Naval Facilities Engineering Command Southwest
BRAC PMO West
San Diego, CA

Interim

Air Sampling Summary Report No. 08

Data Date Range: November 20, 2019 through August 28, 2020, Parcel E Remedial Action—Phase 1

Hunters Point Naval Shipyard, CA

October 2020

Approved for public release: distribution unlimited.

DCN: APTM-2005-0024-0082

Naval Facilities Engineering Command Southwest
BRAC PMO West
San Diego, CA

Interim

Air Sampling Summary Report No. 08

Data Date Range: November 20, 2019 through August 28, 2020, Parcel E Remedial Action—Phase 1

Hunters Point Naval Shipyard, CA

October 2020

DCN: APTM-2005-0024-0082

Prepared for:

Department of the Navy
Naval Facilities Engineering Command Southwest
BRAC PMO West
33000 Nixie Way, Bldg. 50
San Diego, CA 92147

Prepared by:

Aptim Federal Services, LLC
4005 Port Chicago Highway, Suite 200
Concord, CA 94520
Contract Number: N62473-12-D-2005; Task Order: 0024

Table of Contents

List of Attachments

List of Figures

List of Tables (in text)

Acronyms and Abbreviations

APTIM ..... Aptim Federal Services, LLC

DCP ..... dust control plan

EPA ..... U.S. Environmental Protection Agency

PM10 ..... particulate matter larger than 10 microns in size

TSP ..... total suspended particulates

Work Plan ..... *Final Remedial Action Work Plan, Parcel E Remedial Action—Phase 1, Hunters Point Naval Shipyard, San Francisco, California*

This page intentionally left blank

1.0 Introduction

Aptim Federal Services, LLC (APTIM) is providing environmental remediation services to the U.S. Department of the Navy under the Environmental Multiple Award Contract, Contract No. N62473-12-D-2005, Task Order 0024. APTIM is performing air sampling at Hunters Point Naval Shipyard in accordance with the dust control plan (DCP) included in Appendix C of the *Final Remedial Action Work Plan, Parcel E Remedial Action—Phase 1, Hunters Point Naval Shipyard, San Francisco, California* (Work Plan; APTIM, 2019). The DCP describes procedures that minimize dust during work activities and requires air sampling to ensure these procedures are effective. The DCP helps prevent exposure of residents and construction crews to potential airborne chemicals of concern, and dust from the work area.

This summary report describes the following:

- Where and how air samples are collected
- What test methods are used to analyze air samples
- How air sampling data are evaluated

This summary report also presents the air sampling analytical results from November 20, 2019 through August 28, 2020, and compares the results with the established action levels included in the Work Plan (APTIM, 2019).

This page intentionally left blank

2.0 Sampling Site Locations

Air sampling stations were mobilized to collect air samples upwind and downwind of work areas for the duration of the project. The predominant wind direction at Hunters Point Naval Shipyard is from the west. Figure 1 shows locations of air sampling stations and wind direction. For the fieldwork conducted during this period, APTIM uses upwind and downwind sampling locations marked as “Air Sampling Station #1 Upwind” near Crisp Road and “Air Sampling Station #2 Downwind” in Parcel D-1 near the Finger Piers (Figure 1). Air sampling is being performed to help ensure effective dust control. The locations of the air sampling stations were determined based on the prevailing wind direction and can be modified as needed. A windsock installed onsite is used to show wind direction and weather forecasts are checked daily at www.noaa.gov. Sampling stations remain stationary while sampling is being conducted. Each sampling station includes three separate air sampling systems for the following:

- Total suspended particulates (TSP) and for arsenic, lead, and manganese
- Particulate matter larger than 10 microns in size (PM10)
- Asbestos

This page intentionally left blank

3.0 Analytical Methods

TSP, Arsenic, Lead, and Manganese: TSP samples are collected with a high-volume (39 to 60 cubic feet per minute) air sampler in accordance with U.S. Environmental Protection Agency's (EPA's) reference sampling method for TSP, described in Title 40 Code of Federal Regulations, Part 50, Appendix B. Each sample is collected on a filter over an approximately 8-hour workday period; the filter is then weighed to determine the amount of TSP collected. Once the amount of TSP has been determined, the sample is analyzed for arsenic, lead and manganese in accordance with one of the IO-3 methods identified in the *Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air* (EPA, 1999a). The equipment specifications and sampling procedures used, including the sampling apparatus, filters, equipment accuracy, equipment calibration, and quality assurance checks, all conform to those specified in the analytical method.

PM10: Air samples are collected and analyzed for PM10 in accordance with EPA's reference sampling method for PM10, described in 40 Code of Federal Regulations Part 50, Appendix J. Each sample is collected on a filter over an approximately 8-hour workday period; the filter is then weighed to evaluate the concentrations of PM10 in ambient air.

Asbestos: Air samples are collected and analyzed for asbestos in accordance with the National Institute for Occupational Safety and Health Method 7400, in the *NIOSH Manual of Analytical Methods* (1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters, which are fitted with conductive cowlings, at a sampling rate of between 0.5 liter per minute and 16 liters per minute.

This page intentionally left blank

4.0 Analysis of Air Sampling Data

Analytical results from air sampling samples are compared with the action levels listed in Table 4-1 and in accordance with the Work Plan (APTIM, 2019).

Table 4-1: Air Sampling Action Levels

Test Parameters	Action Level[b]	Basis
PM10 (by air sampling laboratory analysis)	5,000 µg/m^3 (basewide)	Cal/OSHA PEL[a]
TSP	0.5 mg/m^3	Basewide HPNS Level selected to minimize overall permissible dust release from sites
Arsenic	10 µg/m^3	Cal/OSHA PEL
Lead	50 µg/m^3	Cal/OSHA PEL
Manganese	200 µg/m^3	Cal/OSHA PEL
Asbestos	0.1 fiber/cm^3	Cal/OSHA PEL

Notes:
[a] Cal/OSHA PEL for particulates not otherwise regulated (respiratory) used for PM10.
[b] Basewide action levels are from the *Final Basewide Dust Control Plan, Revision 1, Hunters Point Shipyard, San Francisco, California* (TetraTech EC, Inc., 2010).

µg/m^3	micrograms per cubic meter
Cal/OSHA	California Occupational Safety and Health Administration
fiber/cm^3	fibers per cubic centimeter
HPNS	Hunters Point Naval Shipyard
mg/m^3	milligrams per cubic meter
PEL	permissible exposure limit
PM10	particulate matter smaller than 10 microns in diameter
TSP	total suspended particulates

This page intentionally left blank

5.0 Air Sampling Results

The tables included as Attachment 1 present weather information (including ambient pressure and temperature data) and air sampling results. Air sampling data were collected from the upwind sampling station and downwind sampling station, identified in Section 2.0. Attachment 2 includes analytical laboratory results. Table 5-1 lists each interim air sampling report, the dates covered in each report, and if there were anomalies in the sample collection/sample results. If there is an anomaly identified, further clarification is provided.

Table 5-1: Air Sampling Report Summary

Interim Report Number	New Data Date Range	Anomaly Noted (Yes/No)
01	11/20/2019 – 11/30/2019	Yes
02	12/02/2019 – 12/31/2019	Yes
03	01/02/2020 – 01/31/2020	Yes
04	02/03/2020 – 02/28/2020	Yes
05	03/02/2020 – 05/22/2020	Yes
06	05/25/2020 – 06/27/2020	Yes
07	06/27/2020 – 07/31/2020	Yes
08	08/03/2020 – 08/28/2020	No

5.1 Report 01

Air sampling samples were not collected on November 27, 2019, because rain and/or wet field conditions prohibited earth-moving activities. Due to the Thanksgiving holiday, samples were not collected November 28 and 29, 2019. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.2 Report 02

Air samples were not collected on December 2 to 6 and December 11 to 20, 2019, as no earth-moving activities were conducted. Due to the Christmas holiday, samples were not collected December 25, 2019. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.3 Report 03

Air samples were not collected on January 1 to 2 and January 8 to 31, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.4 Report 04

Air samples were not collected on February 3 to 10 and February 20 to 28, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.5 Report 05

Air samples were not collected from March 2 through April 28, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.6 Report 06

Air samples were not collected on May 25, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.7 Report 07

Air samples were not collected on July 03, 2020, as no earth-moving activities were conducted. Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

5.8 Report 08

Air sampling results collected during this sampling period were below the action levels identified in Table 4-1.

6.0 References

Aptim Federal Services, LLC, 2019, *Final Remedial Action Work Plan, Parcel E Remedial Action—Phase 1, Hunters Point Naval Shipyard, San Francisco, California*, September.

National Institute for Occupational Safety and Health, 1994, *NIOSH Manual of Analytical Methods,* Method 7400, August.

Tetra Tech EC, Inc., 2010, *Final Basewide Dust Control Plan, Revision 1, Hunters Point Naval Shipyard, San Francisco, California*, November 29.

U.S. Environmental Protection Agency (EPA), 1999a, *Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air*.

EPA, 1999b, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. Compendium Method TO-4A, Determination of Pesticides and Polychlorinated Biphenyls in Ambient Air Using High Volume Polyurethane Foam (PUF) Sampling Followed by Gas Chromatographic/Multi-Detector Detection (GC/MD)*. EPA/625/R-96-010b, Office of Research and Development, January. Available Online at: <http://www.epa.gov/ttnamti1/files/ambient/airtox/to-4ar2r.pdf>.

