SPS Technologies Air Monitoring, Jenkintown, PA
TRC Project 658978 Phase 000003

Biweekly Data Report for the Period April 9-18, 2025

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1.0 Introduction and Background

This Biweekly Data Report for the period between April 9, 2025, and April 18, 2025 (Biweekly Report) was prepared by TRC Environmental Corporation, Inc. (TRC), on behalf of SPS Technologies, LLC (SPS). The SPS facility is located at 301 Highland Avenue in Jenkintown, PA 19046 (Site). This Biweekly Report was prepared to summarize the results of air monitoring that were conducted between April 9, 2025, and April 18, 2025, pursuant to the Air Monitoring Plan dated March 25, 2025 (AMP).

1.1 Site Background

The Site is currently owned by SPS. On February 17, 2025, a fire broke out at the facility causing major damage and a cessation of operation. Prior to the fire, facility operations consisted of the manufacturing of high strength nuts, bolts, and associated products, primarily for aerospace applications. Air monitoring was initially conducted around the perimeter of the facility and adjacent residential areas in accordance with the Air Sampling and Analysis Plan dated February 23, 2025, as amended, to quantify the potential release of fugitive emissions from the fire for analytes associated with facility operations, based on the facility's Tier II reports. Since the Site has transitioned from emergency response into debris removal and deconstruction activities, beginning on April 9, 2025, air monitoring is now being conducted pursuant to the AMP for analytes that are associated with debris removal and deconstruction activities.

1.2 Air sampling methodology

Air monitoring is being conducted during deconstruction and debris removal activities at the Site and in the adjacent community in accordance with the AMP. The monitoring includes meteorological monitoring, particulate monitoring and asbestos sampling and analyses.

The AirMar Wind Sonic Sensor is continuously monitoring temperature, relative humidity, barometric pressure, wind speed and wind direction at one location located at the northwest direction of the Site.

Particulate matter, as PM_{10}, is continuously monitored using Aeroqual's Dust Sentry. The Dust Sentry operates as a forward light scattering nephelometer to detect the concentration of suspended particulates.

Asbestos samples are collected and analyzed in accordance with NIOSH Method 7400. Samples are collected on a daily basis at all stations in the network. Three samples per day were selected for analyses based upon examination of wind directional data for each 8-hour daily sampling event as well as consideration of the location with the highest PM_{10} concentration each day. Once received by the laboratory, the filters are analyzed by NIOSH method 7400, and if results are greater (>) than 0.01 fibers per cubic centimeter, further analysis via NIOSH Method 7402 was conducted.

2.0 Network Design and Monitoring Locations

The air monitoring network is currently comprised of six (6) stations oriented along the perimeter of the Site (as described below) and three (3) stations in the surrounding community. PM_{10} concentrations are monitored continuously at each monitoring location. Meteorological data are collected concurrently to include the following parameters: wind speed, wind direction, barometric pressure, relative humidity, and temperature.

The monitoring locations for the nine-station network are identified in Figure 1. These include six (6) stations, (TRC 1-6), along the perimeter of the Site and three additional stations (TRC 7-9) in the surrounding community. All nine (9) stations have been operational since April 9, 2025.

Figure 1: Air Monitoring Network Schematic

3.0 Summary of Site Activities During Report Period

During the Reporting Period, deconstruction and decontamination activities continued to occur at the Site. Activities included, but were not limited to, the decontamination of equipment and other items located within the facility, asset recovery, metal recovery operations, removal of hazardous wastes and other materials.

4.0 Data Analyses and Reporting Summary

4.1 Station Specific Data Tables

Table 1 summarizes PM_{10} data daily average concentrations (24 hour), in units of ug/m^3, for the calendar period April 9-18, 2025. PM_{10} data was unavailable from Station TRC-2 on April 13, 2025, as presented in Table 1. Power supply issues caused interruptions in station operations on this day. There were no exceedances of the Action Level of 150 ug/m^3 as a 15-minute average during the reporting period April 9-18, 2025.

Summary of the Asbestos air sample results is presented in Table 2, with supplemental detailed reports included as Attachment A. The asbestos samples were collected daily at all nine station locations. Three samples were selected for analysis after each 8-hour sampling event based on activities at the Site, wind direction and PM_{10} concentrations. A summary of the stations selected for analysis during this reporting period is presented below:

- TRC-2, TRC-5, and TRC-7 were selected for analysis on April 9, 2025
- TRC-2, TRC-3, and TRC-5 were selected for analysis on April 10, 2025
- TRC-1, TRC-2, and TRC-5 were selected for analysis on April 11, 2025
- TRC-1, TRC-2, and TRC-5 were selected for analysis on April 12, 2025
- TRC-4, TRC-5, and TRC-9 were selected for analysis on April 13, 2025
- TRC-2, TRC-3, and TRC-5 were selected for analysis on April 14, 2025
- TRC-2, TRC-4, and TRC-5 were selected for analysis on April 15, 2025
- TRC-3, TRC-4, and TRC-5 were selected for analysis on April 16, 2025
- TRC-2, TRC-4, and TRC-5 were selected for analysis on April 17, 2025
- TRC-2, TRC-4, and TRC-5 were selected for analysis on April 18, 2025

4.2 Station Specific Graphical Summary

Figure 2 represents PM_{10} data plots of daily averages (24 hours) as compared to the NAAQS for PM_{10} of 150 ug/m^3 (24-hour average).

