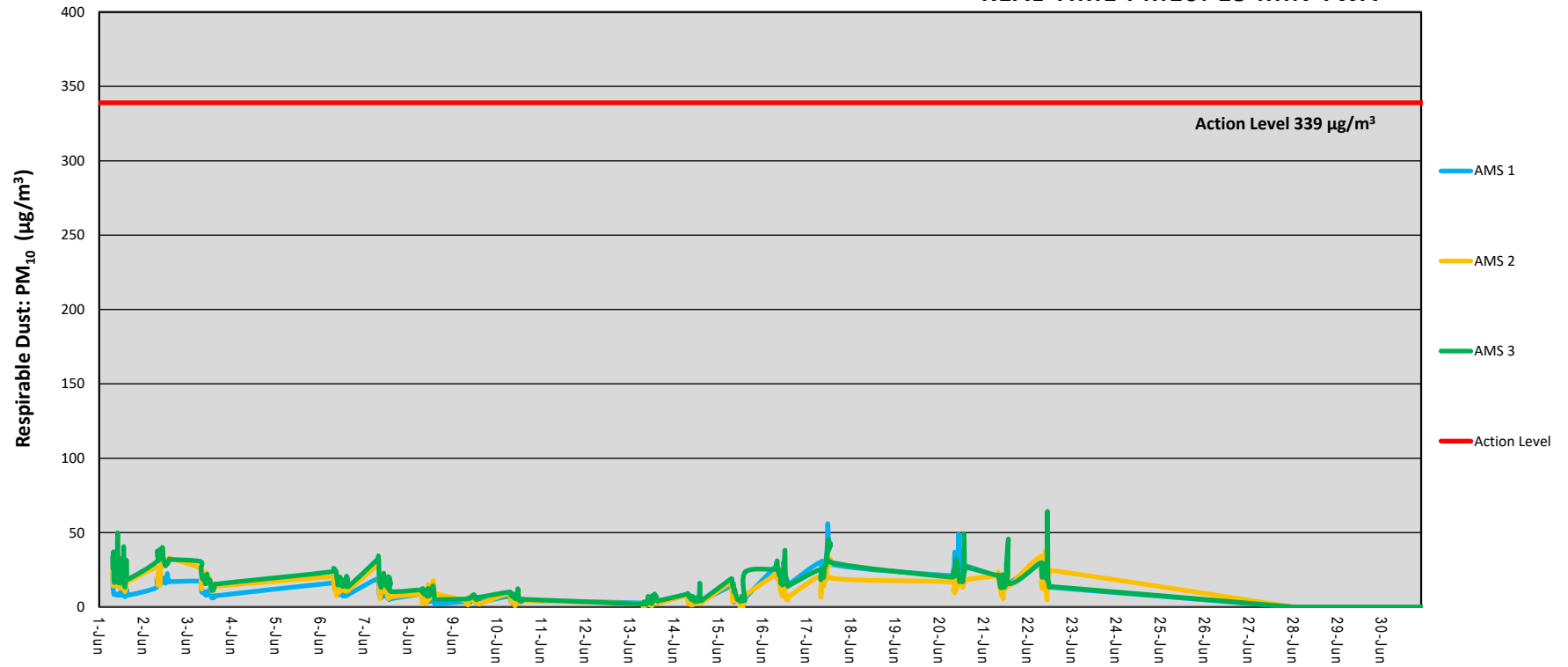
REAL TIME PM10: 15 MIN TWA



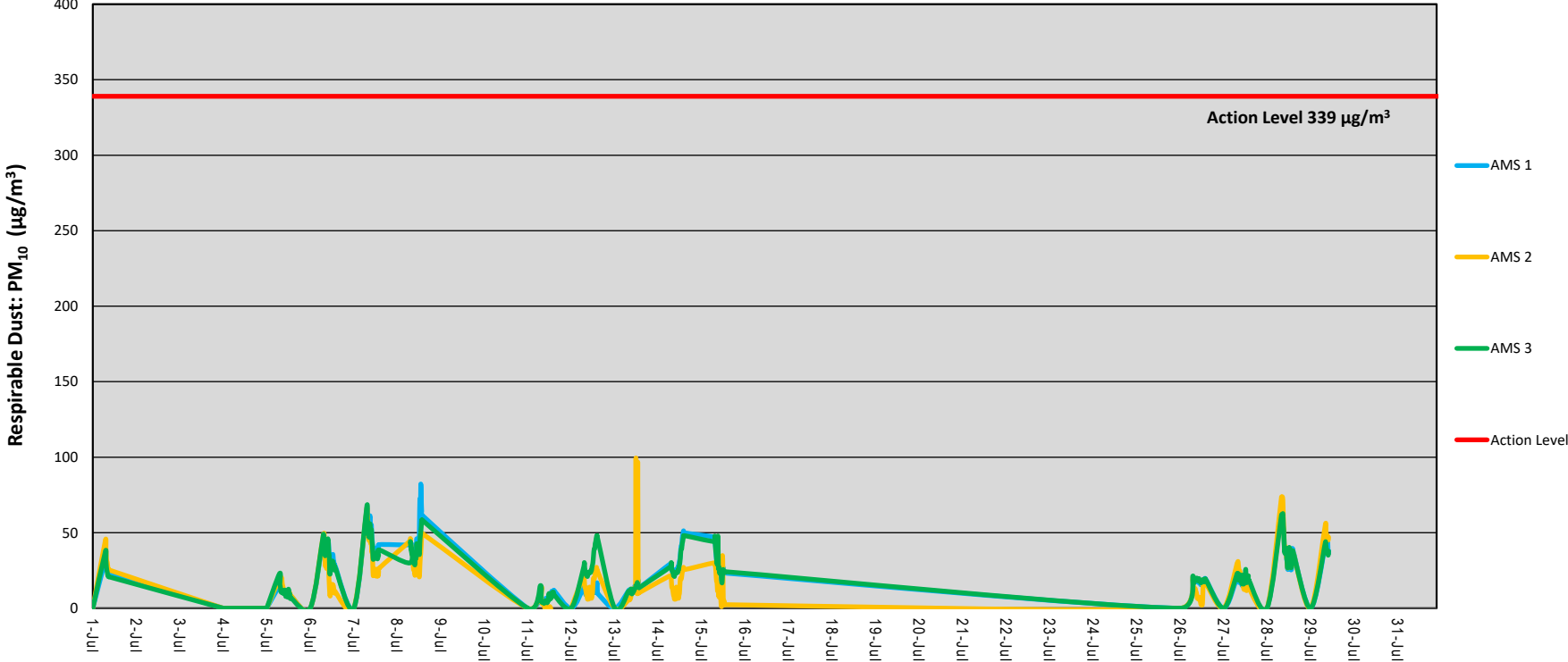
REAL TIME PM10: 15 MIN TWA



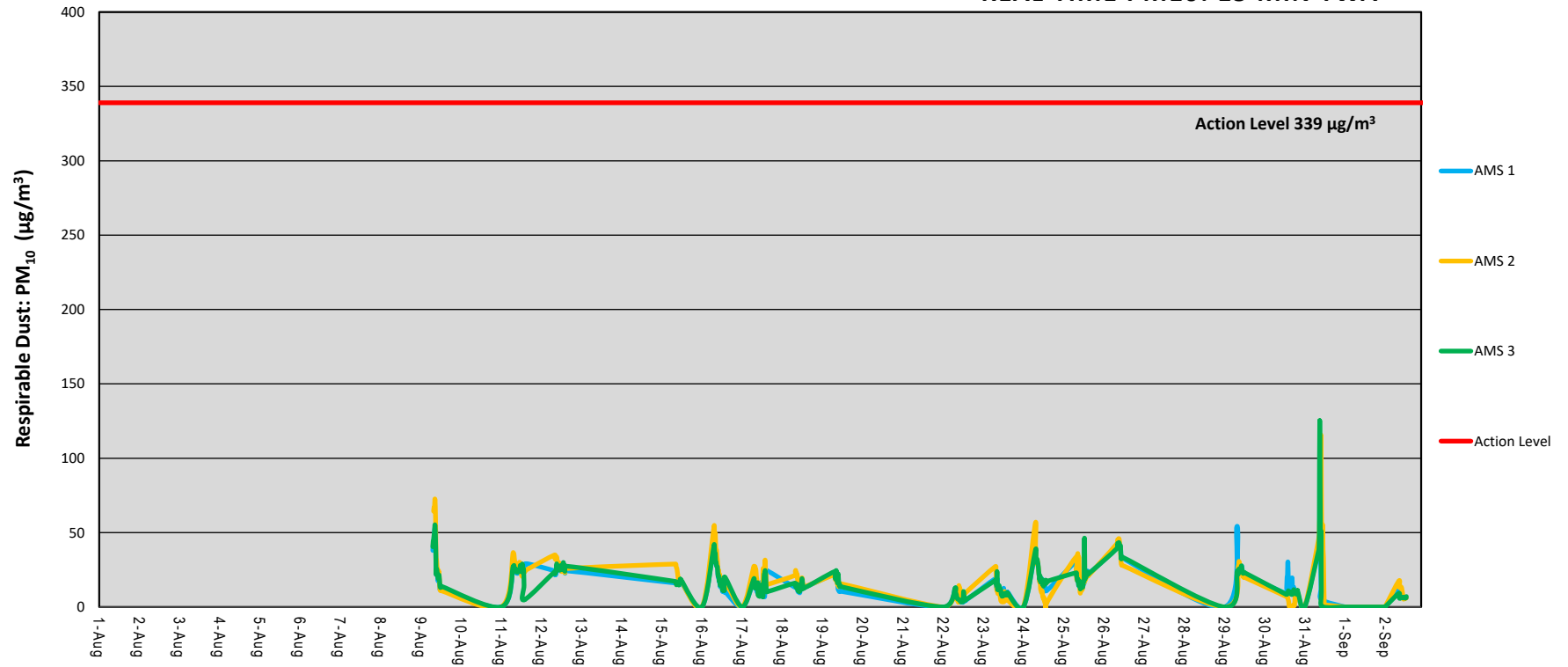
REAL TIME PM10: 15 MIN TWA



REAL TIME PM10: 15 MIN TWA



REAL TIME PM10: 15 MIN TWA



Appendix D

Hand-held Readings

Date	PM10 ($\mu\text{g}/\text{m}^3$)
3/30/16	N/A
3/31/16	N/A
4/4/16	25
4/5/16	26
4/6/16	26
4/7/16	N/A
4/8/16	15
4/11/16	14
4/12/16	26
4/13/16	25
4/14/16	26
4/15/16	33
4/18/16	32
4/19/16	39
4/20/16	13
4/21/16	24
4/22/16	50
4/25/16	28
4/26/16	43
4/27/16	12
4/28/16	14
4/29/16	14
5/2/16	51
5/3/16	14
5/4/16	16
5/5/16	10
5/6/16	7
5/9/16	51
5/10/16	14
5/11/16	16
5/12/16	10
5/13/16	7
5/16/16	12
5/17/16	16
5/18/16	13
5/19/16	23
5/20/16	20
5/23/16	49
5/24/16	31
5/25/16	38
5/26/16	44
5/27/16	57
5/30/16	N/A
5/31/16	35
6/1/16	21

Date	PM10 ($\mu\text{g}/\text{m}^3$)
6/2/16	33
6/3/16	27
6/6/16	23
6/7/16	28
6/8/16	14
6/9/16	13
6/10/16	11
6/13/16	10
6/14/16	12
6/15/16	14
6/16/16	27
6/17/16	41
6/20/16	34
6/21/16	30
6/22/16	23
6/23/16	N/A
6/24/16	N/A
6/27/16	N/A
6/28/16	N/A
6/29/16	N/A
6/30/16	N/A
7/1/16	31
7/4/16	N/A
7/5/16	14
7/6/16	50
7/7/16	59
7/8/16	42
7/11/16	16
7/12/16	23
7/13/16	24
7/14/16	27
7/15/16	34
7/25/16	N/A
7/26/16	32
7/27/16	23
7/28/16	21
7/29/16	27
8/8/16	N/A
8/9/16	33
8/10/16	N/A
8/11/16	24
8/12/16	29
8/15/16	33
8/16/16	41
8/17/16	32

Date	PM10 ($\mu\text{g}/\text{m}^3$)
8/18/16	28
8/19/16	27
8/22/16	32
8/23/16	29
8/24/16	36
8/25/16	31
8/26/16	42
8/29/16	32
8/30/16	41
8/31/16	42
9/1/16	N/A
9/2/16	22

Note: Days displaying a value of N/A represent days where handheld readings were not collected due to site closure or equipment malfunctions.

Appendix E

Elevated Concentration Summaries

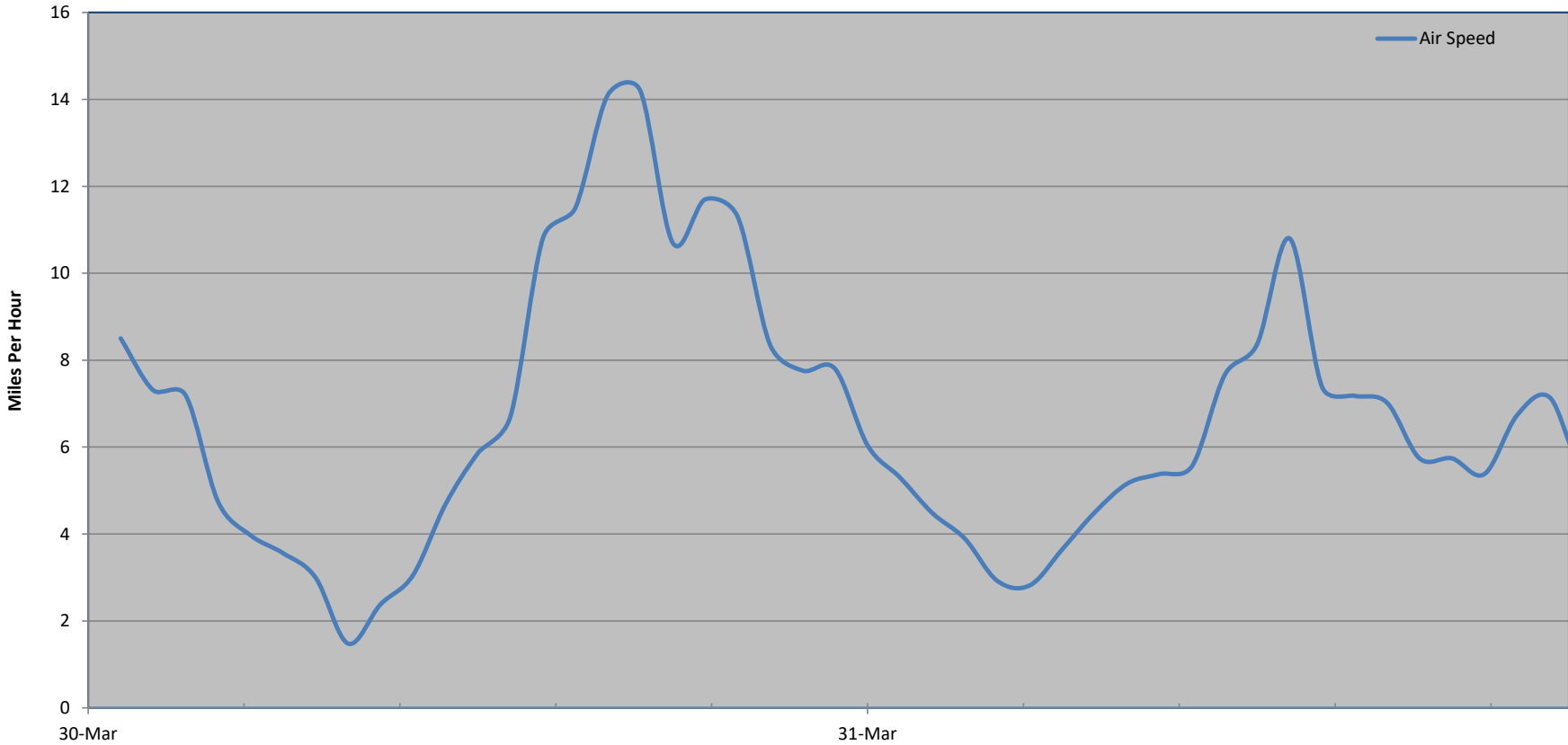
Table A- 4: Elevated Concentration Summary

Parameter	Date	Time	Location	Wind Conditions	Elevated Concentration	Explanation
NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA
<p>PM₁₀ – Respirable Particulate Matter measured in micrograms per cubic meter (µg/m³) ng/m³ – nanograms per cubic meter µg/m³ – micrograms per cubic meter NA – Not Applicable ND –No Data</p>						