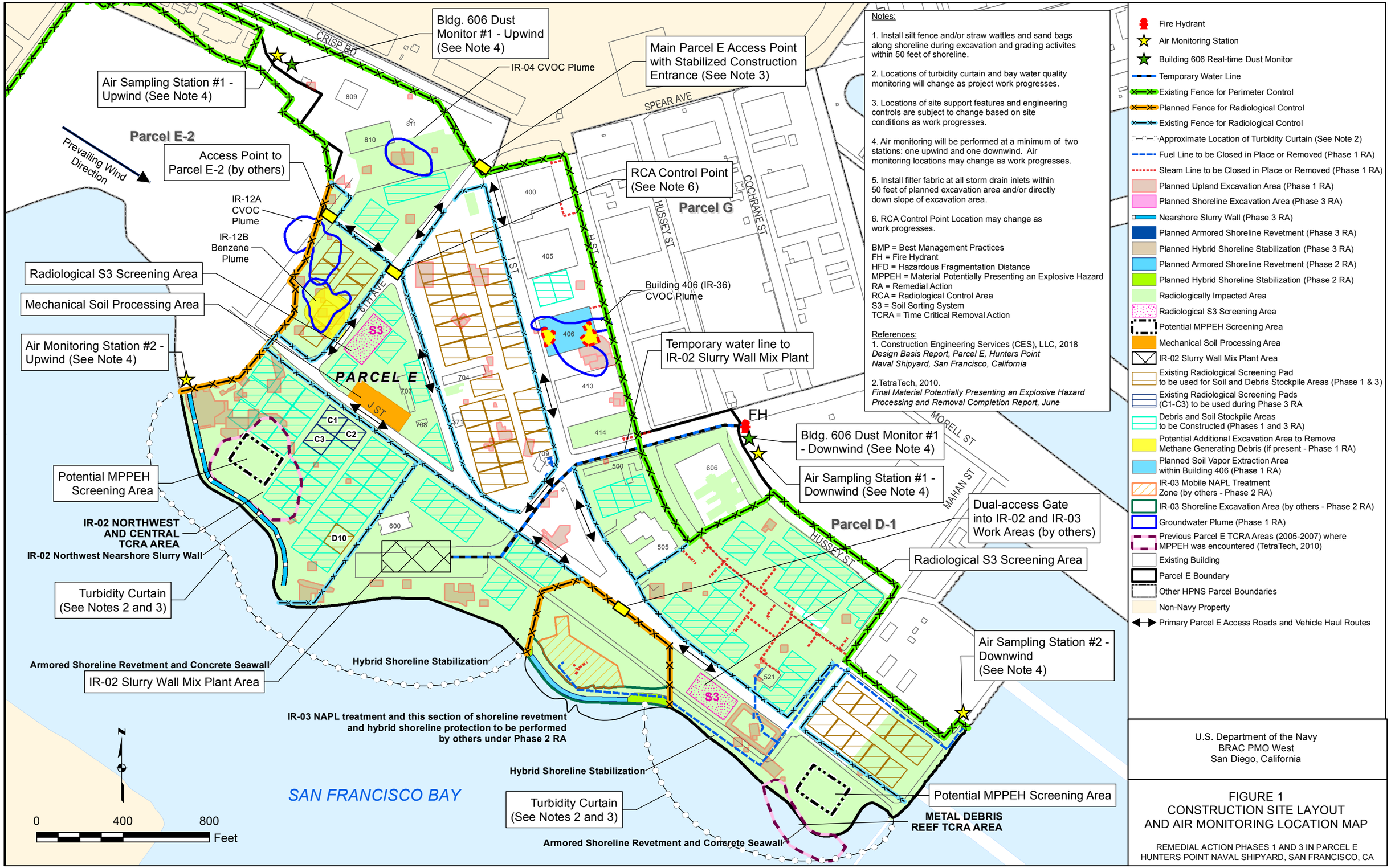
EPA, 1999c, *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition. Compendium Method TO-13A, Determination of Polycyclic Aromatic Hydrocarbons in Ambient Air Using Gas Chromatography/Mass Spectrometry (GC/MS),* EPA/625/R-96/010b, January. Available Online at: <http://www.epa.gov/ttnamti1/files/ambient/airtox/to-13arr.pdf>.

This page intentionally left blank

FIGURE

This page intentionally left blank

Figure



Notes:

1. Install silt fence and/or straw wattles and sand bags along shoreline during excavation and grading activites within 50 feet of shoreline.

2. Locations of turbidity curtain and bay water quality monitoring will change as project work progresses.

3. Locations of site support features and engineering controls are subject to change based on site conditions as work progresses.

4. Air monitoring will be performed at a minimum of two stations: one upwind and one downwind. Air monitoring locations may change as work progresses.

5. Install filter fabric at all storm drain inlets within 50 feet of planned excavation area and/or directly down slope of excavation area.

6. RCA Control Point Location may change as work progresses.

BMP = Best Management Practices
FH = Fire Hydrant
HFD = Hazardous Fragmentation Distance
MPPEH = Material Potentially Presenting an Explosive Hazard
RA = Remedial Action
RCA = Radiological Control Area
S3 = Soil Sorting System
TCRA = Time Critical Removal Action

References:

1. Construction Engineering Services (CES), LLC, 2018
Design Basis Report, Parcel E, Hunters Point Naval Shipyard, San Francisco, California

2.TetraTech, 2010.
Final Material Potentially Presenting an Explosive Hazard Processing and Removal Completion Report, June

- Fire Hydrant
- Air Monitoring Station
- Building 606 Real-time Dust Monitor
- Temporary Water Line
- Existing Fence for Perimeter Control
- Planned Fence for Radiological Control
- Existing Fence for Radiological Control
- Approximate Location of Turbidity Curtain (See Note 2)
- Fuel Line to be Closed in Place or Removed (Phase 1 RA)
- Steam Line to be Closed in Place or Removed (Phase 1 RA)
- Planned Upland Excavation Area (Phase 1 RA)
- Planned Shoreline Excavation Area (Phase 3 RA)
- Nearshore Slurry Wall (Phase 3 RA)
- Planned Armored Shoreline Revetment (Phase 3 RA)
- Planned Hybrid Shoreline Stabilization (Phase 3 RA)
- Planned Armored Shoreline Revetment (Phase 2 RA)
- Planned Hybrid Shoreline Stabilization (Phase 2 RA)
- Radiologically Impacted Area
- Radiological S3 Screening Area
- Potential MPPEH Screening Area
- Mechanical Soil Processing Area
- IR-02 Slurry Wall Mix Plant Area
- Existing Radiological Screening Pad to be used for Soil and Debris Stockpile Areas (Phase 1 & 3)
- Existing Radiological Screening Pads (C1-C3) to be used during Phase 3 RA
- Debris and Soil Stockpile Areas to be Constructed (Phases 1 and 3 RA)
- Potential Additional Excavation Area to Remove Methane Generating Debris (if present - Phase 1 RA)
- Planned Soil Vapor Extraction Area within Building 406 (Phase 1 RA)
- IR-03 Mobile NAPL Treatment Zone (by others - Phase 2 RA)
- IR-03 Shoreline Excavation Area (by others - Phase 2 RA)
- Groundwater Plume (Phase 1 RA)
- Previous Parcel E TCRA Areas (2005-2007) where MPPEH was encountered (TetraTech, 2010)
- Existing Building
- Parcel E Boundary
- Other HPNS Parcel Boundaries
- Non-Navy Property
- Primary Parcel E Access Roads and Vehicle Haul Routes

U.S. Department of the Navy
BRAC PMO West
San Diego, California

FIGURE 1
CONSTRUCTION SITE LAYOUT AND AIR MONITORING LOCATION MAP

REMEDIAL ACTION PHASES 1 AND 3 IN PARCEL E
HUNTERS POINT NAVAL SHIPYARD, SAN FRANCISCO, CA

G:\HUNTERS_PT\GIS_Documents\Project_Maps\E_CTO24\HP_E_117_ConstructionSiteLayout.mxd 2/10/2020

DCN: APTM-2005-0024-0082

This page intentionally left blank

ATTACHMENT 1
AIR SAMPLING RESULTS

This page intentionally left blank

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
20-Nov-19	30.24	8.7
21-Nov-19	30.24	11.2
22-Nov-19	30.30	15.1
25-Nov-19	30.22	11.2
26-Nov-19	30.20	12.3
27-Nov-19	30.12	13.9
28-Nov-19	30.02	12.7
29-Nov-19	30.12	17.6
2-Dec-19	30.18	12.7
3-Dec-19	30.19	13.1
4-Dec-19	30.03	12.2
5-Dec-19	30.14	12.7
6-Dec-19	30.08	14.3
9-Dec-19	30.27	11.6
10-Dec-19	30.32	12.2
11-Dec-19	30.29	12.8
12-Dec-19	30.36	14.9
13-Dec-19	30.33	12.9
16-Dec-19	30.42	10.4
17-Dec-19	30.30	10.6
18-Dec-19	30.17	11.5
19-Dec-19	30.30	12.5
20-Dec-19	30.30	11.2
23-Dec-19	29.99	9.6
24-Dec-19	30.00	9.8
25-Dec-19	29.92	10.0
26-Dec-19	30.07	10.6
27-Dec-19	30.16	10.1
30-Dec-19	30.23	11.1
31-Dec-19	30.23	11.4
1-Jan-20	30.24	11.7
2-Jan-20	30.23	12.1
3-Jan-20	30.32	11.1
6-Jan-20	30.57	10.5
7-Jan-20	30.37	10.3
8-Jan-20	30.21	11.2
9-Jan-20	30.28	10.8
10-Jan-20	30.40	9.7
13-Jan-20	30.29	10.6

