



February 23, 2024

Project No. GL20409062.000

Gerald F. Wick, P.G.

Texas Commission on Environmental Quality
Industrial & Hazardous Waste Permits Section
Waste Permits Division
MQ-130
12100 Park 35 Circle
Austin, Texas 78753

**RE: AIR MONITORING RESULTS – FEBRUARY 8, 2023/FEBRUARY 19, 2024
AFFECTED PROPERTY 5 EXCAVATION
FRISCO COMMUNITY DEVELOPMENT CORPORATION, 7471 OLD FIFTH ST, FRISCO, TEXAS
TCEQ SWR NO. 30516, CN600129779, RN100218643
TCEQ HAZARDOUS WASTE PERMIT NO. 50206**

DEAR MR. WICK:

WSP USA Inc. (WSP) on behalf of the Frisco Community Development Corporation (FCDC) has prepared this Summary of air monitoring results from February 8th to February 19th, 2024 for the Affected Property 5 Soil Excavation performed for the Frisco Community Development Site (FCDS) located at 7471 Old Fifth St, Frisco, Texas (Site).

Dust suppression measures were implemented during soil excavation activities. Air quality was monitored during all potential dust generating activities as specified by the Air Monitoring Plan utilizing E-Samplers. Air monitoring included upwind (direction from which wind is blowing) and downwind (direction wind is blowing) real-time measurements of wind speed, wind direction and particulate matter at the perimeter of the FOP/RCA soil management area. In addition to the real-time air monitoring, air samples were collected for laboratory analysis of both lead and cadmium as described in the Air Monitoring Plan using high volume (10 liters per minute [L/min]) particulate matter air samplers.

Review of air monitoring results, indicate that no real-time particulate concentrations or laboratory analytical results exceeded Take Action or Stop Work Levels, respectively. Table 1 provides a summary of laboratory analytical air monitoring data collected during this reporting period. Real-time air monitoring Daily Summary Reports are included as **Attachment A**. Laboratory analytical reports with Data Usability Summaries (DUS) are included as **Attachment B**.

Please do not hesitate to call should you have any questions regarding this summary report.

Sincerely,
WSP USA, Inc.



Catherine Mear, GIT
Environmental Scientist, Consultant



Timothy P. Jennings, PG (TX)
Assistant Vice President, Geologist

CC: TCEQ Austin – 1 electronic copy
TCEQ Region 4 – 1 electronic copy
Wes Pierson – Frisco City Manager (City of Frisco) – 1 electronic copy
Mack Borchardt – Special Assistant to the City Manager – City of Frisco – 1 electronic copy
Jason Brodigan – Interim Director of Engineering Services (City of Frisco) – 1 electronic copy
Brad Weaver – City of Frisco – 1 electronic copy

TABLE



TABLE 1
SUMMARY OF AIR MONITORING LABORATORY ANALYTICAL RESULTS
February 8, 2024 - February 19, 2024

Frisco CDC Site
Frisco, Texas
IHW Permit No. 50206

Sample ID ¹	Date	Cadmium ²	Lead ²
		mg/m ³	
FOPR240207DW983	2/9/2024	<0.0000044	<0.000029
FOPR240207UW963		<0.0000044	<0.000030
FOPR240207UW915		<0.0000044	<0.000029
FOPR240207UW917		<0.0000044	<0.000029
FOPR240207UW916		<0.0000043	<0.000029
FOPR240216DW983	2/16/2024	<0.000004	<0.000027
FOPR240216DW963		<0.000004	<0.000027
FOPR240216DW915		<0.0000042	<0.000028
FOPR240216DW917		<0.000004	<0.000027
FOPR240216DW916		<0.0000042	<0.000028
FOPR240219DW983	2/19/2024	<0.0000039	<0.000026
FOPR240219DW963		<0.0000038	0.000025 J
FOPR240219DW915		<0.0000040	<0.000027
FOPR240219DW917		<0.0000000039	<0.000000026
FOPR240219DW916		<0.0000041	<0.000028
Stop Work Level - 60 minute average ³		0.0001	0.00107

Notes:

¹Samples collected by Remediation Services, Inc. and analyzed by ALS Environmental in Salt Lake City, Utah.

²Cadmium and lead analyzed via NIOSH Method 7300 Mod., MCE.

³Particulate matter take action and stop work levels for cadmium and lead as detailed in the Former Operating Plant Air Monitoring Plan, April 2023, prepared by WSP USA, Inc.

J - The reported value is an estimate.

Bold analytical results indicate sample detections.

Analytical results reported in milligrams per cubic meter (mg/m³).

ATTACHMENT A
Air Monitoring Summary Reports

Daily Summary Report Table (30-Min Average Values)

Real-Time Perimeter Particulate (PM-10) Monitoring Data

Frisco CDC Site - Frisco, TX

2/8/2024



Time Interval (30-min)	Station 1 (C15983) (mg/m3)	Station 2 (U15963) (mg/m3)	Station 3 (T19915) (mg/m3)	Station 4 (T19917) (mg/m3)	Station 5 (T19916) (mg/m3)	Wind Direction (from N)	Wind Speed (mph)
06:00-06:29						183	8.3
06:30-06:59	0.003	0.003		0.003	0.001	183	8.2
07:00-07:29	0.003	0.003	0.002	0.002	0.004	190	6.2
07:30-07:59	0.003	0.003	0.003	0.000	0.002	191	7.0
08:00-08:29	0.003	0.004	0.003	0.004	0.002	186	8.8
08:30-08:59	0.004	0.004	0.003	0.005	0.002	187	8.5
09:00-09:29	0.005	0.005	0.004	0.004	0.003	195	8.0
09:30-09:59	0.005	0.005	0.004	0.004	0.003	196	9.0
10:00-10:29	0.005	0.006	0.005	0.005	0.003	201	9.9
10:30-10:59	0.006	0.006	0.005	0.005	0.004	220	10.5
11:00-11:29	0.006	0.006	0.004	0.005	0.003	228	10.3
11:30-11:59	0.004	0.004	0.003	0.004	0.004	251	9.2
12:00-12:29	0.005	0.003	0.002	0.003	0.003	258	9.0
12:30-12:59	0.003	0.003	0.001	0.001	0.002	242	8.1
13:00-13:29	0.003	0.002	0.001	0.002	0.002	251	7.6
13:30-13:59	0.002	0.002	0.002	0.003	0.002	244	7.1
14:00-14:29	0.004	0.002	0.001	0.001	0.001	222	6.8
14:30-14:59	0.004	0.002	0.001	0.001	0.000	210	8.1
15:00-15:29	0.003	0.003	0.002	0.002	0.002	207	7.9
15:30-15:59	0.002	0.002	0.002	0.001	0.002	200	8.9
16:00-16:29	0.002	0.002	0.002	0.002	0.002	189	8.9
16:30-16:59	0.002	0.003	0.002	0.005	0.001	190	8.4
17:00-17:29						192	6.1
17:30-17:59						192	4.0
18:00-18:29						198	3.3
18:30-18:59						190	3.7
Daily Average	0.004	0.003	0.003	0.003	0.002	195	7.8

