



Wood Environment & Infrastructure Solutions, Inc
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LETTER OF TRANSMITTAL

TO: Allan Williams Highland Park Environmental Commission FROM: John Poserina, Project Manager	DATE: 10/25/2018 <i>Revised 1/2/2019</i> PROJECT NO.: 3480180606 PROJ. NAME: Honeywell Highland Park SUBJECT: Construction Air Monitoring Data for week of 100118 to 100518 Former Midland Ross Facility, SRP PI#018773 Highland Park, New Jersey
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WE TRANSMIT TO YOU: HEREWITH UNDER SEPARATE COVER

SUBJECT:

- DRAWINGS
- SPECIFICATIONS
- CALCULATIONS
- REPORT
- COST ESTIMATE
- AS NOTED

ACTION:

- FOR YOUR INFORMATION
- FOR YOUR COMMENT OR APPROVAL
- RETURNED FOR CORRECTION: RESUBMIT
- APPROVED AS NOTED
- AS REQUESTED

SENT BY:

- MAIL
- CERTIFIED MAIL
- EXPRESS **Federal Express**
- COURIER
- HAND DELIVERED
- FACSIMILE:

26 pages (including transmittal sheet)

COPIES	DATE	DESCRIPTION
1	10/05/18	Construction Air Monitoring Data

REMARKS:

The following data package includes the following from the week of 100118 to 100518
 -Map displaying Air Monitoring Station locations
 -Dust Monitoring Results
 -Laboratory Air Sample Results

The criteria and results in the metals section of the laboratory air sample results table were revised to mg/m3 to be consistent with prior reports.

Note: No work conducted on 100118 and 100218.

CC: Maria Kaouris - Honeywell
Jorge Berkowitz, Ph.D, LSRP - Langan
Kay Licausi

By: John Poserina, P.E.

Direct Phone: (609) 631-2923

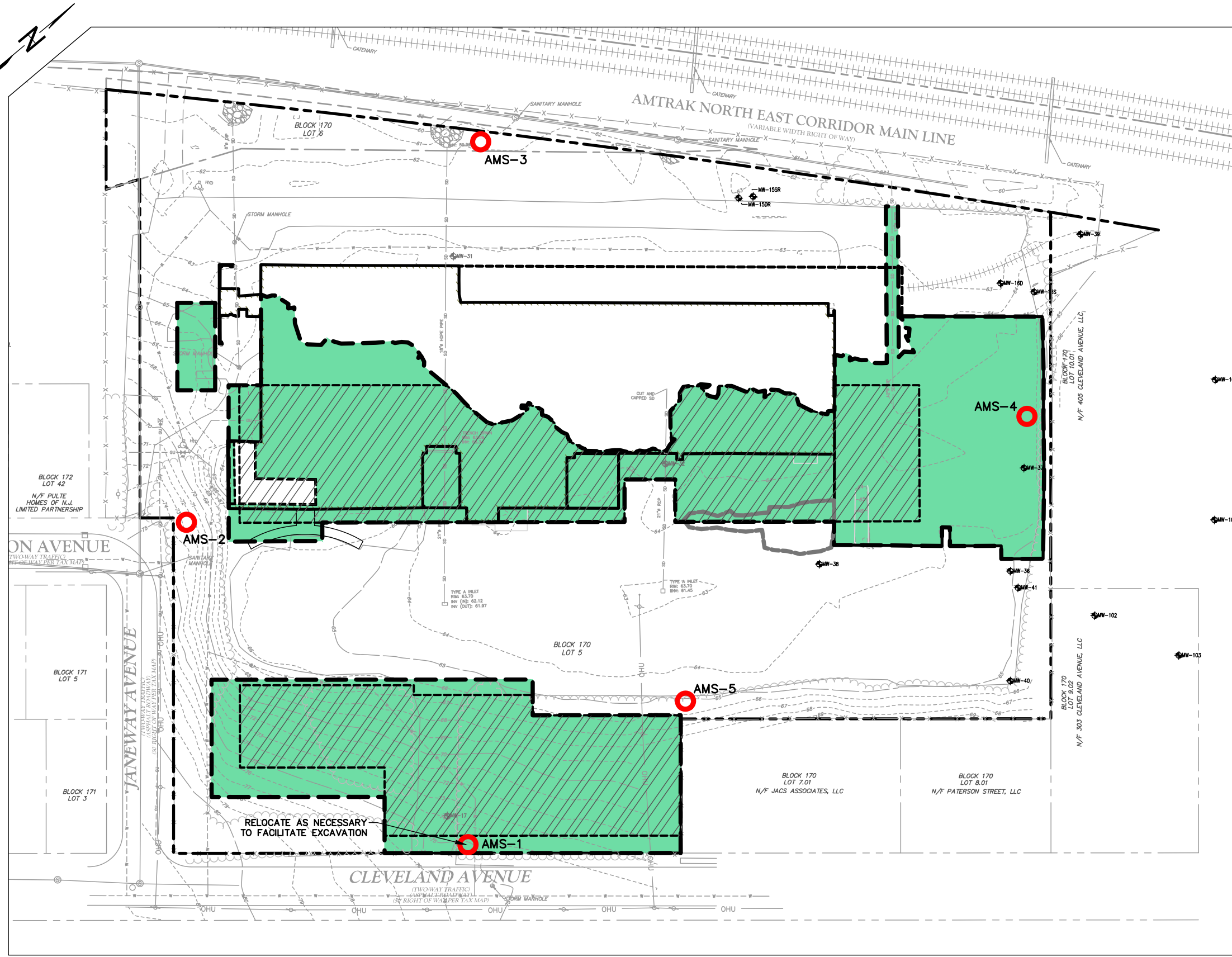
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AIR MONITORING STATION LOCATIONS

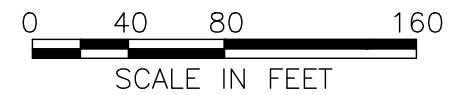
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LEGEND:

- PROPERTY BOUNDARY (FORMER MIDLAND-ROSS FACILITY)
- PROPOSED EXCAVATION AREA (AOC MR-8)
- FORMER JANEWAY-CARPENTER BUILDING CONCRETE SLAB REMOVAL AREA
- AMS-1 PROPOSED AIR MONITORING STATION LOCATION



SOURCE MAP REFERENCE:
DRAWING TITLED "TOPOGRAPHIC SURVEY, BLOCK 170, LOTS 5 & 6, BOROUGH OF HIGHLAND PARK, COUNTY OF MIDDLESEX, STATE OF NEW JERSEY" DATED 1/9/2017 BY MASER CONSULTING P.A., MOUNT ARLINGTON, NEW JERSEY, PROJECT NUMBER 16001990A

REV.	DATE	STATUS	PRPD BY	CHKD BY

WOOD PROJECT No. 3480170577
DRAWING: 3480170577-5200-RA00-0000

PREPARED/DATE: VMW 09/29/17
CHECKED/DATE: US 09/29/17

wood.

ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
200 AMERICAN METRO BLVD, SUITE 113
HAMILTON, NEW JERSEY 08619

FIGURE 1
PROPOSED PERIMETER AIR MONITORING STATION LOCATION
HONEYWELL - FORMER MIDLAND-ROSS SITE
HIGHLAND PARK, NEW JERSEY

**QUICK REFERENCE ACTION RESPONSE
TABLE FROM PERIMETER AIR
MONITORING PLAN**

Quick Reference Action Response Plan
Former Midland Ross Facility
Highland Park, NJ

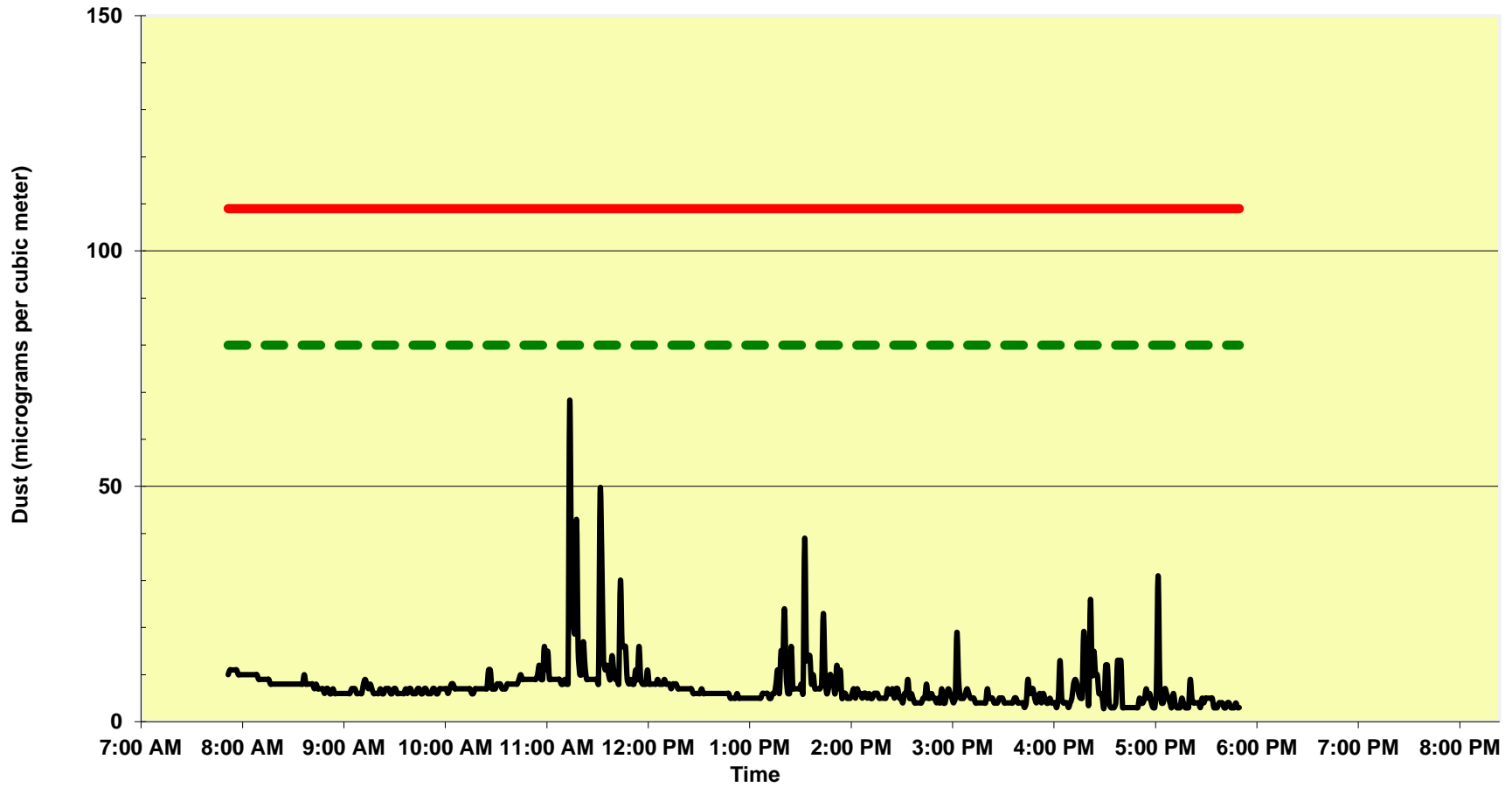
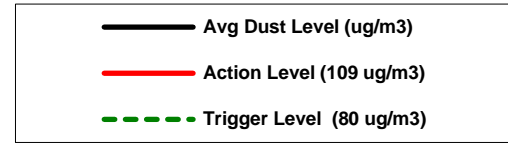
Quick Reference Action Response Plan