Appendix F

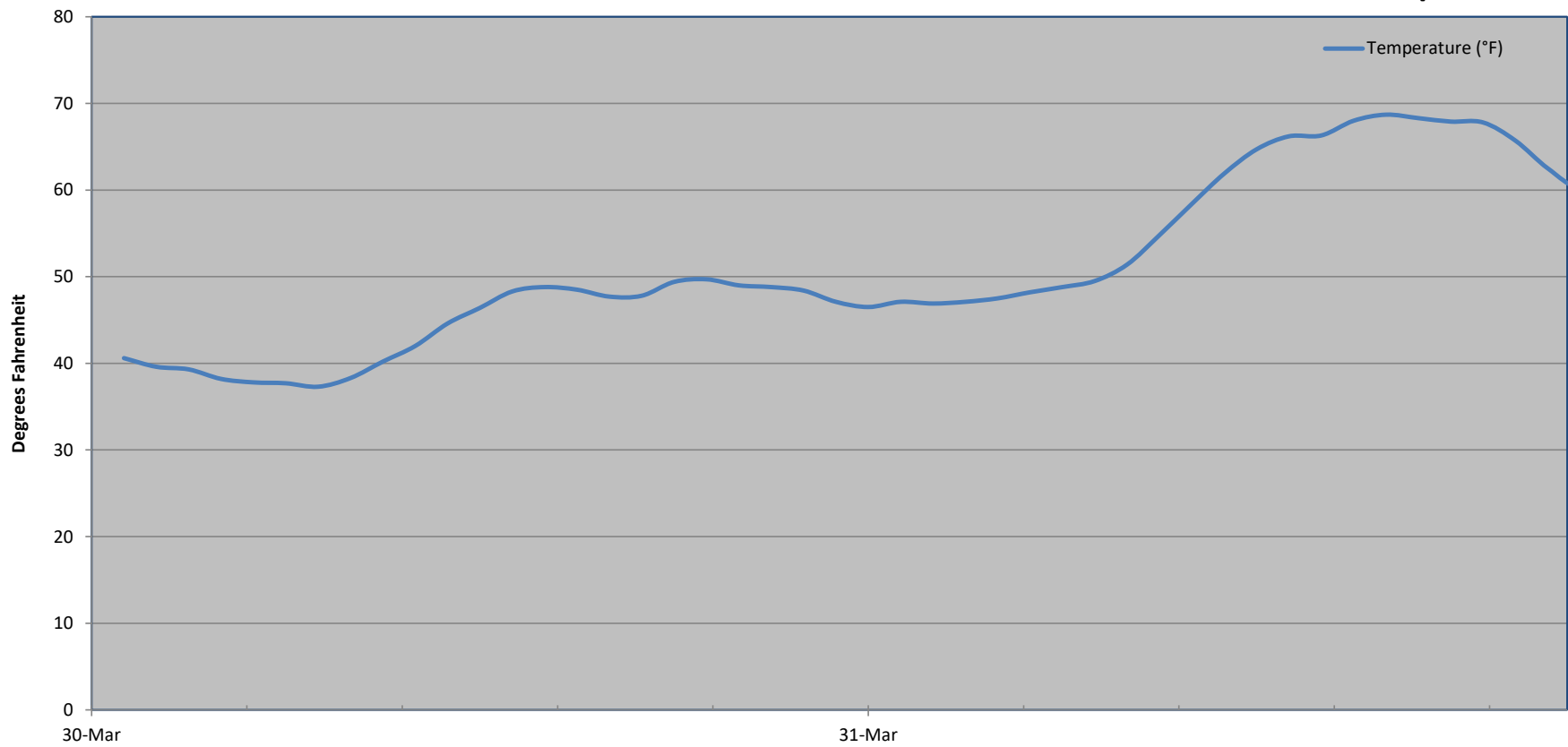
Meteorological Data

Average Wind Speed



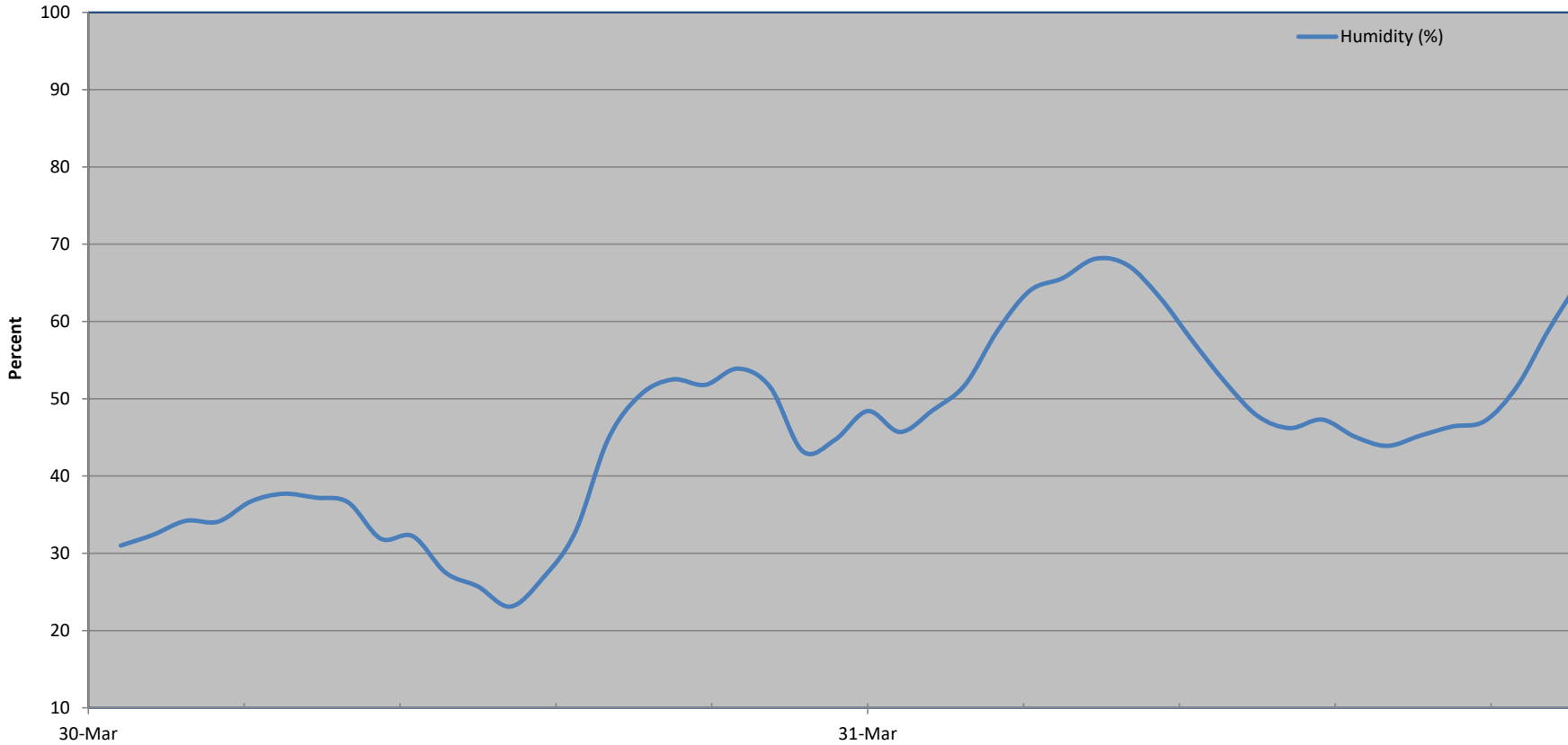
March 2016

Temperature



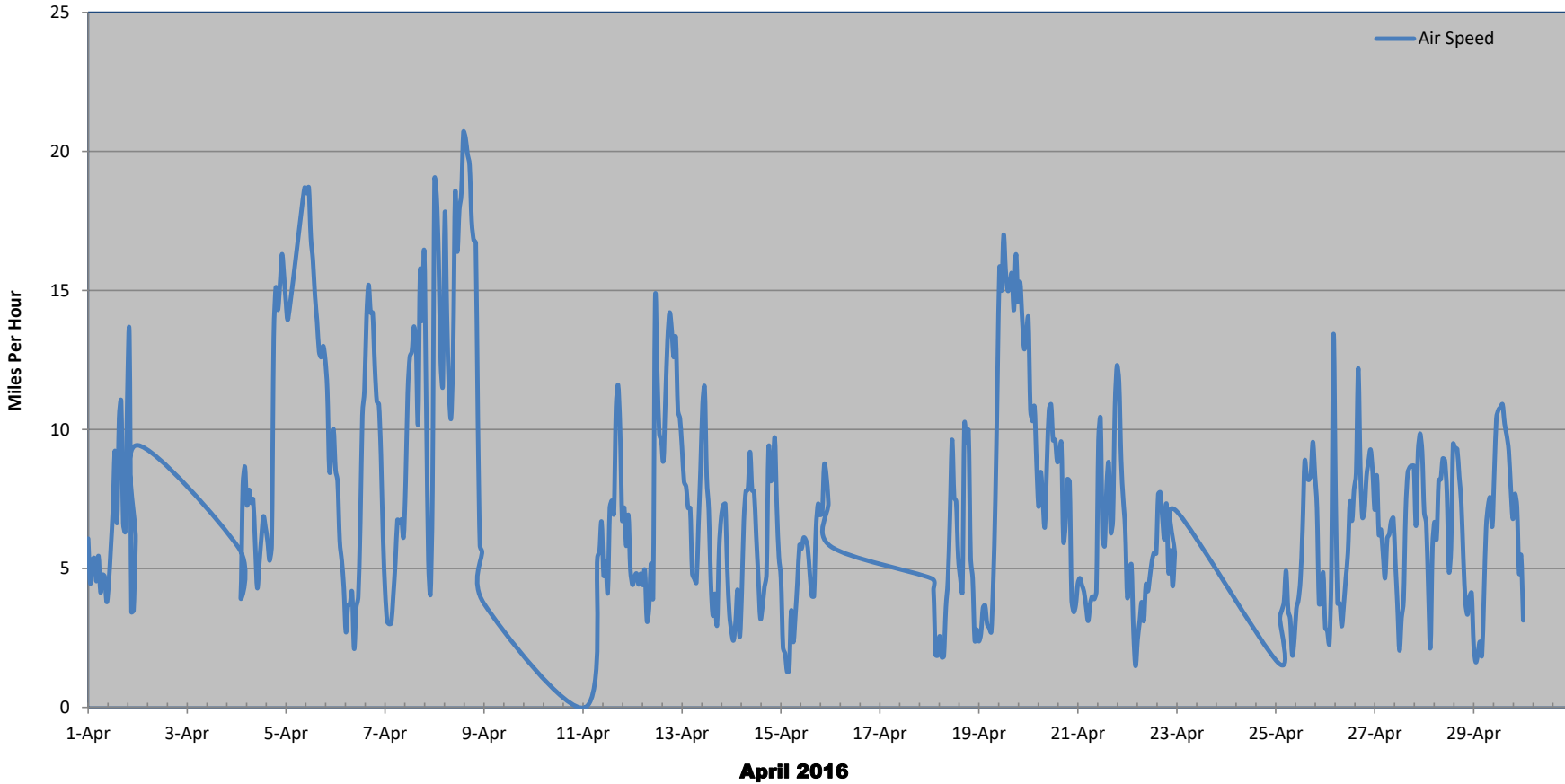
March 2016

Relative Humidity

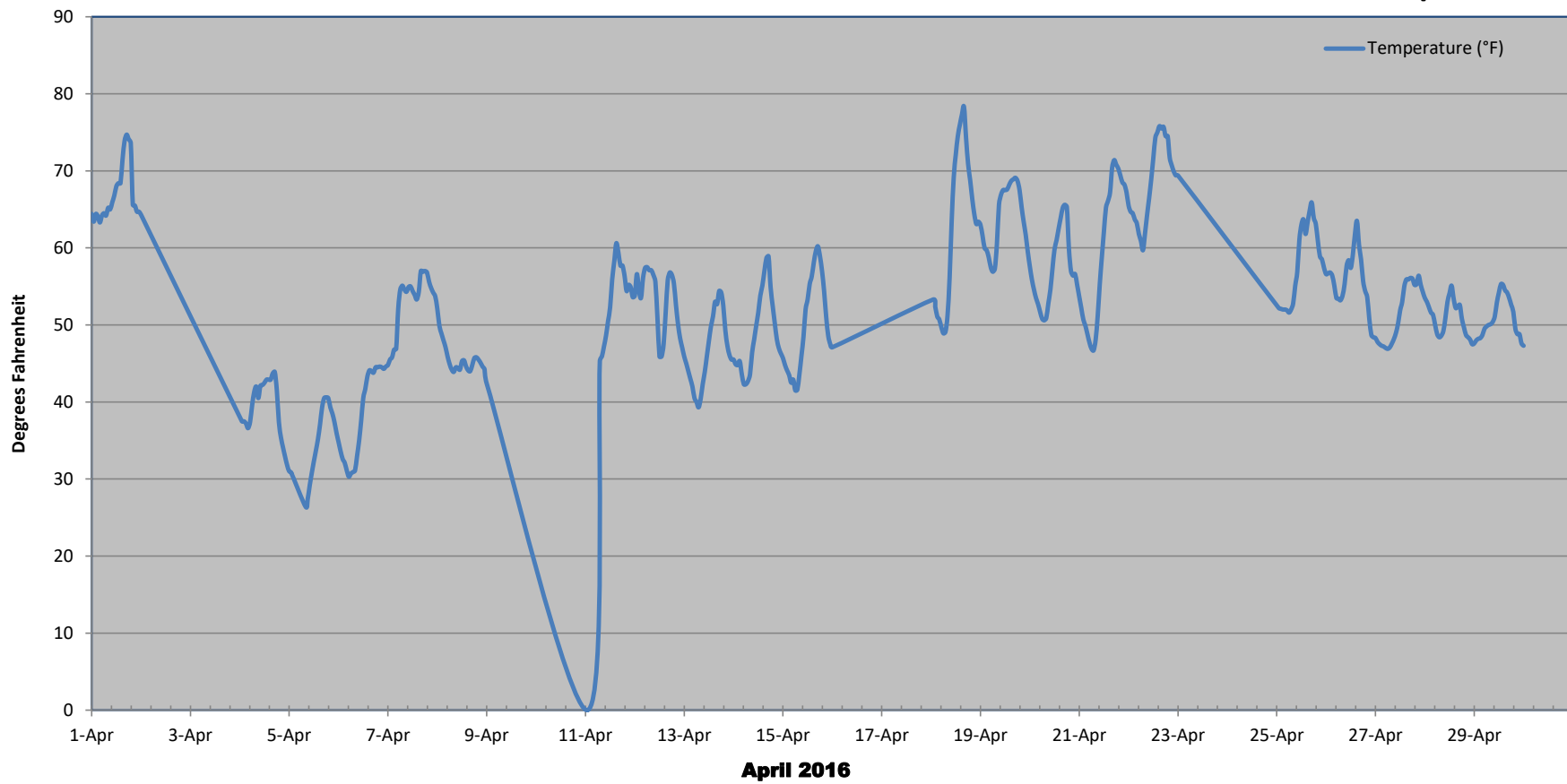


March 2016

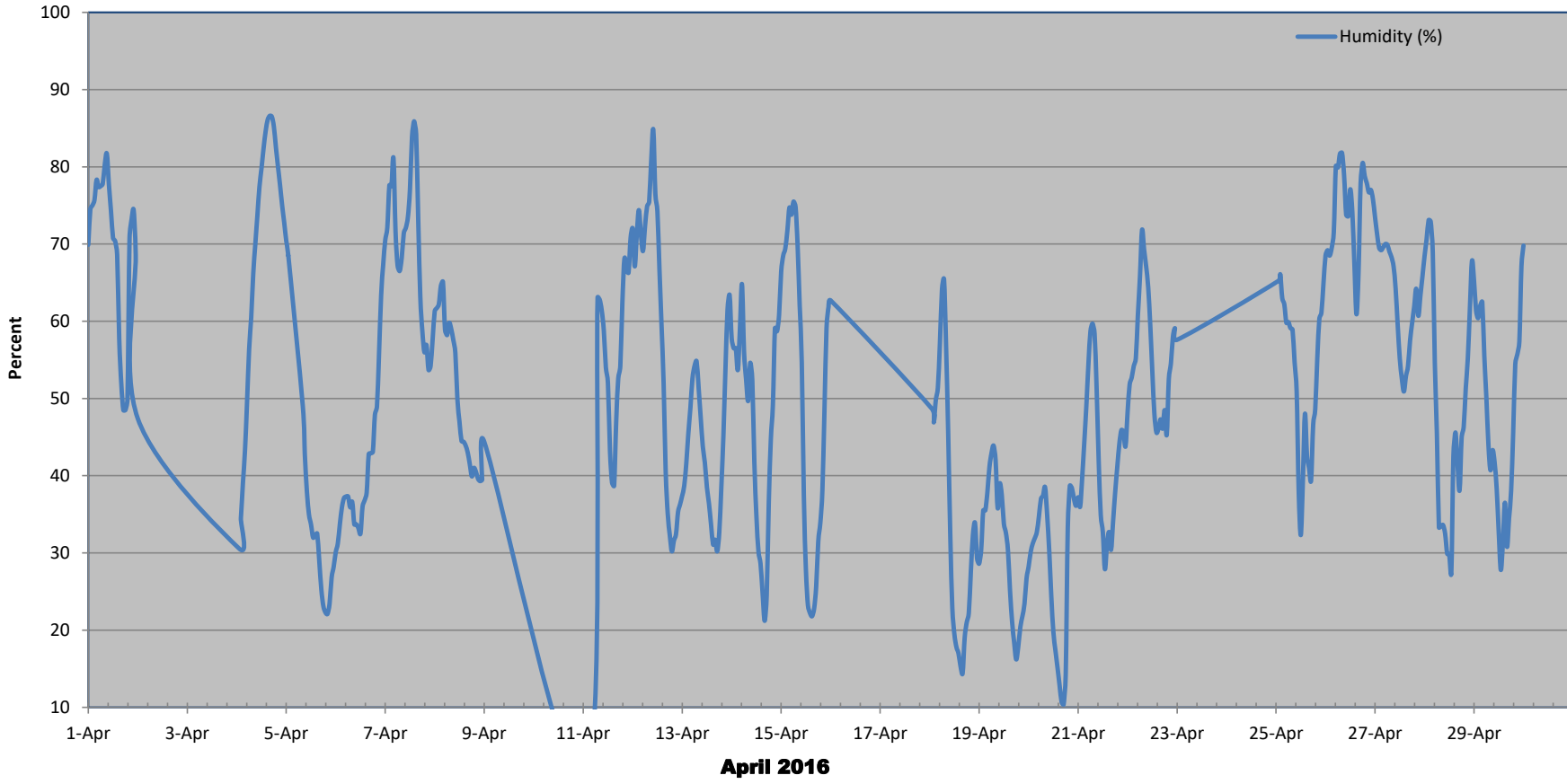
Average Wind Speed



