



February 21, 2023

**Ms. Maureen Hatfield, P.G.**

Texas Commission on Environmental Quality

MC-127

VCP-CA Section, Team 1, Remediation Division

P.O. Box 13087

Austin, Texas 78711-3087

**RE: WEEKLY STATUS UPDATE – ENGLEWOOD YARD NORTH BYPASS PROJECT  
UNION PACIFIC RAILROAD HOUSTON WOOD PRESERVING WORKS SITE  
4910 LIBERTY ROAD FACILITY, HOUSTON, TEXAS  
POST-CLOSURE CARE PERMIT NO. 50343, INDUSTRIAL SWR NO. 31547**

Dear Ms. Hatfield:

WSP USA Inc. (WSP) on behalf of Union Pacific Railroad (UPRR), prepared this weekly status update for the Englewood Yard North By-Pass Project (the Project) that includes areas of construction within the UPRR Houston Wood Preserving Works (HWPW) site (the Site) (Post-Closure Care Permit No. 50343) located at 4910 Liberty Road, Houston, Texas. Below is a summary of the Project activities conducted at the Site for the reporting period:

**Week Period:** *February 13 through February 19, 2023*

Activities that resulted in the generation of excavated soils for this weekly period include repairs made to the Asphalt Road Cap.

**Dust Control and Air Monitoring**

- IHST conducted real time air and dust monitoring at the site in accordance with TCEQ approved Air Monitoring Plan dated July 2021. The real-time results for this period are provided in **Attachment A**.
- As indicated in the IHST Weekly Report (**Attachment A**), there were no events where PM 2.5 and PM 10 readings increased above the Take-Action Level or Stop-Work Level during the monitoring period. Samples were not collected for this period, with excavation activities only occurring periodically.

**Soil Management**

Approximately 20 cubic yards (CY) of soil classified as hazardous waste were generated during the asphalt repair activities within the HWPW Asphalt Cap area. The soils generated from the HWPW Asphalt Cap area were direct-loaded into a front end loader and deposited into a lined roll-off container

with secondary confinement located in the HWPW Container Storage Area (CSA) pending transport to the Disposal Facility (TSDF) in Robstown, TX for disposal.

**Stormwater Management**

There was no rainfall during this reporting period that resulted in management of stormwater within the site.

Planned Construction Activities for the period between **February 20, 2023 and February 26, 2023** include continuing repairs where potholes have the potential to develop on the Asphalt Cap at the connection where the asphalt roadway was extended for newly constructed Signal Houses as part of the Project.

**Dust Control and Air Monitoring**

Air monitoring per the approved Air Monitoring Plan (July 8, 2021) will continue to be conducted as soil excavation activities are taking place.

**Soil Management**

Managing excavated soils, in the event excavated soils are generated, within the Site will follow the approved Soil Management Plan (SMP).

**Stormwater Management**

Stormwater management, in the event of rainfall in the area, per the approved Storm Water Pollution Prevention Plan (SWPPP) will be conducted.

If you have any questions or need additional information, please feel free to contact Mr. Kevin Peterburs of UPRR at (414) 267-4164.

Sincerely,

**WSP USA Inc.**



Anthony Reid, P.G.  
*Sr. Consultant Geologist*



Eric Matzner, P.G.  
*Practice Leader/Principal*

**ATTACHMENT A**

## **Weekly Report of Air Monitoring**

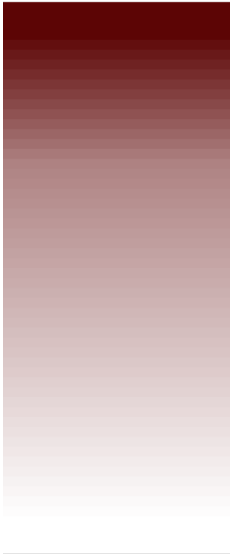


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## Weekly Report of Air Monitoring

### Union Pacific Railroad North Bypass Construction Project

Former Houston Wood Preserving Works Site  
Houston, TX

For Period from 2023-02-13 to 2023-02-19

Contents

Summary Results of Daily Dust Monitoring ..... 3

Summary Results of Daily Weather Conditions ..... 6

Daily Time History Detail for PM 2.5 and PM 10 Dust Levels..... 9

## Summary Results of Daily Dust Monitoring

This section provides overall summary results for perimeter dust monitoring conducted during the week specified. Dust monitoring results include the average PM 2.5 and PM 10 monitoring results over the sample period at each sample location for each day. Each day's summary provides also includes a description of the work activities performed that day, and any items, issues or occurrences of note.