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
14-Jan-20	30.33	10.4
15-Jan-20	30.23	9.0
16-Jan-20	30.17	9.1
17-Jan-20	30.39	9.1
20-Jan-20	30.12	10.3
21-Jan-20	30.23	11.9
22-Jan-20	30.33	11.8
23-Jan-20	30.31	12.0
24-Jan-20	30.25	12.7
27-Jan-20	30.48	11.9
28-Jan-20	30.42	12.1
29-Jan-20	30.36	11.8
30-Jan-20	30.32	12.9
31-Jan-20	30.39	13.3
3-Feb-20	30.25	9.2
4-Feb-20	30.37	10.3
5-Feb-20	30.35	10.3
6-Feb-20	30.26	12.2
7-Feb-20	30.23	11.4
10-Feb-20	30.11	15.4
11-Feb-20	30.14	17.0
12-Feb-20	30.12	13.1
13-Feb-20	30.18	10.3
14-Feb-20	30.21	11.4
17-Feb-20	30.20	15.7
18-Feb-20	30.12	13.5
19-Feb-20	30.20	11.7
20-Feb-20	30.21	13.6
21-Feb-20	30.16	15.2
24-Feb-20	30.46	12.7
25-Feb-20	30.35	16.2
26-Feb-20	30.40	12.5
27-Feb-20	30.31	16.6
28-Feb-20	30.20	13.8
2-Mar-20	30.00	15.8
3-Mar-20	30.00	15.4
4-Mar-20	30.10	14.9
5-Mar-20	30.10	13.1
6-Mar-20	30.00	12.4

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
9-Mar-20	30.10	13.4
10-Mar-20	30.00	15.7
11-Mar-20	30.00	15.0
12-Mar-20	29.90	12.9
13-Mar-20	29.80	12.7
16-Mar-20	29.90	9.3
17-Mar-20	29.90	9.4
18-Mar-20	29.90	10.8
19-Mar-20	30.00	11.8
20-Mar-20	30.20	12.2
23-Mar-20	30.10	11.7
24-Mar-20	30.10	11.2
25-Mar-20	30.10	10.3
26-Mar-20	30.10	10.4
27-Mar-20	30.10	11.7
30-Mar-20	30.30	13.1
31-Mar-20	30.20	13.3
1-Apr-20	30.00	12.3
2-Apr-20	30.10	11.6
3-Apr-20	30.00	11.5
6-Apr-20	29.90	8.7
7-Apr-20	30.10	10.2
8-Apr-20	29.90	12.8
9-Apr-20	30.00	13.8
10-Apr-20	30.00	13.9
13-Apr-20	30.10	13.4
14-Apr-20	30.20	16.0
15-Apr-20	30.00	14.9
16-Apr-20	29.90	13.0
17-Apr-20	29.90	13.6
20-Apr-20	30.10	13.8
21-Apr-20	30.20	13.4
22-Apr-20	30.30	14.9
23-Apr-20	30.20	15.3
24-Apr-20	30.10	16.4
27-Apr-20	30.10	15.4
28-Apr-20	30.10	15.3
29-Apr-20	30.00	14.2
30-Apr-20	30.10	13.8

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
1-May-20	30.10	14.8
4-May-20	30.10	14.4
5-May-20	30.10	14.5
6-May-20	30.10	15.9
7-May-20	29.90	17.1
8-May-20	29.90	15.7
11-May-20	29.90	15.3
12-May-20	30.00	14.9
13-May-20	30.00	15.3
14-May-20	30.10	16.2
15-May-20	30.10	15.2
18-May-20	29.90	14.9
19-May-20	30.00	15.3
20-May-20	30.10	14.9
21-May-20	30.00	15.3
22-May-20	29.90	14.6
25-May-20	29.90	19.6
26-May-20	29.90	21.9
27-May-20	29.90	18.4
28-May-20	29.90	14.9
29-May-20	29.90	16.2
1-Jun-20	30.00	16.5
2-Jun-20	30.00	20.4
3-Jun-20	29.90	20.4
4-Jun-20	29.80	18.3
5-Jun-20	29.80	14.7
8-Jun-20	30.20	16.7
9-Jun-20	30.10	17.9
10-Jun-20	30.00	17.1
11-Jun-20	30.00	17.1
12-Jun-20	30.10	15.6
13-Jun-20	30.10	16.2
15-Jun-20	30.00	16.4
16-Jun-20	30.00	15.7
17-Jun-20	30.00	13.8
18-Jun-20	29.69	25.22
19-Jun-20	29.71	19.00
22-Jun-20	29.74	19.78
23-Jun-20	29.71	19.39
24-Jun-20	29.65	19.89

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
25-Jun-20	29.63	19.39
26-Jun-20	29.68	19.11
27-Jun-20	29.65	17.00
28-Jun-20	29.54	15.94
29-Jun-20	29.68	16.30
30-Jun-20	29.71	16.60
1-Jul-20	29.62	15.39
2-Jul-20	29.82	19.39
3-Jul-20	29.82	15.17
4-Jul-20	29.82	17.22
7-Jul-20	29.75	16.33
8-Jul-20	29.68	15.83
9-Jul-20	29.71	16.61
10-Jul-20	29.80	14.94
13-Jul-20	29.67	14.56
14-Jul-20	29.71	16.00
15-Jul-20	29.70	16.17
16-Jul-20	29.70	15.83
17-Jul-20	29.75	16.56
20-Jul-20	29.80	15.22
21-Jul-20	29.70	15.72
22-Jul-20	29.64	16.78
23-Jul-20	29.70	15.50
24-Jul-20	29.72	14.94
27-Jul-20	29.72	15.33
28-Jul-20	29.72	15.11
29-Jul-20	29.73	15.28
30-Jul-20	29.80	15.39
31-Jul-20	29.82	16.00
3-Aug-20	30.01	17.33
4-Aug-20	29.97	16.89
5-Aug-20	29.95	16.28
6-Aug-20	29.90	17.17
7-Aug-20	29.92	17.83
10-Aug-20	29.90	17.22
11-Aug-20	29.92	17.67
12-Aug-20	29.91	16.83
13-Aug-20	29.90	19.67
14-Aug-20	29.86	24.56
17-Aug-20	29.93	19.67
18-Aug-20	29.94	20.50

Attachment 1, Table 1: Ambient Pressure and Temperature Monitoring Results

Date	Ambient Pressure (in Hg)	Ambient Temperature (°C)
19-Aug-20	29.91	19.39
20-Aug-20	29.88	16.89
21-Aug-20	29.85	18.94
24-Aug-20	29.83	17.11
25-Aug-20	29.86	16.94
26-Aug-20	29.85	15.06
27-Aug-20	29.82	15.00
28-Aug-20	29.81	15.39

Notes:
Ambient pressure and ambient temperature data were gathered from the Wunderground weather website (www.wunderground.com).
Ambient pressure and ambient temperature data were gathered from the Ambient Weather website (www.ambientweather.net) starting August 3, 2020.
Data were collected from KSFO, San Francisco, San Francisco International Airport
°C - degrees Celsius
in Hg - inches of mercury