Acute Dust _{PM-10} Action Level	Action/Procedure
$\geq 109 \text{ ug/m}^3 + \text{Background}$ (duration of <u>less</u> than 5 minutes)	<ul style="list-style-type: none"> • The PAMPT will observe PM-10 concentrations at the location of the exceedance. Make notification to SHSO. The PAMT and SHSO will attempt to identify the source of the PM-10 emissions. The SHSO will make preparations to address the source. • Continue to observe PM-10 emissions.
$\geq 109 \text{ ug/m}^3 + \text{Background}$ (duration of <u>more</u> than 5 minutes)	<ul style="list-style-type: none"> • Document the time and PM-10 level within the air monitoring log or field log book. Prepare to collect confirmatory sample. • Implement use of engineering control measures if PM is sustained above 109 ug/m^3 for more than 5 minutes. • Continue to observe PM-10 emissions.
$\geq 109 \text{ ug/m}^3 + \text{Background}$ (duration of <u>more</u> than 15 minutes)	<ul style="list-style-type: none"> • Cease intrusive activities. Document the time and PM-10 level within the air monitoring log or field log book. • Collect confirmatory sample. • Re-evaluate work procedures and amend as appropriate. Continue monitoring and engineering control measures. • When PM-10 concentration falls below the Action Level (15 minute TWA), work may resume.
Visible dust	<ul style="list-style-type: none"> • Implement dust suppression measures (discretion of the PAMT).

CONSTRUCTION AIR MONITORING DATA

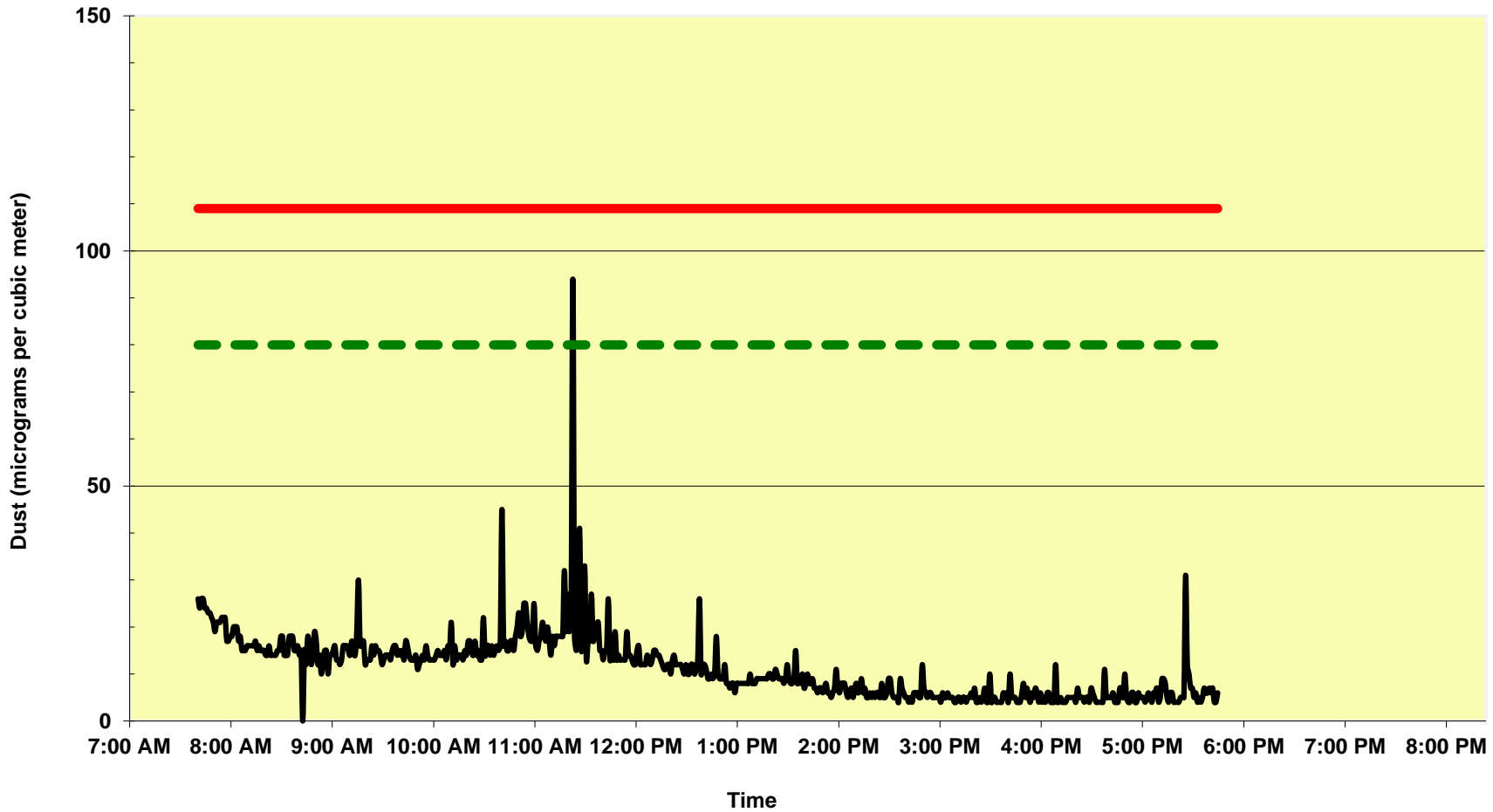
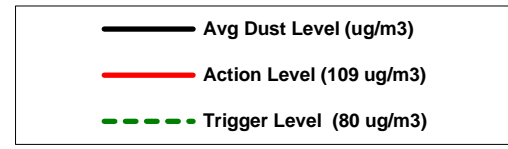
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 1 10/03/2018**

Air Monitoring Results



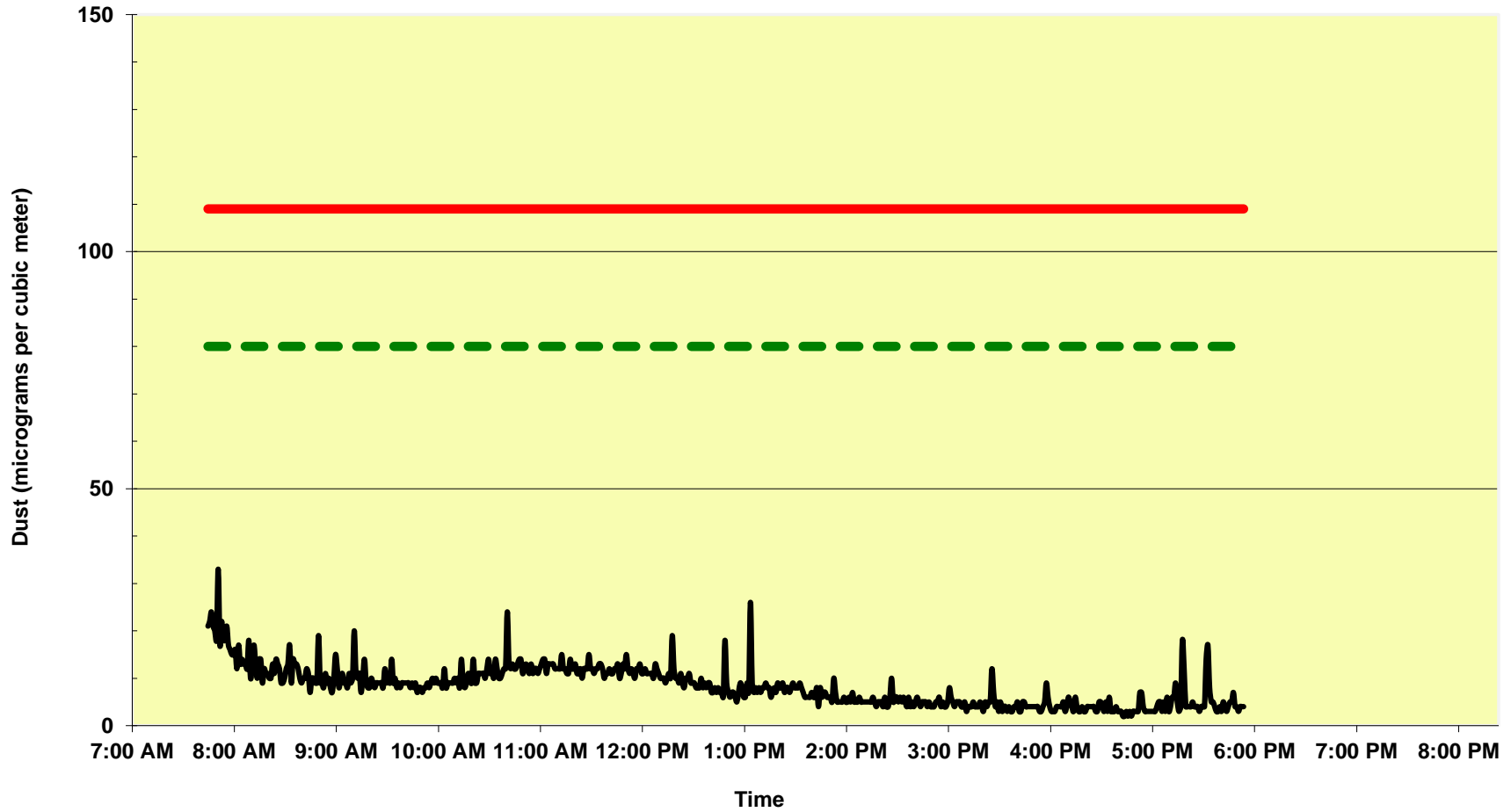
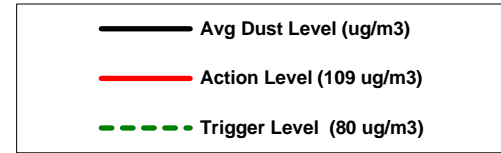
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 2 10/03/2018**