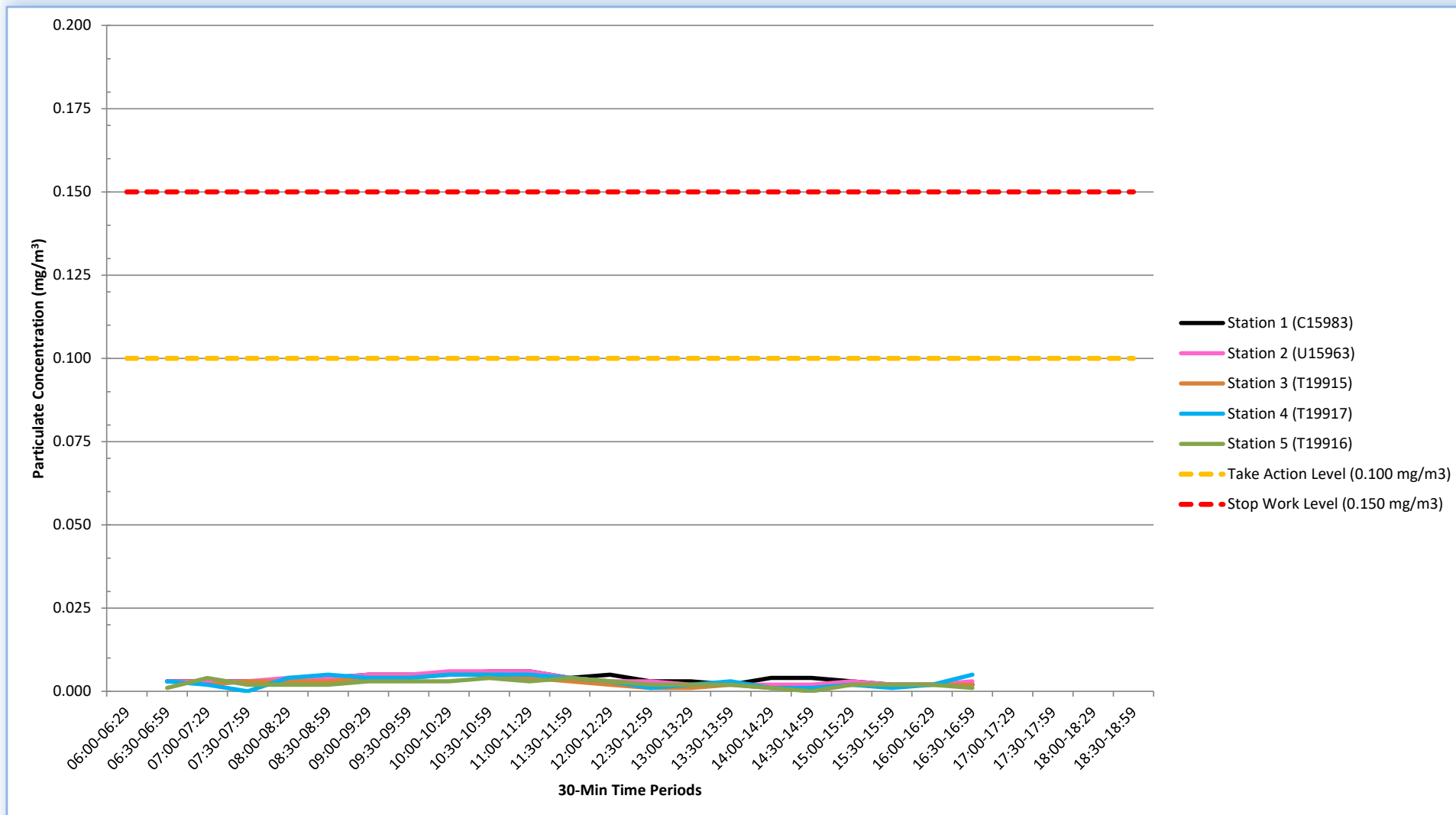
Notes:

- Blank data records indicate no data is available for that interval
- Average Wind Direction calculated with unit vector averaging method

Daily Summary Report Graph
(30-Min Average Values)
Real-Time Perimeter Particulate (PM-10) Monitoring Data
Frisco CDC Site - Frisco, TX



2/8/2024



Daily Summary Report Table (30-Min Average Values)

Real-Time Perimeter Particulate (PM-10) Monitoring Data

Frisco CDC Site - Frisco, TX

2/9/2024



Time Interval (30-min)	Station 1 (C15983) (mg/m3)	Station 2 (U15963) (mg/m3)	Station 3 (T19915) (mg/m3)	Station 4 (T19917) (mg/m3)	Station 5 (T19916) (mg/m3)	Wind Direction (from N)	Wind Speed (mph)
06:00-06:29						127	2.8
06:30-06:59	0.000			0.002	0.002	124	3.4
07:00-07:29	0.004	0.003	0.003	0.003	0.004	119	3.4
07:30-07:59	0.005	0.004	0.004	0.003	0.004	125	2.9
08:00-08:29	0.006	0.005	0.004	0.002	0.004	125	3.1
08:30-08:59	0.007	0.007	0.006	0.000	0.006	141	3.1
09:00-09:29	0.008	0.009	0.007	0.005	0.006	140	2.5
09:30-09:59	0.010	0.011	0.008	0.002	0.005	162	6.0
10:00-10:29	0.011	0.012	0.010	0.010	0.008	175	8.0
10:30-10:59	0.012	0.012	0.011	0.012	0.009	182	9.7
11:00-11:29	0.014	0.016	0.012	0.014	0.013	186	12.4
11:30-11:59	0.016	0.018	0.016	0.016	0.017	184	13.5
12:00-12:29	0.018	0.020	0.017	0.021	0.021	184	10.7
12:30-12:59	0.020	0.019	0.019	0.021	0.022	191	11.8
13:00-13:29	0.019	0.023	0.018	0.019	0.020	194	9.5
13:30-13:59	0.018	0.019	0.017	0.019	0.018	195	8.0
14:00-14:29	0.013	0.012	0.012	0.014	0.013	230	9.5
14:30-14:59	0.012	0.011	0.011	0.011	0.008	235	8.3
15:00-15:29	0.009	0.009	0.009	0.009	0.008	235	10.0
15:30-15:59	0.007	0.007	0.007	0.006	0.009	235	8.0
16:00-16:29	0.006	0.006	0.005	0.005	0.006	247	6.8
16:30-16:59	0.006	0.005	0.005	0.005	0.005	250	5.3
17:00-17:29	0.006	0.006	0.005	0.006	0.009	263	4.9
17:30-17:59						265	4.8
18:00-18:29						270	4.0
18:30-18:59						249	2.3
Daily Average	0.010	0.011	0.010	0.009	0.010	196	6.7