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
20-Nov-19	Upwind	9.8	0.076	No	0.096	No	<0.016	No	0.050	No
20-Nov-19	Downwind	9.9	0.072	No	0.130	No	<0.016	No	0.022	No
21-Nov-19	Upwind	7.5	0.071	No	0.148	No	<0.016	No	0.050	No
21-Nov-19	Downwind	7.5	0.041	No	0.164	No	<0.016	No	<0.016	No
22-Nov-19	Upwind	8.8	0.060	No	0.122	No	0.023	No	0.203	No
22-Nov-19	Downwind	8.8	0.045	No	0.142	No	<0.016	No	<0.016	No
25-Nov-19	Upwind	8.9	0.052	No	0.116	No	<0.016	No	0.051	No
25-Nov-19	Downwind	8.7	0.043	No	0.127	No	<0.016	No	<0.016	No
26-Nov-19	Upwind	7.4	0.038	No	0.145	No	<0.016	No	<0.016	No
26-Nov-19	Downwind	7.5	0.024	No	0.122	No	<0.016	No	<0.016	No
27-Nov-19	Upwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
27-Nov-19	Downwind	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
28-Nov-19	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
28-Nov-19	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
29-Nov-19	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
29-Nov-19	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Dec-19	Upwind	4.3	0.080	No	0.074	No	0.191	No	0.144	No
9-Dec-19	Downwind	4.1	0.105	No	<0.016	No	0.190	No	<0.016	No
10-Dec-19	Upwind	9.4	0.077	No	<0.016	No	0.056	No	0.099	No
10-Dec-19	Downwind	9.4	0.069	No	<0.016	No	0.064	No	<0.016	No
11-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
17-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Dec-19	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Dec-19	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Dec-19	Upwind	7.5	0.028	No	0.095	No	0.069	No	0.294	No
23-Dec-19	Downwind	7.5	0.013	No	0.083	No	0.050	No	0.063	No
24-Dec-19	Upwind	6.8	0.016	No	0.082	No	0.082	No	0.087	No
24-Dec-19	Downwind	6.9	0.018	No	0.090	No	0.090	No	0.060	No
25-Dec-19	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
25-Dec-19	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
26-Dec-19	Upwind	7.433	0.009	No	0.118	No	0.078	No	0.053	No
26-Dec-19	Downwind	7.5	<0.016	No	0.1	No	0.047	No	0.042	No
27-Dec-19	Upwind	7.517	0.019	No	0.049	No	0.036	No	0.054	No
27-Dec-19	Downwind	7.667	0.011	No	0.119	No	0.065	No	0.046	No
30-Dec-19	Upwind	7.317	<0.016	No	0.076	No	0.089	No	0.055	No
30-Dec-19	Downwind	7.3	0.007	No	0.1	No	0.065	No	0.046	No
31-Dec-19	Upwind	7.067	0.010	No	0.128	No	0.080	No	0.130	No
31-Dec-19	Downwind	7.1	0.0	No	0.1	No	0.1	No	0.0	No
1-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Jan-20	Upwind	7.6	0.039	No	<0.016	No	<0.016	No	0.040	No
3-Jan-20	Downwind	7.6	0.024	No	0.050	No	0.044	No	0.054	No
6-Jan-20	Upwind	7.6	0.022	No	<0.016	No	<0.016	No	0.030	No
6-Jan-20	Downwind	7.6	0.017	No	<0.016	No	<0.016	No	0.017	No
7-Jan-20	Upwind	7.9	0.019	No	<0.016	No	<0.016	No	0.015	No
7-Jan-20	Downwind	8.0	0.016	No	<0.016	No	<0.016	No	0.016	No
8-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
14-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
14-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Jan-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Jan-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
10-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Feb-20	Upwind	7.2	0.029	No	<0.016	No	<0.016	No	0.0203	No
11-Feb-20	Downwind	7.2	0.042	No	<0.016	No	<0.016	No	<0.016	No
12-Feb-20	Upwind	5.5	0.023	No	<0.016	No	0.0396	No	<0.016	No
12-Feb-20	Downwind	5.6	0.032	No	<0.016	No	<0.016	No	<0.016	No
13-Feb-20	Upwind	5.3	0.018	No	<0.016	No	<0.016	No	<0.016	No
13-Feb-20	Downwind	5.1	0.015	No	<0.016	No	<0.016	No	<0.016	No
14-Feb-20	Upwind	7.8	0.010	No	<0.016	No	<0.016	No	<0.016	No
14-Feb-20	Downwind	7.7	0.008	No	<0.016	No	<0.016	No	<0.016	No
17-Feb-20	Upwind	7.7	0.013	No	<0.016	No	<0.016	No	0.1849	No
17-Feb-20	Downwind	7.6	0.007	No	<0.016	No	0.0284	No	<0.016	No
18-Feb-20	Upwind	7.0	0.008	No	<0.016	No	<0.016	No	<0.016	No
18-Feb-20	Downwind	7.1	0.012	No	<0.016	No	<0.016	No	<0.016	No
19-Feb-20	Upwind	3.8	0.018	No	<0.016	No	0.0560	No	<0.016	No
19-Feb-20	Downwind	3.9	<0.016	No	<0.016	No	<0.016	No	<0.016	No
20-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Feb-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Feb-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
5-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
9-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
12-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
18-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
19-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
25-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
26-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
30-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Mar-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
31-Mar-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
3-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
3-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
6-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
7-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
9-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
10-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
13-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
14-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
14-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
15-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
16-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
17-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
20-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
21-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
22-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
23-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
24-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
27-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Apr-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
28-Apr-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
29-Apr-20	Upwind	9.5	0.0090	No	<0.016	No	<0.016	No	<0.016	No
29-Apr-20	Downwind	9.4	0.0394	No	<0.016	No	<0.016	No	0.0363	No
30-Apr-20	Upwind	9.5	0.0188	No	<0.016	No	0.0240	No	0.0150	No
30-Apr-20	Downwind	9.6	0.0699	No	<0.016	No	0.0351	No	0.0519	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
1-May-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
1-May-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
4-May-20	Upwind	9.6	0.0223	No	<0.016	No	<0.016	No	0.0136	No
4-May-20	Downwind	9.6	0.0049	No	<0.016	No	<0.016	No	0.0410	No
5-May-20	Upwind	9.5	0.0428	No	<0.016	No	<0.016	No	0.0225	No
5-May-20	Downwind	9.4	0.0568	No	<0.016	No	0.0226	No	0.0351	No
6-May-20	Upwind	9.6	0.0226	No	<0.016	No	0.0215	No	0.0141	No
6-May-20	Downwind	9.5	0.0507	No	<0.016	No	0.0247	No	0.0322	No
7-May-20	Upwind	9.4	0.0543	No	<0.016	No	0.0429	No	0.0334	No
7-May-20	Downwind	9.5	0.0541	No	<0.016	No	0.0390	No	0.0336	No
8-May-20	Upwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
8-May-20	Downwind	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
11-May-20	Upwind	9.7	0.0356	No	<0.016	No	<0.016	No	0.0344	No
11-May-20	Downwind	9.6	0.0315	No	<0.016	No	0.0	No	0.0238	No
12-May-20	Upwind	9.6	0.0181	No	<0.016	No	<0.016	No	0.0135	No
12-May-20	Downwind	9.5	0.0239	No	<0.016	No	<0.016	No	0.0159	No
13-May-20	Upwind	9.6	0.0179	No	<0.016	No	<0.016	No	0.0187	No
13-May-20	Downwind	9.5	0.0131	No	<0.016	No	<0.016	No	<0.016	No
14-May-20	Upwind	9.5	0.0123	No	<0.016	No	<0.016	No	0.0144	No
14-May-20	Downwind	9.5	0.0101	No	<0.016	No	<0.016	No	0.0144	No
15-May-20	Upwind	9.4	0.0289	No	<0.016	No	<0.016	No	0.0146	No
15-May-20	Downwind	9.4	0.0206	No	<0.016	No	<0.016	No	0.0129	No
18-May-20	Upwind	9.7	0.0146	No	<0.016	No	<0.016	No	0.0093	No
18-May-20	Downwind	9.7	0.0220	No	<0.016	No	0.020	No	0.0258	No
19-May-20	Upwind	9.6	0.0342	No	<0.016	No	0.022	No	0.0176	No
19-May-20	Downwind	9.6	0.0137	No	<0.016	No	0.022	No	0.0153	No
20-May-20	Upwind	9.6	0.0266	No	<0.016	No	<0.016	No	0.0136	No
20-May-20	Downwind	9.5	0.0221	No	<0.016	No	<0.016	No	0.0139	No
21-May-20	Upwind	9.6	0.0393	No	<0.016	No	<0.016	No	0.0217	No
21-May-20	Downwind	9.7	0.0266	No	<0.016	No	0.019	No	0.0153	No