Air Monitoring Results



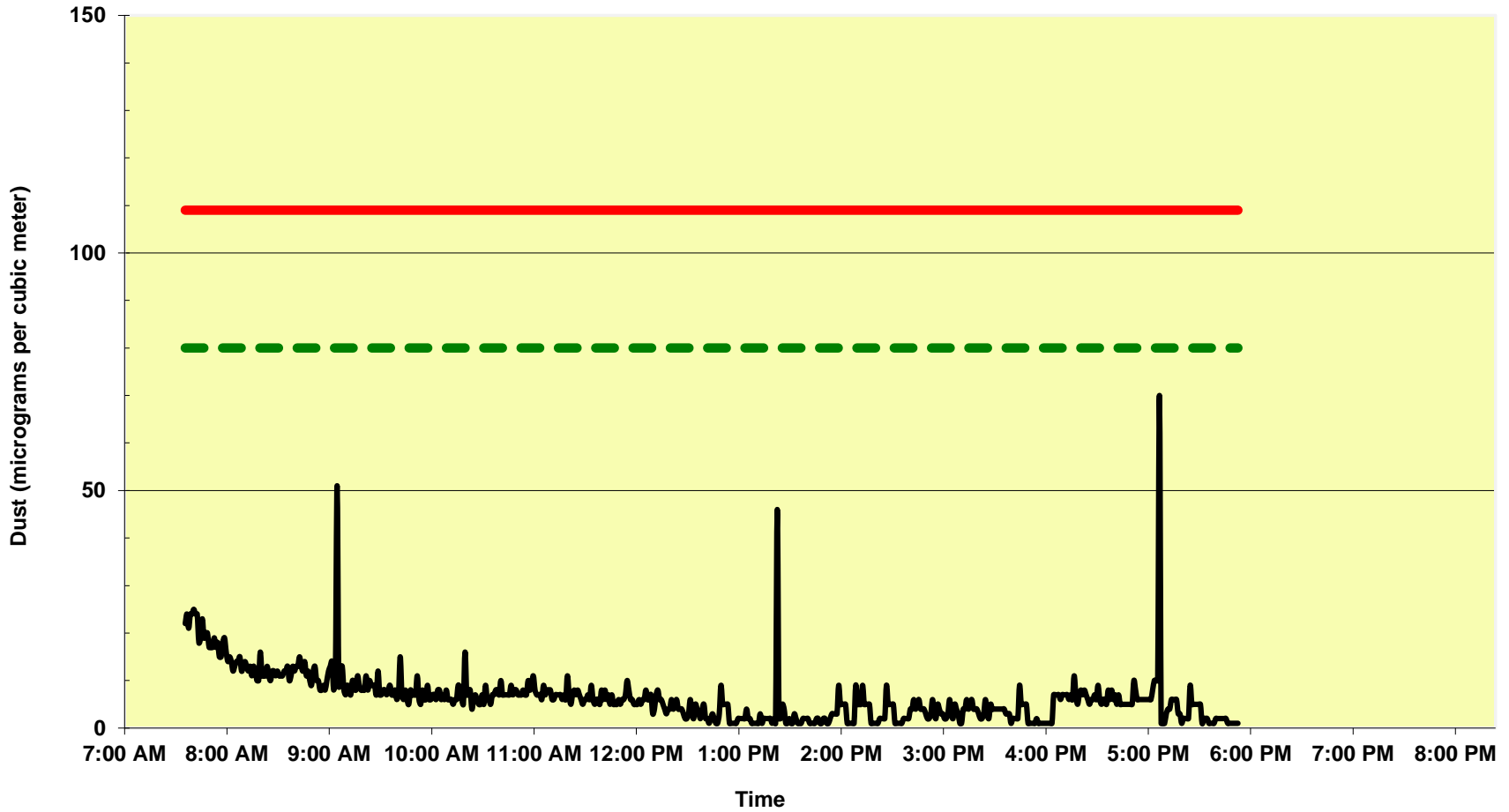
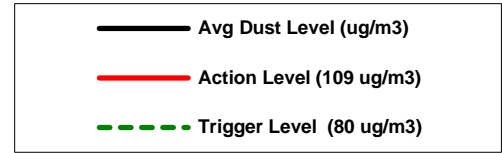
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 3 10/03/2018**

Air Monitoring Results



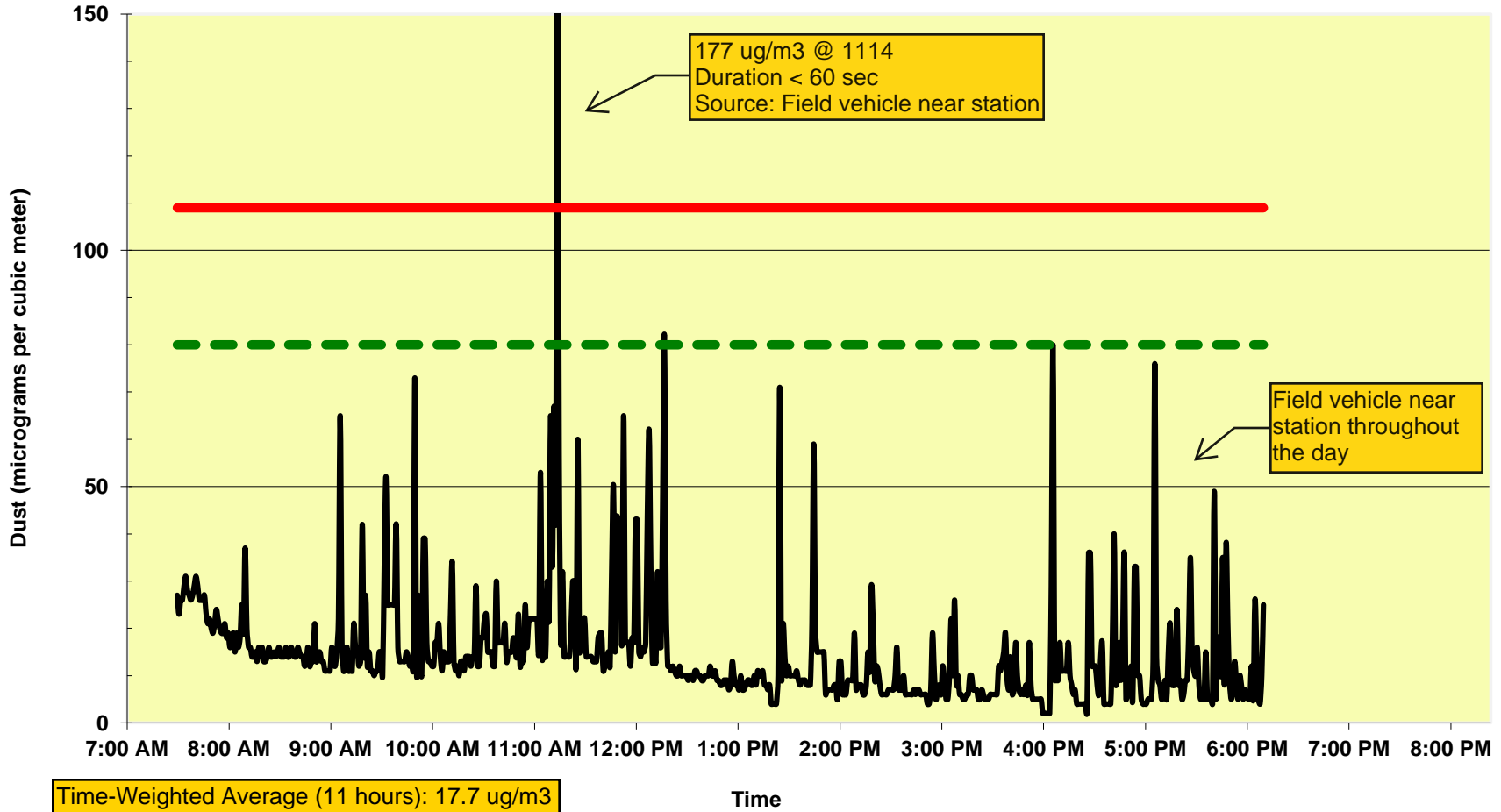
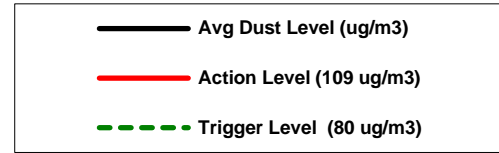
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 4 10/03/2018**