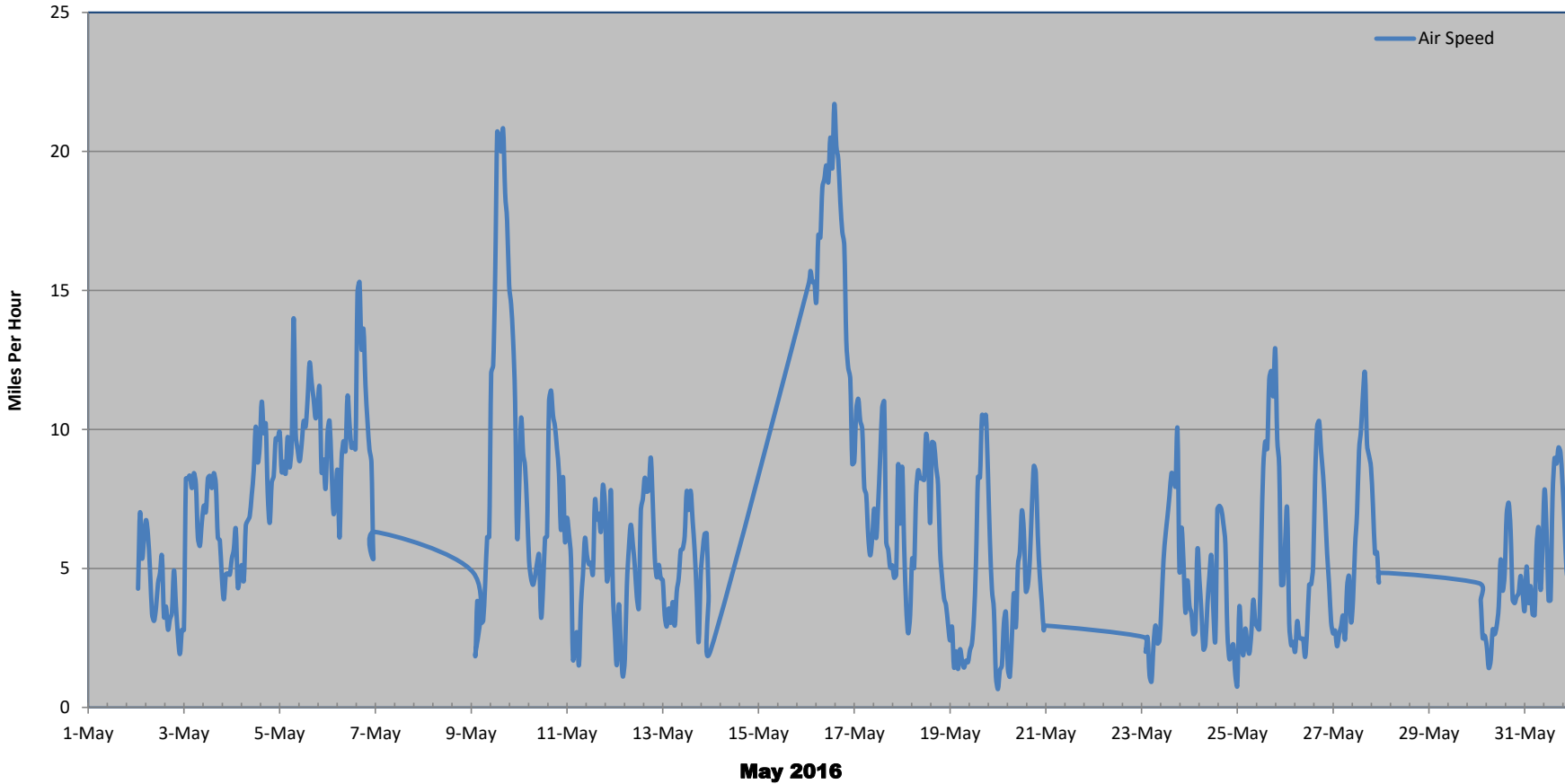
Temperature



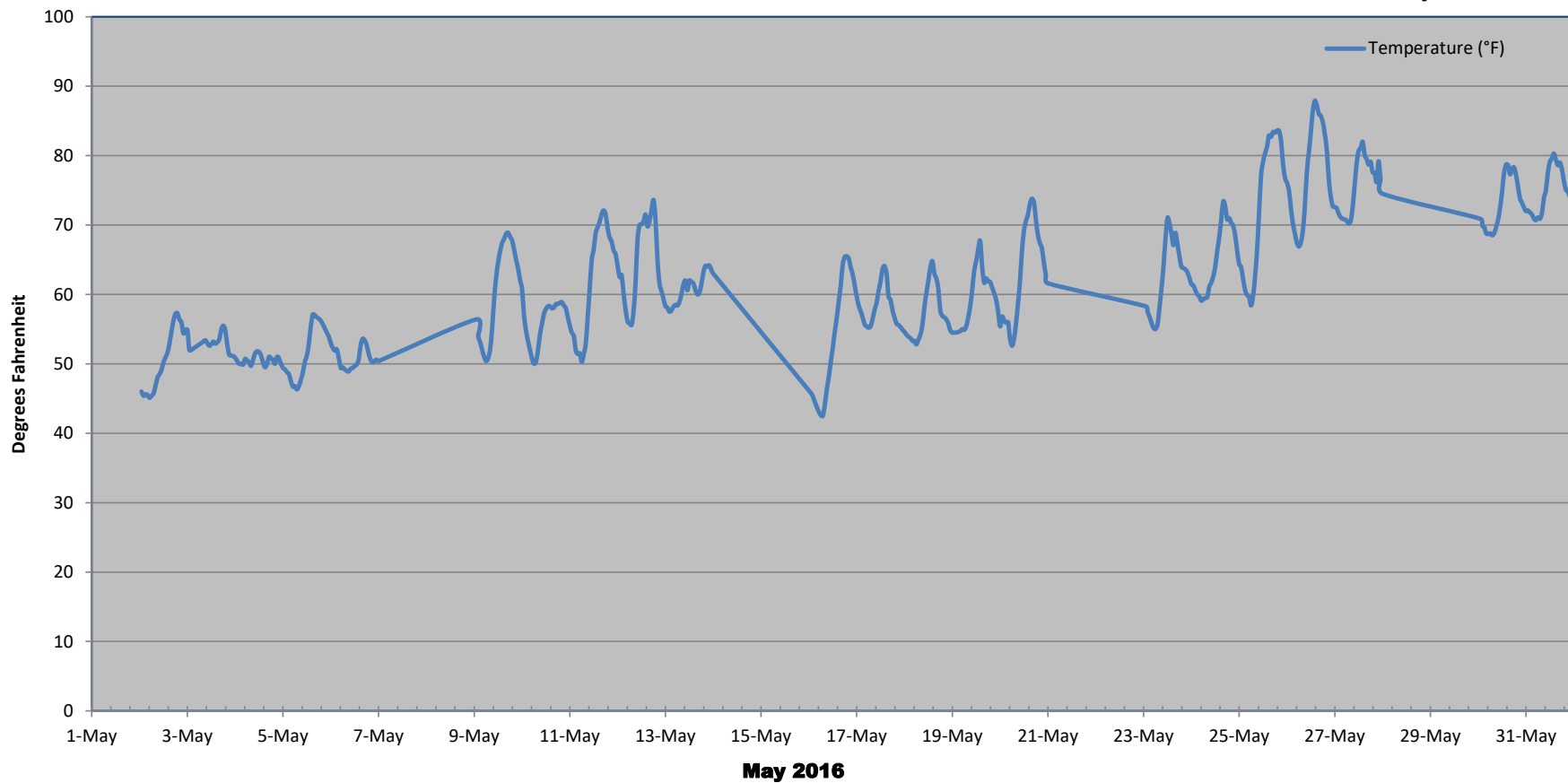
Relative Humidity



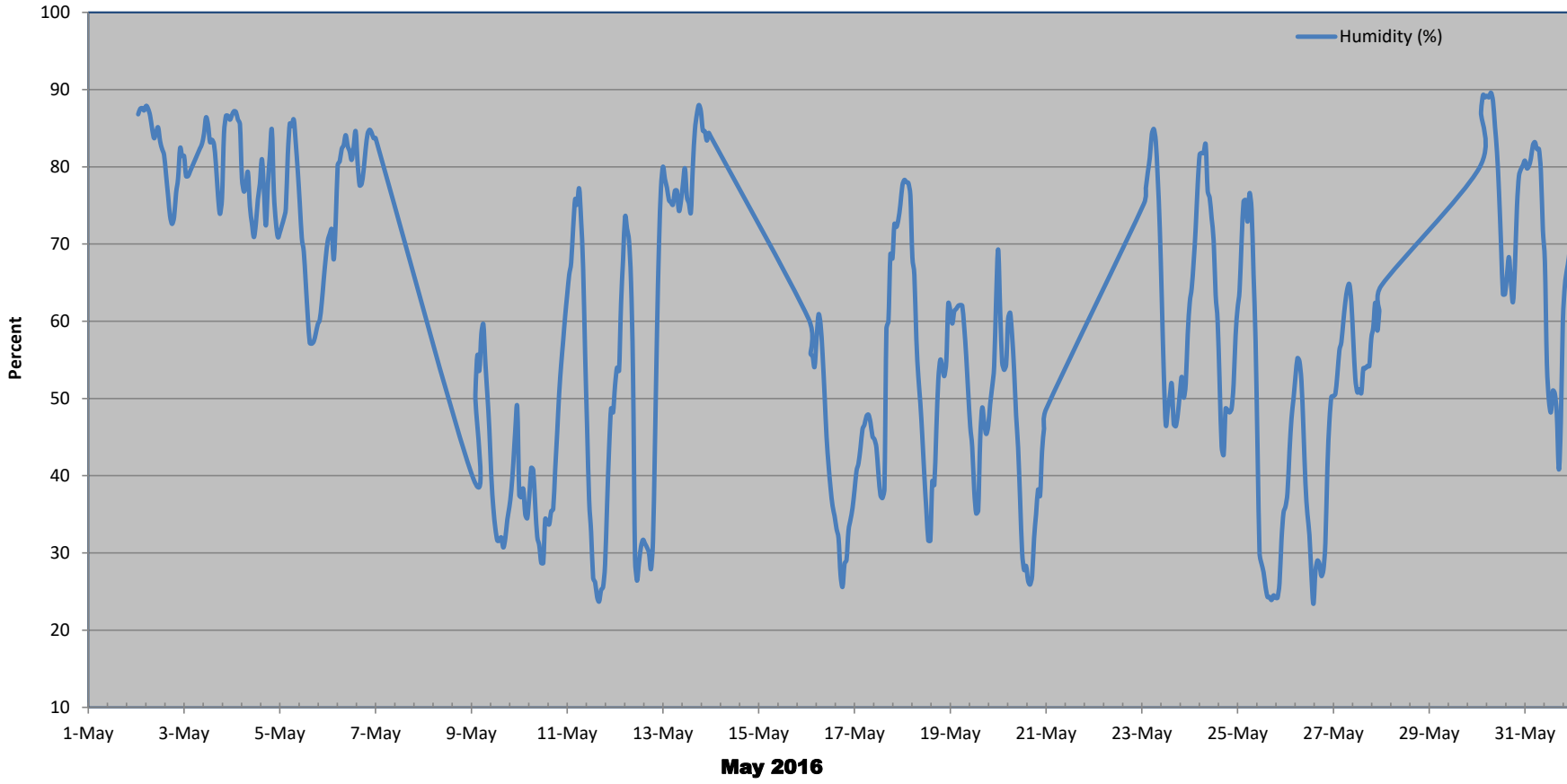
Average Wind Speed



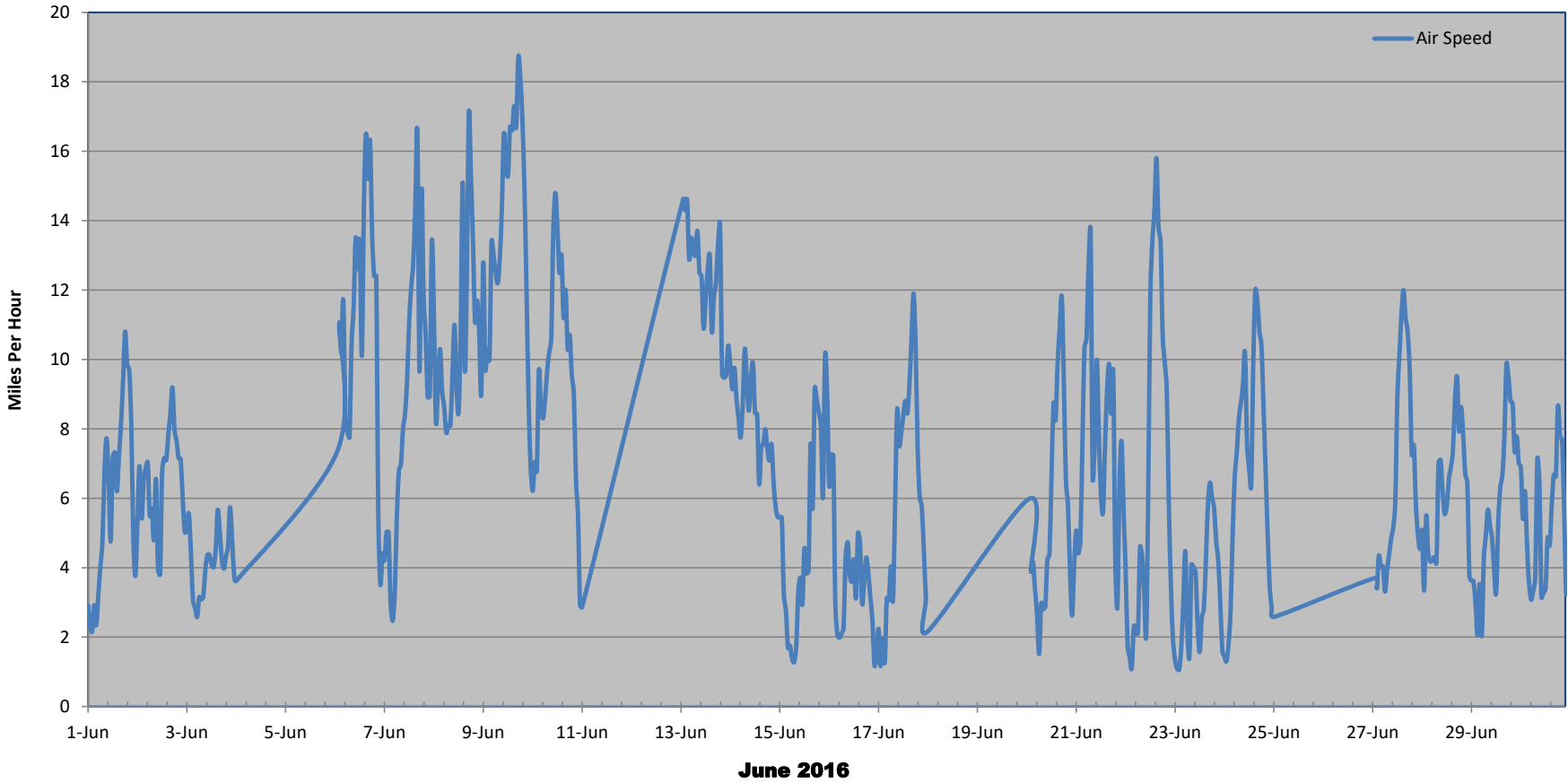
Temperature



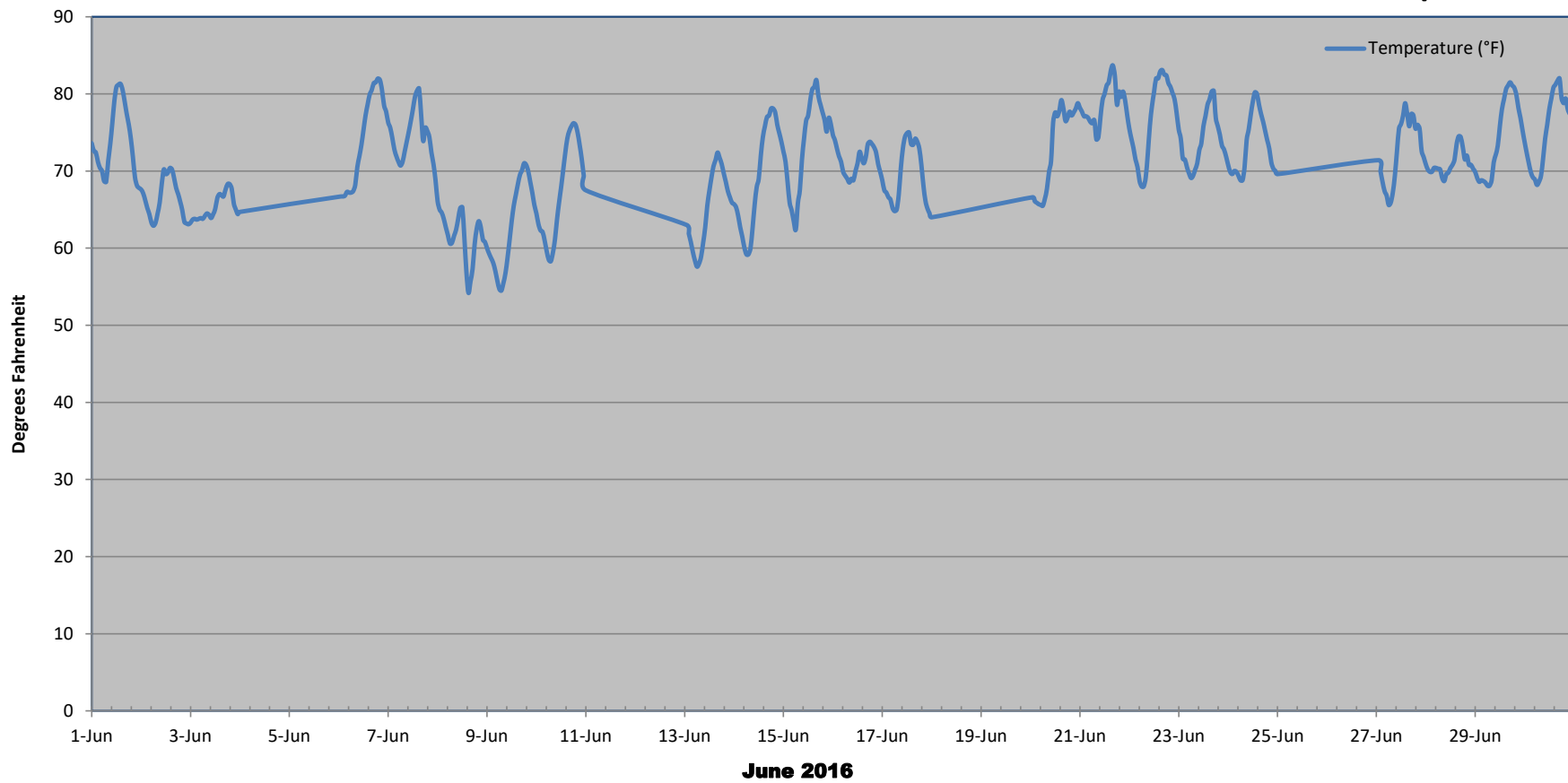
Relative Humidity



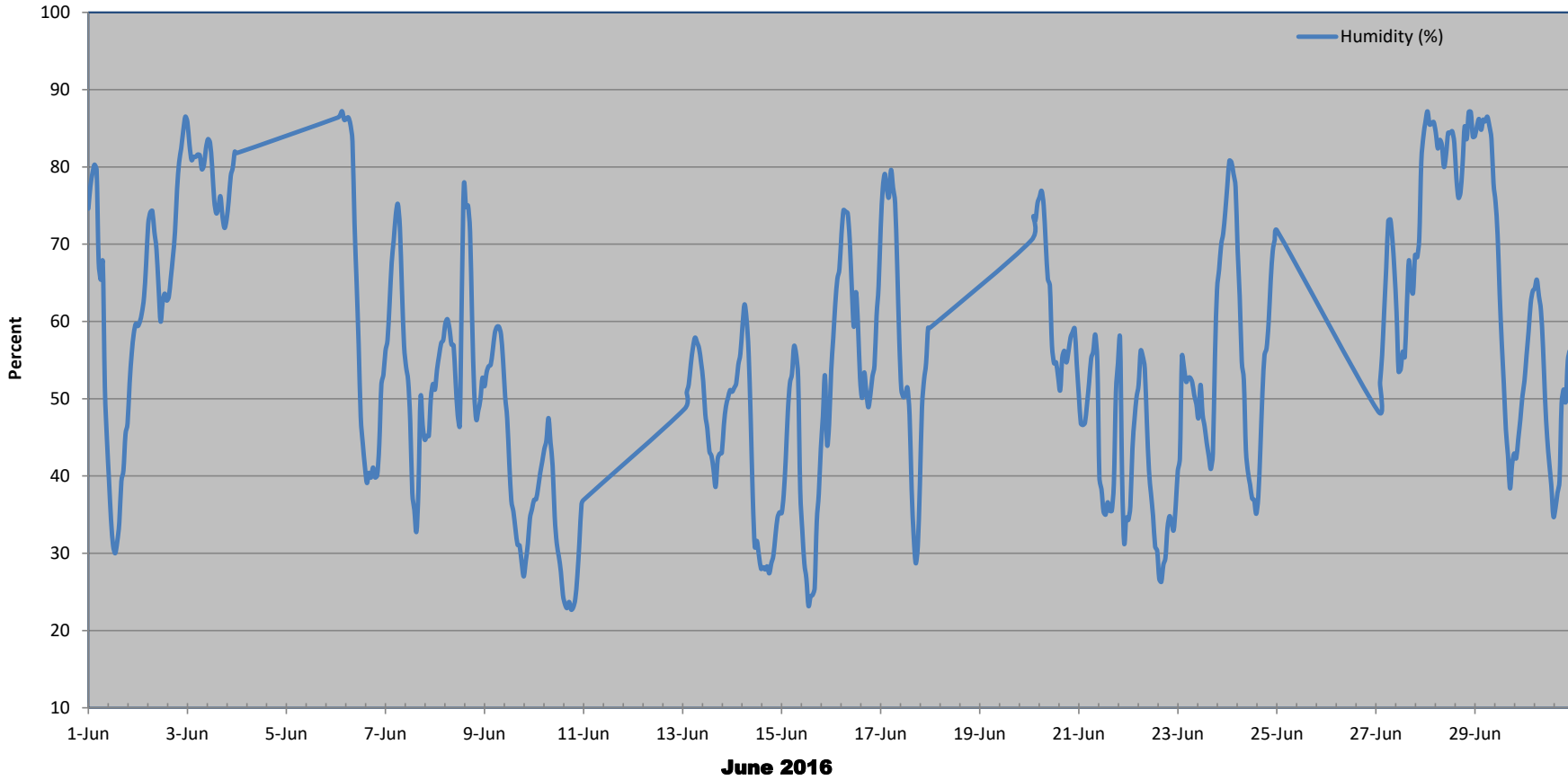
