



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: 08/07/2018 PROJECT NO.: 3480180606 PROJ. NAME: Honeywell Highland Park SUBJECT: Construction Air Monitoring Data for week of 060418 to 060818 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

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- FACSIMILE:

26 pages (including transmittal sheet)

COPIES	DATE	DESCRIPTION
1	06/08/18	Construction Air Monitoring Data

REMARKS:

The following data package includes the following from the week of 060418 to 060818

- Map displaying Air Monitoring Station locations
- Dust Monitoring Results
- Laboratory Air Sample Results

Note: Remedial action started on June 6, 2018

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

By: John Poserina, P.E.

 Direct Phone: (609) 631-2923

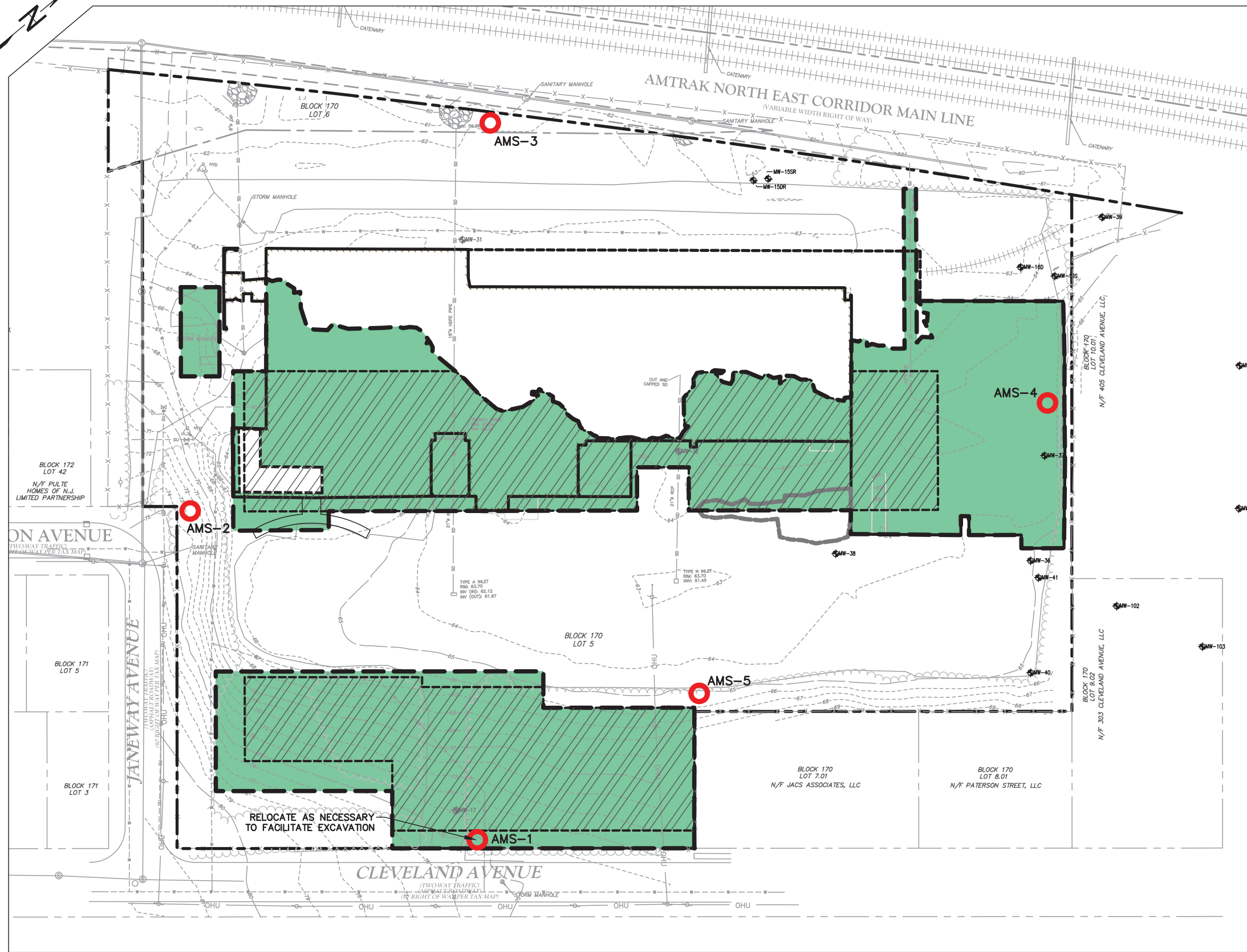
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If transmission is not received in good order, please call Project Coordinator at (610) 828-8100.

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

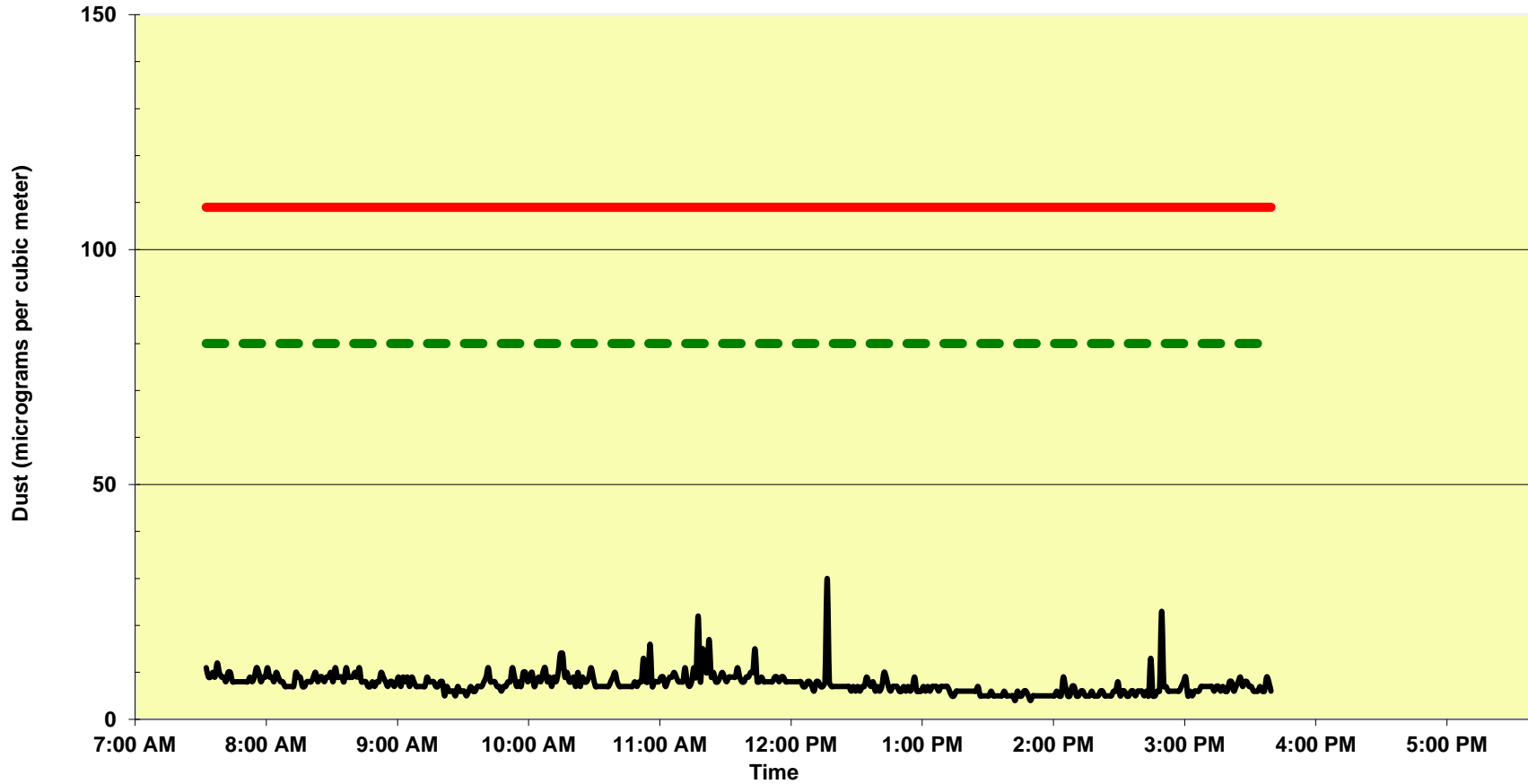
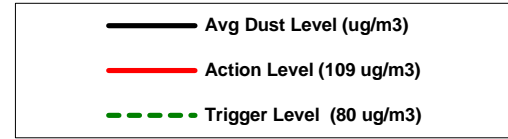
Quick Reference Action Response Plan

Acute Dust _{PM-10} Action Level	Action/Procedure
≥ 109 ug/m ³ + Background (duration of less 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.
≥ 109 ug/m ³ + Background (duration of more 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/m³ for more than 5 minutes. • Continue to observe PM-10 emissions.
≥ 109 ug/m ³ + Background (duration of more 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