Air Monitoring Results



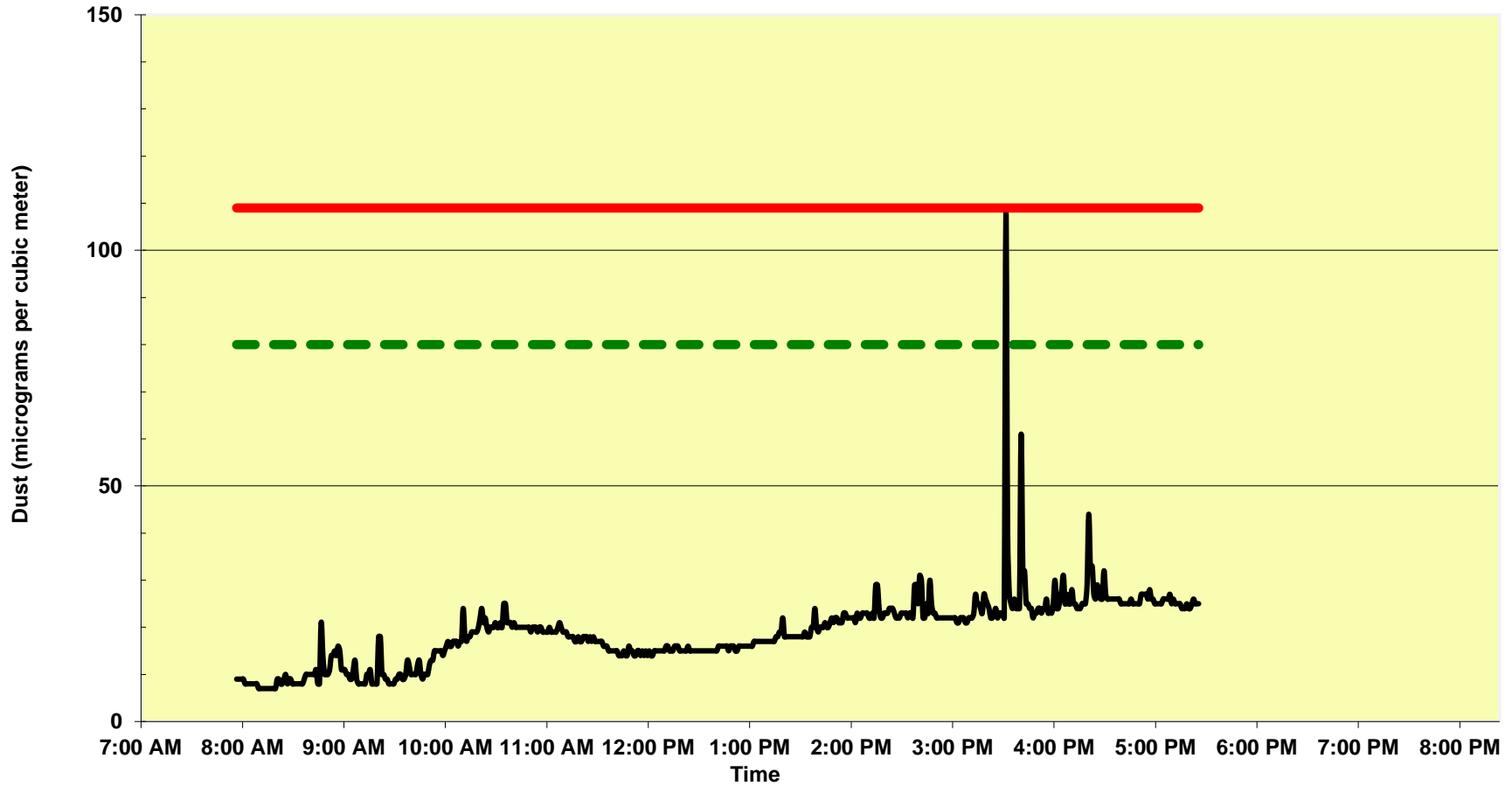
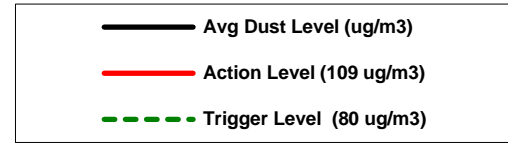
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 5 10/03/2018**

Air Monitoring Results



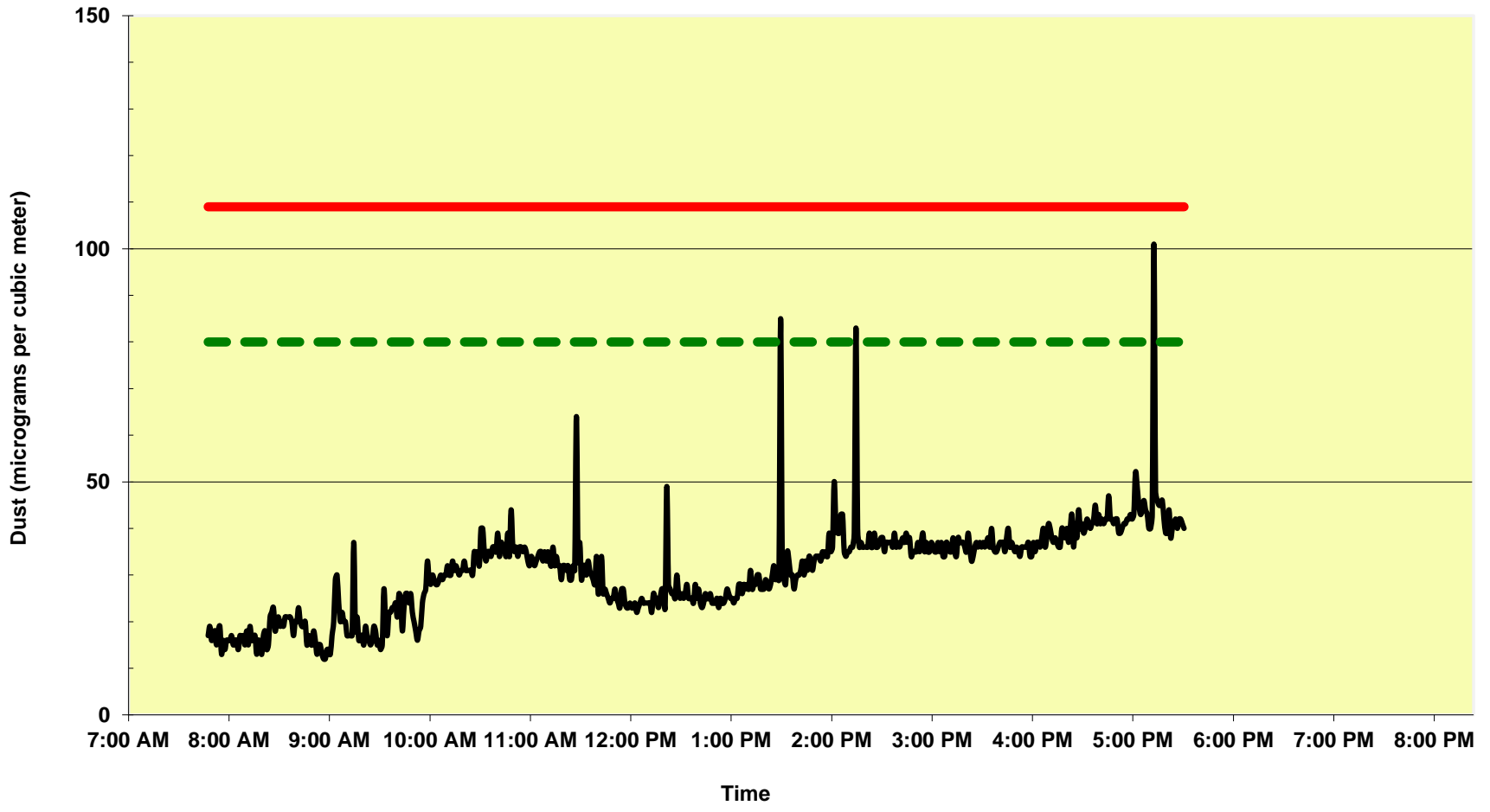
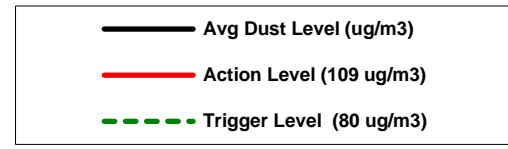
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 1 10/04/2018**