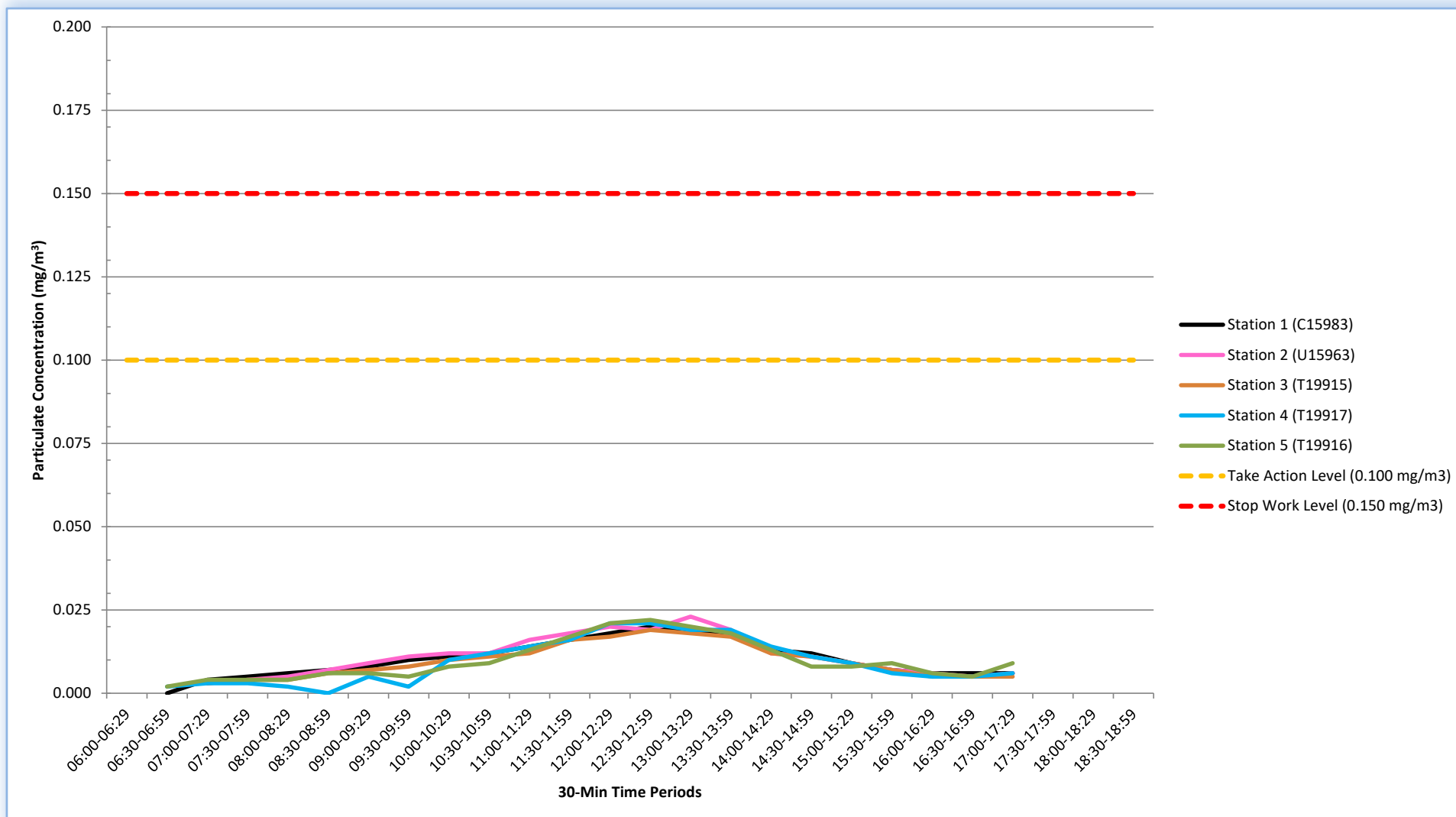
Notes:

- Blank data records indicate no data is available for that interval
- Average Wind Direction calculated with unit vector averaging method

Daily Summary Report Graph
(30-Min Average Values)
Real-Time Perimeter Particulate (PM-10) Monitoring Data
Frisco CDC Site - Frisco, TX



2/9/2024



Daily Summary Report Table (30-Min Average Values)

Real-Time Perimeter Particulate (PM-10) Monitoring Data

Frisco CDC Site - Frisco, TX

2/10/2024



Time Interval (30-min)	Station 1 (C15983) (mg/m3)	Station 2 (U15963) (mg/m3)	Station 3 (T19915) (mg/m3)	Station 4 (T19917) (mg/m3)	Station 5 (T19916) (mg/m3)	Wind Direction (from N)	Wind Speed (mph)
06:00-06:29						114	2.2
06:30-06:59	0.001	0.005	0.003	0.001	0.002	116	2.7
07:00-07:29	0.005	0.004	0.004	0.000	0.005	129	2.4
07:30-07:59	0.005	0.004	0.003	0.000	0.006	115	2.7
08:00-08:29	0.003	0.004	0.003	0.002	0.004	103	2.2
08:30-08:59	0.003	0.003	0.002	0.003	0.004	121	1.2
09:00-09:29	0.002	0.003	0.002	0.002	0.005	132	1.0
09:30-09:59						118	2.0
10:00-10:29						93	2.5
10:30-10:59						36	2.5
11:00-11:29						87	4.1
11:30-11:59						103	5.2
12:00-12:29						89	5.0
12:30-12:59						91	5.8
13:00-13:29						103	4.9
13:30-13:59						93	5.7
14:00-14:29						108	6.5
14:30-14:59						111	7.7
15:00-15:29						100	7.0
15:30-15:59						95	7.4
16:00-16:29						87	7.2
16:30-16:59						89	5.8
17:00-17:29						88	5.3
17:30-17:59						74	5.3
18:00-18:29						71	3.6
18:30-18:59						55	4.6
Daily Average	0.003	0.004	0.003	0.001	0.004	82	4.3

Notes:

- Blank data records indicate no data is available for that interval
- Average Wind Direction calculated with unit vector averaging method

Particulate Concentration (mg/m³)

30-Min Time Periods

Station 1 (C15983)
 Station 2 (U15963)
 Station 3 (T19915)
 Station 4 (T19917)
 Station 5 (T19916)
 Take Action Level (0.100 mg/m³)
 Stop Work Level (0.150 mg/m³)

Daily Summary Report Table (30-Min Average Values)