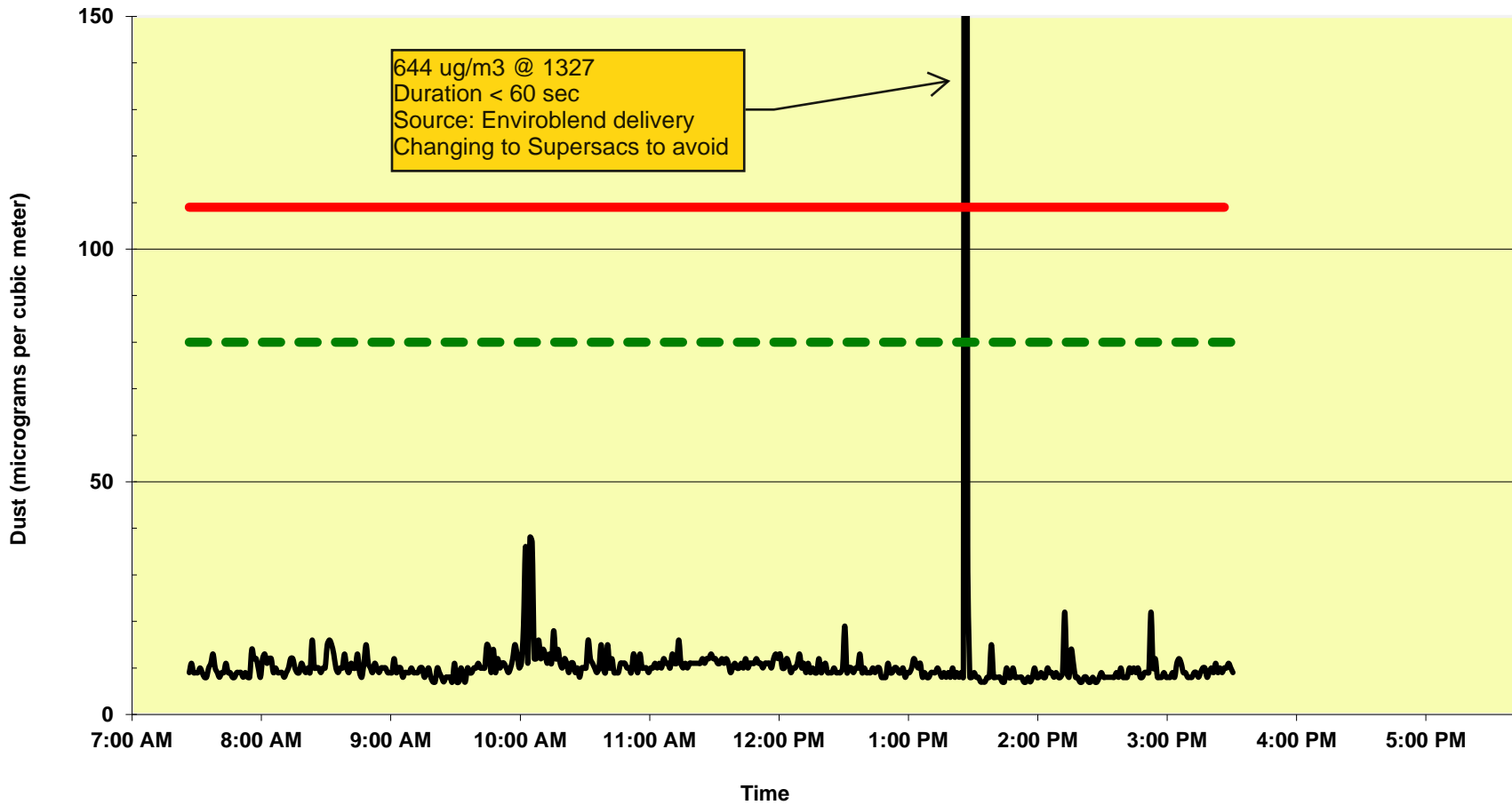
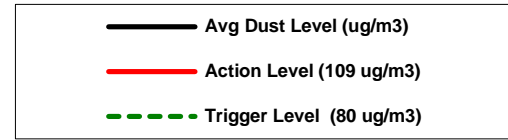
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 1 6/6/2018**

Air Monitoring Results



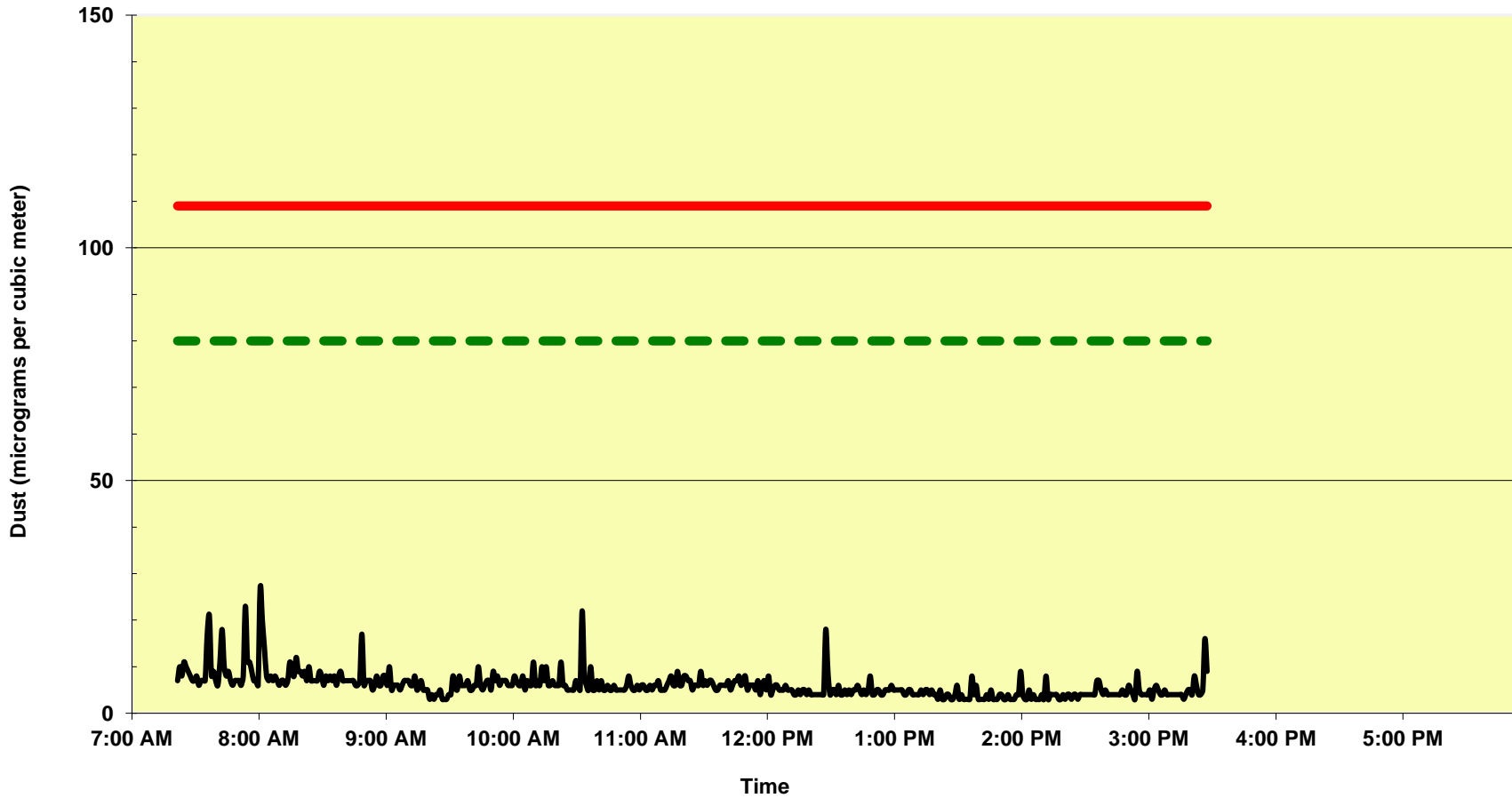
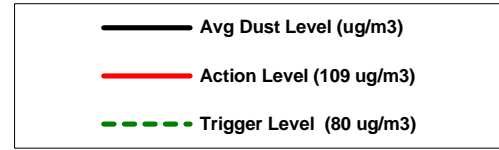
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 2 6/6/2018**