22-May-20	Upwind	9.5	0.0216	No	<0.016	No	0.019	No	0.0128	No
22-May-20	Downwind	9.5	0.0232	No	<0.016	No	<0.016	No	0.0154	No
25-May-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
25-May-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
26-May-20	Upwind	9.7	0.0485	No	<0.027	No	0.019	No	<0.0091	No
26-May-20	Downwind	9.6	0.0332	No	<0.028	No	<0.018	No	<0.0092	No
27-May-20	Upwind	9.6	0.0478	No	<0.028	No	<0.018	No	<0.0092	No
27-May-20	Downwind	9.5	0.0427	No	<0.028	No	<0.018	No	<0.0092	No
28-May-20	Upwind	9.6	0.0229	No	<0.028	No	<0.018	No	<0.0092	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
28-May-20	Downwind	9.5	0.0265	No	<0.028	No	<0.019	No	<0.0093	No
29-May-20	Upwind	9.5	0.0341	No	<0.028	No	<0.019	No	0.0105	No
29-May-20	Downwind	9.5	0.0158	No	<0.028	No	<0.019	No	<0.0093	No
30-May-20	Upwind	7.5	0.0340	No	<0.035	No	<0.023	No	<0.0117	No
30-May-20	Downwind	7.4	0.0280	No	<0.036	No	<0.024	No	<0.0119	No
1-Jun-20	Upwind	7.6	0.0532	No	<0.035	No	<0.023	No	<0.0116	No
1-Jun-20	Downwind	7.6	0.0407	No	<0.035	No	<0.023	No	<0.0116	No
2-Jun-20	Upwind	7.6	0.0991	No	<0.035	No	<0.023	No	<0.0208	No
2-Jun-20	Downwind	7.6	0.0564	No	<0.035	No	<0.023	No	<0.0117	No
3-Jun-20	Upwind	8.6	0.0917	No	<0.031	No	<0.021	No	0.0202	No
3-Jun-20	Downwind	7.6	0.0924	No	<0.035	No	<0.023	No	<0.026	No
4-Jun-20	Upwind	7.5	0.1180	No	<0.035	No	<0.029	No	0.0440	No
4-Jun-20	Downwind	7.5	0.0364	No	<0.035	No	<0.023	No	0.0117	No
5-Jun-20	Upwind	9.8	0.0302	No	<0.027	No	0.029	No	0.0090	No
5-Jun-20	Downwind	9.7	0.0255	No	<0.027	No	<0.018	No	<0.0091	No
8-Jun-20	Upwind	9.7	0.0443	No	<0.027	No	<0.018	No	<0.0091	No
8-Jun-20	Downwind	9.8	0.0295	No	<0.027	No	<0.018	No	<0.0090	No
9-Jun-20	Upwind	9.7	0.0478	No	<0.027	No	<0.018	No	<0.0091	No
9-Jun-20	Downwind	9.8	0.0335	No	<0.027	No	<0.018	No	<0.0090	No
10-Jun-20	Upwind	9.8	0.0438	No	<0.027	No	<0.018	No	<0.0091	No
10-Jun-20	Downwind	9.8	0.0323	No	<0.027	No	<0.018	No	<0.0091	No
11-Jun-20	Upwind	9.6	0.0328	No	<0.027	No	<0.018	No	<0.0092	No
11-Jun-20	Downwind	9.8	0.0201	No	<0.027	No	<0.018	No	<0.0091	No
12-Jun-20	Upwind	9.5	0.0370	No	<0.028	No	<0.019	No	<0.0138	No
12-Jun-20	Downwind	9.6	0.0154	No	<0.028	No	<0.018	No	<0.0092	No
13-Jun-20	Upwind	9.7	0.0561	No	<0.027	No	<0.018	No	<0.0428	No
13-Jun-20	Downwind	9.7	0.0451	No	<0.027	No	<0.018	No	<0.0431	No
15-Jun-20	Upwind	9.8	0.0436	No	<0.027	No	<0.018	No	0.0208	No
15-Jun-20	Downwind	9.8	0.0325	No	<0.027	No	<0.018	No	0.0174	No
17-Jun-20	Upwind	9.6	0.0580	No	<0.028	No	<0.018	No	0.0370	No
17-Jun-20	Downwind	9.7	0.0331	No	<0.027	No	<0.018	No	0.0232	No
18-Jun-20	Upwind	9.7	0.0753	No	<0.027	No	<0.018	No	0.0418	No
18-Jun-20	Downwind	9.7	0.0625	No	<0.027	No	<0.018	No	0.0343	No
19-Jun-20	Upwind	9.8	0.0531	No	<0.027	No	<0.018	No	0.0275	No
19-Jun-20	Downwind	9.8	0.0380	No	<0.027	No	<0.018	No	0.0237	No
20-Jun-20	Upwind	9.8	0.0421	No	<0.027	No	<0.018	No	0.0406	No
20-Jun-20	Downwind	9.8	0.0171	No	<0.027	No	<0.018	No	0.0107	No
22-Jun-20	Upwind	9.6	0.0468	No	<0.028	No	<0.018	No	0.0359	No
22-Jun-20	Downwind	9.7	0.0335	No	<0.027	No	<0.018	No	0.0229	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
23-Jun-20	Upwind	9.7	0.0375	No	<0.027	No	<0.018	No	0.0281	No
23-Jun-20	Downwind	9.7	0.0273	No	<0.027	No	<0.018	No	0.0216	No
24-Jun-20	Upwind	9.7	0.0344	No	<0.027	No	<0.018	No	0.0206	No
24-Jun-20	Downwind	9.7	0.0297	No	<0.027	No	<0.018	No	0.0228	No
25-Jun-20	Upwind	9.7	0.0354	No	<0.027	No	<0.018	No	0.0251	No
25-Jun-20	Downwind	9.7	0.0201	No	<0.027	No	<0.018	No	0.0126	No
26-Jun-20	Upwind	9.6	0.0305	No	<0.027	No	<0.018	No	0.0108	No
26-Jun-20	Downwind	9.7	0.0229	No	<0.027	No	<0.018	No	0.0130	No
27-Jun-20	Upwind	9.7	0.0741	No	<0.027	No	0.028	No	0.0620	No
27-Jun-20	Downwind	9.5	0.0352	No	<0.027	No	<0.018	No	0.0162	No
29-Jun-20	Upwind	9.5	0.0615	No	<0.028	No	0.0112	No	0.0204	No
29-Jun-20	Downwind	9.6	0.0491	No	<0.028	No	0.0135	No	0.0167	No
30-Jun-20	Upwind	9.1	0.0622	No	<0.029	No	0.0147	No	0.0275	No
30-Jun-20	Downwind	9.0	0.0449	No	<0.029	No	0.0159	No	0.0163	No
1-Jul-20	Upwind	9.2	0.0665	No	<0.029	No	0.0173	No	0.0385	No
1-Jul-20	Downwind	9.3	0.0353	No	<0.029	No	0.0073	No	0.0152	No
2-Jul-20	Upwind	9.6	0.0279	No	<0.028	No	0.0183	No	0.0167	No
2-Jul-20	Downwind	9.3	0.0166	No	<0.028	No	0.0197	No	0.0240	No
3-Jul-20	Upwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
3-Jul-20	Downwind	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
6-Jul-20	Upwind	9.1	0.1110	No	0.02330	No	0.0190	No	<0.038	No
6-Jul-20	Downwind	9.1	0.0630	No	<0.029	No	0.0078	No	<0.010	No
7-Jul-20	Upwind	9.7	0.0460	No	<0.027	No	0.0088	No	<0.009	No
7-Jul-20	Downwind	9.7	0.0287	No	<0.027	No	0.0092	No	<0.009	No
8-Jul-20	Upwind	9.8	0.0690	No	<0.027	No	0.0130	No	<0.009	No
8-Jul-20	Downwind	9.5	0.0329	No	<0.028	No	0.0112	No	<0.009	No
9-Jul-20	Upwind	9.4	0.0462	No	<0.028	No	<0.019	No	<0.009	No
9-Jul-20	Downwind	9.4	0.0366	No	0.01090	No	<0.019	No	<0.009	No
10-Jul-20	Upwind	9.2	0.0302	No	<0.029	No	0.0069	No	<0.010	No
10-Jul-20	Downwind	9.1	0.0566	No	<0.029	No	0.0107	No	<0.010	No
13-Jul-20	Upwind	8.5	0.1370	No	<0.031	No	0.0312	No	0.1264	No
13-Jul-20	Downwind	8.4	0.0434	No	<0.031	No	0.0210	No	0.0107	No
14-Jul-20	Upwind	9.1	0.0612	No	<0.029	No	0.0092	No	0.0470	No
14-Jul-20	Downwind	8.8	0.0351	No	<0.030	No	0.0200	No	0.0090	No
15-Jul-20	Upwind	9.3	0.0497	No	<0.028	No	0.0050	No	0.0177	No
15-Jul-20	Downwind	8.8	0.0385	No	<0.030	No	0.0200	No	0.0157	No
16-Jul-20	Upwind	9.1	0.0486	No	<0.029	No	0.0194	No	0.0224	No
16-Jul-20	Downwind	8.9	0.0458	No	<0.030	No	0.0198	No	0.0262	No
17-Jul-20	Upwind	9.6	0.0380	No	<0.028	No	0.0073	No	0.0148	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
17-Jul-20	Downwind	9.2	0.0280	No	0.02386	No	0.0191	No	0.0235	No
20-Jul-20	Upwind	9.3	Note 4	NA	0.01086	No	0.0200	No	0.0218	No
20-Jul-20	Downwind	8.9	Note 4	NA	<0.03	No	0.0185	No	0.0178	No
21-Jul-20	Upwind	9.5	Note 4	NA	<0.028	No	0.0076	No	0.0143	No
21-Jul-20	Downwind	9.1	Note 4	NA	<0.029	No	0.0277	No	0.0321	No
22-Jul-20	Upwind	8.6	Note 4	NA	<0.031	No	0.0294	No	0.0795	No
22-Jul-20	Downwind	9.1	Note 4	NA	<0.029	No	0.0309	No	0.0159	No
23-Jul-20	Upwind	9.7	Note 4	NA	0.01198	No	0.0266	No	0.0233	No
23-Jul-20	Downwind	9.7	Note 4	NA	<0.028	No	0.0125	No	0.0225	No
24-Jul-20	Upwind	9.8	Note 4	NA	<0.027	No	0.0217	No	0.0904	No
24-Jul-20	Downwind	9.3	Note 4	NA	<0.028	No	0.0166	No	0.0268	No
27-Jul-20	Upwind	9.8	0.0361	No	0.01000	No	0.0145	No	0.0172	No
27-Jul-20	Downwind	9.3	0.0398	No	0.01500	No	0.0201	No	0.0315	No
28-Jul-20	Upwind	9.7	0.0447	No	<0.027	No	0.0236	No	0.0274	No
28-Jul-20	Downwind	9.4	0.0250	No	0.03300	No	0.0206	No	0.0155	No
29-Jul-20	Upwind	9.7	0.0313	No	0.01500	No	0.0116	No	0.0180	No
29-Jul-20	Downwind	9.4	0.0276	No	<0.028	No	0.0201	No	0.0176	No
30-Jul-20	Upwind	9.8	0.0314	No	<0.027	No	0.0196	No	0.0147	No
30-Jul-20	Downwind	9.4	0.0212	No	0.01052	No	0.0167	No	0.0142	No
31-Jul-20	Upwind	9.7	0.0364	No	<0.027	No	0.0159	No	0.0136	No
31-Jul-20	Downwind	9.3	0.0215	No	0.02626	No	0.0226	No	0.0127	No
3-Aug-20	Upwind	9.7	0.0569	No	<0.027	No	0.0242	No	0.0280	No
3-Aug-20	Downwind	9.3	0.0883	No	<0.028	No	0.0463	No	0.0599	No
4-Aug-20	Upwind	9.5	0.0503	No	<0.028	No	0.0358	No	0.0278	No
4-Aug-20	Downwind	9.2	0.0458	No	<0.029	No	0.0359	No	0.0195	No
5-Aug-20	Upwind	9.7	0.0741	No	<0.027	No	0.0346	No	0.0357	No
5-Aug-20	Downwind	9.3	0.0391	No	<0.029	No	0.0299	No	0.0208	No
6-Aug-20	Upwind	9.7	0.0499	No	<0.027	No	0.0310	No	0.0235	No
6-Aug-20	Downwind	9.3	0.0452	No	<0.028	No	0.0388	No	0.0223	No
7-Aug-20	Upwind	9.6	0.0669	No	<0.028	No	0.0349	No	0.0192	No
7-Aug-20	Downwind	9.3	0.0756	No	<0.029	No	0.0270	No	0.0239	No
10-Aug-20	Upwind	8.8	0.0539	No	0.01631	No	0.0352	No	0.0537	No
10-Aug-20	Downwind	8.5	0.0568	No	0.01513	No	0.0312	No	0.0573	No
11-Aug-20	Upwind	9.8	0.0395	No	0.00994	No	0.0346	No	0.0578	No
11-Aug-20	Downwind	9.4	0.0224	No	<0.028	No	0.0374	No	0.0244	No
12-Aug-20	Upwind	9.8	0.0373	No	0.03365	No	0.0235	No	0.0231	No
12-Aug-20	Downwind	9.4	0.0347	No	<0.028	No	0.0287	No	0.0320	No
13-Aug-20	Upwind	9.8	0.0598	No	<0.027	No	0.0373	No	0.0341	No
13-Aug-20	Downwind	9.5	0.0590	No	<0.028	No	0.0300	No	0.0363	No