Real-Time Perimeter Particulate (PM-10) Monitoring Data

Frisco CDC Site - Frisco, TX

2/14/2024



Time Interval (30-min)	Station 1 (C15983) (mg/m3)	Station 2 (U15963) (mg/m3)	Station 3 (T19915) (mg/m3)	Station 4 (T19917) (mg/m3)	Station 5 (T19916) (mg/m3)	Wind Direction (from N)	Wind Speed (mph)
06:00-06:29						183	5.4
06:30-06:59						184	5.2
07:00-07:29						148	3.9
07:30-07:59						146	4.1
08:00-08:29						154	4.2
08:30-08:59						178	5.4
09:00-09:29						190	7.1
09:30-09:59						200	8.0
10:00-10:29						198	8.7
10:30-10:59						202	9.0
11:00-11:29						198	10.1
11:30-11:59	0.002	0.003	0.002	0.000	0.001	184	10.4
12:00-12:29	0.002	0.003	0.002	0.000	0.000	190	11.2
12:30-12:59	0.002	0.002	0.002	0.000	0.000	193	11.2
13:00-13:29	0.003	0.003	0.002	0.001	0.002	196	12.1
13:30-13:59	0.002	0.002	0.002	0.001	0.003	184	10.7
14:00-14:29	0.002	0.002	0.002	0.002	0.001	190	11.9
14:30-14:59	0.002	0.002	0.002	0.003	0.002	187	12.7
15:00-15:29	0.002	0.001	0.001	0.002	0.002	181	13.5
15:30-15:59	0.001	0.002	0.001	0.004	0.001	179	12.6
16:00-16:29		0.001				168	11.8
16:30-16:59						163	12.1
17:00-17:29						167	12.1
17:30-17:59						169	11.4
18:00-18:29						165	8.7
18:30-18:59						170	9.8
Daily Average	0.002	0.002	0.002	0.001	0.001	177	9.4

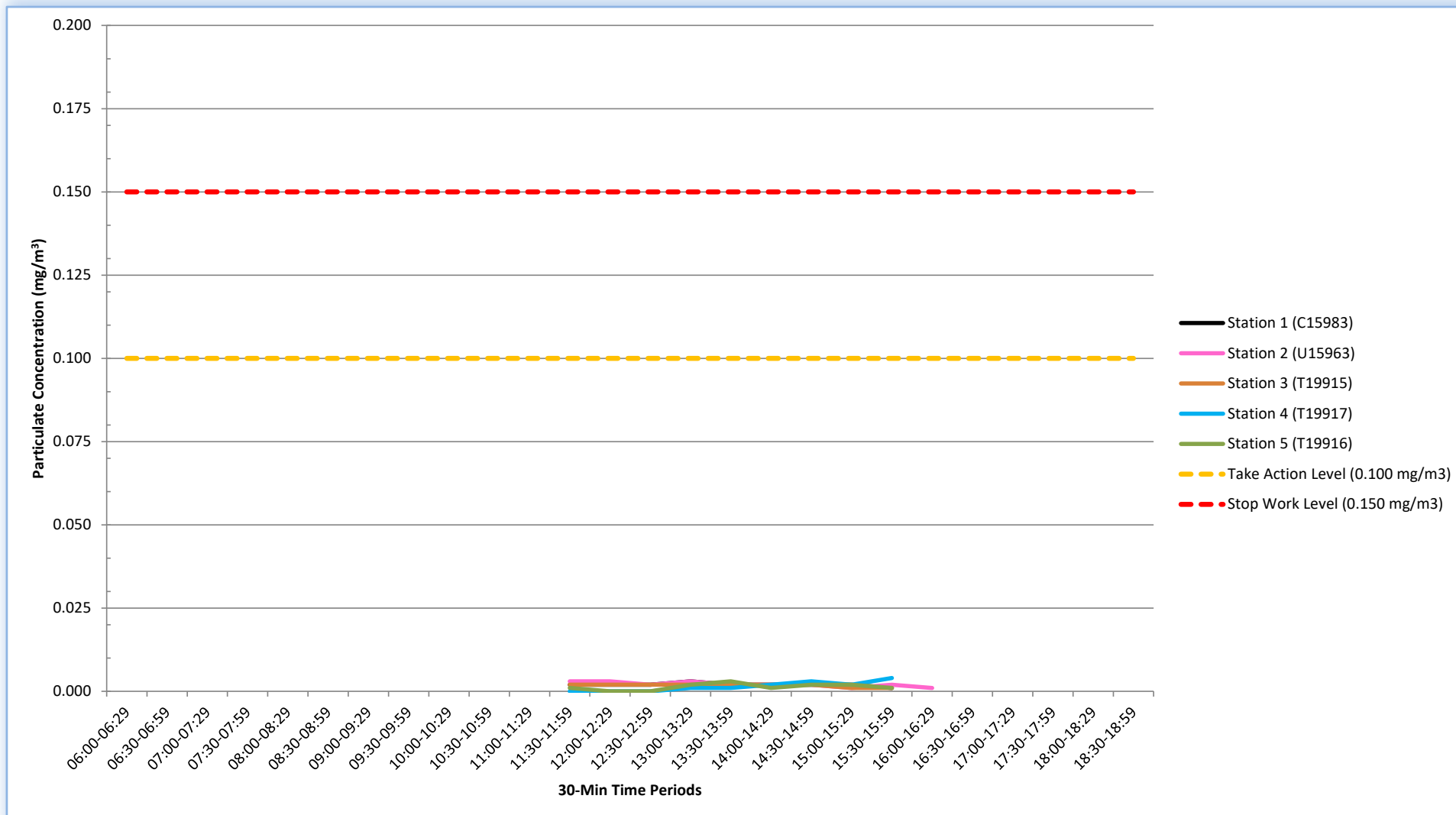
Notes:

- Blank data records indicate no data is available for that interval
- Average Wind Direction calculated with unit vector averaging method

Daily Summary Report Graph
(30-Min Average Values)
Real-Time Perimeter Particulate (PM-10) Monitoring Data
Frisco CDC Site - Frisco, TX



2/14/2024



Daily Summary Report Table (30-Min Average Values)