Air Monitoring Results



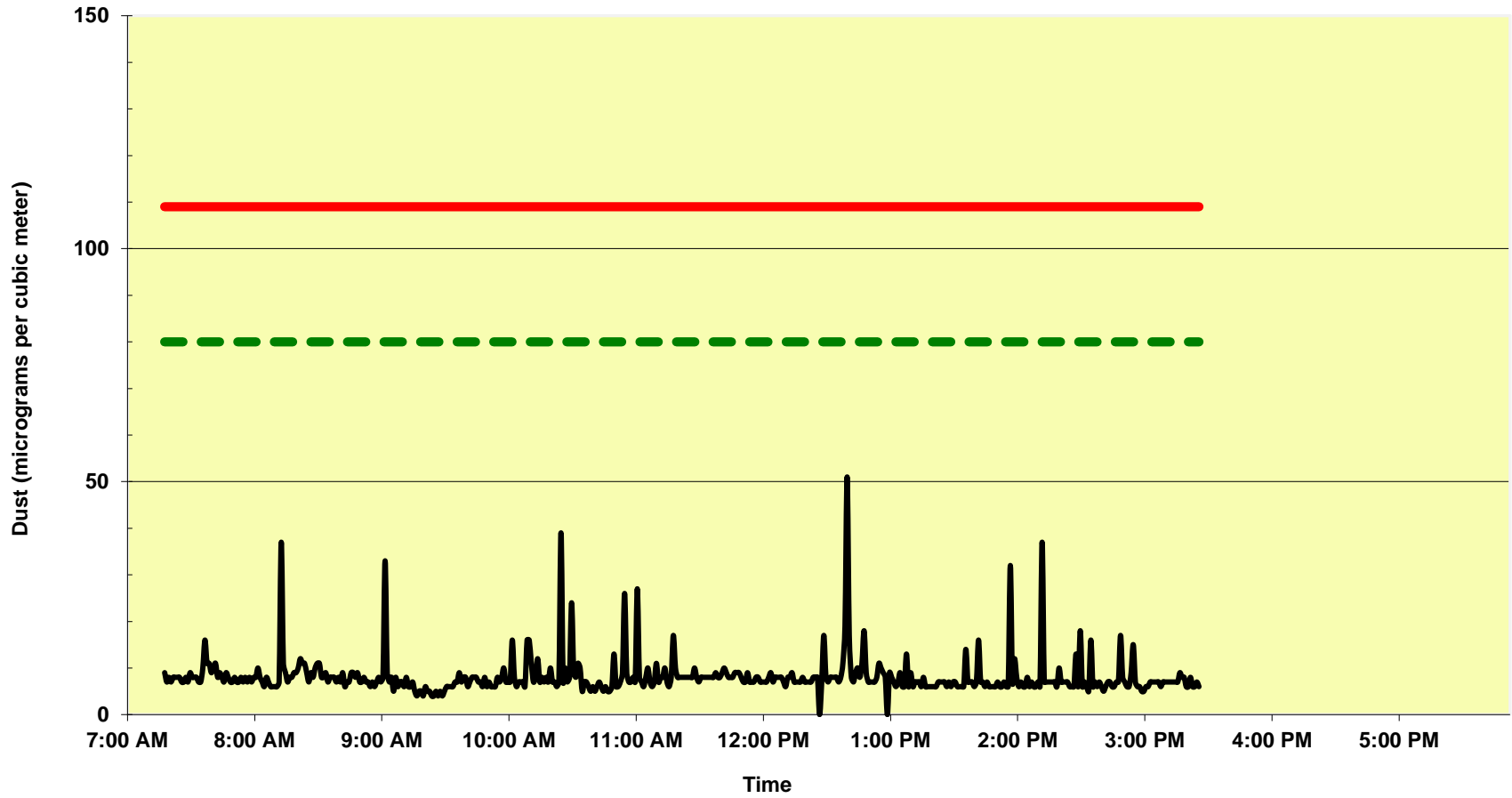
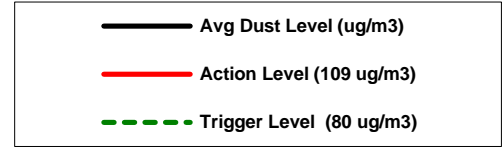
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 3 6/6/2018**

Air Monitoring Results



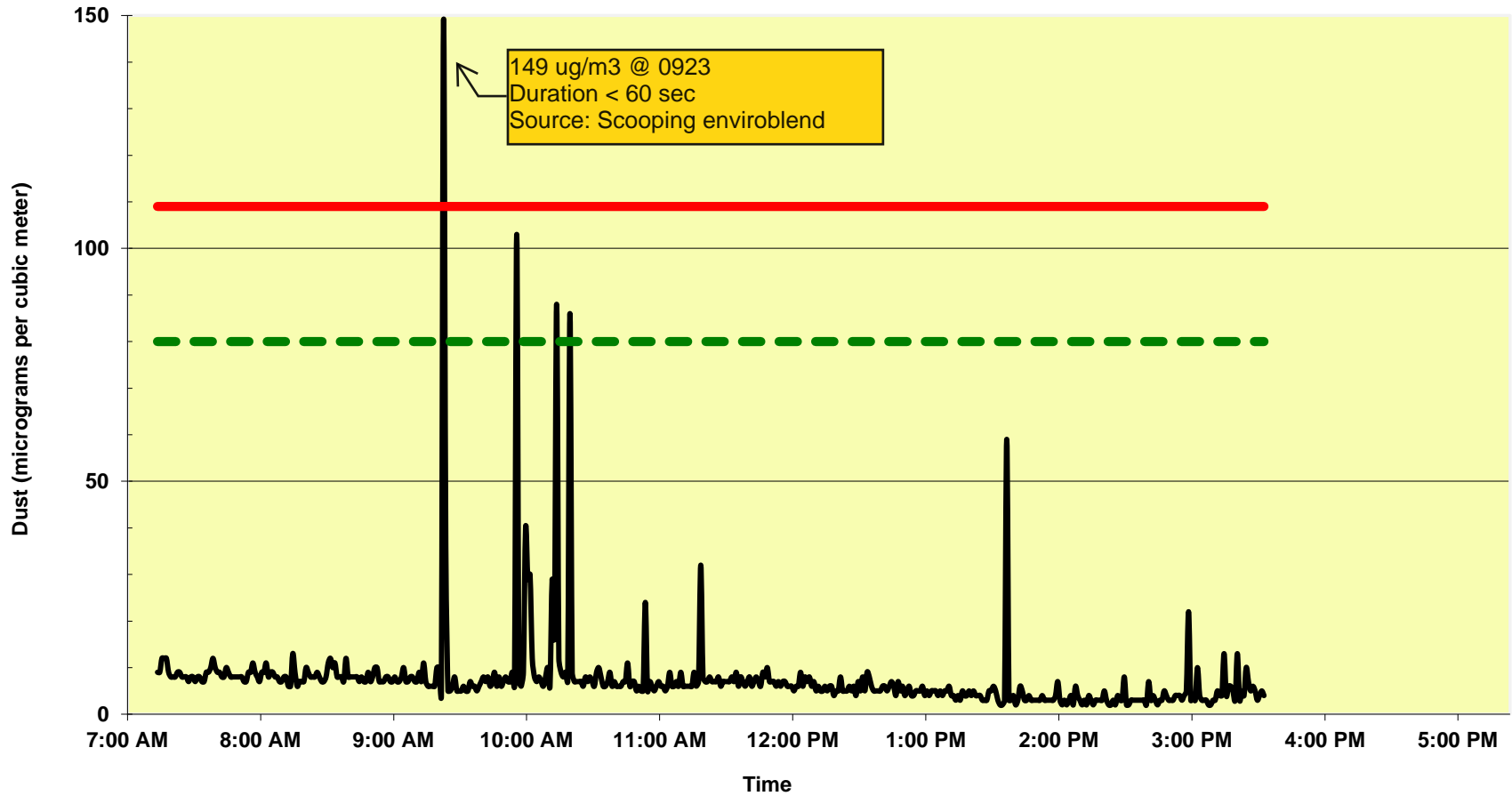
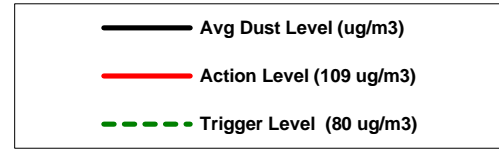
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 4 6/6/2018**