Air Monitoring Results



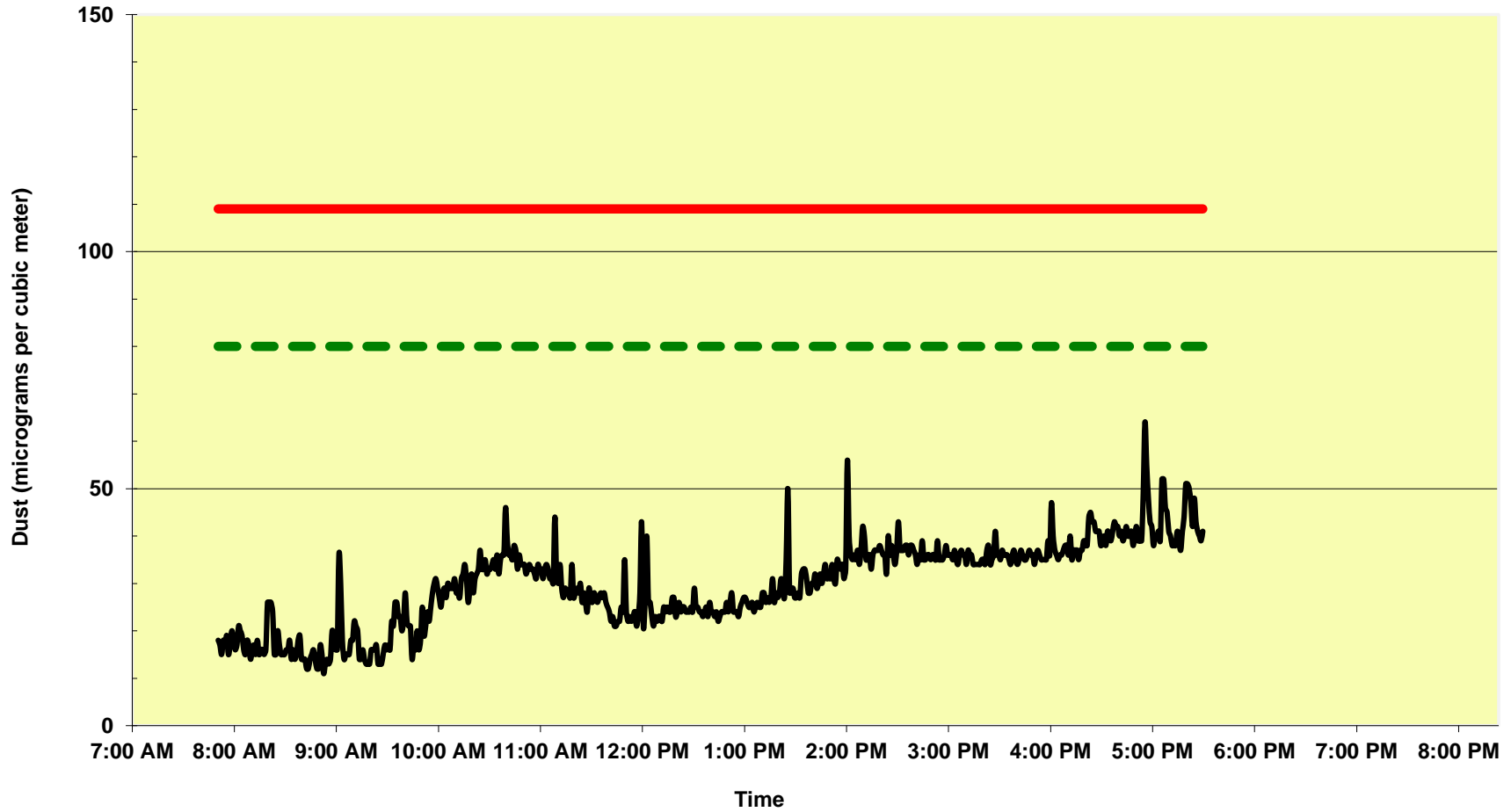
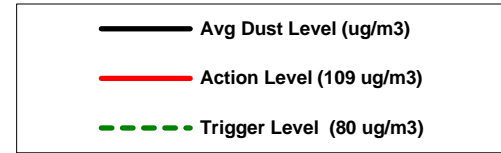
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 2 10/04/2018**

Air Monitoring Results



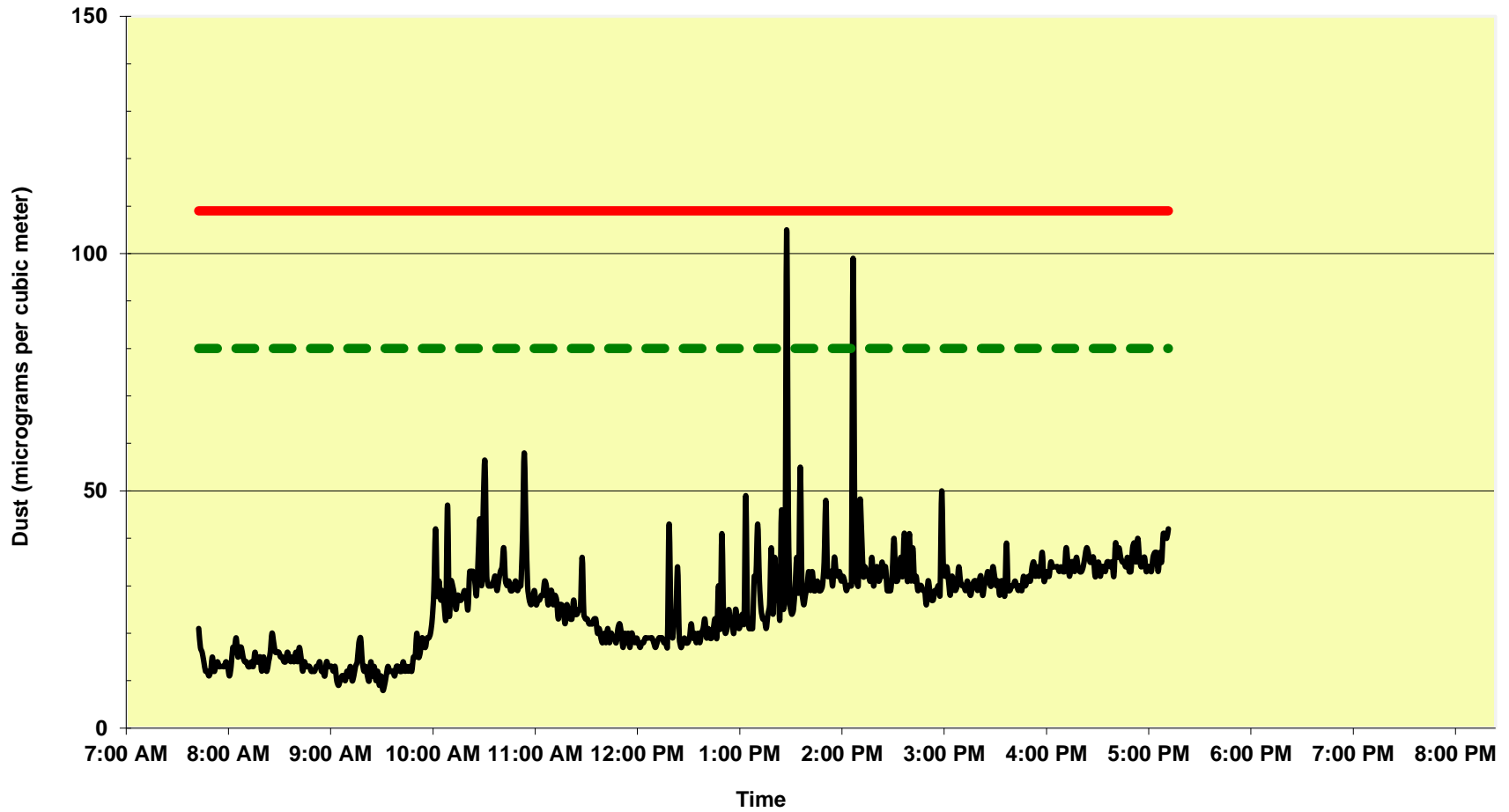
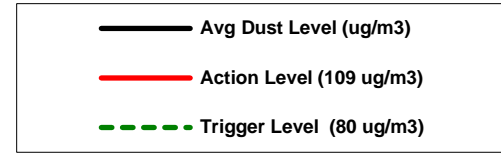
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 3 10/04/2018**

Air Monitoring Results



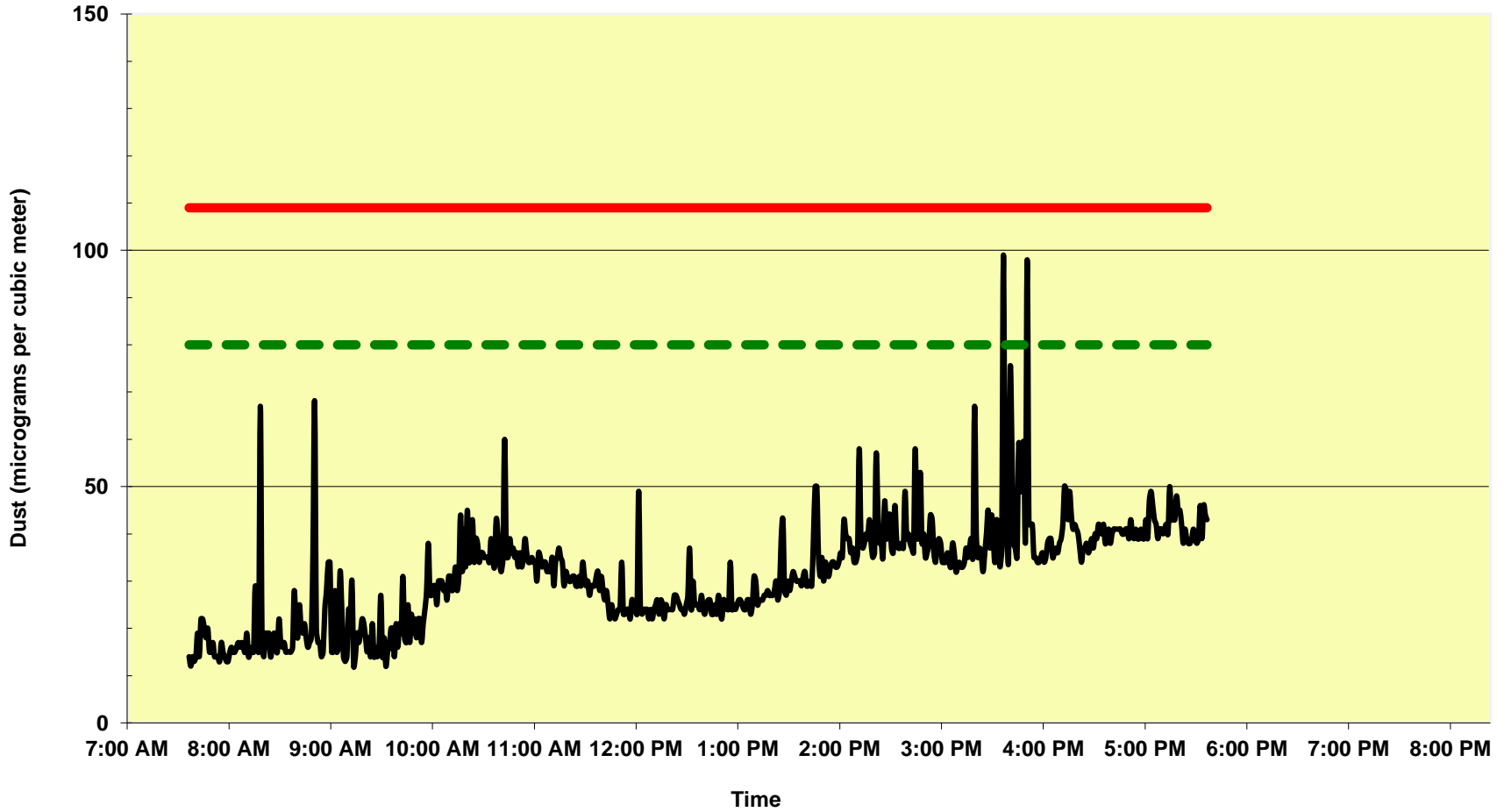
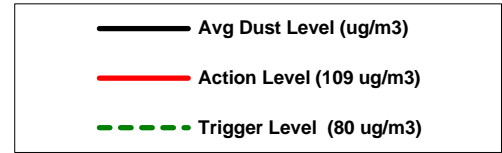
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 4 10/04/2018**