Average Wind Speed



Temperature

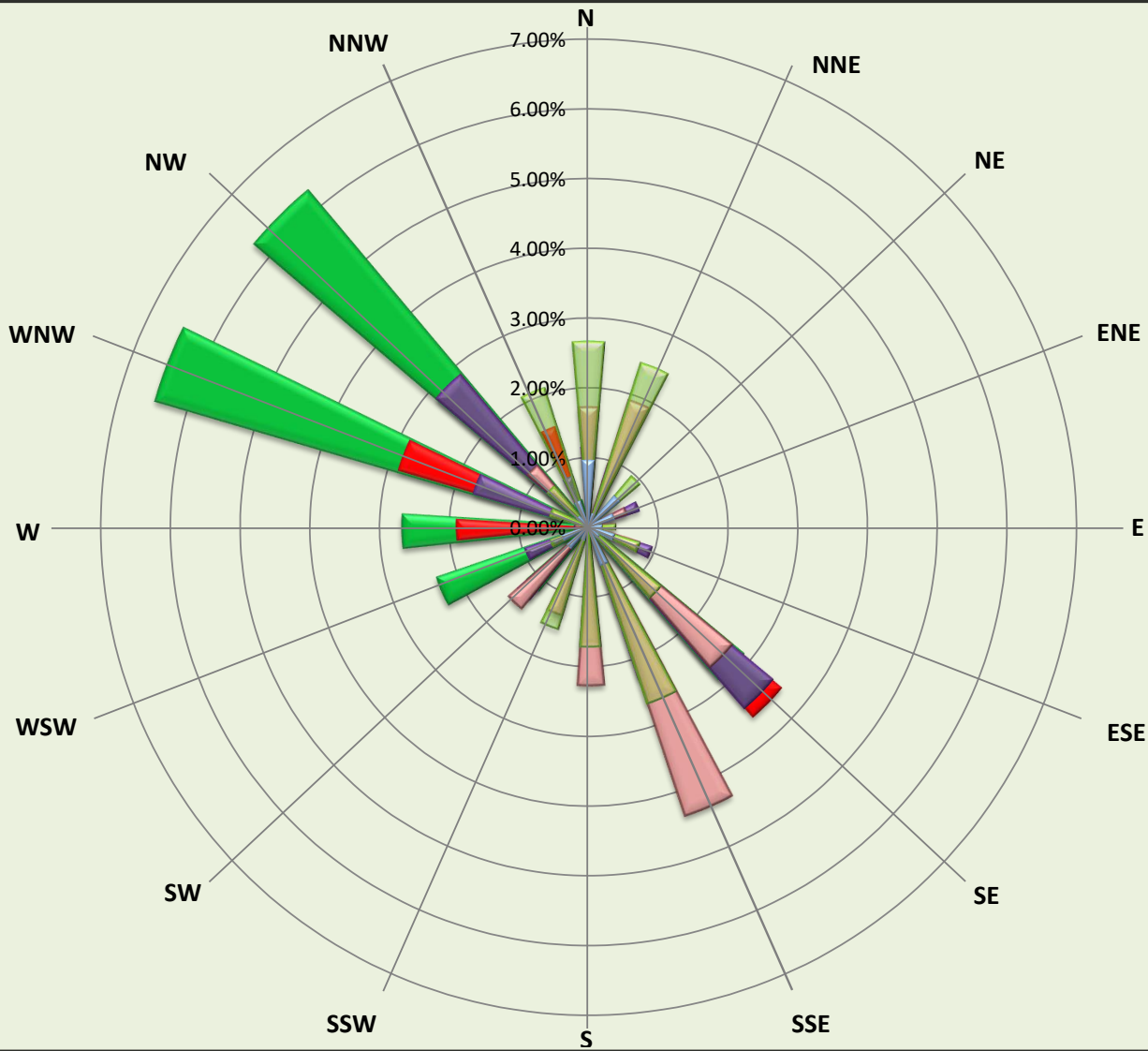


Relative Humidity

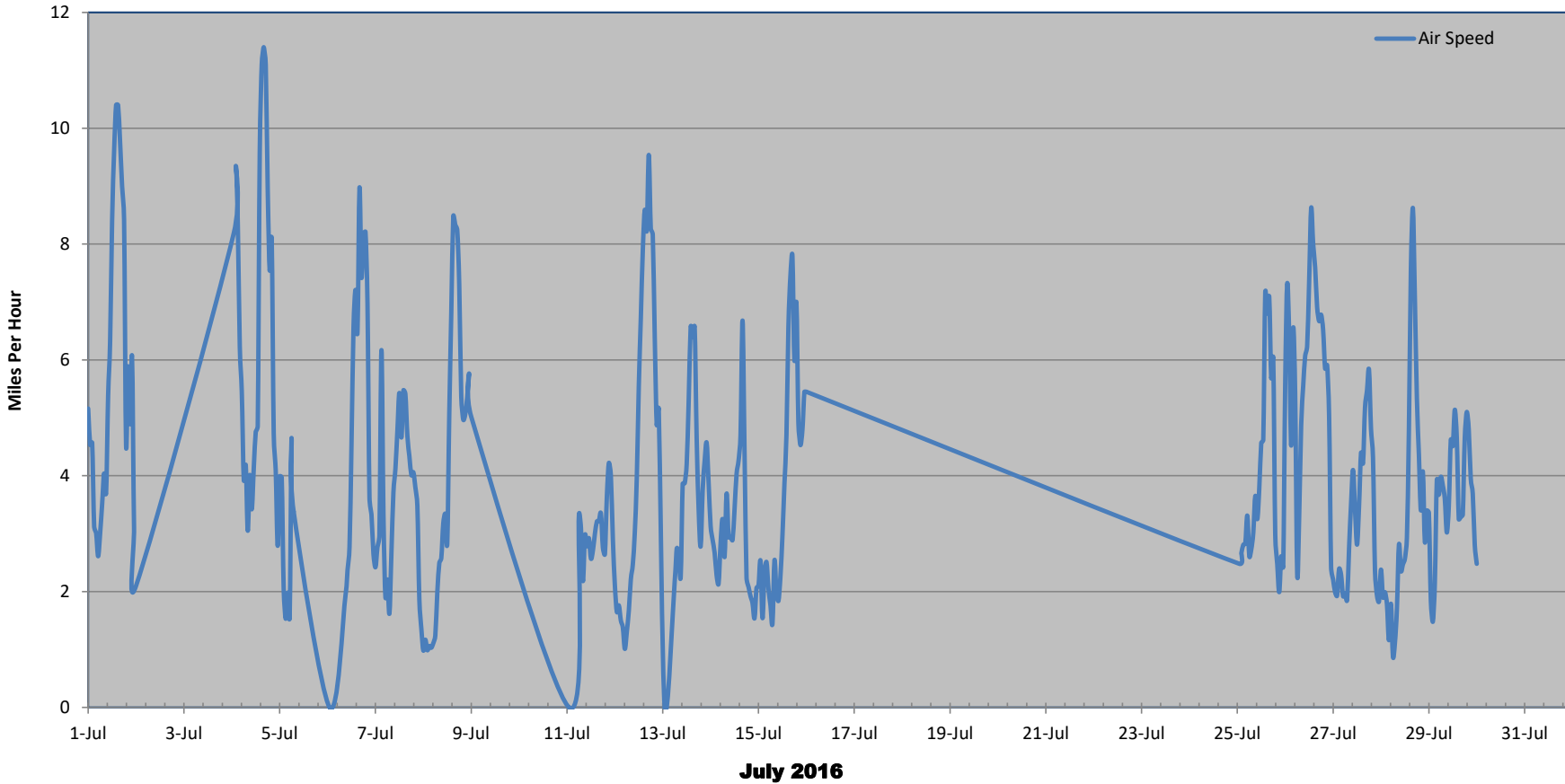


PPG Site 174 Air Monitoring
 June 2016
 Wind Speed & Direction
 Monthly Readings

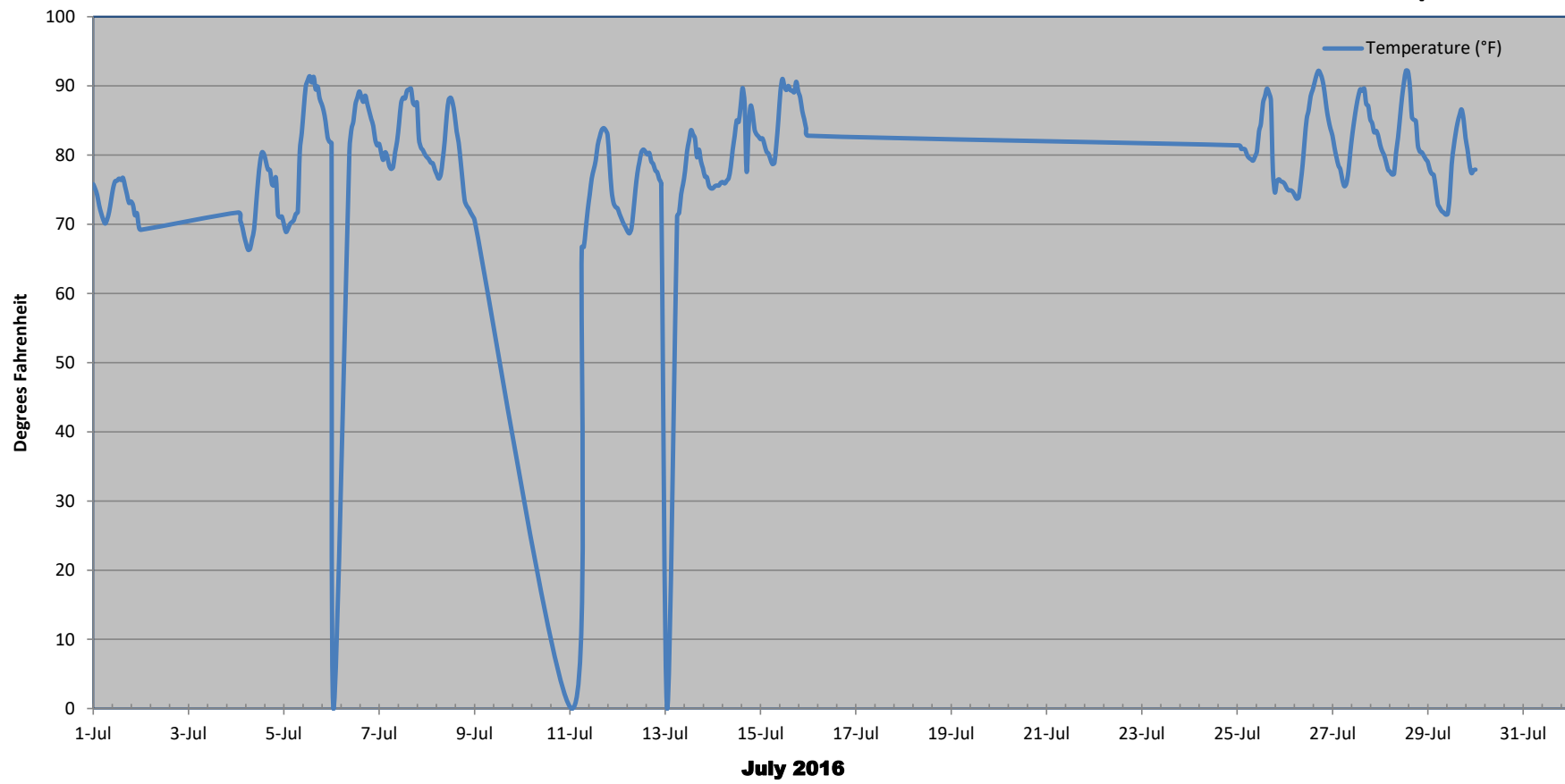
- > 10 MPH
- 8 - 10 MPH
- 6 - 8 MPH
- 4 - 6 MPH
- 2 - 4 MPH
- 1 - 2 MPH