Attachment 1, Table 2: TSP and Metals Sampling Results

Date	Sample Location	Sampling Period (hours)	TSP (mg/m^3)	TSP Exceedance? (Yes/No)	Arsenic ($\mu g/m^3$)	Arsenic Exceedance? (Yes/No)	Lead ($\mu g/m^3$)	Lead Exceedance? (Yes/No)	Manganese ($\mu g/m^3$)	Manganese Exceedance? (Yes/No)
14-Aug-20	Upwind	9.8	0.0708	No	0.01277	No	0.0534	No	0.0521	No
14-Aug-20	Downwind	9.4	0.0519	No	0.01341	No	0.0391	No	0.0361	No
17-Aug-20	Upwind	4.9	0.0731	No	<0.054	No	0.0240	No	0.0811	No
17-Aug-20	Downwind	4.7	0.0371	No	<0.057	No	0.0327	No	0.0619	No
18-Aug-20	Upwind	8.2	0.0663	No	<0.032	No	0.0184	No	0.0764	No
18-Aug-20	Downwind	7.8	0.0748	No	<0.034	No	0.0301	No	0.0789	No
19-Aug-20	Upwind	10.7	0.0899	No	<0.025	No	0.0225	No	0.1014	No
19-Aug-20	Downwind	10.3	0.1090	No	<0.026	No	0.0236	No	0.1175	No
20-Aug-20	Upwind	10.7	0.0447	No	<0.025	No	<0.017	No	0.0510	No
20-Aug-20	Downwind	10.3	0.0382	No	<0.026	No	0.0066	No	0.0439	No
21-Aug-20	Upwind	10.7	0.0430	No	<0.025	No	0.0083	No	0.0322	No
21-Aug-20	Downwind	10.4	0.0608	No	<0.026	No	0.0063	No	0.0427	No
24-Aug-20	Upwind	7.4	0.1020	No	0.02400	No	<0.024	No	0.0637	No
24-Aug-20	Downwind	7.5	0.0918	No	0.01659	No	0.0187	No	0.0719	No
25-Aug-20	Upwind	7.6	0.0846	No	<0.035	No	0.0069	No	0.0541	No
25-Aug-20	Downwind	8.3	0.0744	No	<0.032	No	0.0122	No	0.0519	No
26-Aug-20	Upwind	9.7	0.0438	No	<0.027	No	0.0160	No	0.0560	No
26-Aug-20	Downwind	9.4	0.0307	No	<0.028	No	0.0073	No	0.1356	No
27-Aug-20	Upwind	7.6	0.0710	No	0.02188	No	0.0124	No	0.0689	No
27-Aug-20	Downwind	7.2	0.0374	No	<0.037	No	<0.026	No	0.0424	No
28-Aug-20	Upwind	9.8	0.0917	No	<0.027	No	0.0125	No	0.0352	No
28-Aug-20	Downwind	9.4	0.1080	No	<0.028	No	0.0142	No	0.0590	No

Notes:
Note 1 - Sample not collected due to inclement conditions: Rain.
Note 2 - Samples were not collected as project site was closed for holidays.
Note 3 - Samples were not collected as no excavation was conducted.
Sample locations are shown on Figure 1.
The threshold criteria are as follows: TSP = 0.5 mg/m^3, arsenic = 10 $\mu g/m^3$, lead = 50 $\mu g/m^3$, manganese = 200 $\mu g/m^3$.
The detection limit for TSP is 0.06 $\mu g/m^3$ assuming a minimum sample volume of 1,600 m^3. The detection limits for arsenic, lead and manganese are 16 ng/m^3 assuming minimum sample volumes of 1,600 m^3.
$\mu g/m^3$ - microgram per cubic meter
mg/m^3 - milligram per cubic meter
N/A - not applicable
TSP - total suspended particulates