The 24-hour USEPA National Ambient Air Quality Standard (NAAQS) for PM 2.5 particulate matter is 35 ug/m<sup>3</sup>, and 150 ug/m<sup>3</sup> for PM 10 particulate matter. The Texas Department of Environmental Quality (TCEQ) has adopted these values. UPRR has established dust control levels for railroad construction activities to help ensure that particulate levels do not exceed the 24-hour NAAQS as a result of construction activities.

Overall averages provided are for the sample period specified by the start and stop times. Unless otherwise specified, the sample periods are inclusive of all potentially significant dust generating activities.

Location of air sampling stations are consistent the Dust Control and Air Monitoring Plan dated 7/8/2021 and approved by the Texas Commission on Environmental Quality (TCEQ). Minor variations in station placement may occur, based on work activities, environmental factors, observed patterns of dust dispersion and practical constraints. During this week, work on the capped area was limited to repair of a single, discreet area of damaged asphalt. Dust monitoring stations were placed downwind of the work area for the duration of the work.

No excavation work took place in the capped area of the former Houston Wood preserving works took place on Monday – Wednesday (Feb 13 - 15, 2023) nor on Saturday or Sunday or this week (Feb 18 – 19, 2023). Dust monitoring data is provided for Thursday – Friday (Feb 16 – 17, 2023). Soils in excavated areas were damp from recent rains, and no significant visible dust was produced by work activities on either Thursday or Friday.

## PM 2.5 and PM 10 Daily Summary Results

**Sample Date**

Feb 16, 2023

**Description of Work Performed**

Work in the capped area consisted of excavation, old asphalt removal and surface prep in a discrete area of damaged asphalt at a signal turnout on the North Bypass access road, south side of the capped area, near the east-west center of the capped area. Work hours were from approximately 09:00 – 18:10.

### Overview Map of Daily Sample Locations



Station ID	Location Description	Start	Stop	Latitude	Longitude	Overall Average PM 2.5	Overall Average PM 10
AMS-07	HWPW - Solo South	09:05	18:11	29.78604	-95.32078	4 ug/m3	8 ug/m3
AMS-09	HWPW - Solo South	09:05	18:11	29.78611	-95.32061	3.3 ug/m3	5.4 ug/m3
AMS-10b	IMY - Central	09:17	18:34	29.78488	-95.32044	4.2 ug/m3	7.1 ug/m3



## PM 2.5 and PM 10 Daily Summary Results

**Sample Date**

Feb 17, 2023

**Description of Work Performed**

Work in the capped area consisted of continued excavation, old asphalt removal, surface prep and laying of fresh asphalt in a discrete area of damaged asphalt at a signal turnout on the North Bypass access road, south side of the capped area, near the east-west center of the capped area. Work hours were from approximately 08:30 – 13:40.

### Overview Map of Daily Sample Locations



Station ID	Location Description	Start	Stop	Latitude	Longitude	Overall Average PM 2.5	Overall Average PM 10
AMS-08a	HWPW - Solo South	08:33	13:41	29.78601	-95.32069	3.9 ug/m3	6.9 ug/m3
AMS-11	HWPW - Lavender South	08:34	13:40	29.78612	-95.32042	3.7 ug/m3	6 ug/m3



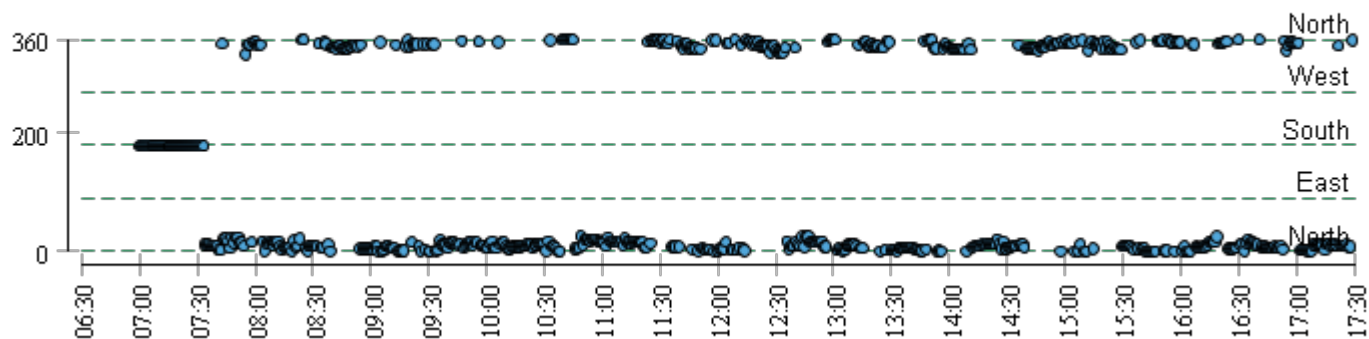
## Summary Results of Daily Weather Conditions

This section provides charts showing wind speed, wind direction and rainfall during each day of sampling during the specified week.