- Calm



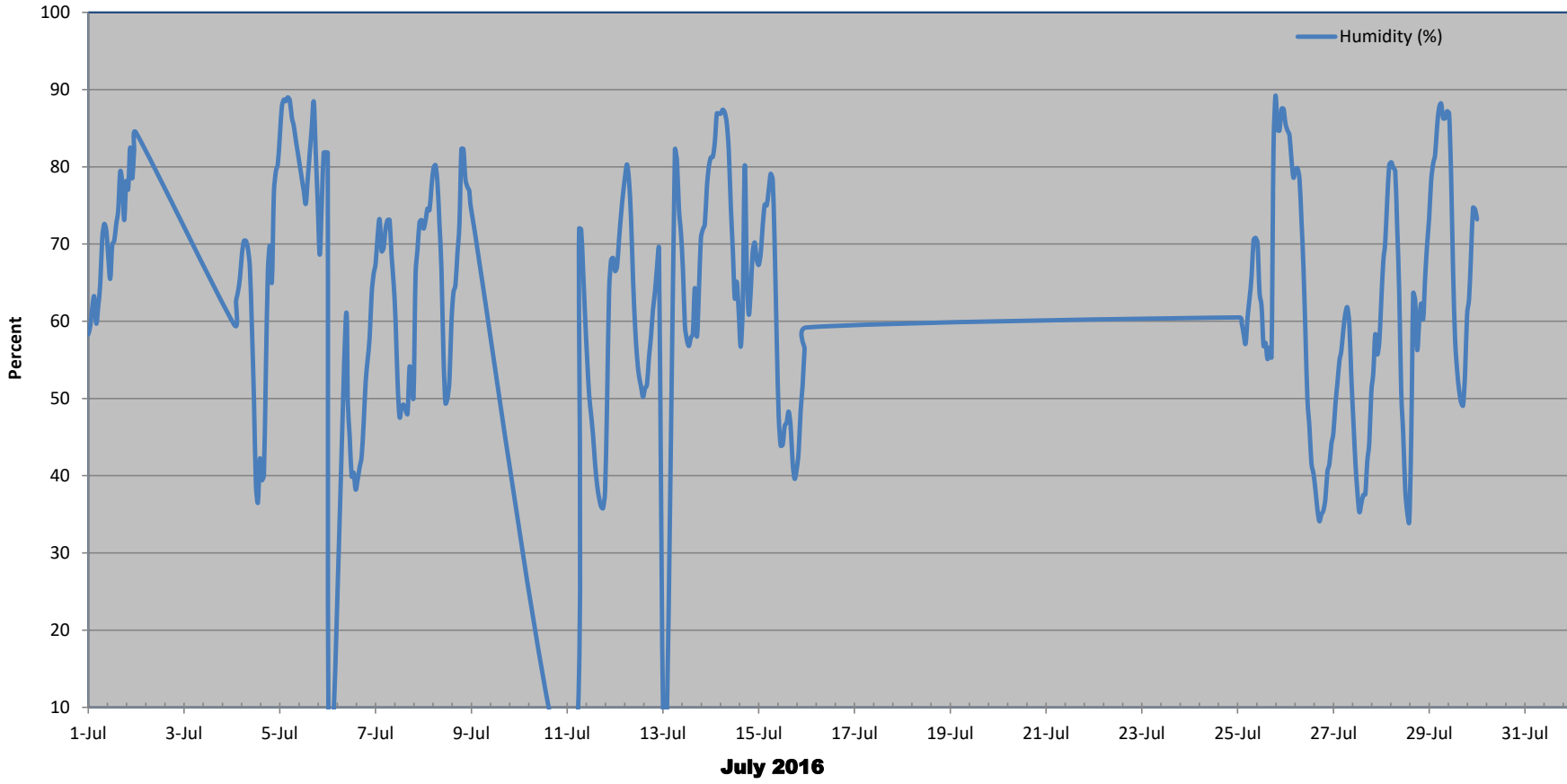
Average Wind Speed



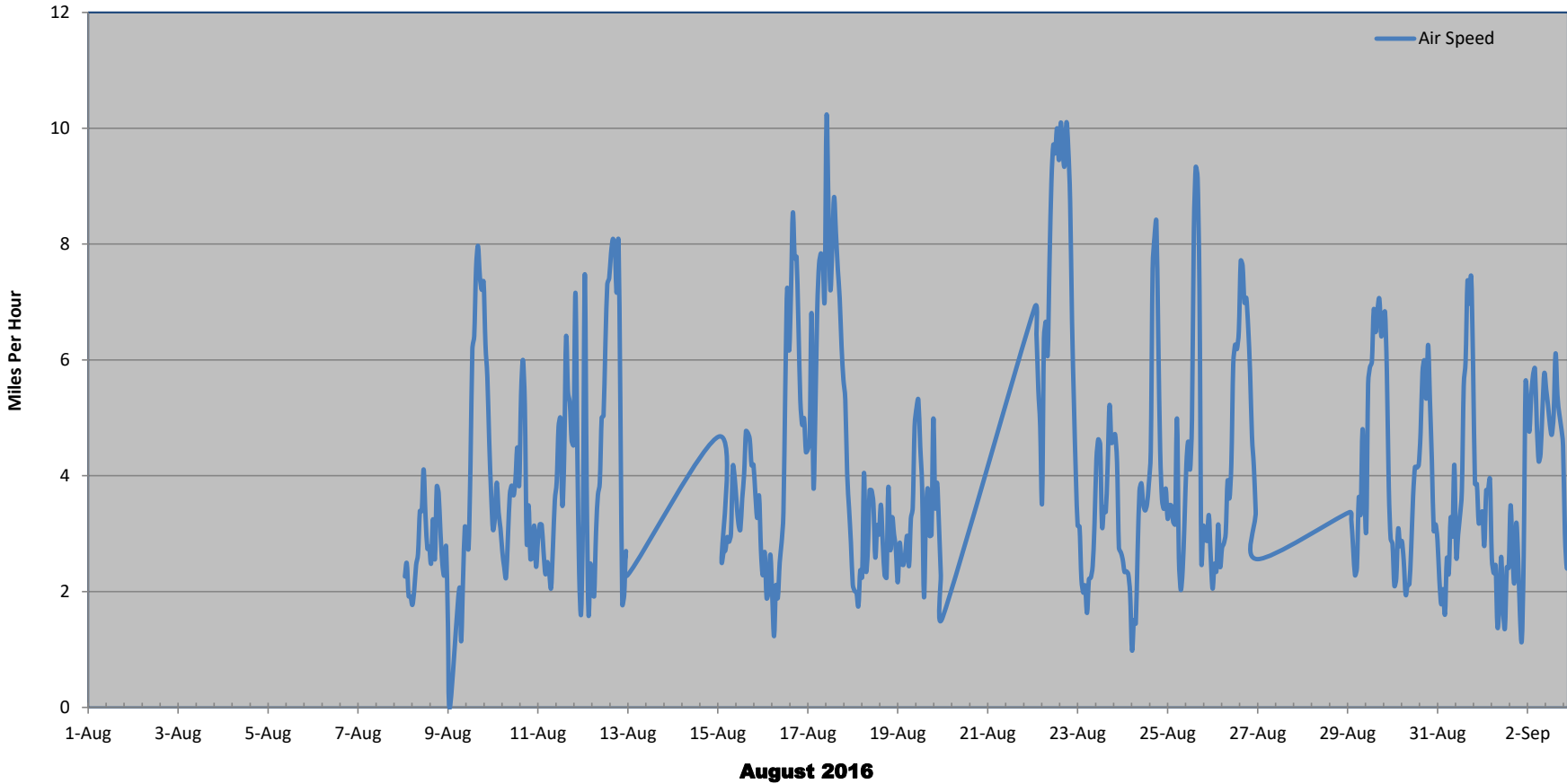
Temperature



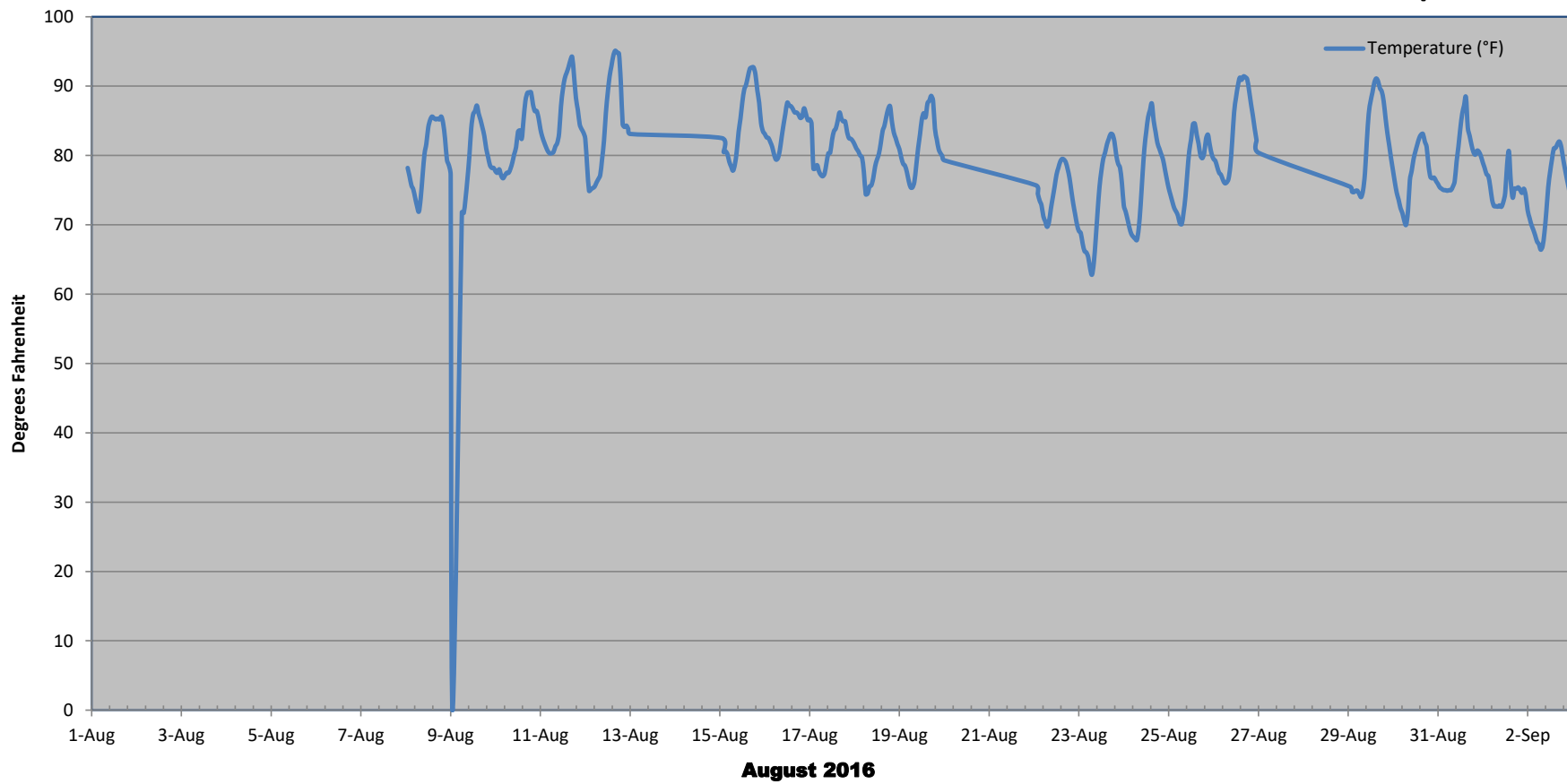
Relative Humidity



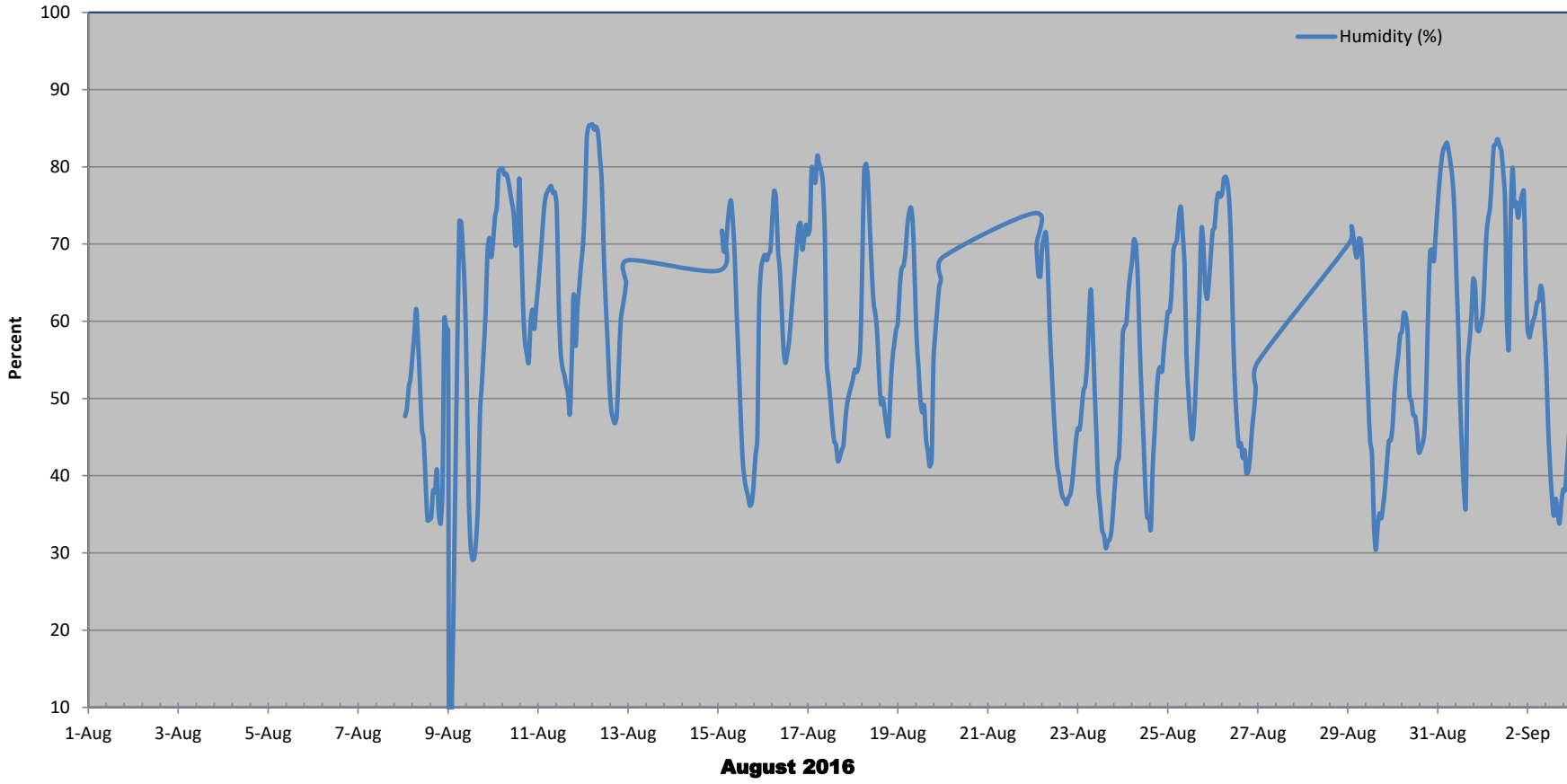
Average Wind Speed



Temperature



Relative Humidity



Appendix G

Site Maps







AMS-1 (4/13/16-4/15/16)