Air Monitoring Results



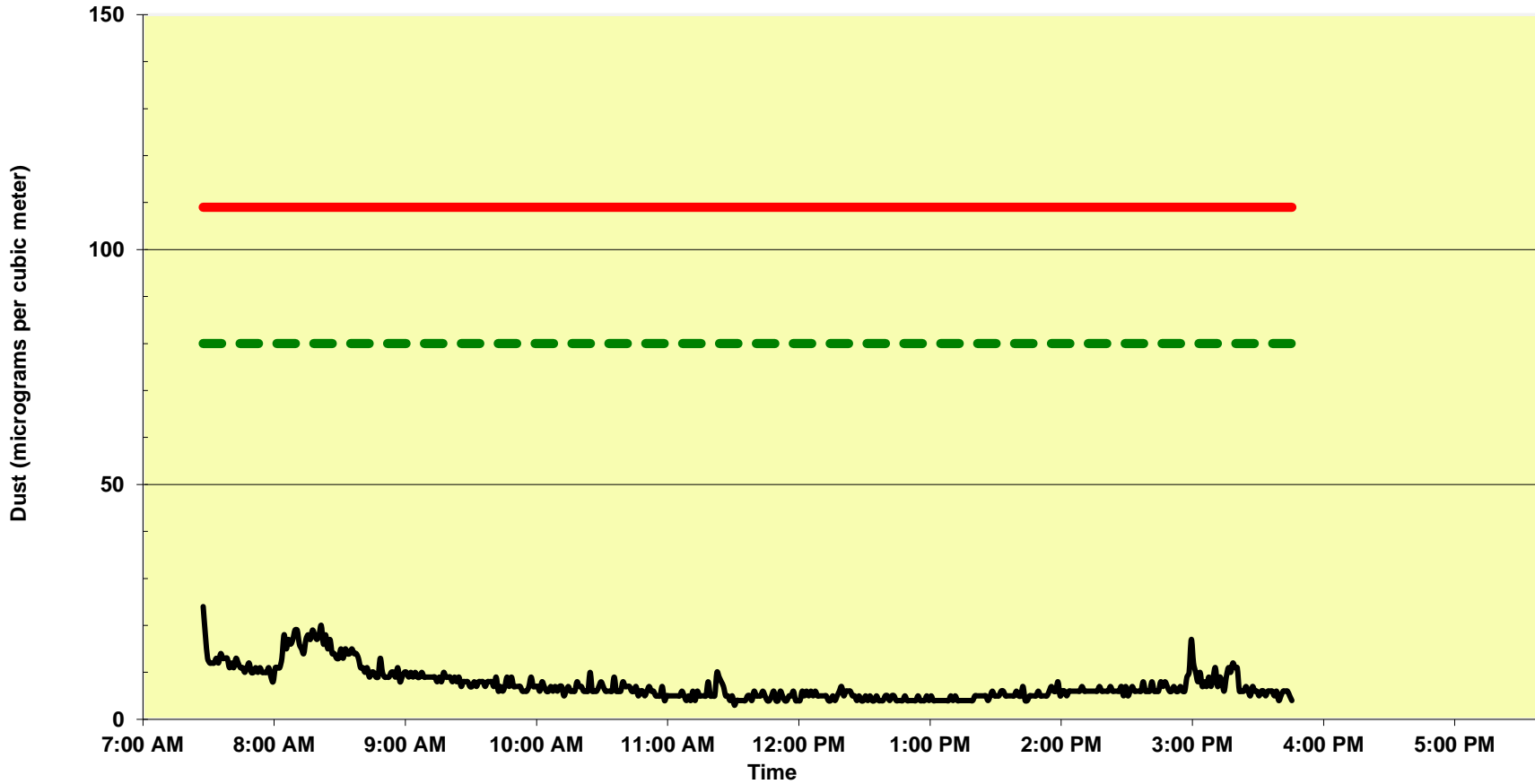
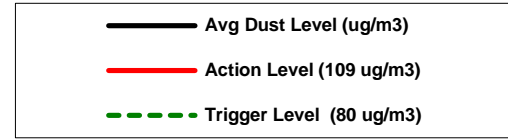
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 5 6/6/2018**

Air Monitoring Results



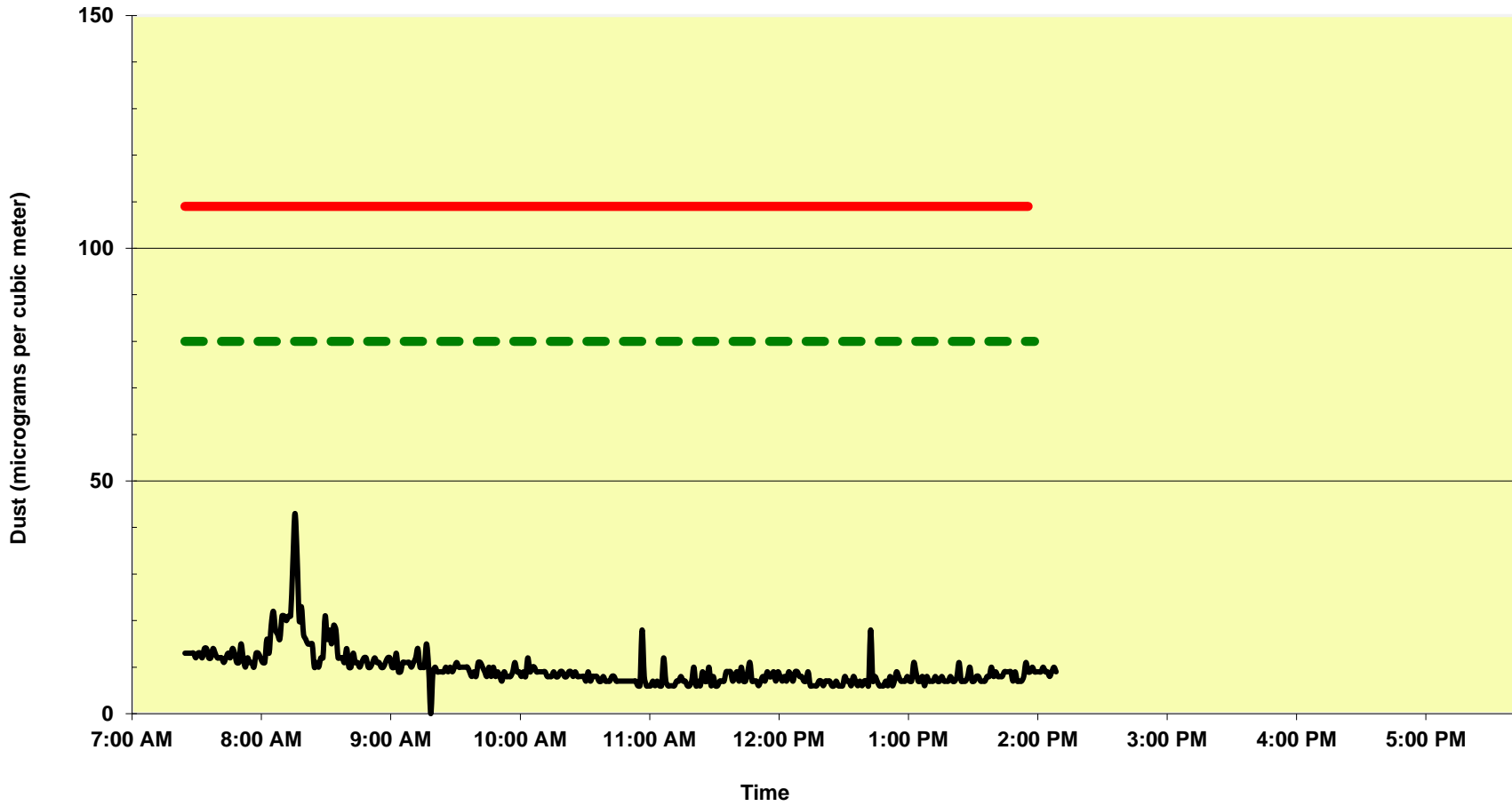
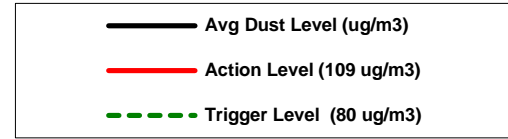
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 1 6/7/2018**

Air Monitoring Results



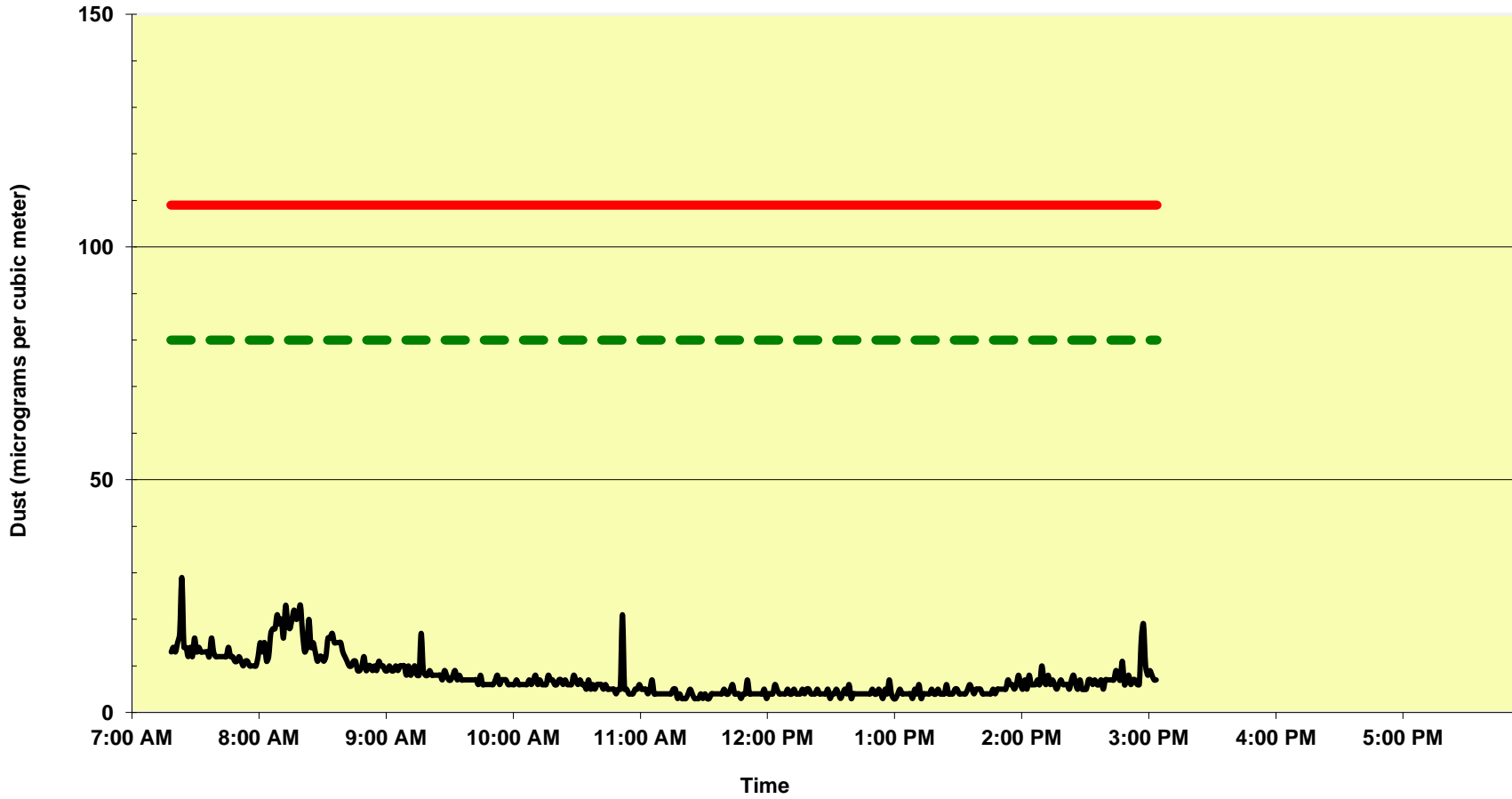
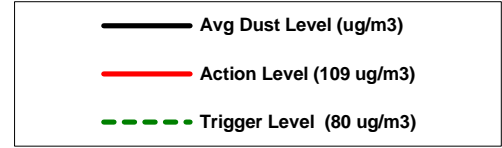
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 2 6/7/2018**