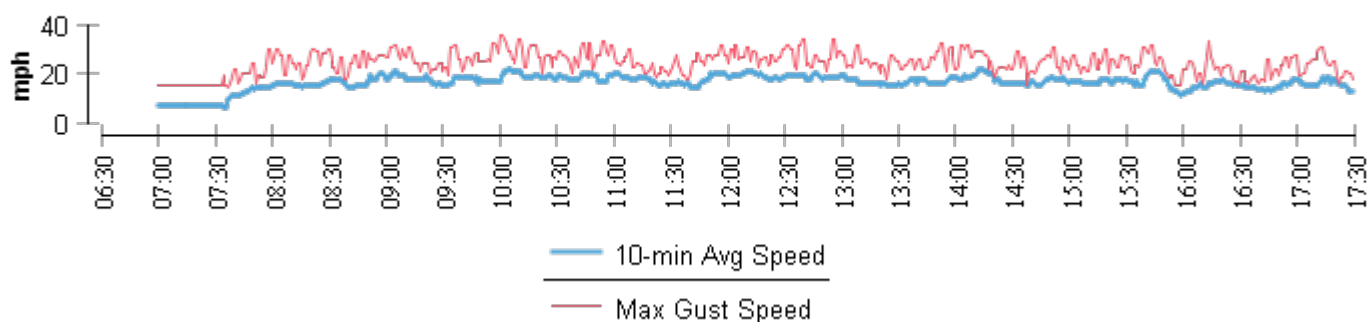
## Weather Time History Data

Sample Date Feb 16, 2023

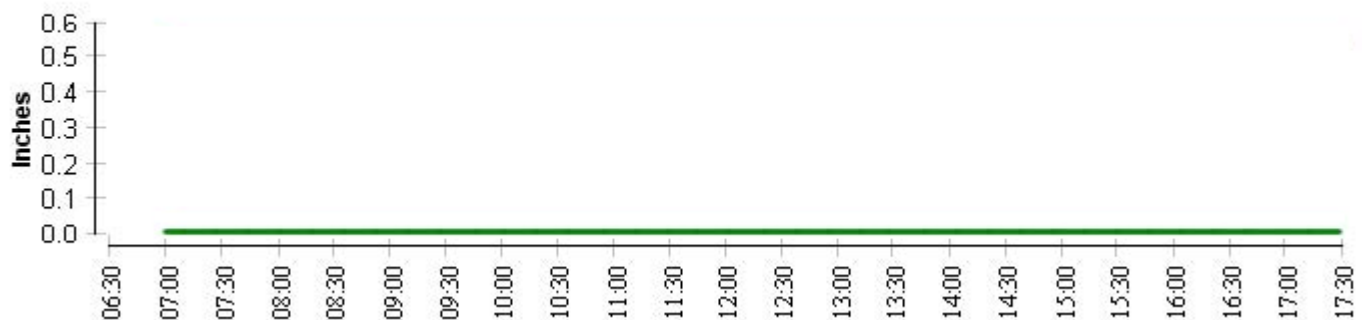
Wind Direction (10 min average)