Air Monitoring Results



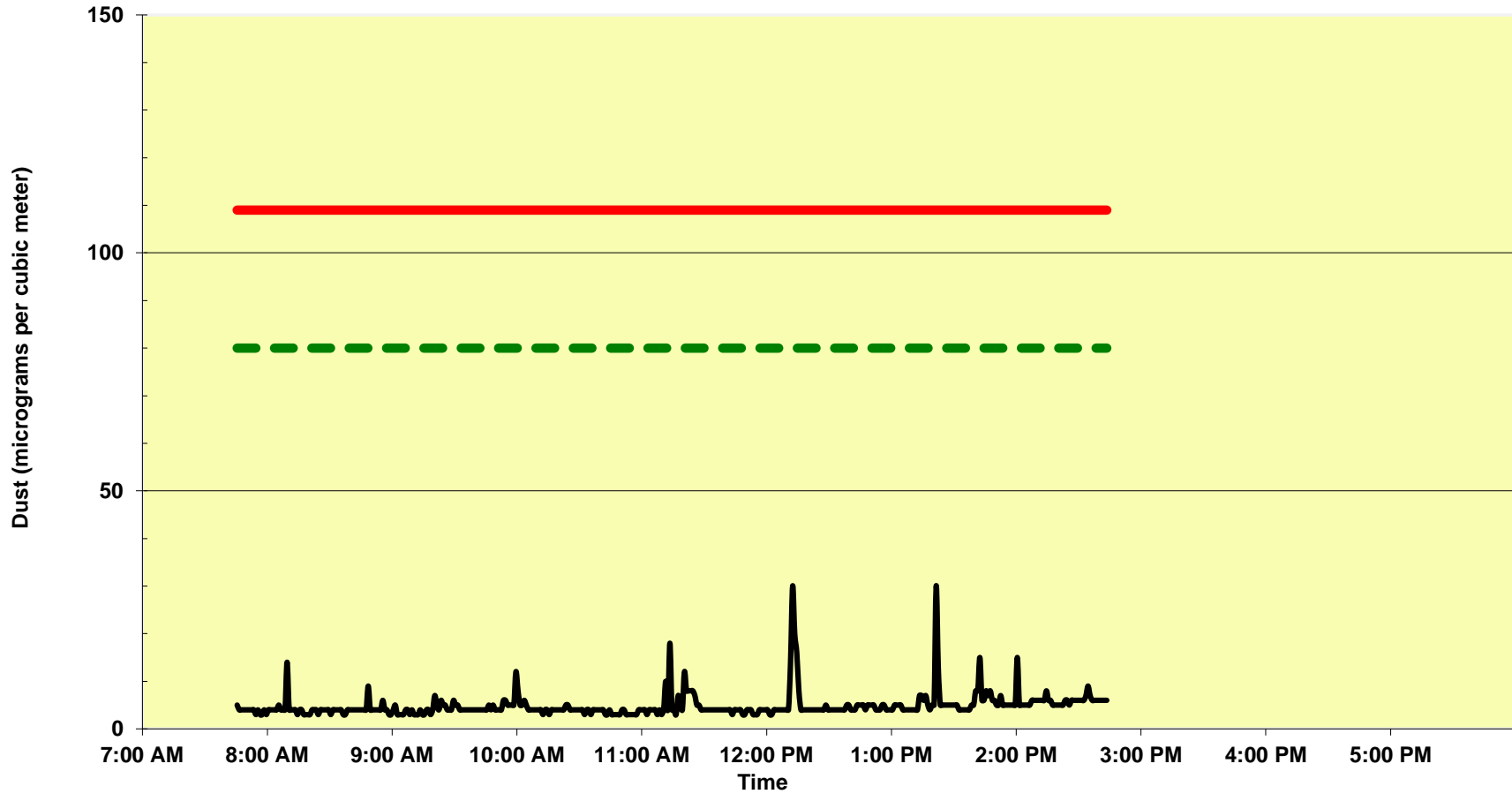
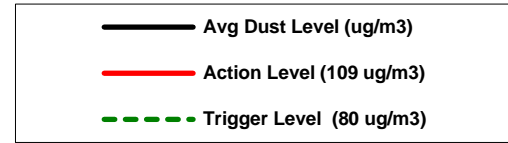
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 5 10/04/2018**

Air Monitoring Results



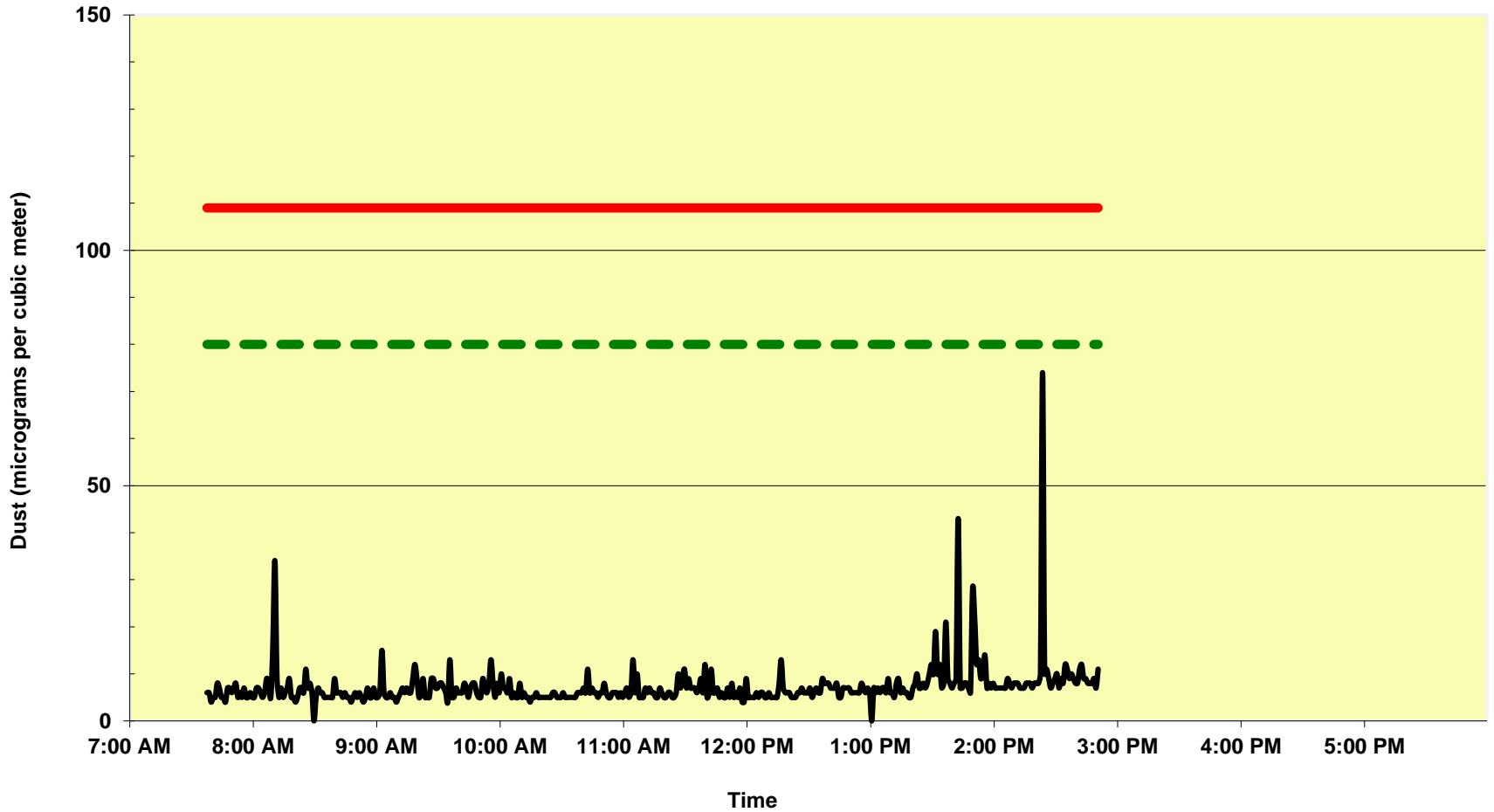
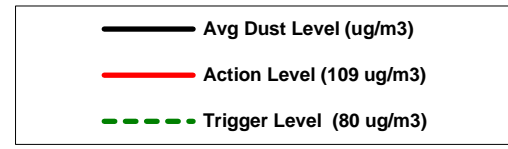
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 1 10/05/2018**