Air Monitoring Results



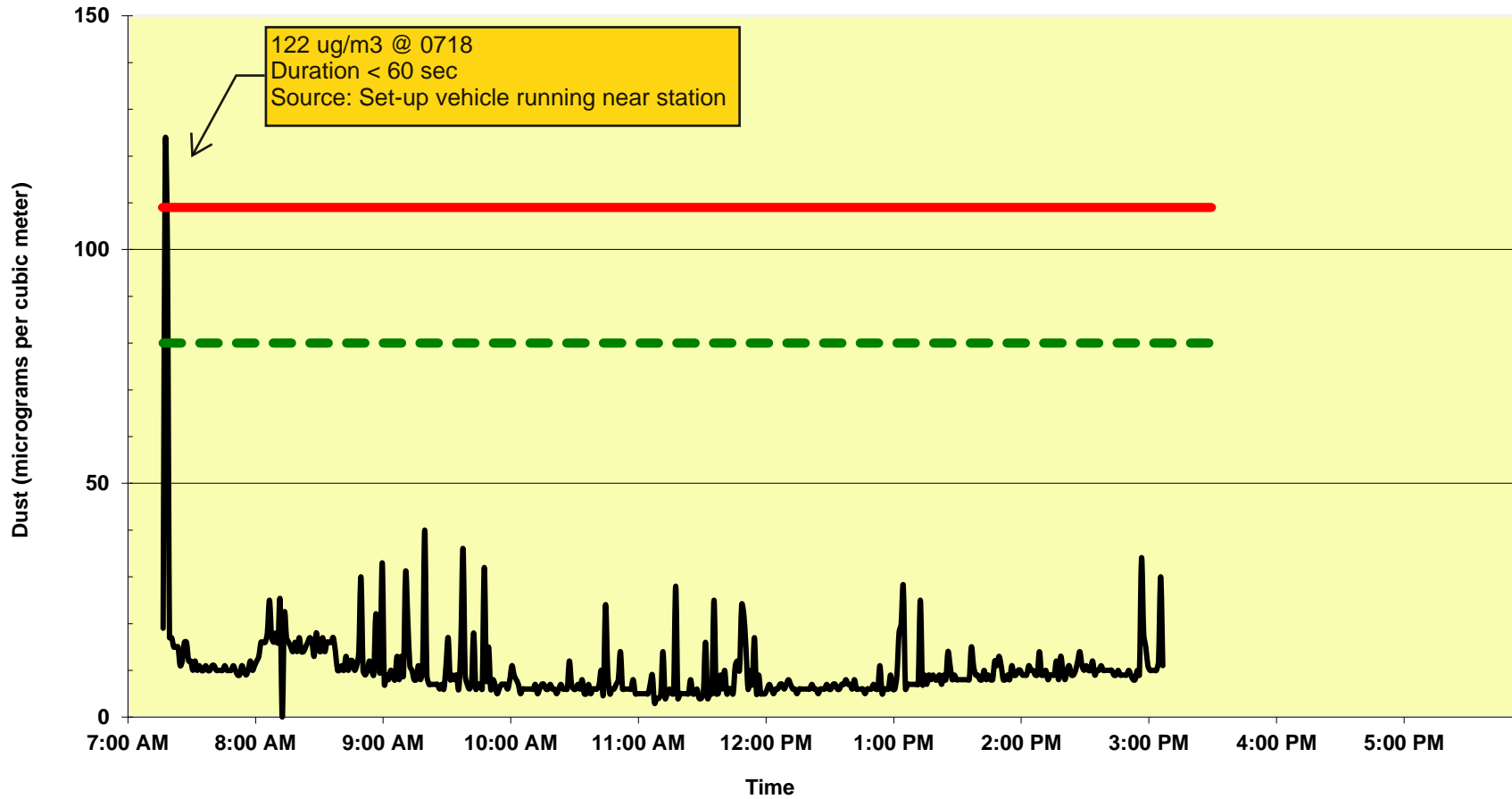
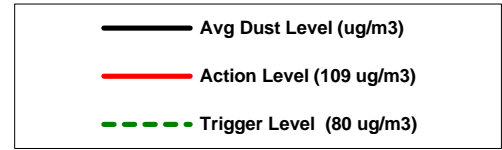
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 3 6/7/2018**

Air Monitoring Results



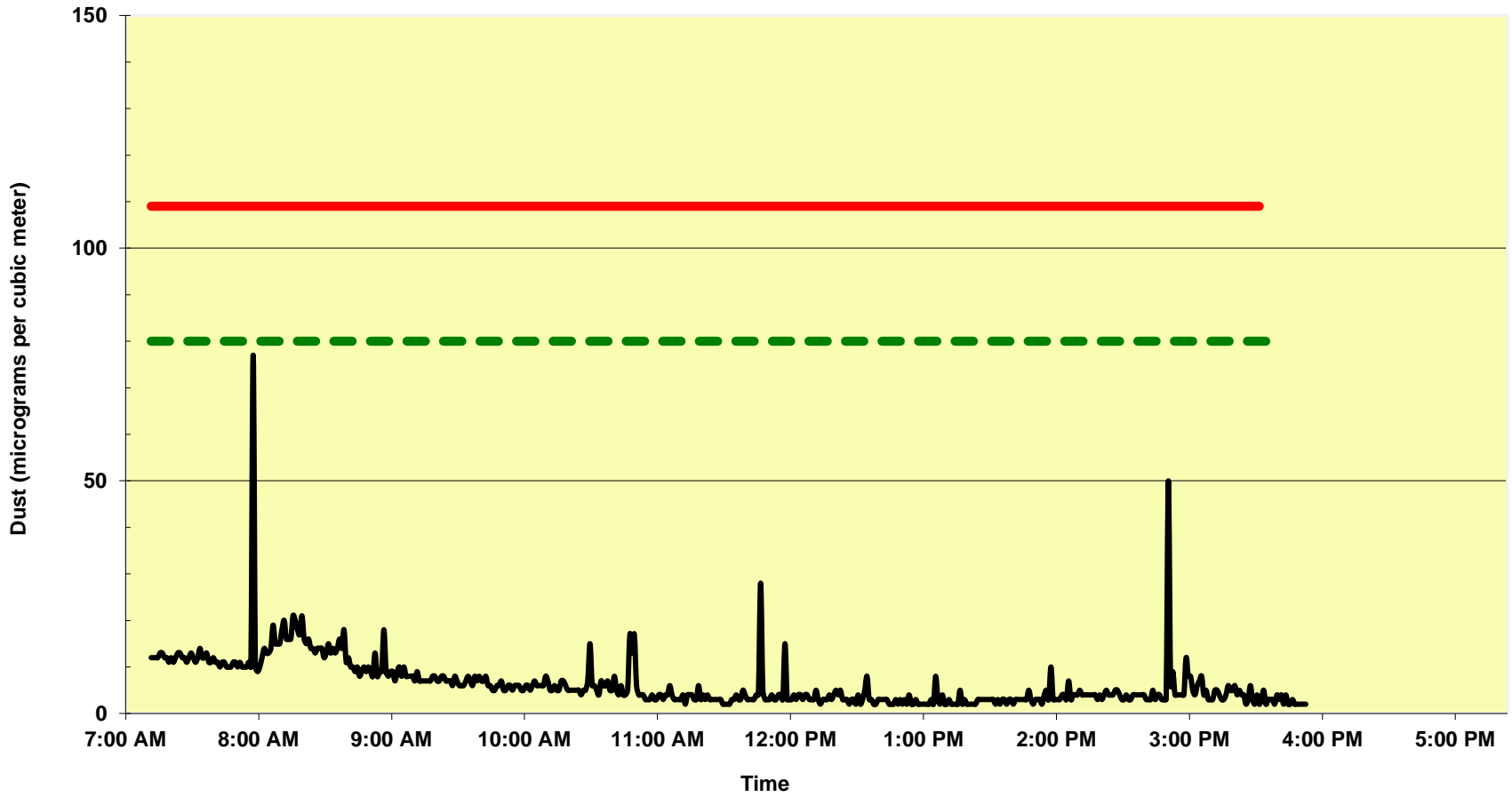
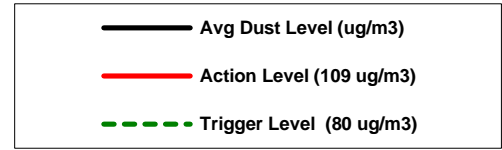
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 4 6/7/2018**