Wind Speed



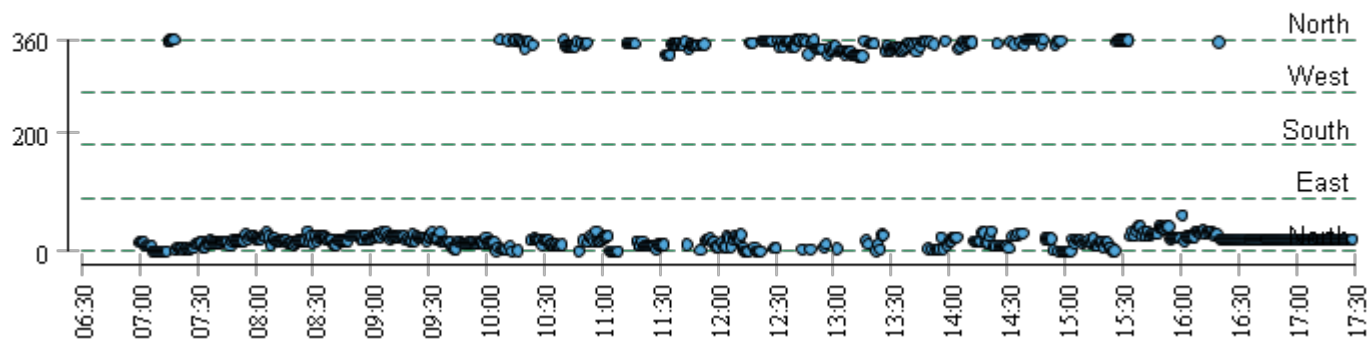
Cumulative Daily Rainfall



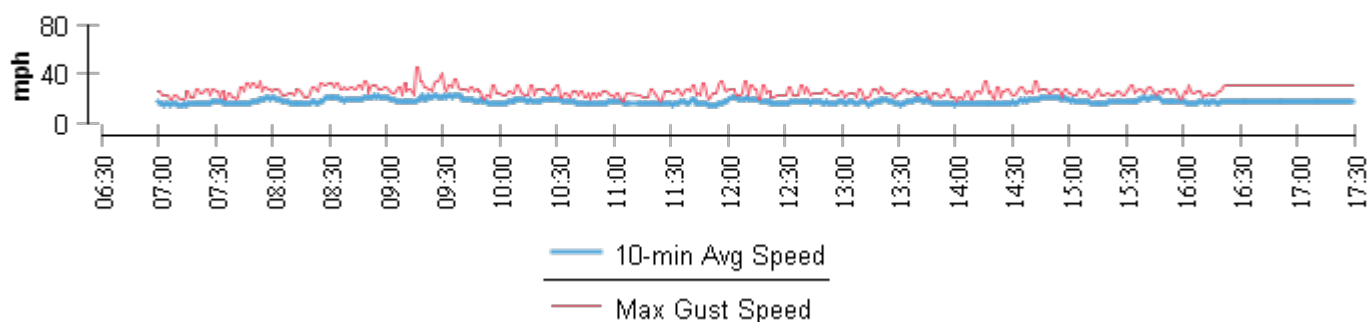
## Weather Time History Data

Sample Date Feb 17, 2023

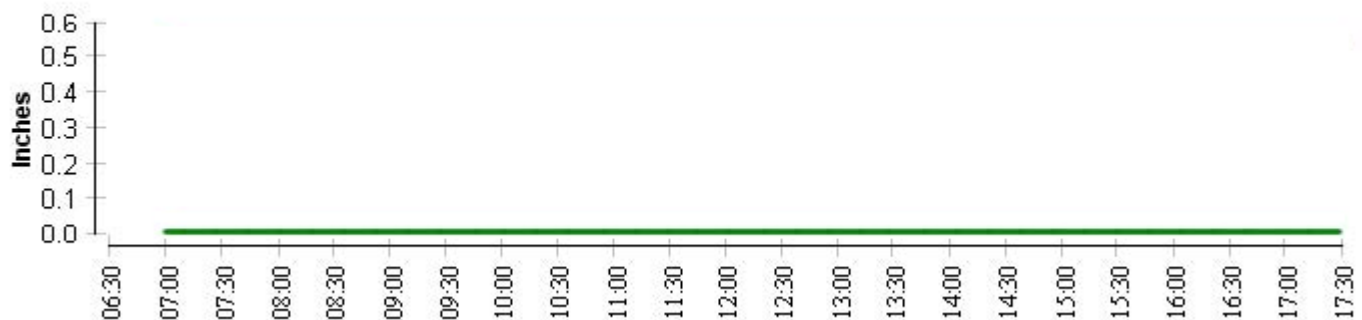
Wind Direction (10 min average)