AMS-2 (4/11/16)

AMS-3 (4/12/16)

AMS-3 (4/11/16)

AMS-2 (4/12/16)

AMS-2 (4/13/16-4/15/16)

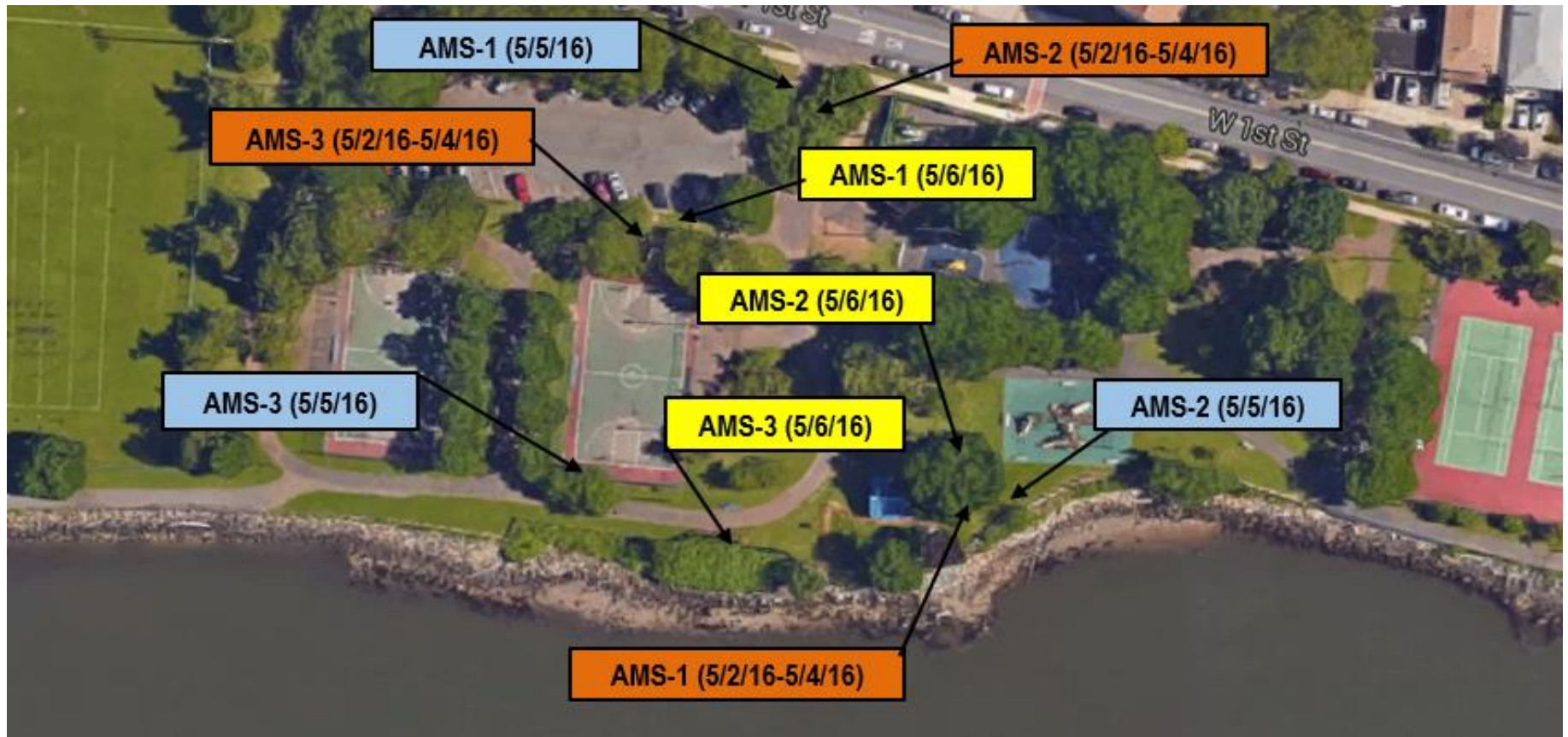
AMS-3 (4/13/16-4/15/16)

AMS-1 (4/11/16)

AMS-1 (4/12/16)