Table 1: PM_{10} Daily Average Concentrations (ug/m^3)

Date	**Site IDs**									
	TRC-1	TRC-2	TRC-3	TRC-4	TRC-5	TRC-6	TRC-7	TRC-8	TRC-9	PM_{10} NAAQS
4/9/2025	4.11	5.98	4.47	5.1	6.67	4.69	4.59	4.71	5.79	150
4/10/2025	6.86	8.55	7.03	6.47	8.19	7.17	6.84	6.97	8.04	150
4/11/2025	8.03	10.33	7.43	6.8	9.56	7.78	7.77	7.81	8.56	150
4/12/2025	1.37	1.76	1.2	1.01	1.78	1.18	1.2	1.18	1.3	150
4/13/2025	2.82	*	2.96	2.87	4.28	2.91	2.89	2.8	3.51	150
4/14/2025	6.06	10.4	6.86	7.04	8.92	6.89	6.18	6.2	8.46	150
4/15/2025	7.87	10.26	8.21	9.42	11.15	8.22	8.67	8.49	9.73	150
4/16/2025	1.43	1.89	1.69	2.63	2.62	1.66	1.64	1.78	1.89	150
4/17/2025	3.95	6.01	4.73	4.72	5.49	4	4.07	4.09	5.46	150
4/18/2025	8.86	11.37	9.35	9.85	10.91	9.07	9.27	9.09	10.09	150

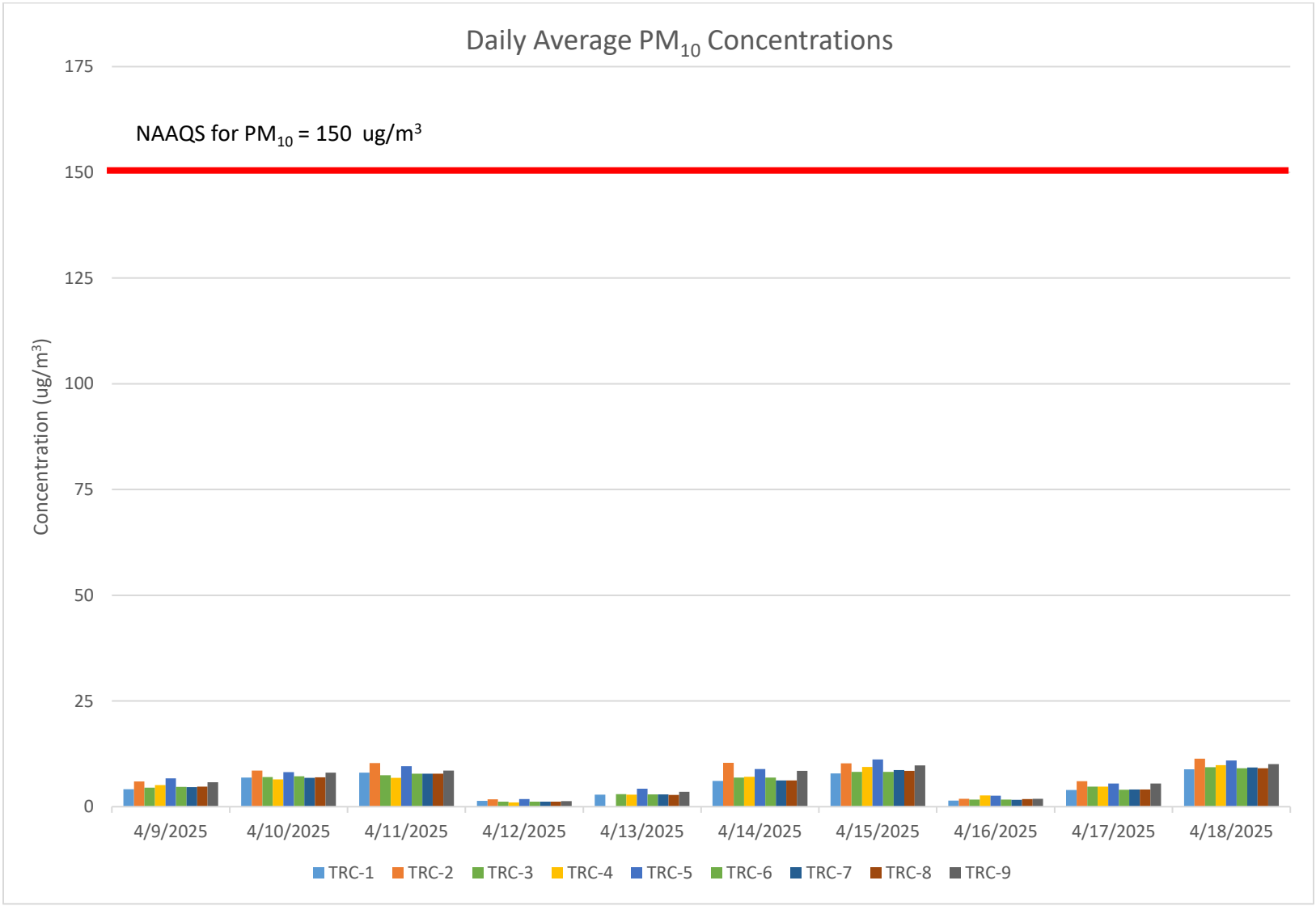
* Station TRC-2 did not collect data on 4/13/2025 due to a power supply issue.