Air Monitoring Results



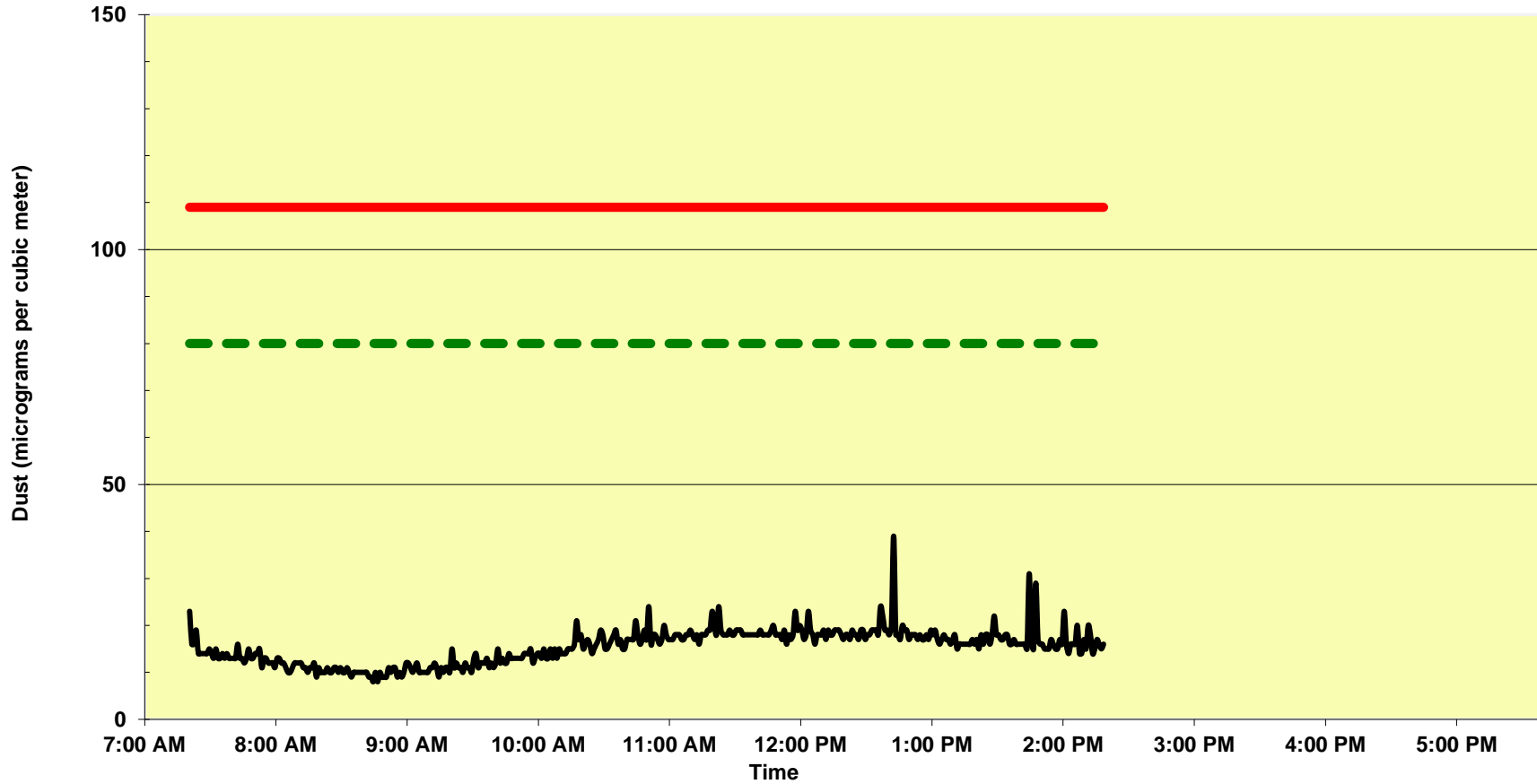
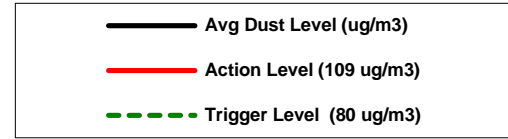
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 5 6/7/2018**

Air Monitoring Results



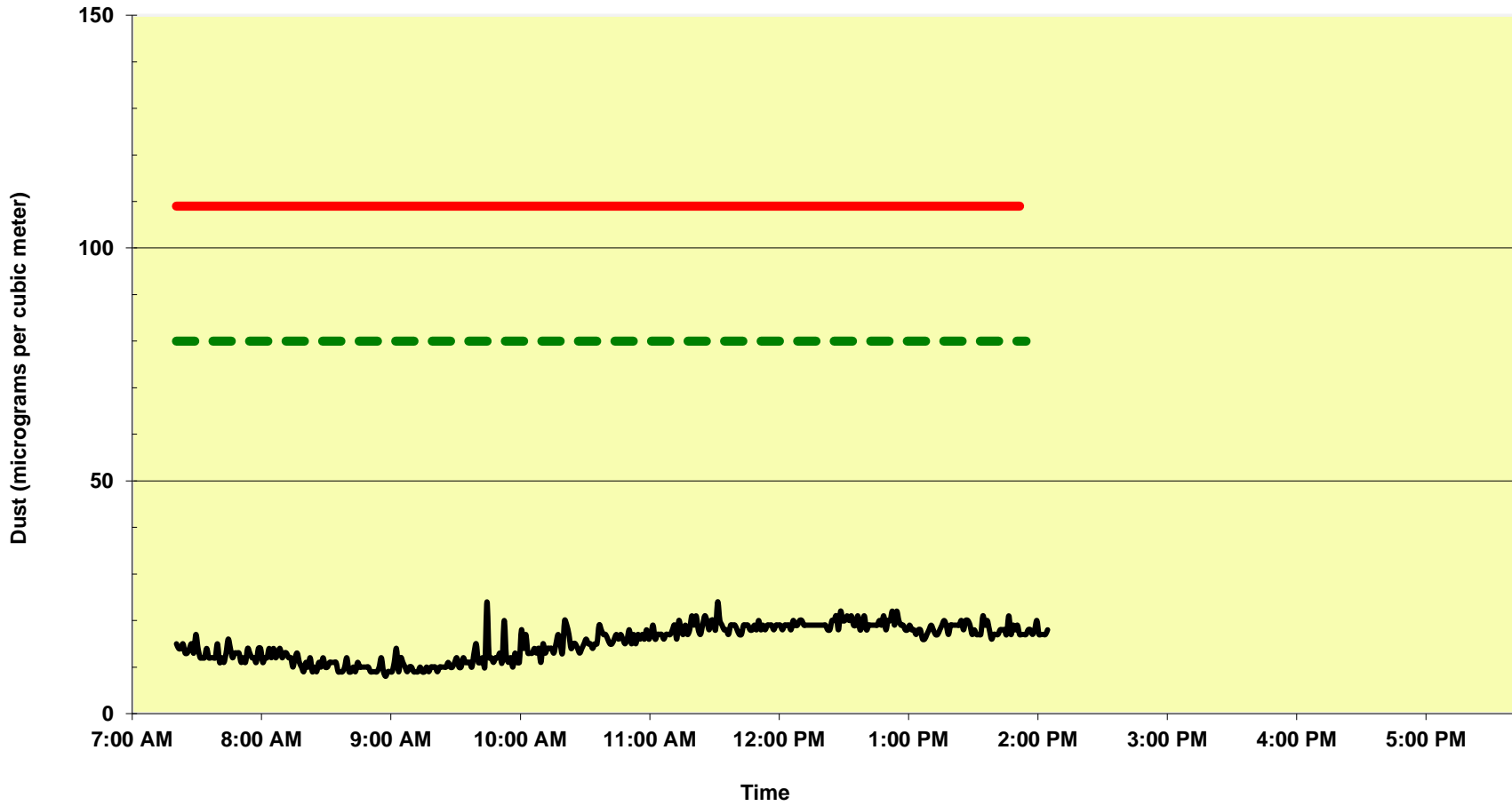
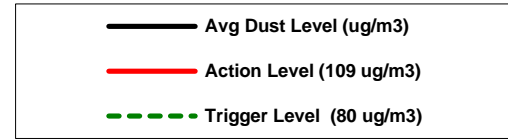
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 1 6/8/2018**