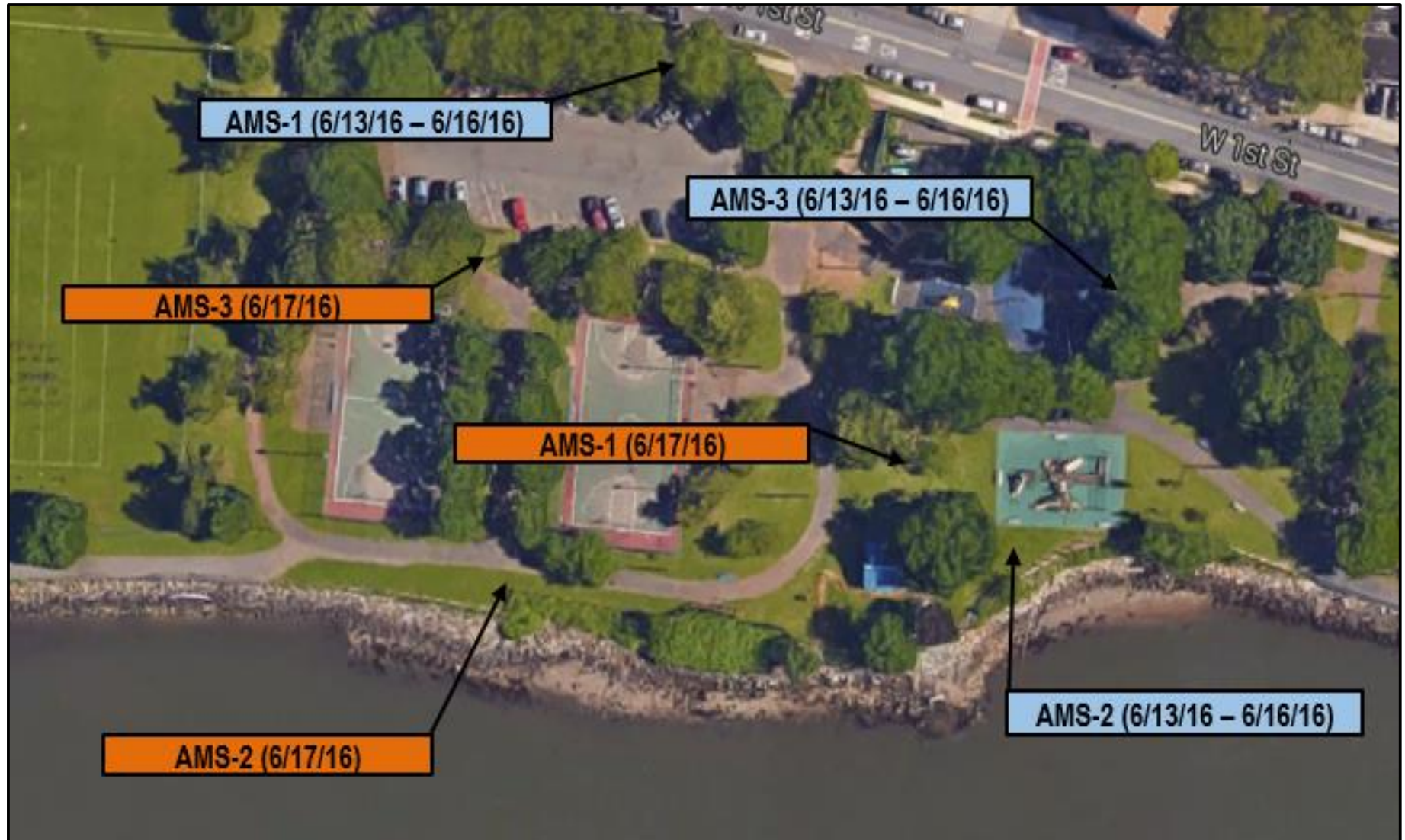












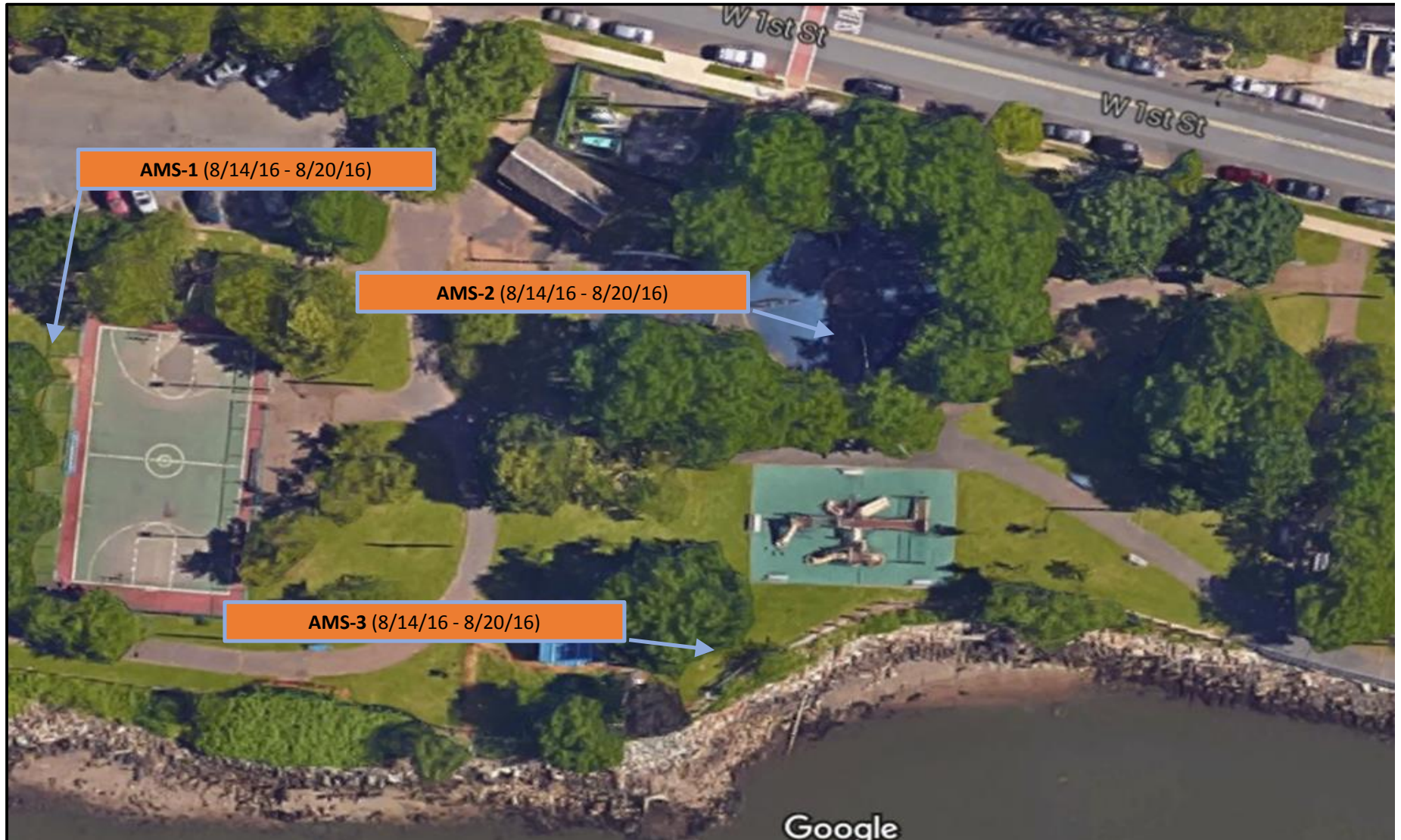


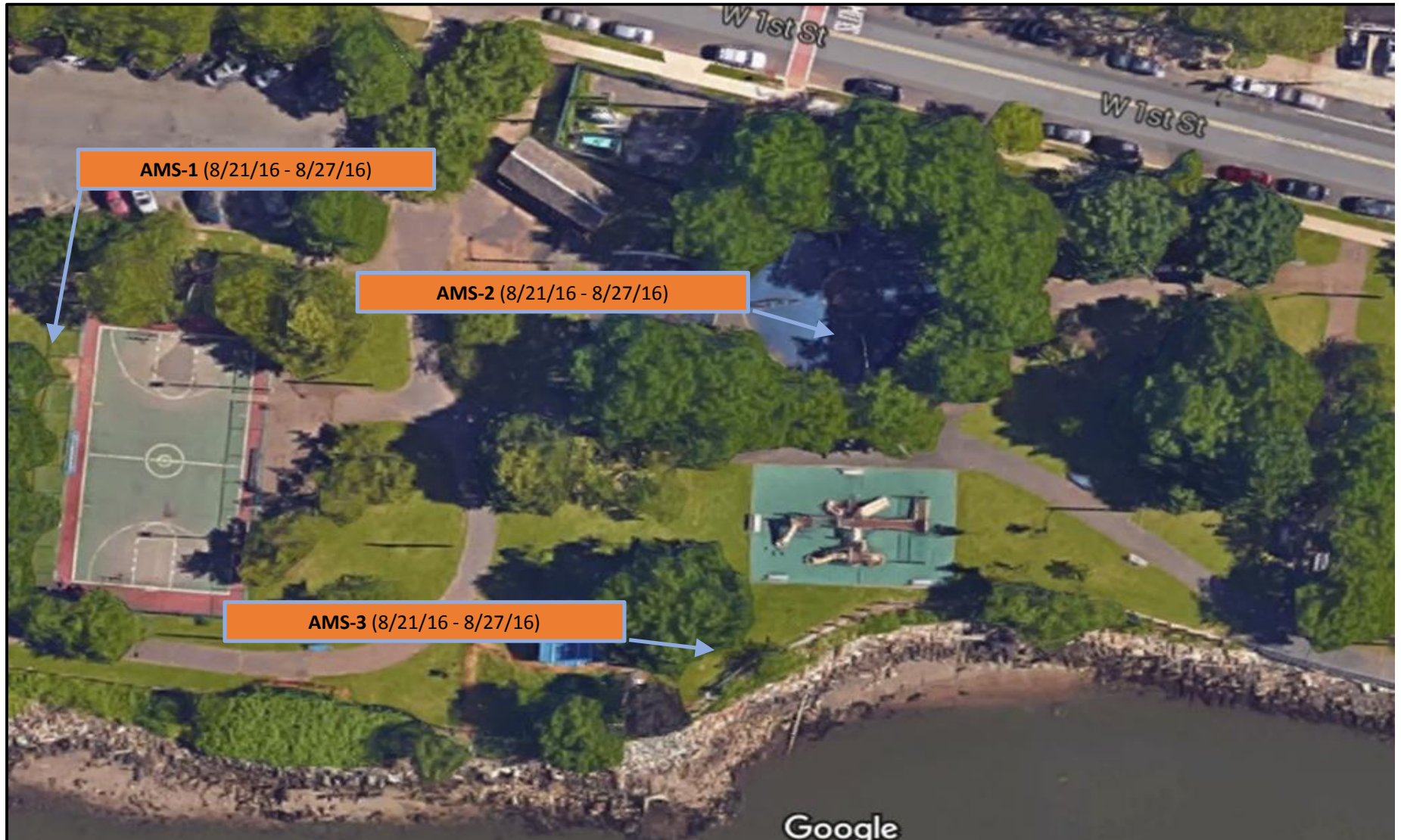


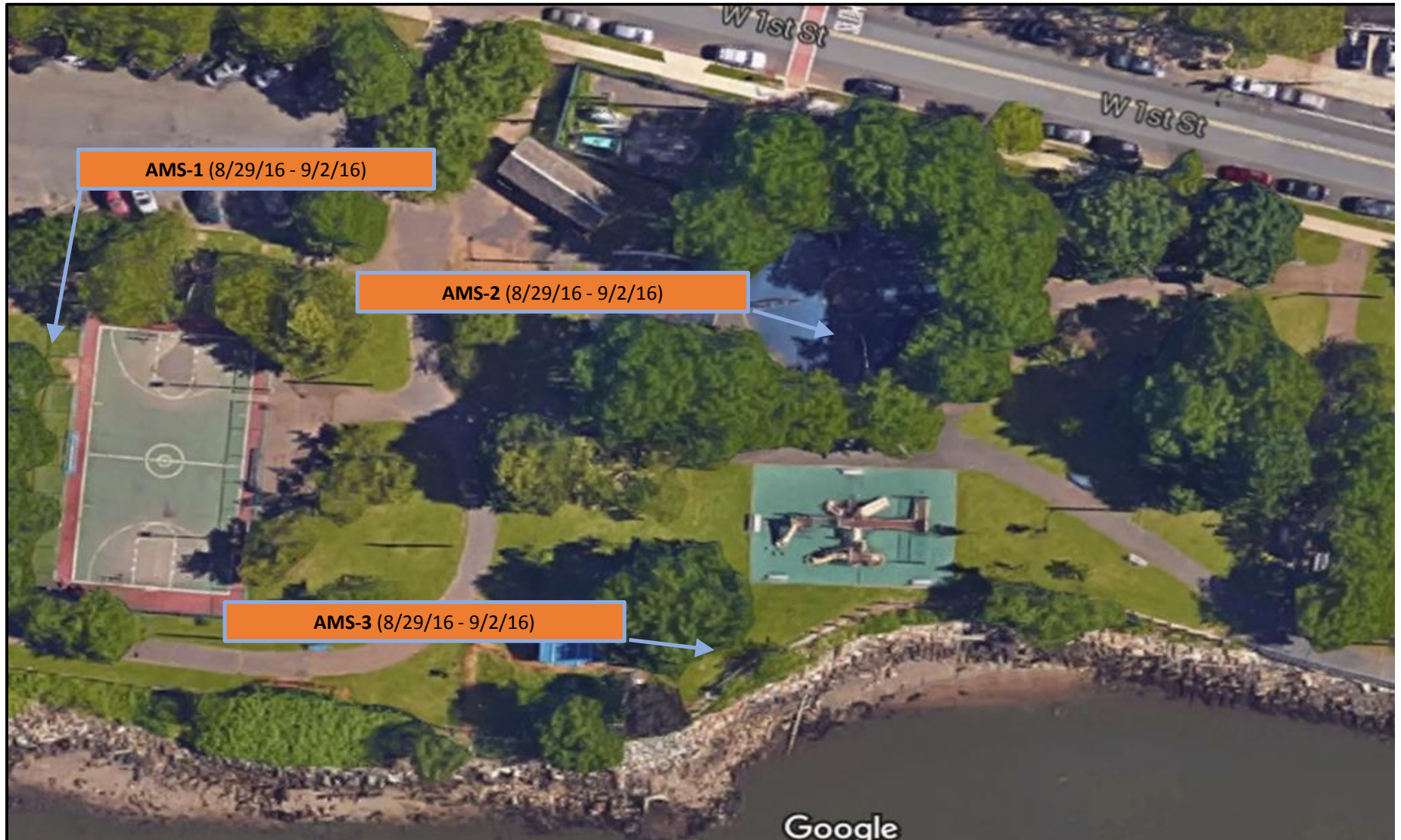












Appendix H

Program-to-date Result Summaries

- Integrated 8-hour Cr⁺⁶ Concentration Summaries
- Integrated 8-hour Total Particulate Concentration Summaries
- Real-time PM¹⁰ Concentrations Summaries
- Short-Term Average 8-Hour Integrated Cr⁺⁶ Metrics

Table H- 1: Program-to-date Integrated 8-hour Cr⁺⁶ Sampling Results Statistics

Statistics ¹	Site 174
	Downwind Sampling Location
Total Number of Samples ¹	84
Rate of Data Collection	100%
Number of Detected Samples ²	2
% of Cr ⁺⁶ Samples Greater than MDL	2.3%
Number of Samples Above AAC	0
Average % Cr ⁺⁶ in Dust ³	0.018%
Maximum % Cr ⁺⁶ in Dust ³	0.103%
<p>Results in ng/m³ – nanograms per cubic meter</p> <p>¹ Total number of samples collected since March 30, 20216. Variations in the number of samples collected are specifically identified within the report month of the variation. In general variations are caused by sampler malfunctions, site activities, weather conditions, etc.</p> <p>² Total number of sample results since March 30, 2016, reported above the laboratory reporting limit.</p> <p>³ The program-to-date average and maximum percent Cr⁺⁶ in dust was calculated using all the integrated Total Particulate and Cr⁺⁶ sample results collected since March 30, 2016.</p>	

Table H- 2: Monthly Average Integrated 8-hour Cr⁺⁶ Sampling Results

Statistics	Site 174
	Downwind Sampling Location
March 2016	4.0
April 2016	5.7
May 2016	3.9
June 2016	5.2
July 2016	4.2
August 2016	5.1
Program to Date	4.8
All readings in ng/m ³ – nanograms per cubic meter N/A – Not Applicable	

Table H- 3: Program-to-date Integrated Total Particulate 8-hour Sampling Results Statistics

Statistics	Site 174
	Downwind Sampling Location
Total Number of Samples ¹	84
Rate of Data Collection	100%
Number of Detected Samples ²	4
% Detection	4.8%

Results in ng/m³ – nanograms per cubic meter

¹ Total number of samples collected since March 30, 2016. Variations in the number of samples collected are specifically identified within the report month of the variation. In general variations are caused by sampler malfunctions, site activities, weather conditions, etc.

² Total number of sample results since March 30, 2016, reported above the laboratory reporting limit.

Table H- 4: Monthly Average Integrated 8-hour Total Particulate Sampling Results

Statistics	Site 174
	Downwind Sampling Location
March 2016	38.8
April 2016	43.5
May 2016	38.3
June 2016	39.3
July 2016	40.5
August 2016	59.6
Program to Date	44.0
All readings in $\mu\text{g}/\text{m}^3$ – micrograms per cubic meter N/A – Not Applicable	

Table H- 5: Monthly Average Real-Time PM₁₀ Monitoring Results

Statistics	Site 174		
	AMS 1	AMS 2	AMS 3
March 2016	13.5	15.0	9.8
April 2016	15.4	15.7	17.7
May 2016	17.3	19.9	25.3
June 2016	11.6	11.8	16.4
July 2016	25.5	19.3	26.3
August 2016	18.2	20.3	18.5
Program to Date	16.9	17.2	20.5
All readings in µg/m ³ – micrograms per cubic meter N/A – Not Applicable			

Table H - 6: Short-Term Average 8-Hour Integrated Cr+6 Metrics

Running Cr ⁺⁶ Metrics			Site 174
		Metric (ng/m ³)	Downwind Sample Location (ng/m ³)
Mar-2016	30 day	400	NA
	60 day	300	NA
	90 day	200	NA
Apr-2106	30 day	400	NA
	60 day	300	NA
	90 day	200	NA
May-2016	30 day	400	4.9
	60 day	300	NA
	90 day	200	NA
Jun-2016	30 day	400	4.5
	60 day	300	NA
	90 day	200	NA
Jul-2016	30 day	400	4.6
	60 day	300	4.7
	90 day	200	NA
Aug-2016	30 day	400	4.7
	60 day	300	4.6
	90 day	200	NA

ng/m³ – nanograms per cubic meter N/A – Not Applicable (not enough results collected to calculate specific metric at end of month)

1. Running Cr+6 metrics were utilized to provide for the early and regular assessment of performance trends and, if necessary, allow for responsive corrective measures to be implemented ensuring that emissions of Cr+6 are maintained well below the AAC over the duration of the project, and were minimized to the greatest extent practicable. The running Cr+6 metrics were designed to evaluate the program success on short duration intervals (monthly) and do not represent the long-term (program) ending success.
2. Running Cr+6 metrics are valid as of 9/2/2016 and include the previous 30, 60, or 90-days of sample results from the end of the months.

Appendix I

Lab Results



90 Lambertson Road, Windsor CT 06095
 Phone: 1-800-842-0355
 FAX: 1-860-687-7430
 AIHA-LAP, LLC Accredited Laboratory ID 100126

Report Issued To:

David Tomsey
 Emilcott Associates
 190 Park Avenue
 MORRISTOWN, NJ 07960
 Mark Perlmutter
 Emilcott Associates
 190 Park Avenue
 MORRISTOWN, NJ 07960

Laboratory Number: 1600859

Date Received: 04/01/2016
 Date Reported: 04/07/2016
 Location: PPG/Dennis Collins Park

Lab ID: 1600859-01	Sample ID: 927-0821	Date Sampled: 03/30/2016	Air Volume:1166 Liters
Sample Description: DC1		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.086 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000087 mg/m ³

Lab ID: 1600859-02	Sample ID: 927-0819	Date Sampled: 03/30/2016	Air Volume:1162 Liters
Sample Description: DC2		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.086 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000087 mg/m ³

Lab ID: 1600859-03	Sample ID: 927-0820	Date Sampled: 03/30/2016	Air Volume:1173 Liters
Sample Description: DC3		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.085 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000087 mg/m ³

Lab ID: 1600859-04	Sample ID: 927-0828	Date Sampled: 03/30/2016
Sample Description: Field Blank		Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	04/06/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	04/04/2016	LNT

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 N.A. = Not Applicable

Key

<	Less than	µg	micrograms	µg/m ³	micrograms per cubic meter	ppm	parts per million
>	Greater than	mg	milligrams	mg/m ³	milligrams per cubic meter	ppb	parts per billion

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Laboratory Number: 1600887

Date Received: 04/05/2016
 Date Reported: 04/12/2016
 Location: PPG/Dennis Collins Park

Lab ID: 1600887-01	Sample ID: 927-0822	Date Sampled: 03/31/2016	Air Volume:1380 Liters
Sample Description: DC1		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.072 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000074 mg/m ³

Lab ID: 1600887-02	Sample ID: 927-0823	Date Sampled: 03/31/2016	Air Volume:1380 Liters
Sample Description: DC2		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.072 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000074 mg/m ³

Lab ID: 1600887-03	Sample ID: 927-0827	Date Sampled: 03/31/2016	Air Volume:1563 Liters
Sample Description: DC3		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.064 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000065 mg/m ³

Lab ID: 1600887-04	Sample ID: 927-0825	Date Sampled: 03/31/2016
Sample Description: Field Blank		Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	04/11/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	04/06/2016	CVP

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Key

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>	Greater than	mg	milligrams	mg/m ³	milligrams per cubic meter	ppb	parts per billion

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Laboratory Number: 1600978

Date Received: 04/12/2016
 Date Reported: 04/19/2016
 Location: PPG/Dennis Collins Park

Lab ID: 1600978-01	Sample ID: 927-0826	Date Sampled: 04/05/2016	Air Volume:1078 Liters
Sample Description: DC3 04052016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.093 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000094 mg/m ³

Lab ID: 1600978-02	Sample ID: 927-5998	Date Sampled: 04/06/2016	Air Volume:1087 Liters
Sample Description: DC2 04062016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.092 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000094 mg/m ³

Lab ID: 1600978-03	Sample ID: 927-0824	Date Sampled: 04/08/2016	Air Volume:1013 Liters
Sample Description: DC2 04082016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.099 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000010 mg/m ³

Lab ID: 1600978-04	Sample ID: 927-5999	Date Sampled: Not Provided
Sample Description: Field Blank		Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	04/18/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	04/13/2016	CVP

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Key

<	Less than	µg	micrograms	µg/m ³	micrograms per cubic meter	ppm	parts per million
>	Greater than	mg	milligrams	mg/m ³	milligrams per cubic meter	ppb	parts per billion

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Laboratory Number: 1601068

Date Received: 04/20/2016
Date Reported: 04/26/2016
Location: PPG/Site 174

Lab ID: 1601068-01	Sample ID: 927-5996	Date Sampled: 04/11/2016	Air Volume:1214 Liters
Sample Description: AMS3 041116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.082 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000084 mg/m ³

Lab ID: 1601068-02	Sample ID: 927-5995	Date Sampled: 04/12/2016	Air Volume:1585 Liters
Sample Description: AMS3 041216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.063 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000064 mg/m ³

Lab ID: 1601068-03	Sample ID: 927-6002	Date Sampled: 04/13/2016	Air Volume:1466 Liters
Sample Description: AMS2 041316		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.068 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000070 mg/m ³

Lab ID: 1601068-04	Sample ID: 927-6006	Date Sampled: 04/14/2016	Air Volume:1369 Liters
Sample Description: AMS3 041416		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.073 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000074 mg/m ³

Lab ID: 1601068-05	Sample ID: 927-5993	Date Sampled: 04/15/2016	Air Volume:1122 Liters
Sample Description: AMS2 041516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.089 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000091 mg/m ³

Lab ID: 1601068-06	Sample ID: 927-6004	Date Sampled: Not Provided	Air Volume:
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	04/25/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	04/21/2016	CVP

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Key

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Laboratory Number: 1601139

Date Received: 04/26/2016
Date Reported: 05/02/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601139-01	Sample ID: 927-5990	Date Sampled: 04/18/2016	Air Volume:1443 Liters
Sample Description: AMS2 041816		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.069 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000071 mg/m ³

Lab ID: 1601139-02	Sample ID: 927-6000	Date Sampled: 04/18/2016	Air Volume:1331 Liters
Sample Description: AMS3 041916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.075 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000077 mg/m ³

Lab ID: 1601139-03	Sample ID: 927-6001	Date Sampled: 04/20/2016	Air Volume:1332 Liters
Sample Description: AMS2 042016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.075 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000077 mg/m ³

Lab ID: 1601139-04	Sample ID: 927-6005	Date Sampled: 04/21/2016	Air Volume:1482 Liters
Sample Description: AMS2 042116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	150 µg	0.10 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601139-05	Sample ID: 927-6003	Date Sampled: 04/22/2016	Air Volume:1422 Liters
Sample Description: AMS2 042216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	110 µg	0.075 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000072 mg/m ³

Lab ID: 1601139-06	Sample ID: 927-5997	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

Dust was observed on the inside cassette walls of some or all of the particulate sampling cassettes. All of the adhering material may not have been included in the Total Particulate results.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	05/02/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	04/27/2016	LNT

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Laboratory Number: 1601224

Date Received: 05/04/2016
Date Reported: 05/11/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601224-01	Sample ID: 927-5991	Date Sampled: 04/25/2016	Air Volume:1549 Liters
Sample Description: AMS2 042516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.065 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000066 mg/m ³

Lab ID: 1601224-02	Sample ID: 927-6008	Date Sampled: 04/26/2016	Air Volume:1487 Liters
Sample Description: AMS2 042616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.067 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601224-03	Sample ID: 927-6009	Date Sampled: 04/27/2016	Air Volume:1497 Liters
Sample Description: AMS2 042716		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.067 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000068 mg/m ³

Lab ID: 1601224-04	Sample ID: 927-5919	Date Sampled: 04/28/2016	Air Volume:1482 Liters
Sample Description: AMS2 042816		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.067 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601224-05	Sample ID: 927-5901	Date Sampled: 04/29/2016	Air Volume:1384 Liters
Sample Description: AMS2 042916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.072 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000074 mg/m ³

Lab ID: 1601224-06	Sample ID: 927-5909	Date Sampled: Not Provided	Air Volume:
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	05/09/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	05/04/2016	LNT

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Laboratory Number: 1601328

Date Received: 05/13/2016
 Date Reported: 05/17/2016
 Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601328-01	Sample ID: 927-5915	Date Sampled: 05/02/2016	Air Volume:1478 Liters
Sample Description: AMS 2 050216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.068 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601328-02	Sample ID: 927-5914	Date Sampled: 05/04/2016	Air Volume:1173 Liters
Sample Description: AMS 2 050416		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.085 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000087 mg/m ³

Lab ID: 1601328-03	Sample ID: 927-5903	Date Sampled: 05/04/2016	Air Volume:1360 Liters
Sample Description: AMS 2 050516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.074 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000075 mg/m ³

Lab ID: 1601328-04	Sample ID: 927-5924	Date Sampled: Not Provided
Sample Description: BLANK		Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	05/16/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	05/13/2016	CVP

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Key

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>	Greater than	mg	milligrams	mg/m ³	milligrams per cubic meter	ppb	parts per billion

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Laboratory Number: 1601385

Date Received: 05/18/2016
Date Reported: 05/23/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601385-01	Sample ID: 927-5918	Date Sampled: 05/09/2016	Air Volume:1388 Liters
Sample Description: AMS2 050916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.072 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000074 mg/m ³