Table 2: Results of Asbestos analysis (f/cc)

Sample Date	Sample Type	Sample Location	Start time	Stop time	Sample Volume (L)	Limit of Detection (f/cc)	Results (f/cc)
04/09/25	Perimeter	TRC 2	07:31	16:06	2575	0.001	0.0011
04/09/25	Perimeter	TRC 5	07:49	16:22	2565	0.0011	<LOD
04/09/25	Community	TRC 7	08:13	16:34	2505	0.0011	<LOD
04/10/25	Perimeter	TRC 2	07:39	14:39	2100	0.0013	0.0028
04/10/25	Perimeter	TRC 3	07:43	14:44	2105	0.0013	0.0019
04/10/25	Perimeter	TRC 5	07:54	14:53	2095	0.0013	0.0016
04/11/25	Perimeter	TRC 1	08:14	14:37	1915	0.0014	<LOD
04/11/25	Perimeter	TRC 2	08:17	14:41	1920	0.0014	<LOD
04/11/25	Perimeter	TRC 5	08:38	15:28	2050	0.0013	<LOD
04/12/25	Perimeter	TRC 1	08:00	14:19	1895	0.0014	0.0021
04/12/25	Perimeter	TRC 2	08:10	14:22	1860	0.0015	0.0016
04/12/25	Perimeter	TRC 5	08:29	14:35	1830	0.0015	<LOD
04/13/25	Perimeter	TRC 4	08:25	14:45	1900	0.0014	<LOD
04/13/25	Perimeter	TRC 5	08:29	14:50	1905	0.0014	<LOD
04/13/25	Community	TRC 9	08:39	15:04	1925	0.0014	0.0039
04/14/25	Perimeter	TRC 2	08:03	14:34	1955	0.0014	0.0018
04/14/25	Perimeter	TRC 3	08:23	14:37	1870	0.0014	0.0031

Sample Date	Sample Type	Sample Location	Start time	Stop time	Sample Volume (L)	Limit of Detection (f/cc)	Results (f/cc)
04/14/25	Perimeter	TRC 5	08:46	14:42	1780	0.0015	<LOD
04/15/25	Perimeter	TRC 2	07:24	14:29	2125	0.0013	0.0021
04/15/25	Perimeter	TRC 4	07:48	14:46	2090	0.0013	0.0014
04/15/25	Perimeter	TRC 5	07:59	14:54	2075	0.0013	0.0033
04/16/25	Perimeter	TRC 3	07:50	14:21	1955	0.0014	<LOD
04/16/25	Perimeter	TRC 4	07:56	14:26	1950	0.0014	0.0015
04/16/25	Perimeter	TRC 5	08:13	14:36	1915	0.0014	0.0018
04/17/25	Perimeter	TRC 2	08:18	14:49	1173	0.0023	0.0038
04/17/25	Perimeter	TRC 4	08:25	14:54	1167	0.0023	<LOD
04/17/25	Perimeter	TRC 5	08:31	15:00	1167	0.0023	0.0032
04/18/25	Perimeter	TRC 2	08:08	15:21	1299	0.0021	0.0026
04/18/25	Perimeter	TRC 4	08:15	15:27	1296	0.0021	0.0026
04/18/25	Perimeter	TRC 5	08:24	15:34	1290	0.0021	<LOD

Figure 2: Daily Average PM_{10} Concentrations



4.3 Meteorological Data

Meteorological data for the report period is presented as a wind rose plot in Figure 4. A wind rose plot is a graphic representation of the wind distribution. The spokes in the wind rose plot show the greatest frequency of the wind direction (originating from) and the colored bands show the range of wind speed. Additionally, values below the lowest wind speed range are reported as calm conditions and listed as a percentage of the total winds.

Figure 3: Composite Wind Rose April 9 - 18, 2025