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
20-Nov-19	Upwind	9.8	43.7	No
20-Nov-19	Downwind	9.9	29.7	No
21-Nov-19	Upwind	7.5	45.5	No
21-Nov-19	Downwind	7.5	33.4	No
22-Nov-19	Upwind	8.8	5.35	No
22-Nov-19	Downwind	8.8	38.8	No
25-Nov-19	Upwind	8.9	31.3	No
25-Nov-19	Downwind	8.7	24.1	No
26-Nov-19	Upwind	7.4	23.1	No
26-Nov-19	Downwind	7.5	16.4	No
27-Nov-19	Upwind	Note 1	Note 1	Note 1
27-Nov-19	Downwind	Note 1	Note 1	Note 1
28-Nov-19	Upwind	Note 2	Note 2	Note 2
28-Nov-19	Downwind	Note 2	Note 2	Note 2
29-Nov-19	Upwind	Note 2	Note 2	Note 2
29-Nov-19	Downwind	Note 2	Note 2	Note 2
2-Dec-19	Upwind	Note 3	Note 3	Note 3
2-Dec-19	Downwind	Note 3	Note 3	Note 3
3-Dec-19	Upwind	Note 3	Note 3	Note 3
3-Dec-19	Downwind	Note 3	Note 3	Note 3
4-Dec-19	Upwind	Note 3	Note 3	Note 3
4-Dec-19	Downwind	Note 3	Note 3	Note 3
5-Dec-19	Upwind	Note 3	Note 3	Note 3
5-Dec-19	Downwind	Note 3	Note 3	Note 3
6-Dec-19	Upwind	Note 3	Note 3	Note 3
6-Dec-19	Downwind	Note 3	Note 3	Note 3
9-Dec-19	Upwind	4.3	3.960	No
9-Dec-19	Downwind	4.1	<0.06	No
10-Dec-19	Upwind	9.4	4.3	No
10-Dec-19	Downwind	9.4	7.5	No
11-Dec-19	Upwind	Note 3	Note 3	Note 3
11-Dec-19	Downwind	Note 3	Note 3	Note 3
12-Dec-19	Upwind	Note 3	Note 3	Note 3
12-Dec-19	Downwind	Note 3	Note 3	Note 3
13-Dec-19	Upwind	Note 3	Note 3	Note 3
13-Dec-19	Downwind	Note 3	Note 3	Note 3
16-Dec-19	Upwind	Note 3	Note 3	Note 3
16-Dec-19	Downwind	Note 3	Note 3	Note 3
17-Dec-19	Upwind	Note 3	Note 3	Note 3
17-Dec-19	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
18-Dec-19	Upwind	Note 3	Note 3	Note 3
18-Dec-19	Downwind	Note 3	Note 3	Note 3
19-Dec-19	Upwind	Note 3	Note 3	Note 3
19-Dec-19	Downwind	Note 3	Note 3	Note 3
20-Dec-19	Upwind	Note 3	Note 3	Note 3
20-Dec-19	Downwind	Note 3	Note 3	Note 3
23-Dec-19	Upwind	7.5	<0.06	No
23-Dec-19	Downwind	7.5	<0.06	No
24-Dec-19	Upwind	6.8	<0.06	No
24-Dec-19	Downwind	6.9	<0.06	No
25-Dec-19	Upwind	Note 2	Note 2	Note 2
25-Dec-19	Downwind	Note 2	Note 2	Note 2
26-Dec-19	Upwind	7.433	<0.06	No
26-Dec-19	Downwind	7.5	<0.06	No
27-Dec-19	Upwind	7.517	<0.06	No
27-Dec-19	Downwind	7.667	<0.06	No
30-Dec-19	Upwind	7.317	<0.06	No
30-Dec-19	Downwind	7.3	<0.06	No
31-Dec-19	Upwind	7.067	<0.06	No
31-Dec-19	Downwind	7.1	10.8	No
1-Jan-20	Upwind	Note 3	Note 3	Note 3
1-Jan-20	Downwind	Note 3	Note 3	Note 3
2-Jan-20	Upwind	Note 3	Note 3	Note 3
2-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Jan-20	Upwind	7.6	<0.06	No
3-Jan-20	Downwind	7.6	18.5	No
6-Jan-20	Upwind	7.6	<0.06	No
6-Jan-20	Downwind	7.6	9.2	No
7-Jan-20	Upwind	7.9	10.4	No
7-Jan-20	Downwind	8.0	7.8	No
8-Jan-20	Upwind	Note 3	Note 3	Note 3
8-Jan-20	Downwind	Note 3	Note 3	Note 3
9-Jan-20	Upwind	Note 3	Note 3	Note 3
9-Jan-20	Downwind	Note 3	Note 3	Note 3
10-Jan-20	Upwind	Note 3	Note 3	Note 3
10-Jan-20	Downwind	Note 3	Note 3	Note 3
13-Jan-20	Upwind	Note 3	Note 3	Note 3
13-Jan-20	Downwind	Note 3	Note 3	Note 3
14-Jan-20	Upwind	Note 3	Note 3	Note 3
14-Jan-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
15-Jan-20	Upwind	Note 3	Note 3	Note 3
15-Jan-20	Downwind	Note 3	Note 3	Note 3
16-Jan-20	Upwind	Note 3	Note 3	Note 3
16-Jan-20	Downwind	Note 3	Note 3	Note 3
17-Jan-20	Upwind	Note 3	Note 3	Note 3
17-Jan-20	Downwind	Note 3	Note 3	Note 3
20-Jan-20	Upwind	Note 3	Note 3	Note 3
20-Jan-20	Downwind	Note 3	Note 3	Note 3
21-Jan-20	Upwind	Note 3	Note 3	Note 3
21-Jan-20	Downwind	Note 3	Note 3	Note 3
22-Jan-20	Upwind	Note 3	Note 3	Note 3
22-Jan-20	Downwind	Note 3	Note 3	Note 3
23-Jan-20	Upwind	Note 3	Note 3	Note 3
23-Jan-20	Downwind	Note 3	Note 3	Note 3
24-Jan-20	Upwind	Note 3	Note 3	Note 3
24-Jan-20	Downwind	Note 3	Note 3	Note 3
27-Jan-20	Upwind	Note 3	Note 3	Note 3
27-Jan-20	Downwind	Note 3	Note 3	Note 3
28-Jan-20	Upwind	Note 3	Note 3	Note 3
28-Jan-20	Downwind	Note 3	Note 3	Note 3
29-Jan-20	Upwind	Note 3	Note 3	Note 3
29-Jan-20	Downwind	Note 3	Note 3	Note 3
30-Jan-20	Upwind	Note 3	Note 3	Note 3
30-Jan-20	Downwind	Note 3	Note 3	Note 3
31-Jan-20	Upwind	Note 3	Note 3	Note 3
31-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Feb-20	Upwind	Note 3	Note 3	Note 3
3-Feb-20	Downwind	Note 3	Note 3	Note 3
4-Feb-20	Upwind	Note 3	Note 3	Note 3
4-Feb-20	Downwind	Note 3	Note 3	Note 3
5-Feb-20	Upwind	Note 3	Note 3	Note 3
5-Feb-20	Downwind	Note 3	Note 3	Note 3
6-Feb-20	Upwind	Note 3	Note 3	Note 3
6-Feb-20	Downwind	Note 3	Note 3	Note 3
7-Feb-20	Upwind	Note 3	Note 3	Note 3
7-Feb-20	Downwind	Note 3	Note 3	Note 3
10-Feb-20	Upwind	Note 3	Note 3	Note 3
10-Feb-20	Downwind	Note 3	Note 3	Note 3
11-Feb-20	Upwind	7.2	<0.06	No
11-Feb-20	Downwind	7.2	21.7	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
12-Feb-20	Upwind	5.5	<0.06	No
12-Feb-20	Downwind	5.6	<0.06	No
13-Feb-20	Upwind	5.3	25.0	No
13-Feb-20	Downwind	5.1	<0.06	No
14-Feb-20	Upwind	7.8	<0.06	No
14-Feb-20	Downwind	7.7	<0.06	No
17-Feb-20	Upwind	7.7	<0.06	No
17-Feb-20	Downwind	7.6	<0.06	No
18-Feb-20	Upwind	7.0	<0.06	No
18-Feb-20	Downwind	7.1	14.0	No
19-Feb-20	Upwind	3.8	<0.06	No
19-Feb-20	Downwind	3.9	<0.06	No
20-Feb-20	Upwind	Note 3	Note 3	Note 3
20-Feb-20	Downwind	Note 3	Note 3	Note 3
21-Feb-20	Upwind	Note 3	Note 3	Note 3
21-Feb-20	Downwind	Note 3	Note 3	Note 3
24-Feb-20	Upwind	Note 3	Note 3	Note 3
24-Feb-20	Downwind	Note 3	Note 3	Note 3
25-Feb-20	Upwind	Note 3	Note 3	Note 3
25-Feb-20	Downwind	Note 3	Note 3	Note 3
26-Feb-20	Upwind	Note 3	Note 3	Note 3
26-Feb-20	Downwind	Note 3	Note 3	Note 3
27-Feb-20	Upwind	Note 3	Note 3	Note 3
27-Feb-20	Downwind	Note 3	Note 3	Note 3
28-Feb-20	Upwind	Note 3	Note 3	Note 3
28-Feb-20	Downwind	Note 3	Note 3	Note 3
2-Mar-20	Upwind	Note 3	Note 3	Note 3
2-Mar-20	Downwind	Note 3	Note 3	Note 3
3-Mar-20	Upwind	Note 3	Note 3	Note 3
3-Mar-20	Downwind	Note 3	Note 3	Note 3
4-Mar-20	Upwind	Note 3	Note 3	Note 3
4-Mar-20	Downwind	Note 3	Note 3	Note 3
5-Mar-20	Upwind	Note 3	Note 3	Note 3
5-Mar-20	Downwind	Note 3	Note 3	Note 3
6-Mar-20	Upwind	Note 3	Note 3	Note 3
6-Mar-20	Downwind	Note 3	Note 3	Note 3
9-Mar-20	Upwind	Note 3	Note 3	Note 3
9-Mar-20	Downwind	Note 3	Note 3	Note 3
10-Mar-20	Upwind	Note 3	Note 3	Note 3
10-Mar-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
11-Mar-20	Upwind	Note 3	Note 3	Note 3
11-Mar-20	Downwind	Note 3	Note 3	Note 3
12-Mar-20	Upwind	Note 3	Note 3	Note 3
12-Mar-20	Downwind	Note 3	Note 3	Note 3
13-Mar-20	Upwind	Note 3	Note 3	Note 3
13-Mar-20	Downwind	Note 3	Note 3	Note 3
16-Mar-20	Upwind	Note 3	Note 3	Note 3
16-Mar-20	Downwind	Note 3	Note 3	Note 3
17-Mar-20	Upwind	Note 3	Note 3	Note 3
17-Mar-20	Downwind	Note 3	Note 3	Note 3
18-Mar-20	Upwind	Note 3	Note 3	Note 3
18-Mar-20	Downwind	Note 3	Note 3	Note 3
19-Mar-20	Upwind	Note 3	Note 3	Note 3
19-Mar-20	Downwind	Note 3	Note 3	Note 3
20-Mar-20	Upwind	Note 3	Note 3	Note 3
20-Mar-20	Downwind	Note 3	Note 3	Note 3
23-Mar-20	Upwind	Note 3	Note 3	Note 3
23-Mar-20	Downwind	Note 3	Note 3	Note 3
24-Mar-20	Upwind	Note 3	Note 3	Note 3
24-Mar-20	Downwind	Note 3	Note 3	Note 3
25-Mar-20	Upwind	Note 3	Note 3	Note 3