Wind Speed



Cumulative Daily Rainfall



## Daily Time History Detail for PM 2.5 and PM 10 Dust Levels

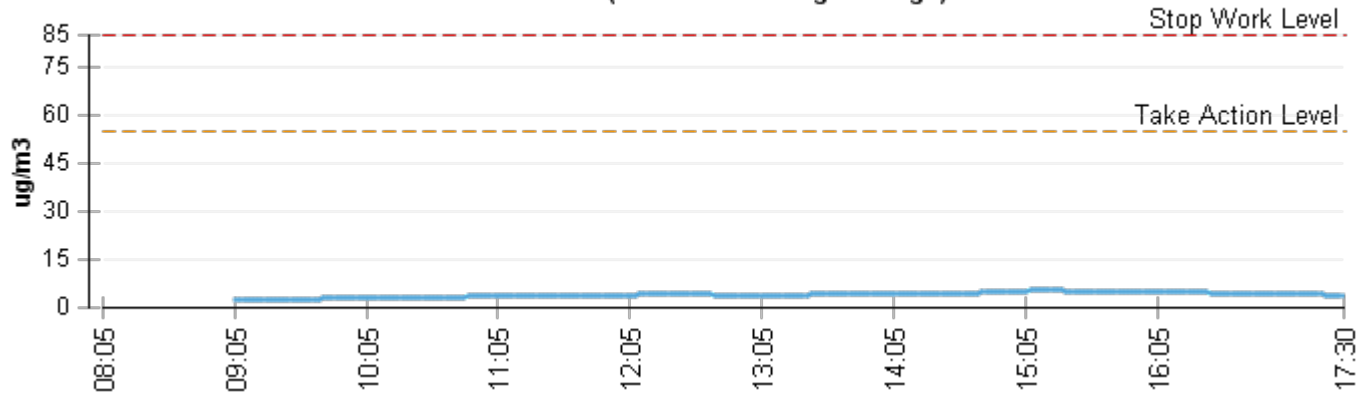
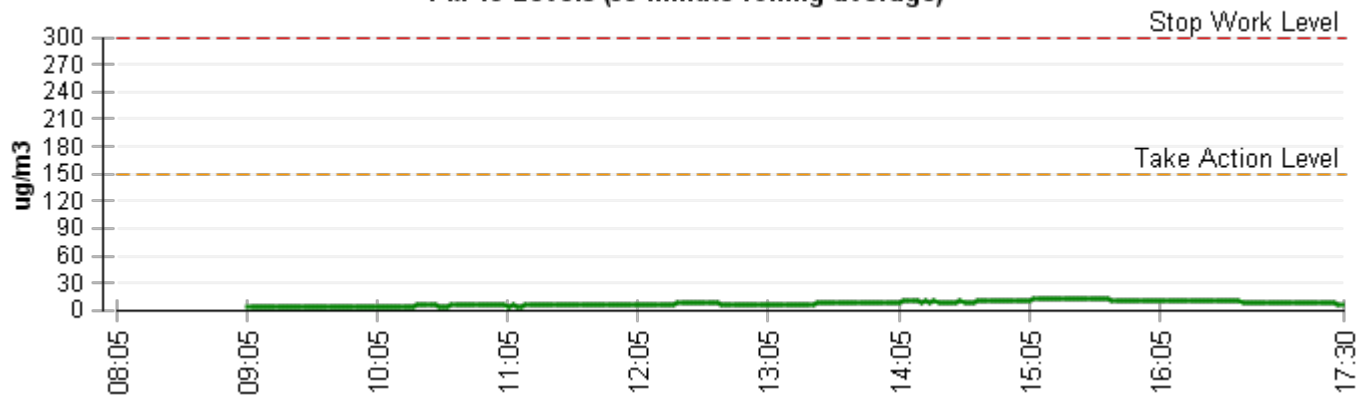
This section provides charts showing the rolling thirty-minute average concentrations of PM 2.5 and PM 10 particulates measured at each location on each sample day during the specified week.

PM 2.5 and PM 10 airborne particulate levels are measured every two minutes during the active sampling period. The charts track the average particulate concentrations over the past 30 minutes at the time of the measurement.