Real-Time Perimeter Particulate (PM-10) Monitoring Data

Frisco CDC Site - Frisco, TX

2/16/2024



Time Interval (30-min)	Station 1 (C15983) (mg/m3)	Station 2 (U15963) (mg/m3)	Station 3 (T19915) (mg/m3)	Station 4 (T19917) (mg/m3)	Station 5 (T19916) (mg/m3)	Wind Direction (from N)	Wind Speed (mph)
06:00-06:29						175	9.7
06:30-06:59	0.003	0.007	0.001	0.002	0.002	177	9.9
07:00-07:29	0.006	0.006	0.005	0.003	0.006	182	10.5
07:30-07:59	0.005	0.005	0.005	0.000	0.001	183	11.3
08:00-08:29	0.006	0.006	0.005	0.005	0.004	190	10.7
08:30-08:59	0.006	0.006	0.006	0.006	0.005	191	11.5
09:00-09:29	0.006	0.007	0.006	0.005	0.006	196	11.1
09:30-09:59	0.006	0.007	0.006	0.006	0.006	205	11.0
10:00-10:29	0.007	0.008	0.006	0.008	0.006	210	10.6
10:30-10:59	0.006	0.007	0.005	0.008	0.004	227	10.2
11:00-11:29	0.006	0.006	0.005	0.006	0.004	250	11.4
11:30-11:59	0.007	0.006	0.006	0.005	0.006	270	10.1
12:00-12:29	0.008	0.007	0.007	0.008	0.007	295	11.6
12:30-12:59	0.008	0.007	0.006	0.009	0.010	314	11.7
13:00-13:29	0.009	0.007	0.007	0.008	0.009	322	10.4
13:30-13:59	0.008	0.008	0.008	0.008	0.008	332	12.0
14:00-14:29	0.011	0.010	0.009	0.010	0.010	338	12.1
14:30-14:59	0.013	0.012	0.013	0.014	0.012	351	11.8
15:00-15:29	0.012	0.011	0.012	0.014	0.012	339	10.8
15:30-15:59						343	9.5
16:00-16:29						354	9.7
16:30-16:59						356	9.3
17:00-17:29						352	9.5
17:30-17:59						346	9.4
18:00-18:29						348	9.6
18:30-18:59						350	8.0
Daily Average	0.007	0.007	0.007	0.007	0.007	285	10.5

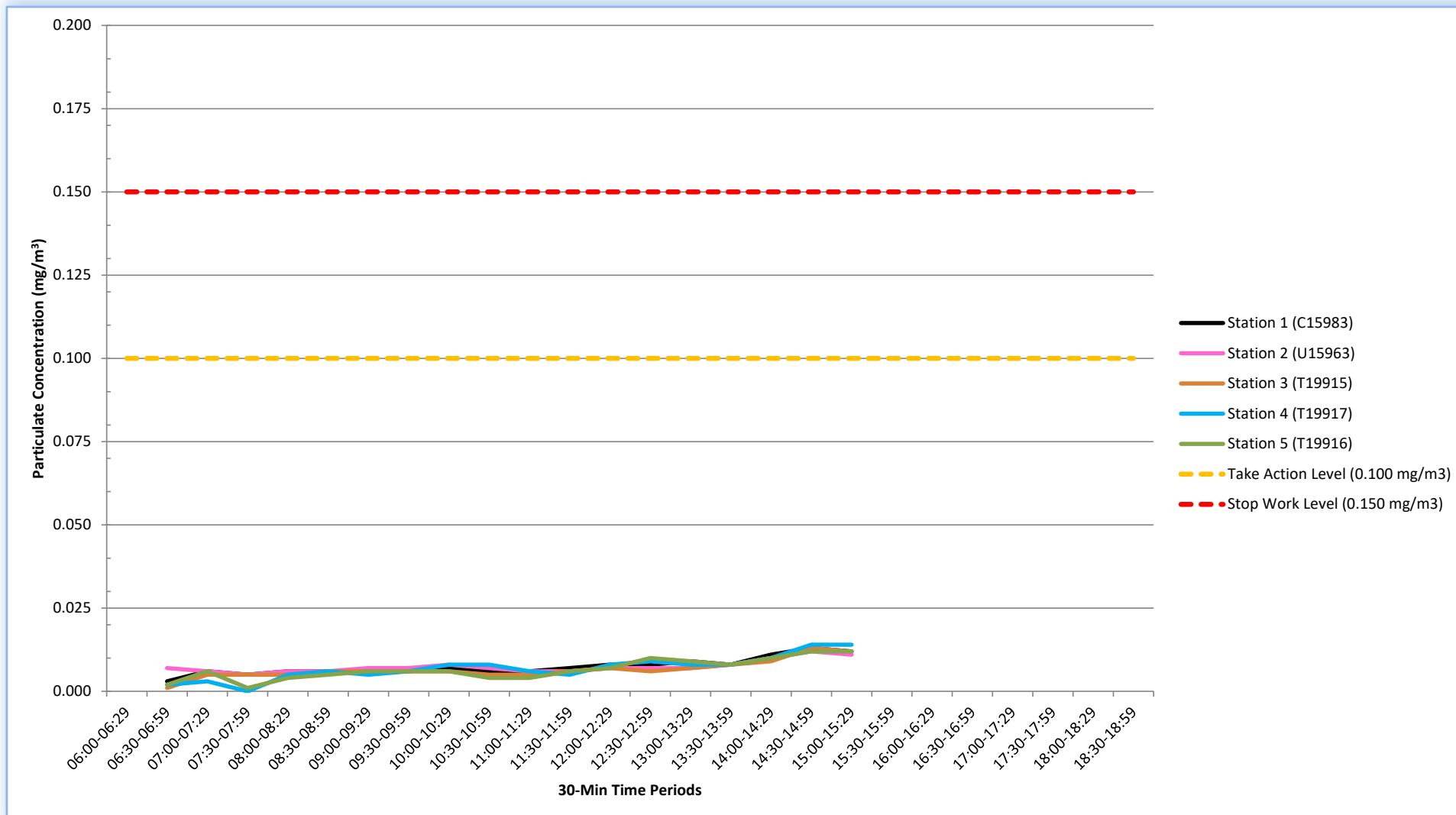
Notes:

- Blank data records indicate no data is available for that interval
- Average Wind Direction calculated with unit vector averaging method

Daily Summary Report Graph
(30-Min Average Values)
Real-Time Perimeter Particulate (PM-10) Monitoring Data
Frisco CDC Site - Frisco, TX



2/16/2024



Daily Summary Report Table (30-Min Average Values)

Real-Time Perimeter Particulate (PM-10) Monitoring Data

Frisco CDC Site - Frisco, TX

2/17/2024



Time Interval (30-min)	Station 1 (C15983) (mg/m3)	Station 2 (U15963) (mg/m3)	Station 3 (T19915) (mg/m3)	Station 4 (T19917) (mg/m3)	Station 5 (T19916) (mg/m3)	Wind Direction (from N)	Wind Speed (mph)
06:00-06:29						19	10.7
06:30-06:59						18	9.3
07:00-07:29		0.001	0.005	0.000	0.003	12	8.7
07:30-07:59		0.001	0.001	0.003	0.005	11	9.6
08:00-08:29		0.002	0.002	0.002	0.004	1	12.9
08:30-08:59		0.002	0.002	0.001	0.004	6	10.3
09:00-09:29		0.002	0.003	0.002	0.001	8	11.3
09:30-09:59		0.002	0.002	0.004	0.000	8	11.9
10:00-10:29		0.002	0.003	0.002	0.004	360	10.3
10:30-10:59		0.003	0.008	0.000	0.003	353	11.1
11:00-11:29		0.003	0.004	0.003	0.003	351	11.7
11:30-11:59		0.005	0.004	0.003	0.003	352	11.9
12:00-12:29		0.002	0.003	0.002	0.001	5	10.6
12:30-12:59		0.002	0.003	0.000	0.000	359	10.7
13:00-13:29		0.002	0.002	0.001	0.002	352	10.4
13:30-13:59		0.002	0.002	0.001	0.003	358	10.7
14:00-14:29		0.001	0.001	0.002	0.001	352	9.5
14:30-14:59		0.001	0.001	0.002	0.000	346	10.8
15:00-15:29						354	10.1
15:30-15:59						356	10.5
16:00-16:29						357	10.6
16:30-16:59						356	9.5
17:00-17:29						356	8.7
17:30-17:59						347	8.3
18:00-18:29						348	10.2
18:30-18:59						345	9.4
Daily Average	0.000	0.002	0.003	0.002	0.002	359	10.4