Air Monitoring Results



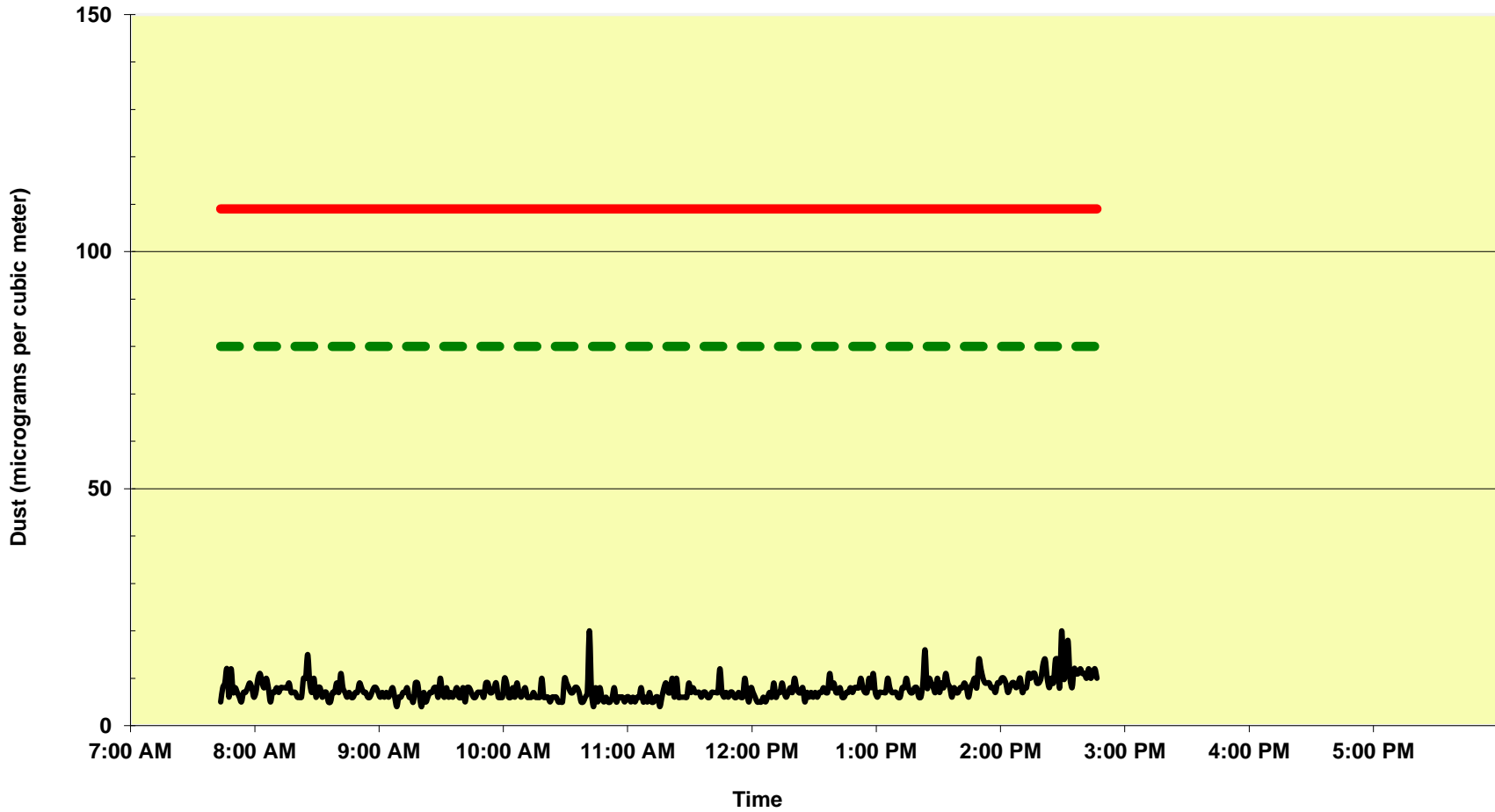
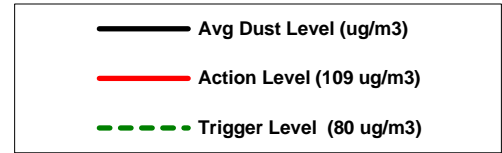
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 2 10/05/2018**

Air Monitoring Results



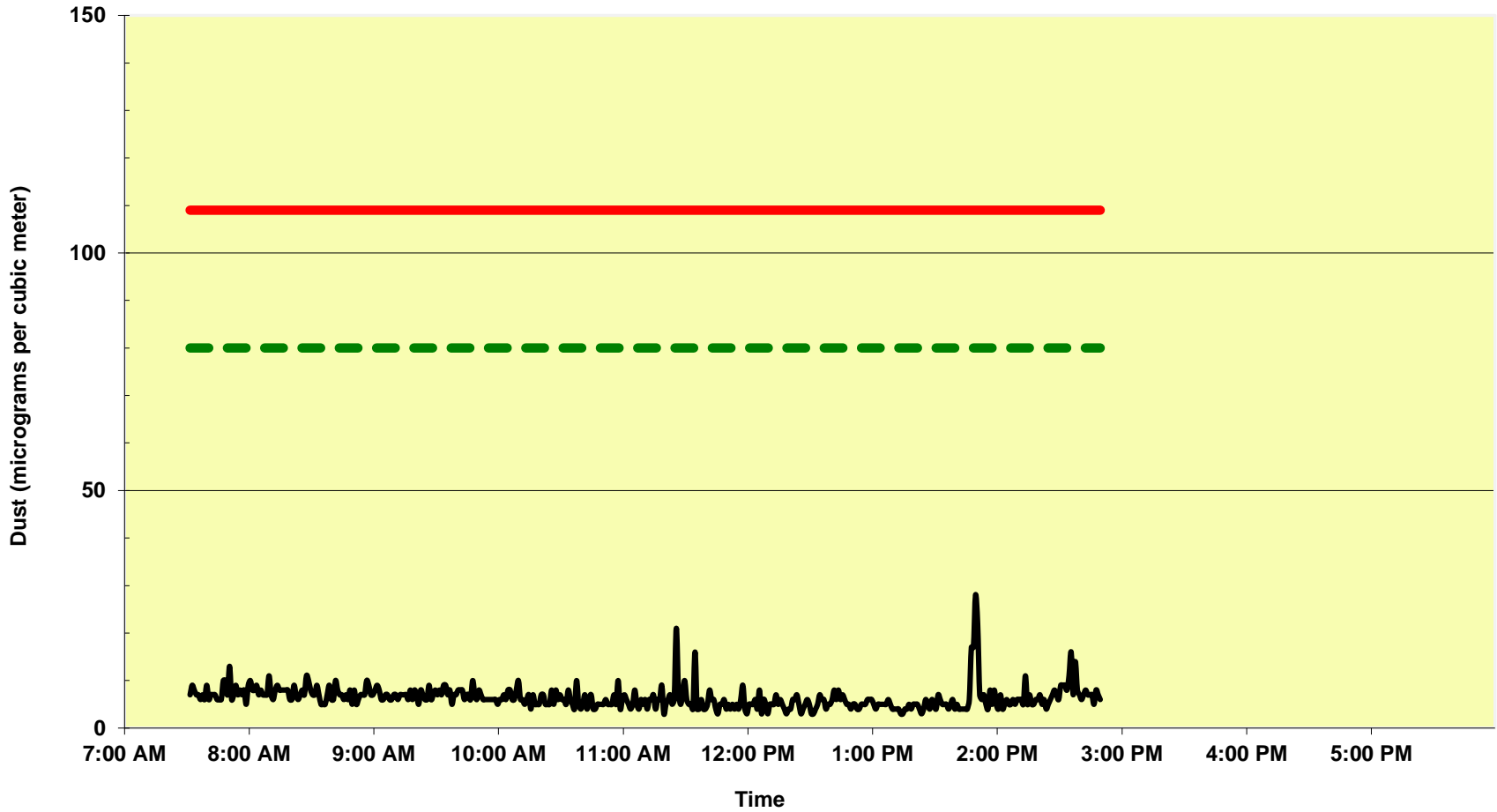
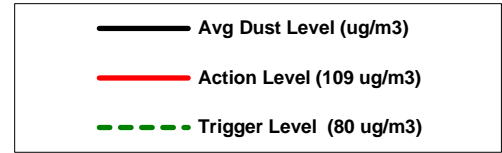
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 3 10/05/2018**