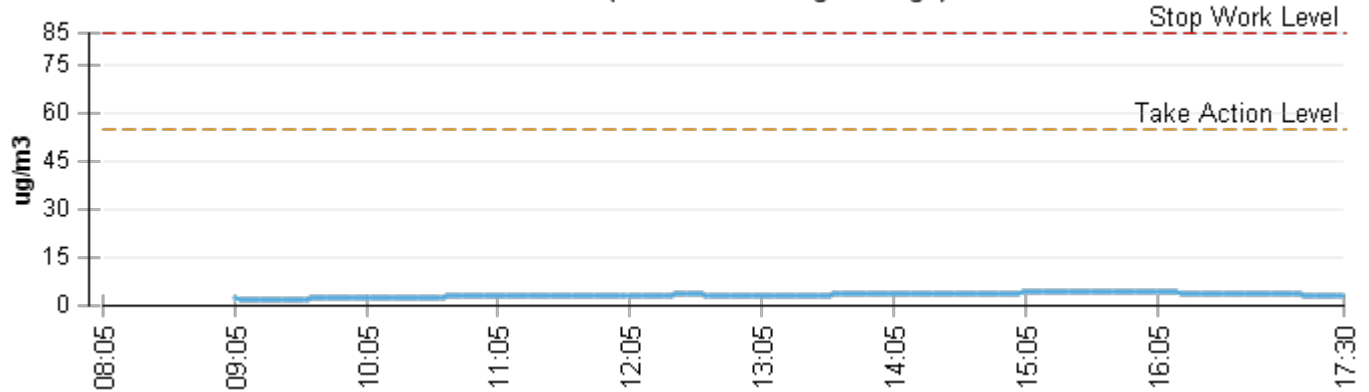
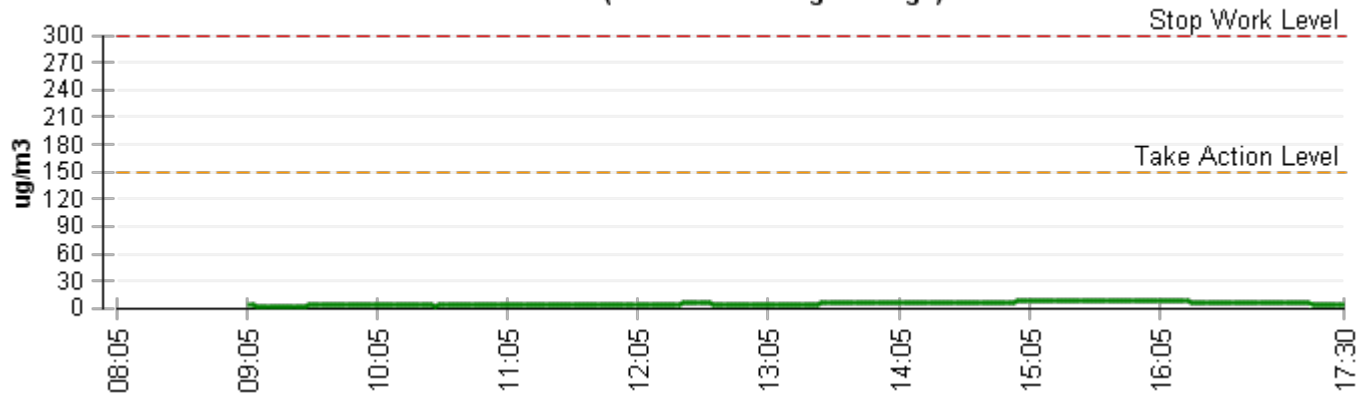
Union Pacific Railroad (UPRR) has established control levels for airborne particulates to help ensure that construction-related dust levels are adequately controlled. These levels are explained as follows:

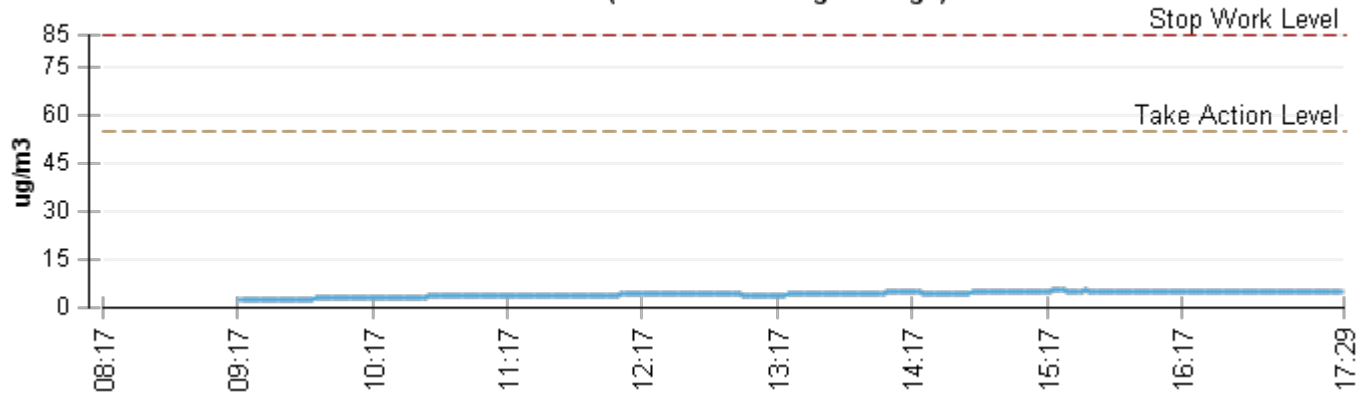
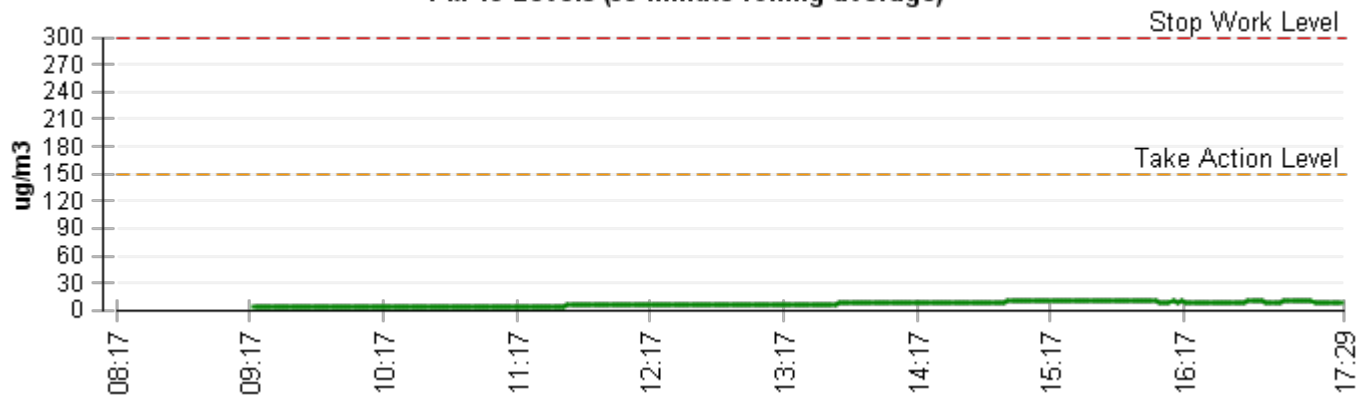
- Take-Action Level - 30-minute average dust concentrations  $>55 \text{ ug/m}^3$  (PM 2.5) or  $>150 \text{ ug/m}^3$  (PM 10)  
Additional dust control measures, as outlined in the site dust control plan, will be promptly implemented to reduce levels below the Take-Action Level.
- Stop-Work Level - 30-minute average dust concentrations  $>85 \text{ ug/m}^3$  (PM 2.5) or  $>300 \text{ ug/m}^3$  (PM 10)  
Work will be stopped immediately, as outlined in the site dust control plan, and UPRR will evaluate dust control measures. Work will not resume until UPRR has implemented additional controls that will effectively prevent generation of dust levels above the Stop-Work Level.