Notes:

- Blank data records indicate no data is available for that interval
- Average Wind Direction calculated with unit vector averaging method

The graph displays particulate concentration (mg/m³) on the y-axis (ranging from 0.000 to 0.200) against 30-minute time periods on the x-axis (from 06:00-06:29 to 18:30-18:59). Five data series represent different stations: Station 1 (C15983) in black, Station 2 (U15963) in pink, Station 3 (T19915) in orange, Station 4 (T19917) in blue, and Station 5 (T19916) in green. Two horizontal dashed lines indicate action levels: a yellow line for the 'Take Action Level (0.100 mg/m³)' and a red line for the 'Stop Work Level (0.150 mg/m³)'. The data shows that concentrations at all stations are consistently below the Take Action Level, with most readings near 0.000 mg/m³. The Stop Work Level is not reached at any point during the observed period.

Daily Summary Report Table (30-Min Average Values)

Real-Time Perimeter Particulate (PM-10) Monitoring Data

Frisco CDC Site - Frisco, TX

2/19/2024



Time Interval (30-min)	Station 1 (C15983) (mg/m3)	Station 2 (U15963) (mg/m3)	Station 3 (T19915) (mg/m3)	Station 4 (T19917) (mg/m3)	Station 5 (T19916) (mg/m3)	Wind Direction (from N)	Wind Speed (mph)
06:00-06:29						135	5.9
06:30-06:59		0.000				138	6.5
07:00-07:29	0.003	0.003	0.002	0.002	0.002	148	6.4
07:30-07:59	0.004	0.004	0.004	0.005	0.000	155	7.7
08:00-08:29	0.004	0.005	0.004	0.003	0.002	160	6.9
08:30-08:59	0.004	0.005	0.003	0.000	0.001	168	6.9
09:00-09:29	0.003	0.004	0.003	0.002	0.002	178	8.5
09:30-09:59	0.003	0.004	0.003	0.000	0.004	180	9.2
10:00-10:29	0.003	0.006	0.003	0.001	0.003	182	9.5
10:30-10:59	0.003	0.005	0.003	0.000	0.004	175	9.0
11:00-11:29	0.003	0.004	0.003	0.001	0.004	179	9.5
11:30-11:59	0.003	0.003	0.002	0.000	0.005	179	10.1
12:00-12:29	0.003	0.003	0.002	0.002	0.002	193	9.5
12:30-12:59	0.004	0.003	0.003	0.003	0.003	198	13.9
13:00-13:29	0.002	0.002	0.002	0.002	0.002	194	14.0
13:30-13:59	0.002	0.002	0.002	0.001	0.003	201	12.4
14:00-14:29	0.002	0.002	0.002	0.001	0.003	192	13.5
14:30-14:59	0.002	0.003	0.002	0.000	0.003	193	10.7
15:00-15:29	0.002	0.002	0.001	0.000	0.002	193	11.1
15:30-15:59	0.002	0.003	0.001	0.000	0.000	192	11.2
16:00-16:29	0.002	0.003	0.001	0.000	0.001	189	11.7
16:30-16:59	0.002	0.002	0.002	0.000	0.002	188	10.5
17:00-17:29	0.002			0.000	0.001	184	9.4
17:30-17:59						178	8.2
18:00-18:29						172	5.7
18:30-18:59						173	4.3
Daily Average	0.003	0.003	0.002	0.001	0.002	176	9.3

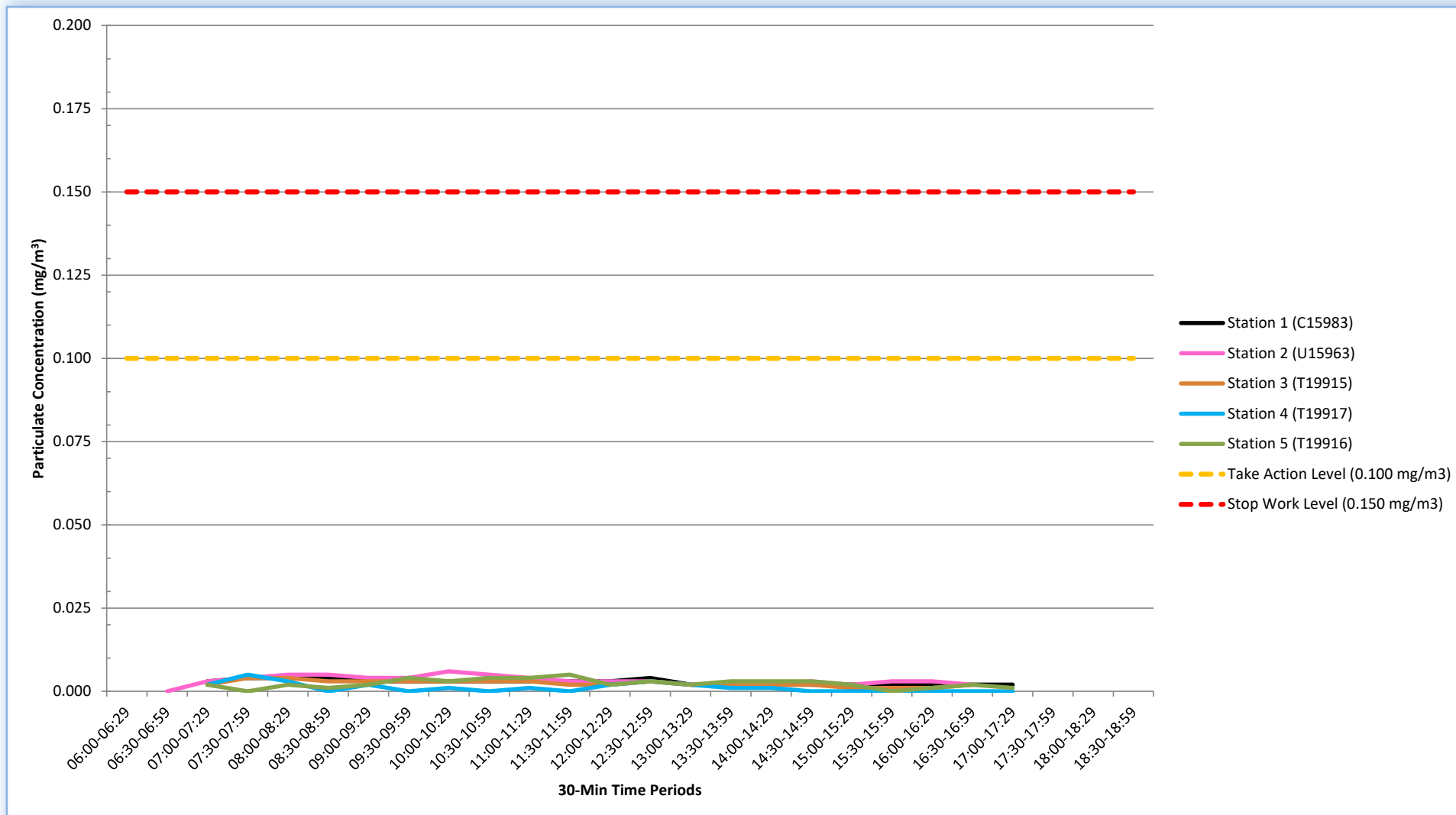
Notes:

- Blank data records indicate no data is available for that interval
- Average Wind Direction calculated with unit vector averaging method

Daily Summary Report Graph
(30-Min Average Values)
Real-Time Perimeter Particulate (PM-10) Monitoring Data
Frisco CDC Site - Frisco, TX



2/19/2024



ATTACHMENT B

Air Monitoring Laboratory Analytical Reports and Data Usability Summary

Data Usability Summary

To: Catherine Mear Date: February 23, 2024
From: Madeline Mertes File: Frisco 2024-02 Air Monitoring DUS.docx
RE: Review of February 2024 Air Monitoring Data CC: Tim Jennings

WSP USA Inc (WSP) reviewed eight laboratory reports from ALS Environmental (Salt Lake City, Utah) providing the analytical results for air monitoring samples collected February 8 to February 19, 2024 from the Frisco Community Development Site. Quality control (QC) data were reviewed as described in RG-366/TRRP-13 (Review and Reporting of COC Concentration Data under TRRP, May 2010). The results of the review are discussed in this memorandum. Data were collected to evaluate the potential off-site exposure during remediation activities to chemicals of concern (COC).

Samples were analyzed for cadmium and lead using the analytical method listed below.

- NIOSH 7300 Mod., MCE – Elements by ICP

TCEQ does not offer accreditation for National Institute of Occupational Safety and Health (NIOSH) analytical methods. ALS is accredited by the American Industrial Hygiene Association (AIHA) for the analysis of elements by inductively coupled plasma (ICP) (Certificate 101574). Table 1 lists the sample identifications cross-referenced to laboratory identifications and the analyses performed for each sample. No data are qualified due to exceedances of QC criteria.

QUALITY CONTROL RESULTS

Field and laboratory blank concentrations and laboratory control sample precision and accuracy results were evaluated from data presented in the QC section of the laboratory report.

PRESERVATION AND HOLDING TIMES

There are no preservation or holding time requirements for NIOSH 7300.

CALIBRATIONS

No calibration data were provided in the laboratory report.

BLANKS

No analytes were detected in field or laboratory blanks.

LABORATORY CONTROL SAMPLES

Laboratory control samples (LCS) and laboratory control sample duplicate (LCSD) (if analyzed) recoveries were within the laboratory acceptance criteria of 90 to 111 percent recovery (%R) for cadmium and 92 to 113 %R for lead. LCS/LCSD precision (as relative percent difference [RPD]) was less than the laboratory acceptance criteria of 15 RPD.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Matrix spike/matrix spike duplicate (MS/MSD) analyses are not applicable to the method.

FIELD PRECISION

Field duplicate (as co-located) samples were not collected.

SUMMARY

Data are usable for determining concentrations of cadmium and lead in air samples. No data were qualified by the reviewer. Note that the laboratory uses “()” to denote concentrations between the limit of detection (sample detection limit) and the limit of quantitation (method quantitation limit). This data should be considered as estimated (J).

Table 1 Cross-Reference Field Sample Identifications and Laboratory Identifications

Field Identification	Laboratory Identification	Cadmium / Lead	Comment
FOPR240209DW983	2404323001	X	
FOPR240209UW963	2404323002	X	
FOPR240209UW915	2404323003	X	
FOPR240209UW917	2404323004	X	
FOPR240209UW916	2404323005	X	
FOPR240216DW983	2405129001	X	
FOPR240216DW963	2405129002	X	
FOPR240216DW915	2405129003	X	
FOPR240216DW917	2405129004	X	
FOPR240216DW916	2405129005	X	
FOPR240216FB	2405129006	X	Field Blank
FOPR240219DW983	2405127001	X	
FOPR240219DW963	2405127002	X	
FOPR240219DW915	2405127003	X	
FOPR240219DW917	2405127004	X	
FOPR240219DW916	2405127005	X	
FOPR240219FB	2405127006	X	Field Blank



ANALYTICAL REPORT

Report Date: February 14, 2024

Grant Sherwood
Remediation Services, Inc.
P.O. Box 587
2735 South 10th Street
Independence, KS 67301

Phone: (620) 331-1200
Fax: (620) 331-6216
E-mail: gsherwood@rsi-ks.com

Workorder: **34-2404323**

Client Project ID: Frisco Development Corporation
Purchase Order: 22382
Project Manager: Jessica Cofrancesco

Analytical Results

Sample ID: FOPR240209DW983		Collected: 02/09/2024	
Lab ID: 2404323001		Received: 02/12/2024	
Sampling Location: Soil Remediation			
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter	
Dilution: 1		Instrument: ICP12	
Sampling Parameter: Air Volume 5093 L		Prepared: 02/12/2024 (314854)	
		Analyzed: 02/14/2024 (314947)	

Sample ID: FOPR240209UW963		Collected: 02/09/2024	
Lab ID: 2404323002		Received: 02/12/2024	
Sampling Location: Soil Remediation			
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter	
Dilution: 1		Instrument: ICP12	
Sampling Parameter: Air Volume 5057 L		Prepared: 02/12/2024 (314854)	
		Analyzed: 02/14/2024 (314947)	

Sample ID: FOPR240209UW915		Collected: 02/09/2024	
Lab ID: 2404323003		Received: 02/12/2024	
Sampling Location: Soil Remediation			
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter	
Dilution: 1		Instrument: ICP12	
Sampling Parameter: Air Volume 5159 L		Prepared: 02/12/2024 (314854)	
		Analyzed: 02/14/2024 (314947)	