Air Monitoring Results



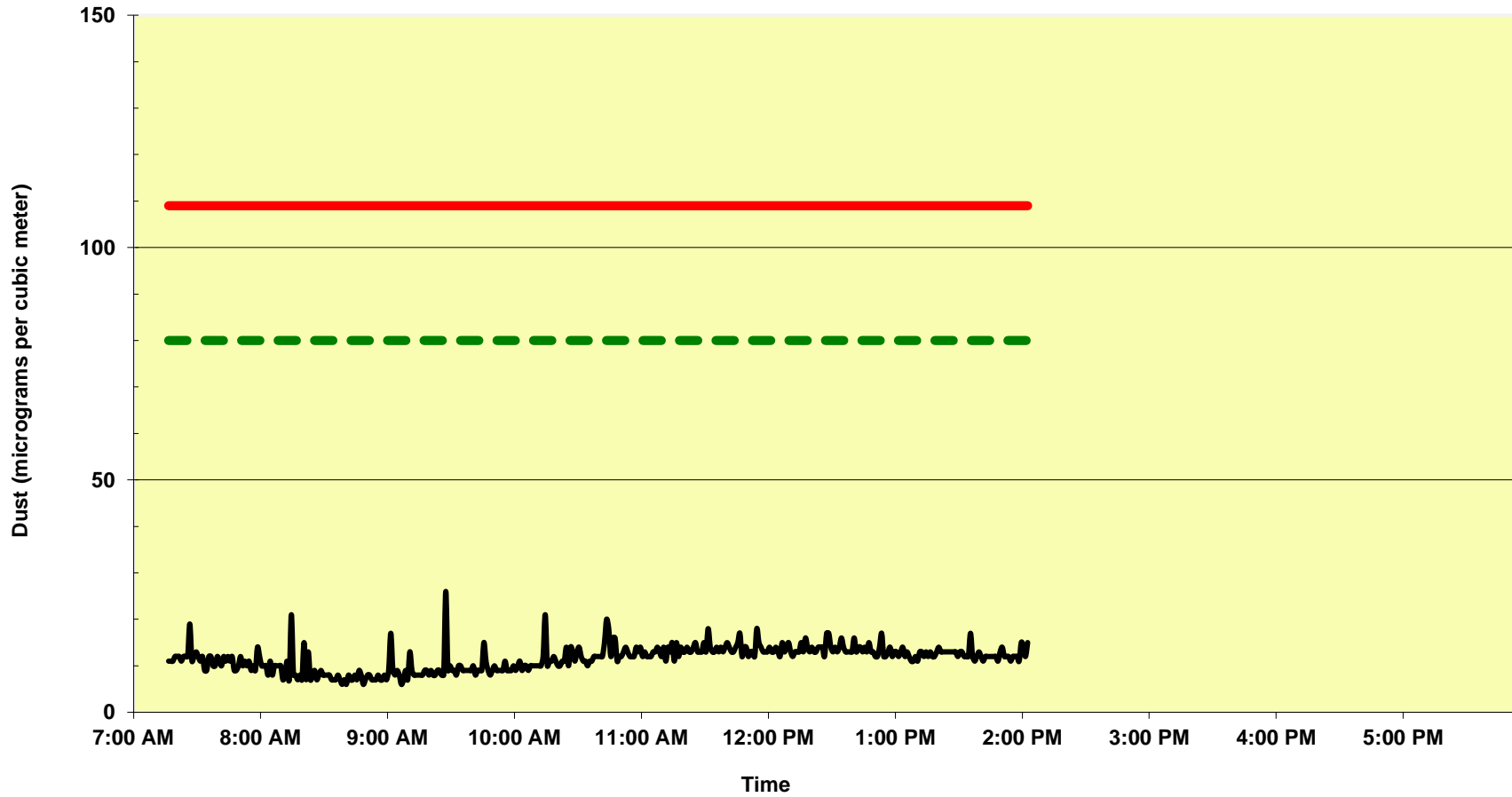
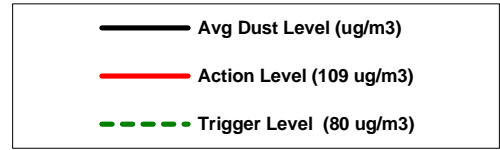
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 2 6/8/2018**

Air Monitoring Results



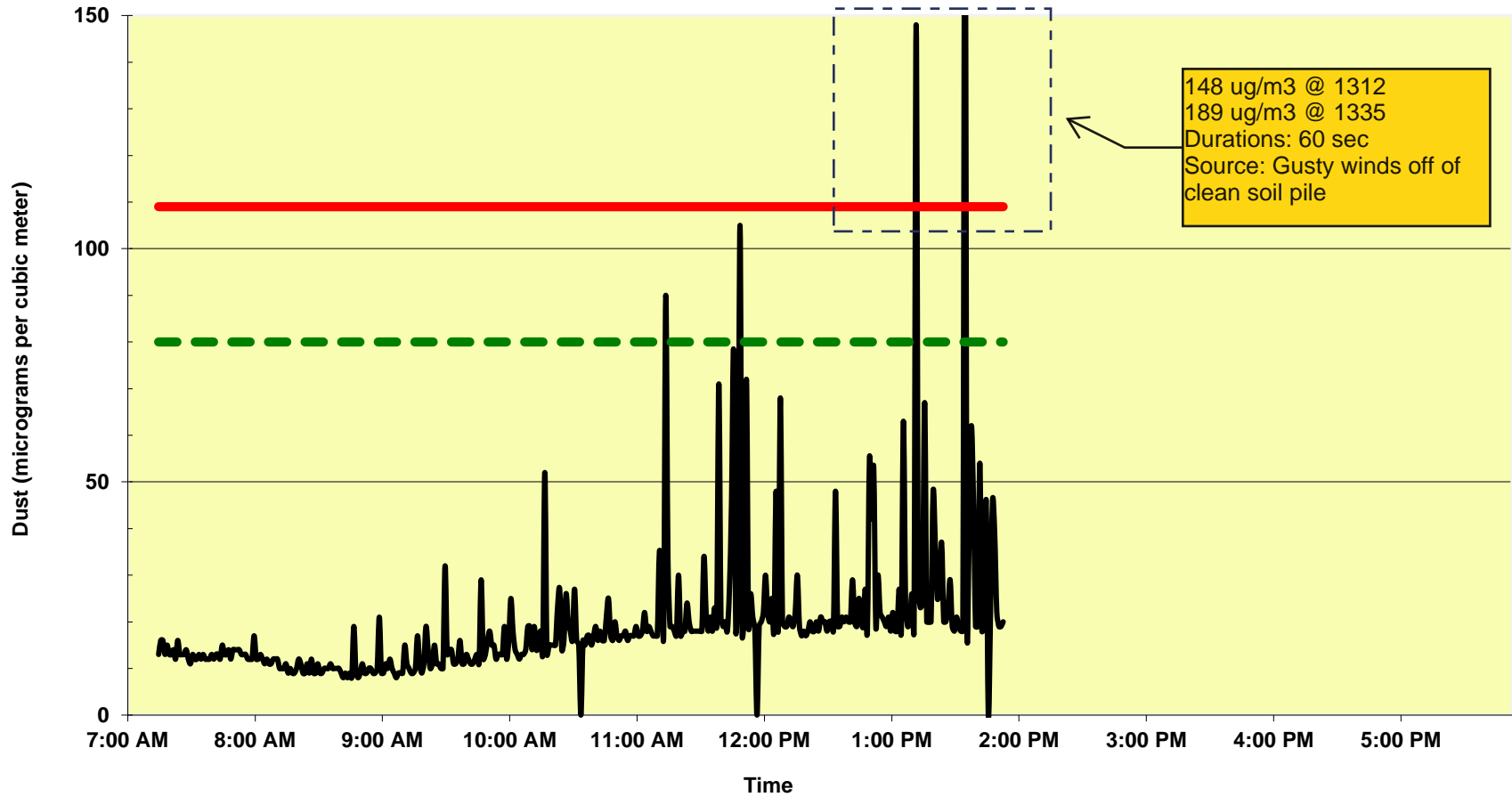
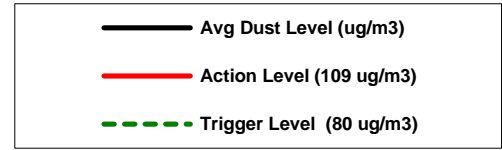
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Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 3 6/8/2018**