Air Monitoring Results



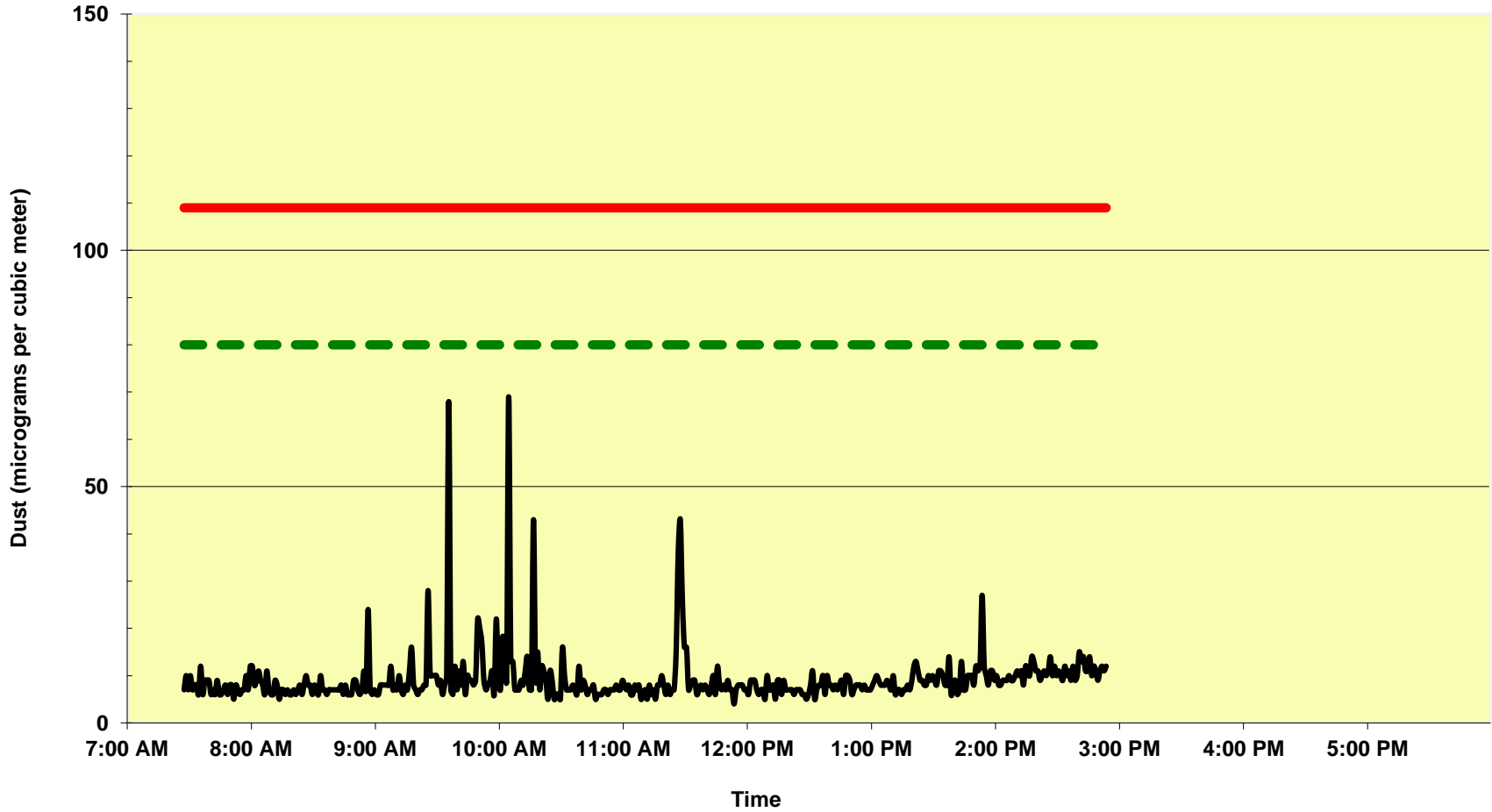
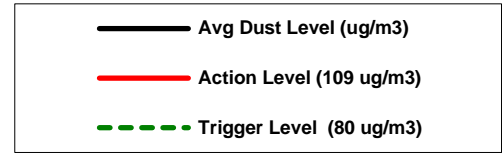
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 4 10/05/2018**

Air Monitoring Results



**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 5 10/05/2018**

Air Monitoring Results



LABORATORY AIR SAMPLE RESULTS

PAMP METALS, PAHs, VOCs, SAMPLES ANALYTICAL RESULTS
 HONEYWELL HIGHLAND PARK
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45620 AMS- 5-100418 4:00PM	Units	Qualifier
Metals					
Copper	7440-50-8	0.49	0.00032	mg/m3 Filter ¹	U
Lead	7439-92-1	0.00049	0.000065	mg/m3 Filter ¹	U
PAHs					
Anthracene	120-12-7	31	0.027	ug/m3 PUF	U
Phenanthrene	85-01-8	310	0.060	ug/m3 PUF	
Pyrene	129-00-0	310	0.027	ug/m3 PUF	U
Fluoranthene	206-44-0	310	0.027	ug/m3 PUF	U
Acenaphthylene	208-96-8	310	0.027	ug/m3 PUF	U
Naphthalene	91-20-3	14.6	0.11	ug/m3 PUF	
Fluorene	86-73-7	310	0.027	ug/m3 PUF	U
Acenaphthene	83-32-9	310	0.027	ug/m3 PUF	U
Benzo[a]anthracene	56-55-3	0.3	0.027	ug/m3 PUF	U
Indeno[1,2,3-cd]pyrene	193-39-5	3.1	0.027	ug/m3 PUF	U
Dibenz(a,h)anthracene	53-70-3	0.3	0.027	ug/m3 PUF	U
Benzo[g,h,i]perylene	191-24-2	31	0.027	ug/m3 PUF	U
Benzo[a]pyrene	50-32-8	3.1	0.027	ug/m3 PUF	U
Chrysene	218-01-9	31	0.027	ug/m3 PUF	U
Benzo[b]fluoranthene	205-99-2	3.1	0.027	ug/m3 PUF	U
Benzo[k]fluoranthene	207-08-9	3.1	0.027	ug/m3 PUF	U
VOCs					
m-Xylene & p-Xylene	179601-23-1	487	2	ug/m3	U
Ethylbenzene	100-41-4	4867	0.9	ug/m3	U
Chlorobenzene	108-90-7	4867	0.9	ug/m3	U
Bromoform	75-25-2	310	2	ug/m3	U
1,1,2,2-Tetrachloroethane	79-34-5	5.9	1	ug/m3	U
o-Xylene	95-47-6	487	0.9	ug/m3	U

¹ Denotes a revised unit (1/2/19)

PAMP METALS, PAHs, VOCs, SAMPLES ANALYTICAL RESULTS
 HONEYWELL HIGHLAND PARK
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45620 AMS- 5-100418 4:00PM	Units	Qualifier
Styrene	100-42-5	4867	0.9	ug/m3	U
trans-1,3-Dichloropropene	10061-02-6	-	0.9	ug/m3	U
1,1,2-Trichloroethane	79-00-5	21.3	1	ug/m3	U
4-Methyl-2-pentanone (MIBK)	108-10-1	14600	2	ug/m3	U
Toluene	108-88-3	24333	8	ug/m3	
Ethylene Dibromide	106-93-4	3.9	2	ug/m3	U
Chlorodibromomethane	124-48-1	12.6	2	ug/m3	U
Tetrachloroethene	127-18-4	195	1	ug/m3	U
1,2,4-Trichlorobenzene	120-82-1	9.7	4	ug/m3	U
Hexachlorobutadiene	87-68-3	15.5	2	ug/m3	U
Ethanol	64-17-5	-	64	ug/m3	
Naphthalene	91-20-3	14.6	3	ug/m3	U
1,2,4-Trimethylbenzene	95-63-6	-	1	ug/m3	U
2-Chlorotoluene	95-49-8	-	1	ug/m3	U
4-Ethyltoluene	622-96-8	-	1	ug/m3	U
1,3,5-Trimethylbenzene	108-67-8	-	1	ug/m3	U
1,2-Dichlorobenzene	95-50-1	973	1	ug/m3	U
1,4-Dichlorobenzene	106-46-7	3893	1	ug/m3	U
1,3-Dichlorobenzene	541-73-1	-	1	ug/m3	U
Carbon disulfide	75-15-0	3407	2	ug/m3	U
3-Chloro-1-propene	107-05-1	-	2	ug/m3	U
Isopropyl alcohol	67-63-0	-	31	ug/m3	
1,1-Dichloroethene	75-35-4	973	0.8	ug/m3	U
Acetone	67-64-1	150867	25	ug/m3	
Methyl tert-butyl ether	1634-04-4	14600	0.7	ug/m3	U
trans-1,2-Dichloroethene	156-60-5	-	0.8	ug/m3	U
2-Methyl-2-propanol	75-65-0	-	15	ug/m3	U

PAMP METALS, PAHs, VOCs, SAMPLES ANALYTICAL RESULTS
 HONEYWELL HIGHLAND PARK
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45620 AMS- 5-100418 4:00PM	Units	Qualifier
Methylene Chloride	75-09-2	2920	11	ug/m3	
Vinyl chloride	75-01-4	487	0.5	ug/m3	U
Butadiene	106-99-0	-	0.6	ug/m3	
Chloromethane	74-87-3	-	2	ug/m3	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	487	1	ug/m3	U
Dichlorodifluoromethane	75-71-8	487	3	ug/m3	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	3407	2	ug/m3	U
Trichlorofluoromethane	75-69-4	-	2	ug/m3	
Vinyl bromide	593-60-2	24.3	0.9	ug/m3	U
Bromomethane	74-83-9	24.3	0.8	ug/m3	U
Chloroethane	75-00-3	48667	1	ug/m3	U
n-Heptane	142-82-5	-	2	ug/m3	
Trichloroethene	79-01-6	9.7	1	ug/m3	U
Isooctane	540-84-1	-	1	ug/m3	
1,2-Dichloroethane	107-06-2	1974	0.8	ug/m3	U
Benzene	71-43-2	14.6	3	ug/m3	
cis-1,3-Dichloropropene	10061-01-5	97.3	0.9	ug/m3	U
Dichlorobromomethane	75-27-4	9.2	1	ug/m3	U
1,4-Dioxane	123-91-1	146	18	ug/m3	U
1,2-Dichloropropane	78-87-5	19.5	0.9	ug/m3	U
Methyl methacrylate	80-62-6	-	2	ug/m3	U
2-Butanone (MEK)	78-93-3	24333	3	ug/m3	
cis-1,2-Dichloroethene	156-59-2	-	0.8	ug/m3	U
Hexane	110-54-3	-	5	ug/m3	
1,1-Dichloroethane	75-34-3	973	0.8	ug/m3	U
Cyclohexane	110-82-7	29200	2	ug/m3	
Carbon tetrachloride	56-23-5	195	1	ug/m3	U

PAMP METALS, PAHs, VOCs, SAMPLES ANALYTICAL RESULTS
 HONEYWELL HIGHLAND PARK
 HIGHLAND PARK, NEW JERSEY

Analyte	CAS Number	Criteria	200-45620 AMS- 5-100418 4:00PM	Units	Qualifier
1,1,1-Trichloroethane	71-55-6	4867	1	ug/m3	U
Tetrahydrofuran	109-99-9	-	15	ug/m3	U
Chloroform	67-66-3	1460	1	ug/m3	U

U -The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria.

N - The presumptive evidence of a compound.

H - Sample was prepped or analyzed beyond the specified holding time.

* - LCS or LCSD is outside acceptance limits.

* - RPD of the LCS and LCSD exceeds the control limits.

The concentration given is an approximate value.

-- No criteria available.

BOLD: Analyte detected in sample.

BOLD: Exceedance above the NJDEP Division of Air Quality Toxicity Values for Inhalation Exposure, October 2017.