ANALYTICAL REPORT

Workorder: **34-2404323**

Client Project ID: Frisco Development Corporation

Purchase Order: 22382

Project Manager: Jessica Cofrancesco

Analytical Results

Sample ID: FOPR240209UW917		Collected: 02/09/2024		
Lab ID: 2404323004		Received: 02/12/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP12		
Sampling Parameter: Air Volume 5121 L		Prepared: 02/12/2024 (314854)		
		Analyzed: 02/14/2024 (314947)		
Analyte	Result (ug/sample)	Result (mg/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0000044	0.023	0.075
Lead	<0.15	<0.000029	0.15	0.50

Sample ID: FOPR240209UW916		Collected: 02/09/2024		
Lab ID: 2404323005		Received: 02/12/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP12		
Sampling Parameter: Air Volume 5214 L		Prepared: 02/12/2024 (314854)		
		Analyzed: 02/14/2024 (314947)		
Analyte	Result (ug/sample)	Result (mg/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0000043	0.023	0.075
Lead	<0.15	<0.000029	0.15	0.50

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method (Analysis Batch)	Analyst	Peer Review
NIOSH 7300 Mod., MCE (314947)	/S/ Ethan Hamilton 02/14/2024 14:59	/S/ Peter P. Steen 02/14/2024 16:07

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsglobal.com/slt



ANALYTICAL REPORT

Workorder: **34-2404323**

Client Project ID: Frisco Development Corporation

Purchase Order: 22382

Project Manager: Jessica Cofrancesco

General Lab Comments

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	DOECAP-AP	L24-29	http://www.pjllabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Laboratory-Accreditation

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

NA = Not Applicable.

** No result could be reported, see sample comments for details.

< Means this testing result is less than the numerical value.

() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.



ANALYTICAL REPORT

Report Date: February 21, 2024

Grant Sherwood
Remediation Services, Inc.
P.O. Box 587
2735 South 10th Street
Independence, KS 67301

Phone: (620) 331-1200
Fax: (620) 331-6216
E-mail: gsherwood@rsi-ks.com

Workorder: **34-2405129**

Client Project ID: Frisco Development Corporation
Purchase Order: 22382
Project Manager: Jessica Cofrancesco

Analytical Results

Sample ID: FOPR240216DW983		Collected: 02/16/2024		
Lab ID: 2405129001		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5581 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0040	0.023	0.075
Lead	<0.15	<0.027	0.15	0.50

Sample ID: FOPR240216DW963		Collected: 02/16/2024	
Lab ID: 2405129002		Received: 02/20/2024	
Sampling Location: Soil Remediation			
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter	
Dilution: 1		Instrument: ICP14	
Sampling Parameter: Air Volume 5560 L		Prepared: 02/20/2024 (315073)	
		Analyzed: 02/21/2024 (315107)	

Sample ID: FOPR240216DW915		Collected: 02/16/2024	
Lab ID: 2405129003		Received: 02/20/2024	
Sampling Location: Soil Remediation			
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter	
Dilution: 1		Instrument: ICP14	
Sampling Parameter: Air Volume 5320 L		Prepared: 02/20/2024 (315073)	
		Analyzed: 02/21/2024 (315107)	



ANALYTICAL REPORT

Workorder: **34-2405129**

Client Project ID: Frisco Development Corporation

Purchase Order: 22382

Project Manager: Jessica Cofrancesco

Analytical Results

Sample ID: FOPR240216DW917		Collected: 02/16/2024		
Lab ID: 2405129004		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5610 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0040	0.023	0.075
Lead	<0.15	<0.027	0.15	0.50

Sample ID: FOPR240216DW916		Collected: 02/16/2024		
Lab ID: 2405129005		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5393 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0042	0.023	0.075
Lead	<0.15	<0.028	0.15	0.50

Sample ID: FOPR240216FB		Collected: 02/16/2024		
Lab ID: 2405129006		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 0 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	NA	0.023	0.075
Lead	<0.15	NA	0.15	0.50

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method (Analysis Batch)	Analyst	Peer Review
NIOSH 7300 Mod., MCE (315107)	/S/ Joanna C. Sanchez 02/21/2024 13:11	/S/ Peter P. Steen 02/21/2024 14:56

Laboratory Contact Information

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960 W Levoy Drive
Salt Lake City, Utah 84123

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Web: www.alsglobal.com/slt



ANALYTICAL REPORT

Workorder: **34-2405129**

Client Project ID: Frisco Development Corporation

Purchase Order: 22382

Project Manager: Jessica Cofrancesco

General Lab Comments

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	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Laboratory-Accreditation

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NA = Not Applicable.

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() This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.



ANALYTICAL REPORT

Report Date: February 21, 2024

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Phone: (620) 331-1200
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E-mail: gsherwood@rsi-ks.com

Workorder: **34-2405127**

Client Project ID: Frisco Development Corporation
Purchase Order: 22071
Project Manager: Jessica Cofrancesco

Analytical Results

Sample ID: FOPR240219DW983		Collected: 02/19/2024		
Lab ID: 2405127001		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5708 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0039	0.023	0.075
Lead	<0.15	<0.026	0.15	0.50

Sample ID: FOPR240219DW963		Collected: 02/19/2024		
Lab ID: 2405127002		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5978 L		Prepared: 02/20/2024 (315087)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0038	0.023	0.075
Lead	(0.15)	(0.025)	0.15	0.50

Sample ID: FOPR240219DW915		Collected: 02/19/2024		
Lab ID: 2405127003		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5597 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0040	0.023	0.075
Lead	<0.15	<0.027	0.15	0.50



ANALYTICAL REPORT

Workorder: **34-2405127**

Client Project ID: Frisco Development Corporation

Purchase Order: 22071

Project Manager: Jessica Cofrancesco

Analytical Results

Sample ID: FOPR240219DW917		Collected: 02/19/2024		
Lab ID: 2405127004		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5752 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0000039	0.023	0.075
Lead	<0.15	<0.000026	0.15	0.50

Sample ID: FOPR240219DW916		Collected: 02/19/2024		
Lab ID: 2405127005		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 5449 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.0041	0.023	0.075
Lead	<0.15	<0.028	0.15	0.50

Sample ID: FOPR240219FB		Collected: 02/19/2024		
Lab ID: 2405127006		Received: 02/20/2024		
Sampling Location: Soil Remediation				
Method: NIOSH 7300 Mod., MCE		Media: MCE Filter		
Dilution: 1		Instrument: ICP14		
Sampling Parameter: Air Volume 0 L		Prepared: 02/20/2024 (315073)		
		Analyzed: 02/21/2024 (315107)		
Analyte	Result (ug/sample)	Result (ug/m³)	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	NA	0.023	0.075
Lead	<0.15	NA	0.15	0.50

Comments

Sample: 2405127002

NIOSH 7300 Mod: Sample 2405127002 had the backup pad digested along with the submitted MCE filter due to dust staining on the backup pad.

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method (Analysis Batch)	Analyst	Peer Review
NIOSH 7300 Mod., MCE (315107)	/S/ Joanna C. Sanchez 02/21/2024 13:11	/S/ Peter P. Steen 02/21/2024 14:56

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
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