Air Monitoring Results



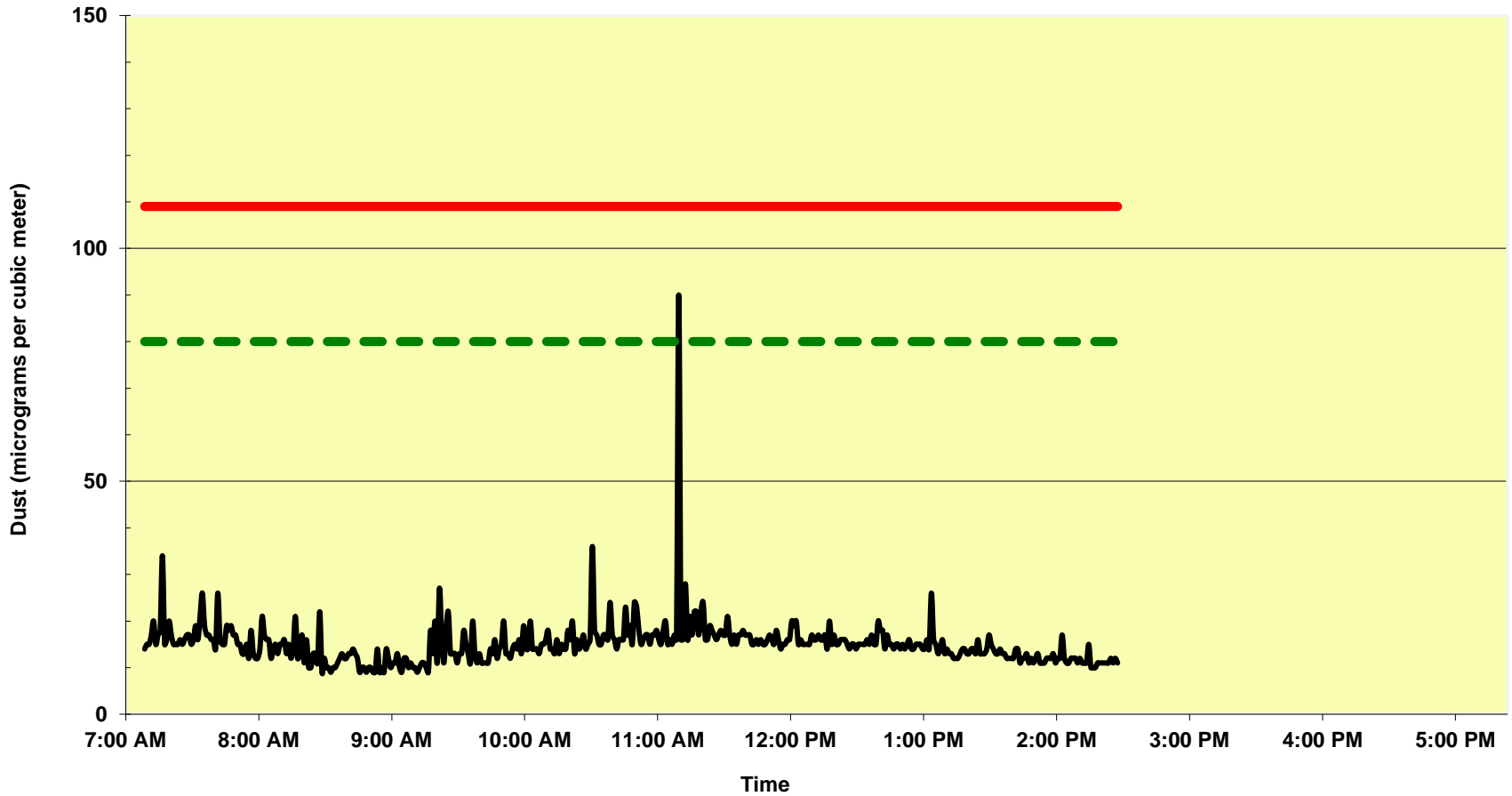
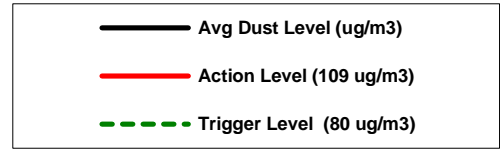
**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 4 6/8/2018**

Air Monitoring Results



**Former Midland-Ross Site
Highland Park, New Jersey
Dust Monitoring Results
Air Monitor 5 6/8/2018**

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	200-43799 AMS-5-060718 4:00PM	Units	Qualifier
Metals					
Lead	7439-92-1	0.00049	0.000067	mg/m3 Filter	U
Copper	7440-50-8	0.49	0.00034	mg/m3 Filter	U *
PAHs					
Benzo[b]fluoranthene	205-99-2	3.1	0.033	ug/m3 PUF	U
Benzo[k]fluoranthene	207-08-9	3.1	0.033	ug/m3 PUF	U
Benzo[a]anthracene	56-55-3	3.1	0.033	ug/m3 PUF	U
Chrysene	218-01-9	31	0.033	ug/m3 PUF	U
Dibenz(a,h)anthracene	53-70-3	0.3	0.033	ug/m3 PUF	U
Benzo[g,h,i]perylene	191-24-2	31	0.033	ug/m3 PUF	U
Benzo[a]pyrene	50-32-8	0.3	0.033	ug/m3 PUF	U
Indeno[1,2,3-cd]pyrene	193-39-5	3.1	0.033	ug/m3 PUF	U
Acenaphthene	83-32-9	310	0.033	ug/m3 PUF	U
Fluorene	86-73-7	310	0.033	ug/m3 PUF	U
Naphthalene	91-20-3	14.6	0.10	ug/m3 PUF	
Acenaphthylene	208-96-8	310	0.033	ug/m3 PUF	U
Fluoranthene	206-44-0	310	0.033	ug/m3 PUF	U
Pyrene	129-00-0	310	0.033	ug/m3 PUF	U
Phenanthrene	85-01-8	310	0.060	ug/m3 PUF	
Anthracene	120-12-7	31	0.033	ug/m3 PUF	U
VOCs					
Tetrachloroethene	127-18-4	195	1	ug/m3	U
Chlorodibromomethane	124-48-1	12.6	2	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
Ethylbenzene	100-41-4	4867	0.9	ug/m3	U
m-Xylene & p-Xylene	179601-23-1	487	2	ug/m3	U

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

Analyte	CAS Number	Criteria	200-43799 AMS-5-060718 4:00PM	Units	Qualifier
Ethylene Dibromide	106-93-4	3.9	2	ug/m3	U
Chlorobenzene	108-90-7	4867	0.9	ug/m3	U
Methyl methacrylate	80-62-6	-	2	ug/m3	U
1,4-Dioxane	123-91-1	146	18	ug/m3	U
Trichloroethene	79-01-6	9.7	1	ug/m3	U
1,2-Dichloropropane	78-87-5	19.5	0.9	ug/m3	U
4-Methyl-2-pentanone (MIBK)	108-10-1	14600	2	ug/m3	U
Toluene	108-88-3	24333	2	ug/m3	
Dichlorobromomethane	75-27-4	9.2	1	ug/m3	U
cis-1,3-Dichloropropene	10061-01-5	97.3	0.9	ug/m3	U
1,2-Dichlorobenzene	95-50-1	973	1	ug/m3	U
1,2,4-Trichlorobenzene	120-82-1	9.7	4	ug/m3	U
1,3-Dichlorobenzene	541-73-1	-	1	ug/m3	U
1,4-Dichlorobenzene	106-46-7	3893	1	ug/m3	U
Naphthalene	91-20-3	14.6	3	ug/m3	U
Ethanol	64-17-5	-	9	ug/m3	U
Hexachlorobutadiene	87-68-3	1	2	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
Styrene	100-42-5	4867	0.9	ug/m3	U
2-Chlorotoluene	95-49-8	-	1	ug/m3	U
1,2,4-Trimethylbenzene	95-63-6	-	1	ug/m3	U
4-Ethyltoluene	622-96-8	-	1	ug/m3	U
1,3,5-Trimethylbenzene	108-67-8	-	1	ug/m3	U
1,1-Dichloroethene	75-35-4	973	0.8	ug/m3	U
Acetone	67-64-1	150867	12	ug/m3	U

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

Analyte	CAS Number	Criteria	200-43799 AMS-5-060718 4:00PM	Units	Qualifier
Trichlorofluoromethane	75-69-4	3407	1	ug/m3	U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	146000	2	ug/m3	U
3-Chloro-1-propene	107-05-1	-	2	ug/m3	U
Methylene Chloride	75-09-2	2920	2	ug/m3	U
Carbon disulfide	75-15-0	3407	2	ug/m3	U
Isopropyl alcohol	67-63-0	-	12	ug/m3	U
Chloromethane	74-87-3	438	1	ug/m3	U
Vinyl chloride	75-01-4	487	0.5	ug/m3	U
Dichlorodifluoromethane	75-71-8	487	2	ug/m3	U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	-	3	ug/m3	
Chloroethane	75-00-3	48667	1	ug/m3	U
Vinyl bromide	593-60-2	-	0.9	ug/m3	U
Butadiene	106-99-0	-	0.4	ug/m3	U
Bromomethane	74-83-9	24.3	0.8	ug/m3	U
Cyclohexane	110-82-7	29200	0.7	ug/m3	U
Carbon tetrachloride	56-23-5	195	1	ug/m3	U
Tetrahydrofuran	109-99-9	-	15	ug/m3	U
1,1,1-Trichloroethane	71-55-6	4867	1	ug/m3	U
1,2-Dichloroethane	107-06-2	1947	0.8	ug/m3	U
n-Heptane	142-82-5	-	0.8	ug/m3	U
Isooctane	540-84-1	-	0.9	ug/m3	U
Benzene	71-43-2	14.6	0.6	ug/m3	U
trans-1,2-Dichloroethene	156-60-5	-	0.8	ug/m3	U
Hexane	110-54-3	-	0.7	ug/m3	U
2-Methyl-2-propanol	75-65-0	-	15	ug/m3	U
Methyl tert-butyl ether	1634-04-4	14600	0.7	ug/m3	U
2-Butanone (MEK)	78-93-3	24333	1	ug/m3	U

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

Analyte	CAS Number	Criteria	200-43799 AMS-5-060718 4:00PM	Units	Qualifier
Chloroform	67-66-3	1460	1	ug/m3	U
1,1-Dichloroethane	75-34-3	2433	0.8	ug/m3	U
cis-1,2-Dichloroethene	156-59-2	-	0.8	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.

* - 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.