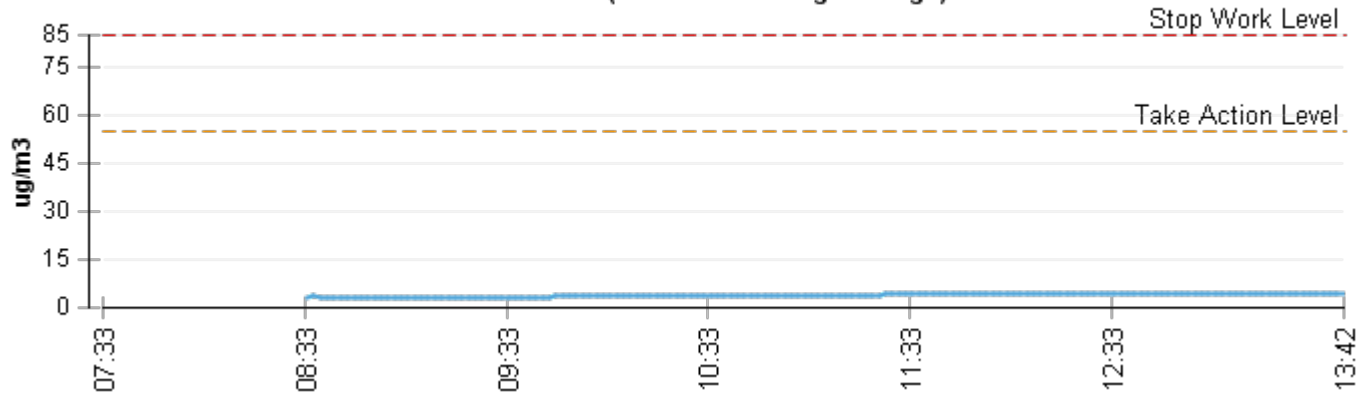
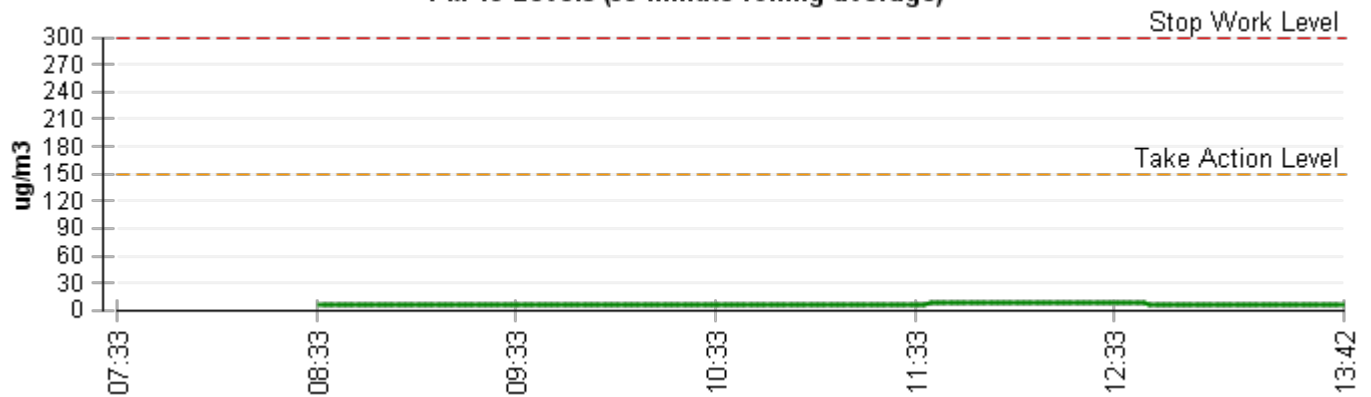
Air monitoring stations may exhibit higher than actual readings during the first 5 - 10 minutes after startup, before the instrumentation has fully warmed up. This is a known and expected behavior of the instrumentation.

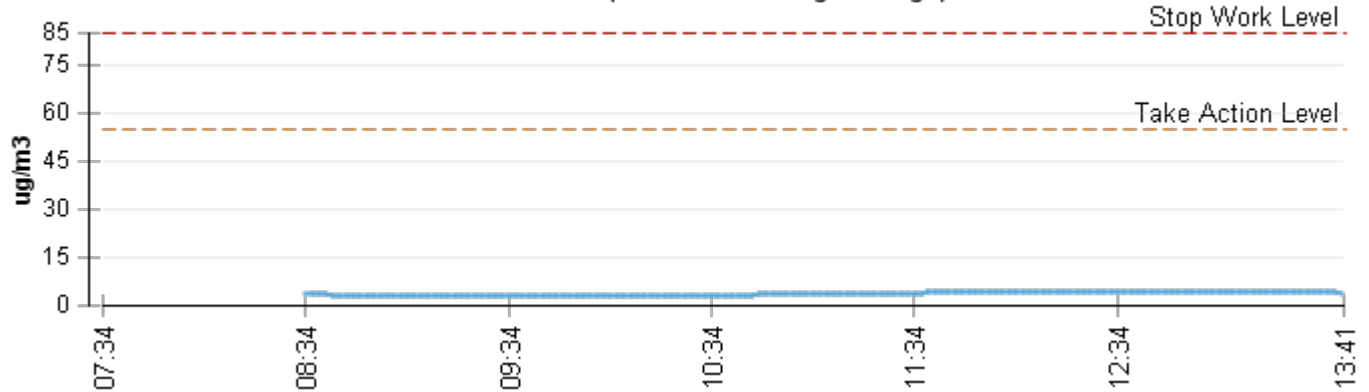
**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 16, 2023**Station ID** AMS-07  
**Location Description** 29.78604, -95.32078 - HWPW - Solo South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**



**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 16, 2023**Station ID** AMS-09  
**Location Description** 29.78611, -95.32061 - HWPW - Solo South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 16, 2023**Station ID** AMS-10b  
**Location Description** 29.78488, -95.32044 - IMY - Central**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 17, 2023**Station ID** AMS-08a  
**Location Description** 29.78601, -95.32069 - HWPW - Solo South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**

**PM 2.5 and PM 10 Time History Data****Sample Date** Feb 17, 2023**Station ID** AMS-11  
**Location Description** 29.78612, -95.32042 - HWPW - Lavender South**PM 2.5 Levels (30-minute rolling average)****PM 10 Levels (30-minute rolling average)**