Lab ID: 1601385-02	Sample ID: 927-5910	Date Sampled: 05/10/2016	Air Volume:1216 Liters
Sample Description: AMS2 051016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.082 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000084 mg/m ³

Lab ID: 1601385-03	Sample ID: 927-5925	Date Sampled: 05/11/2016	Air Volume:1532 Liters
Sample Description: AMS2 051116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.065 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000067 mg/m ³

Lab ID: 1601385-04	Sample ID: 927-5916	Date Sampled: 05/12/2016	Air Volume:1509 Liters
Sample Description: AMS2 051216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.066 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000068 mg/m ³

Lab ID: 1601385-05	Sample ID: 927-5906	Date Sampled: 05/13/2016	Air Volume:1181 Liters
Sample Description: AMS3 051316		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.085 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000087 mg/m ³

Lab ID: 1601385-06	Sample ID: 927-5902	Date Sampled: Not Provided	
Sample Description: Blank		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	05/20/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	05/19/2016	CVP

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Key

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Laboratory Number: 1601455

Date Received: 05/24/2016
Date Reported: 06/01/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601455-01	Sample ID: 927-5900	Date Sampled: 05/16/2016	Air Volume:1476 Liters
Sample Description: AMS2 051616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.068 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601455-02	Sample ID: 927-5917	Date Sampled: 05/17/2016	Air Volume:1273 Liters
Sample Description: AMS2 051716		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.079 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000080 mg/m ³

Lab ID: 1601455-03	Sample ID: 927-5907	Date Sampled: 05/18/2016	Air Volume:1435 Liters
Sample Description: AMS3 051816		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.070 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000071 mg/m ³

Lab ID: 1601455-04	Sample ID: 927-5904	Date Sampled: 05/19/2016	Air Volume:1372 Liters
Sample Description: AMS3 051916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.073 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000075 mg/m ³

Lab ID: 1601455-05	Sample ID: 927-5921	Date Sampled: 05/20/2016	Air Volume:1064 Liters
Sample Description: AMS2 052016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.094 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000096 mg/m ³

Lab ID: 1601455-06	Sample ID: 927-5908	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	05/31/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	05/25/2016	CVP

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Laboratory Number: 1601521

Date Received: 06/02/2016
Date Reported: 06/07/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601521-01 Sample ID: 927-5912 Date Sampled: 05/23/2016 Air Volume:1418 Liters
Sample Description: AMS2 052316 Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.071 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000072 mg/m ³

Lab ID: 1601521-02 Sample ID: 927-5922 Date Sampled: 05/24/2016 Air Volume:1162 Liters
Sample Description: AMS2 052416 Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.086 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000088 mg/m ³

Lab ID: 1601521-03 Sample ID: 927-5886 Date Sampled: 05/25/2016 Air Volume:1434 Liters
Sample Description: AMS2 052516 Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.070 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000071 mg/m ³

Lab ID: 1601521-04 Sample ID: 927-5923 Date Sampled: 05/26/2016 Air Volume:1427 Liters
Sample Description: AMS2 052616 Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.070 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000072 mg/m ³

Lab ID: 1601521-05 Sample ID: 927-5882 Date Sampled: 05/27/2016 Air Volume:904 Liters
Sample Description: AMS3 052716 Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.11 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000011 mg/m ³

Lab ID: 1601521-06 Sample ID: 927-5883 Date Sampled: Not Provided
Sample Description: Blank Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	06/06/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	06/03/2016	SKP

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Laboratory Number: 1601588

Date Received: 06/09/2016
Date Reported: 06/16/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601588-01	Sample ID: 927-5994	Date Sampled: 05/31/2016	Air Volume:1482 Liters
Sample Description: AMS3 053116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.067 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601588-02	Sample ID: 927-5884	Date Sampled: 06/01/2016	Air Volume:1494 Liters
Sample Description: AMS3 060116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	110 µg	0.075 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601588-03	Sample ID: 927-5911	Date Sampled: 06/02/2016	Air Volume:1377 Liters
Sample Description: AMS3 060216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.073 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000075 mg/m ³

Lab ID: 1601588-04	Sample ID: 927-5887	Date Sampled: 06/03/2016	Air Volume:1476 Liters
Sample Description: AMS2 060316		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.068 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000070 mg/m ³

Lab ID: 1601588-05	Sample ID: 927-5889	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	06/15/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	06/10/2016	SKP

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Laboratory Number: 1601685

Date Received: 06/15/2016
Date Reported: 06/21/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601685-01	Sample ID: 927-5885	Date Sampled: 06/06/2016	Air Volume:1486 Liters
Sample Description: AMS3 060616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.067 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	0.012 µg	0.0000083 mg/m ³

Lab ID: 1601685-02	Sample ID: 927-5891	Date Sampled: 06/07/2016	Air Volume:1464 Liters
Sample Description: AMS3 060716		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.068 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000070 mg/m ³

Lab ID: 1601685-03	Sample ID: 927-5888	Date Sampled: 06/08/2016	Air Volume:1370 Liters
Sample Description: AMS2 060816		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.073 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	0.025 µg	0.000018 mg/m ³

Lab ID: 1601685-04	Sample ID: 927-5890	Date Sampled: 06/09/2016	Air Volume:1377 Liters
Sample Description: AMS2 060916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.073 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000075 mg/m ³

Lab ID: 1601685-05	Sample ID: 927-5895	Date Sampled: 06/10/2016	Air Volume:1419 Liters
Sample Description: AMS2 061016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.070 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000072 mg/m ³

Lab ID: 1601685-06	Sample ID: 927-5894	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

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<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	06/21/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	06/16/2016	CVP

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Laboratory Number: 1601760

Date Received: 06/21/2016
Date Reported: 06/27/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1601760-01	Sample ID: 927-5913	Date Sampled: 06/13/2016	Air Volume:1476 Liters
Sample Description: AMS3 061316		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.068 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000070 mg/m ³

Lab ID: 1601760-02	Sample ID: 927-5892	Date Sampled: 06/14/2016	Air Volume:1480 Liters
Sample Description: AMS3 061416		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.068 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000069 mg/m ³

Lab ID: 1601760-03	Sample ID: 927-5896	Date Sampled: 06/15/2016	Air Volume:1178 Liters
Sample Description: AMS3 061516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.085 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000087 mg/m ³

Lab ID: 1601760-04	Sample ID: 927-5897	Date Sampled: 06/16/2016	Air Volume:1297 Liters
Sample Description: AMS2 061616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.077 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000079 mg/m ³

Lab ID: 1601760-05	Sample ID: 927-5893	Date Sampled: 06/17/2016	Air Volume:1231 Liters
Sample Description: AMS2 061716		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.081 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000083 mg/m ³

Lab ID: 1601760-06	Sample ID: 927-5879	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	06/23/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	06/22/2016	CVP

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N.A. = Not Applicable

Key

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>	Greater than	mg	milligrams	mg/m ³	milligrams per cubic meter	ppb	parts per billion

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Laboratory Number: 1602006

Date Received: 07/14/2016
Date Reported: 07/22/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1602006-01	Sample ID: 927-5869	Date Sampled: 07/05/2016	Air Volume:1176 Liters
Sample Description: AMS2 070516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.085 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000088 mg/m ³

Lab ID: 1602006-02	Sample ID: 927-5862	Date Sampled: 07/06/2016	Air Volume:1225 Liters
Sample Description: AMS2 070616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.082 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000084 mg/m ³

Lab ID: 1602006-03	Sample ID: 927-5881	Date Sampled: 07/07/2016	Air Volume:1308 Liters
Sample Description: AMS2 070716		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.076 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000079 mg/m ³

Lab ID: 1602006-04	Sample ID: 927-5865	Date Sampled: 07/08/2016	Air Volume:1031 Liters
Sample Description: AMS2 070816		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.097 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000010 mg/m ³

Lab ID: 1602006-05	Sample ID: 927-5860	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	07/22/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	07/15/2016	CVP

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Laboratory Number: 1602058

Date Received: 07/19/2016
Date Reported: 07/22/2016
Location: Site 174PPG/Dennis Collins Park

Lab ID: 1602058-01	Sample ID: 927-5861	Date Sampled: 07/11/2016	Air Volume:1338 Liters
Sample Description: AMS2 071116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.075 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000077 mg/m ³

Lab ID: 1602058-02	Sample ID: 927-5866	Date Sampled: 07/12/2016	Air Volume:1348 Liters
Sample Description: AMS2 071216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.074 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000077 mg/m ³

Lab ID: 1602058-03	Sample ID: 927-5855	Date Sampled: 07/13/2016	Air Volume:1173 Liters
Sample Description: AMS2 071316		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.085 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000088 mg/m ³

Lab ID: 1602058-04	Sample ID: 927-5873	Date Sampled: 07/14/2015	Air Volume:1263 Liters
Sample Description: AMS2 071416		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.079 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000082 mg/m ³

Lab ID: 1602058-05	Sample ID: 927-5858	Date Sampled: 07/15/2016	Air Volume:1217 Liters
Sample Description: AMS2 071516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.082 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000085 mg/m ³

Lab ID: 1602058-06	Sample ID: 927-5875	Date Sampled: Not Provided	Air Volume:
Sample Description: Blank		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	07/22/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	07/20/2016	CVP

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Key

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Laboratory Number: 1602236

Date Received: 08/04/2016
 Date Reported: 08/10/2016
 Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1602236-01	Sample ID: 927-5868	Date Sampled: 07/26/2016	Air Volume:1216 Liters
Sample Description: AMS2 072616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.082 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000085 mg/m ³

Lab ID: 1602236-02	Sample ID: 927-5856	Date Sampled: 07/27/2016	Air Volume:1263 Liters
Sample Description: AMS2 072716		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.079 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000082 mg/m ³

Lab ID: 1602236-03	Sample ID: 927-5870	Date Sampled: 07/28/2016	Air Volume:1323 Liters
Sample Description: AMS2 072816		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.076 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000078 mg/m ³

Lab ID: 1602236-04	Sample ID: 927-6140	Date Sampled: Not Provided
Sample Description: Blank		Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate sample results have been blank corrected.
 Chromium (VI) sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	08/09/2016	JGC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	08/04/2016	SKP

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Key

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Laboratory Number: 1602382

Date Received: 08/17/2016
 Date Reported: 08/23/2016
 Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1602382-01	Sample ID: 927-5871	Date Sampled: 08/09/2016	Air Volume:904 Liters
Sample Description: AMS2 080916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.11 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000011 mg/m ³

Lab ID: 1602382-02	Sample ID: 927-5863	Date Sampled: 08/11/2016	Air Volume:1357 Liters
Sample Description: AMS2 081116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.074 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000076 mg/m ³

Lab ID: 1602382-03	Sample ID: 927-5876	Date Sampled: 08/12/2016	Air Volume:1267 Liters
Sample Description: AMS3 081216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.079 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000081 mg/m ³

Lab ID: 1602382-04	Sample ID: 927-5899	Date Sampled: Not Provided
Sample Description: BLANK		Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	08/22/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	08/18/2016	CVP

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Laboratory Number: 1602478

Date Received: 08/25/2016
Date Reported: 09/02/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1602478-01	Sample ID: 927-5877	Date Sampled: 08/15/2016	Air Volume:723 Liters
Sample Description: AMS2 081516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.14 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000014 mg/m ³

Lab ID: 1602478-02	Sample ID: 927-5867	Date Sampled: 08/16/2016	Air Volume:1213 Liters
Sample Description: AMS2 081616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.082 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000085 mg/m ³

Lab ID: 1602478-03	Sample ID: 927-5874	Date Sampled: 08/17/2016	Air Volume:1451 Liters
Sample Description: AMS2 081716		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.069 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000071 mg/m ³

Lab ID: 1602478-04	Sample ID: 927-5857	Date Sampled: 08/18/2016	Air Volume:1088 Liters
Sample Description: AMS2 081816		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.092 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000095 mg/m ³

Lab ID: 1602478-05	Sample ID: 927-5859	Date Sampled: 08/19/2016	Air Volume:682 Liters
Sample Description: AMS2 081916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.15 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000015 mg/m ³

Lab ID: 1602478-06	Sample ID: 927-5843	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	09/01/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	08/26/2016	CVP

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Laboratory Number: 1602537

Date Received: 08/30/2016
Date Reported: 09/09/2016
Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1602537-01	Sample ID: 927-5840	Date Sampled: 08/22/2016	Air Volume:1084 Liters
Sample Description: AMS2 082216		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.092 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000096 mg/m ³

Lab ID: 1602537-02	Sample ID: 927-5847	Date Sampled: 08/23/2016	Air Volume:1303 Liters
Sample Description: AMS2 082316		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.077 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000080 mg/m ³

Lab ID: 1602537-03	Sample ID: 927-5846	Date Sampled: 08/24/2016	Air Volume:1404 Liters
Sample Description: AMS2 082416		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.071 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000074 mg/m ³

Lab ID: 1602537-04	Sample ID: 927-5839	Date Sampled: 08/25/2016	Air Volume:1361 Liters
Sample Description: AMS2 082516		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.073 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000076 mg/m ³

Lab ID: 1602537-05	Sample ID: 927-5844	Date Sampled: 08/26/2016	Air Volume:500 Liters
Sample Description: AMS2 082616		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.20 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000021 mg/m ³

Lab ID: 1602537-06	Sample ID: 927-5849	Date Sampled: Not Provided	
Sample Description: BLANK		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	
Total Particulates	< 100 µg	
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	09/08/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	09/01/2016	CVP

The method reporting limits (MRLs) listed are for normally processed samples. Samples requiring special processing (i.e. dilutions) may have elevated MRLs.
N.A. = Not Applicable

Key

<	Less than	µg	micrograms	µg/m ³	micrograms per cubic meter	ppm	parts per million
>	Greater than	mg	milligrams	mg/m ³	milligrams per cubic meter	ppb	parts per billion

The reported data relate only to the samples as received by the Laboratory. The reported air concentrations have been calculated using information supplied by the customer and have NOT been adjusted to represent a Time Weighted Average (TWA). "<" indicates less than the method reporting limit (MRL). The contaminant may or may not be present at levels below this concentration. This report shall not be reproduced except in full, without written approval of the laboratory. The samples have not been blank corrected and all samples were received in satisfactory condition unless otherwise noted.

Approved by:

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Report Issued To:

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 MORRISTOWN, NJ 07960

Carey Wu
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 190 Park Ave.
 MORRISTOWN, NJ 07960

Laboratory Number: 1602575

Date Received: 09/02/2016
 Date Reported: 09/09/2016
 Location: PPG/Dennis Collins Park - Site 174

Lab ID: 1602575-01	Sample ID: 927-5842	Date Sampled: 08/29/2016	Air Volume:994 Liters
Sample Description: AMS2 082916		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.10 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.000010 mg/m ³

Lab ID: 1602575-02	Sample ID: 927-5845	Date Sampled: 08/30/2016	Air Volume:1301 Liters
Sample Description: AMS2 083016		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	< 100 µg	< 0.077 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000080 mg/m ³

Lab ID: 1602575-03	Sample ID: 927-5850	Date Sampled: 08/31/2016	Air Volume:1259 Liters
Sample Description: AMS2 083116		Matrix: PVC Filter - preweighed	

<u>Analyte</u>	<u>Total Mass</u>	<u>Concentration</u>
Total Particulates	260 µg	0.21 mg/m ³
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg	< 0.0000082 mg/m ³

Lab ID: 1602575-04	Sample ID: 927-5905	Date Sampled: Not Provided
Sample Description: Blank		Matrix: PVC Filter - preweighed

<u>Analyte</u>	<u>Total Mass</u>
Total Particulates	< 100 µg
Chromium (VI) Compounds, as Cr (OSHA)	< 0.010 µg

Folder Comments:

The particulate and hexavalent chromium sample results have been blank corrected.

<u>Analyte</u>	<u>Media Type</u>	<u>MRL</u>	<u>Analytical Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Chromium (VI) Compounds, as Cr (OSHA)	PVC Filter - preweighed	0.010 µg	TIC-IC-07: Modified OSHA ID 215	09/08/2016	JDC
Total Particulates	PVC Filter - preweighed	100 µg	TIC-GRV-01: NIOSH 0500	09/07/2016	SKP

The method reporting limits (MRLs) listed are for normally processed samples. Samples requiring special processing (i.e. dilutions) may have elevated MRLs.
 N.A. = Not Applicable

Key

<	Less than	µg	micrograms	µg/m ³	micrograms per cubic meter	ppm	parts per million
>	Greater than	mg	milligrams	mg/m ³	milligrams per cubic meter	ppb	parts per billion

The reported data relate only to the samples as received by the Laboratory. The reported air concentrations have been calculated using information supplied by the customer and have NOT been adjusted to represent a Time Weighted Average (TWA). "<" indicates less than the method reporting limit (MRL). The contaminant may or may not be present at levels below this concentration. This report shall not be reproduced except in full, without written approval of the laboratory. The samples have not been blank corrected and all samples were received in satisfactory condition unless otherwise noted.

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