25-Mar-20	Downwind	Note 3	Note 3	Note 3
26-Mar-20	Upwind	Note 3	Note 3	Note 3
26-Mar-20	Downwind	Note 3	Note 3	Note 3
27-Mar-20	Upwind	Note 3	Note 3	Note 3
27-Mar-20	Downwind	Note 3	Note 3	Note 3
30-Mar-20	Upwind	Note 3	Note 3	Note 3
30-Mar-20	Downwind	Note 3	Note 3	Note 3
31-Mar-20	Upwind	Note 3	Note 3	Note 3
31-Mar-20	Downwind	Note 3	Note 3	Note 3
1-Apr-20	Upwind	Note 3	Note 3	Note 3
1-Apr-20	Downwind	Note 3	Note 3	Note 3
2-Apr-20	Upwind	Note 3	Note 3	Note 3
2-Apr-20	Downwind	Note 3	Note 3	Note 3
3-Apr-20	Upwind	Note 3	Note 3	Note 3
3-Apr-20	Downwind	Note 3	Note 3	Note 3
6-Apr-20	Upwind	Note 3	Note 3	Note 3
6-Apr-20	Downwind	Note 3	Note 3	Note 3
7-Apr-20	Upwind	Note 3	Note 3	Note 3
7-Apr-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
8-Apr-20	Upwind	Note 3	Note 3	Note 3
8-Apr-20	Downwind	Note 3	Note 3	Note 3
9-Apr-20	Upwind	Note 3	Note 3	Note 3
9-Apr-20	Downwind	Note 3	Note 3	Note 3
10-Apr-20	Upwind	Note 3	Note 3	Note 3
10-Apr-20	Downwind	Note 3	Note 3	Note 3
13-Apr-20	Upwind	Note 3	Note 3	Note 3
13-Apr-20	Downwind	Note 3	Note 3	Note 3
14-Apr-20	Upwind	Note 3	Note 3	Note 3
14-Apr-20	Downwind	Note 3	Note 3	Note 3
15-Apr-20	Upwind	Note 3	Note 3	Note 3
15-Apr-20	Downwind	Note 3	Note 3	Note 3
16-Apr-20	Upwind	Note 3	Note 3	Note 3
16-Apr-20	Downwind	Note 3	Note 3	Note 3
17-Apr-20	Upwind	Note 3	Note 3	Note 3
17-Apr-20	Downwind	Note 3	Note 3	Note 3
20-Apr-20	Upwind	Note 3	Note 3	Note 3
20-Apr-20	Downwind	Note 3	Note 3	Note 3
21-Apr-20	Upwind	Note 3	Note 3	Note 3
21-Apr-20	Downwind	Note 3	Note 3	Note 3
22-Apr-20	Upwind	Note 3	Note 3	Note 3
22-Apr-20	Downwind	Note 3	Note 3	Note 3
23-Apr-20	Upwind	Note 3	Note 3	Note 3
23-Apr-20	Downwind	Note 3	Note 3	Note 3
24-Apr-20	Upwind	Note 3	Note 3	Note 3
24-Apr-20	Downwind	Note 3	Note 3	Note 3
27-Apr-20	Upwind	Note 3	Note 3	Note 3
27-Apr-20	Downwind	Note 3	Note 3	Note 3
28-Apr-20	Upwind	Note 3	Note 3	Note 3
28-Apr-20	Downwind	Note 3	Note 3	Note 3
29-Apr-20	Upwind	9.5	<0.06	No
29-Apr-20	Downwind	9.4	13.9	No
30-Apr-20	Upwind	9.5	5.6	No
30-Apr-20	Downwind	9.6	12.1	No
1-May-20	Upwind	Note 3	Note 3	Note 3
1-May-20	Downwind	Note 3	Note 3	Note 3
4-May-20	Upwind	9.6	15.4	No
4-May-20	Downwind	9.6	27.1	No
5-May-20	Upwind	9.5	10.5	No
5-May-20	Downwind	9.4	26.8	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
6-May-20	Upwind	9.6	11.1	No
6-May-20	Downwind	9.5	33.7	No
7-May-20	Upwind	9.4	22.6	No
7-May-20	Downwind	9.5	43.7	No
8-May-20	Upwind	Note 3	Note 3	Note 3
8-May-20	Downwind	Note 3	Note 3	Note 3
11-May-20	Upwind	9.7	9.4	No
11-May-20	Downwind	9.6	17.4	No
12-May-20	Upwind	9.6	6.8	No
12-May-20	Downwind	9.5	13.1	No
13-May-20	Upwind	9.6	7.7	No
13-May-20	Downwind	9.5	10.8	No
14-May-20	Upwind	9.5	5.9	No
14-May-20	Downwind	9.5	10.4	No
15-May-20	Upwind	9.4	10.6	No
15-May-20	Downwind	9.4	13.7	No
18-May-20	Upwind	9.7	5.9	No
18-May-20	Downwind	9.7	14.9	No
19-May-20	Upwind	9.6	11.0	No
19-May-20	Downwind	9.6	6.5	No
20-May-20	Upwind	9.6	11.7	No
20-May-20	Downwind	9.5	19.0	No
21-May-20	Upwind	9.6	14.8	No
21-May-20	Downwind	9.7	22.0	No
22-May-20	Upwind	9.5	4.8	No
22-May-20	Downwind	9.5	11.1	No
25-May-20	Upwind	Note 2	Note 2	Note 2
25-May-20	Downwind	Note 2	Note 2	Note 2
26-May-20	Upwind	9.7	20.9	No
26-May-20	Downwind	9.6	40.1	No
27-May-20	Upwind	9.6	28.8	No
27-May-20	Downwind	9.5	40.5	No
28-May-20	Upwind	9.6	14.1	No
28-May-20	Downwind	9.5	22.5	No
29-May-20	Upwind	9.5	15.5	No
29-May-20	Downwind	9.5	15.3	No
1-Jun-20	Upwind	7.5	24.4	No
1-Jun-20	Downwind	7.4	30.8	No
2-Jun-20	Upwind	7.6	32.9	No
2-Jun-20	Downwind	7.6	45.9	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 (µg/m^3)	PM10 Exceedance? (Yes/No)
3-Jun-20	Upwind	7.6	49.1	No
3-Jun-20	Downwind	7.6	75.2	No
4-Jun-20	Upwind	8.6	49.9	No
4-Jun-20	Downwind	7.6	86.7	No
5-Jun-20	Upwind	7.5	31.5	No
5-Jun-20	Downwind	7.5	32.3	No
8-Jun-20	Upwind	9.8	20.0	No
8-Jun-20	Downwind	9.7	25.7	No
9-Jun-20	Upwind	9.7	28.3	No
9-Jun-20	Downwind	9.8	35.7	No
10-Jun-20	Upwind	9.7	26.0	No
10-Jun-20	Downwind	9.8	35.0	No
11-Jun-20	Upwind	9.8	24.8	No
11-Jun-20	Downwind	9.8	32.7	No
12-Jun-20	Upwind	9.6	20.9	No
12-Jun-20	Downwind	9.8	22.0	No
13-Jun-20	Upwind	9.5	20.8	No
13-Jun-20	Downwind	9.6	17.3	No
15-Jun-20	Upwind	9.7	27.8	No
15-Jun-20	Downwind	9.7	31.7	No
16-Jun-20	Upwind	9.8	27.4	No
16-Jun-20	Downwind	9.8	31.7	No
17-Jun-20	Upwind	9.6	33.4	No
17-Jun-20	Downwind	9.7	37.7	No
18-Jun-20	Upwind	9.7	50.3	No
18-Jun-20	Downwind	9.7	68.5	No
19-Jun-20	Upwind	9.8	32.3	No
19-Jun-20	Downwind	9.8	40.6	No
20-Jun-20	Upwind	9.8	23.8	No
20-Jun-20	Downwind	9.8	24.7	No
22-Jun-20	Upwind	9.6	34.5	No
22-Jun-20	Downwind	9.7	43.3	No
23-Jun-20	Upwind	9.7	27.3	No
23-Jun-20	Downwind	9.7	33.7	No
24-Jun-20	Upwind	9.7	28.8	No
24-Jun-20	Downwind	9.7	35.6	No
25-Jun-20	Upwind	9.7	27.3	No
25-Jun-20	Downwind	9.7	30.4	No
26-Jun-20	Upwind	9.6	32.8	No
26-Jun-20	Downwind	9.7	36.8	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
27-Jun-20	Upwind	9.7	21.2	No
27-Jun-20	Downwind	9.5	24.0	No
29-Jun-20	Upwind	9.5	41.9	No
29-Jun-20	Downwind	9.6	49.6	No
30-Jun-20	Upwind	9.1	42.9	No
30-Jun-20	Downwind	9.0	100	No
1-Jul-20	Upwind	9.2	55.7	No
1-Jul-20	Downwind	9.3	40.7	No
2-Jul-20	Upwind	9.6	25.9	No
2-Jul-20	Downwind	9.3	26.8	No
6-Jul-20	Upwind	9.1	31.4	No
6-Jul-20	Downwind	9.1	43.1	No
7-Jul-20	Upwind	9.7	29.0	No
7-Jul-20	Downwind	9.7	32.0	No
8-Jul-20	Upwind	9.8	33.7	No
8-Jul-20	Downwind	9.5	32.5	No
9-Jul-20	Upwind	9.4	29.8	No
9-Jul-20	Downwind	9.4	42.5	No
10-Jul-20	Upwind	9.2	10.5	No
10-Jul-20	Downwind	9.1	23.2	No
13-Jul-20	Upwind	6.3	54.3	No
13-Jul-20	Downwind	8.4	168	No
14-Jul-20	Upwind	9.1	62.4	No
14-Jul-20	Downwind	8.8	44.8	No
15-Jul-20	Upwind	9.3	40.2	No
15-Jul-20	Downwind	8.8	39.4	No
16-Jul-20	Upwind	9.1	35.5	No
16-Jul-20	Downwind	8.9	33.0	No
17-Jul-20	Upwind	9.6	28.6	No
17-Jul-20	Downwind	9.2	26.2	No
20-Jul-20	Upwind	9.3	25.4	No
20-Jul-20	Downwind	8.9	23.6	No
21-Jul-20	Upwind	9.5	23.7	No
21-Jul-20	Downwind	9.1	25.9	No
22-Jul-20	Upwind	8.6	13.2	No
22-Jul-20	Downwind	9.1	26.1	No
23-Jul-20	Upwind	9.7	14.4	No
23-Jul-20	Downwind	9.4	30.5	No
24-Jul-20	Upwind	9.8	13.7	No
24-Jul-20	Downwind	9.3	37.5	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
27-Jul-20	Upwind	9.8	17.3	No
27-Jul-20	Downwind	9.3	31.3	No
28-Jul-20	Upwind	9.7	16.1	No
28-Jul-20	Downwind	9.4	27.5	No
29-Jul-20	Upwind	9.7	15.9	No
29-Jul-20	Downwind	9.4	26.1	No
30-Jul-20	Upwind	9.8	15.0	No
30-Jul-20	Downwind	9.4	23.7	No
31-Jul-20	Upwind	9.7	15.0	No
31-Jul-20	Downwind	9.3	26.4	No
3-Aug-20	Upwind	9.7	127	No
3-Aug-20	Downwind	9.3	19.9	No
4-Aug-20	Upwind	9.5	34.4	No
4-Aug-20	Downwind	9.2	39.4	No
5-Aug-20	Upwind	9.7	39.9	No
5-Aug-20	Downwind	9.3	41.8	No
6-Aug-20	Upwind	9.7	32.5	No
6-Aug-20	Downwind	9.3	42.3	No
7-Aug-20	Upwind	9.6	49.1	No
7-Aug-20	Downwind	9.3	65.2	No
10-Aug-20	Upwind	8.8	127.0	No
10-Aug-20	Downwind	8.5	19.9	No
11-Aug-20	Upwind	9.8	34.4	No
11-Aug-20	Downwind	9.4	39.4	No
12-Aug-20	Upwind	9.8	39.9	No
12-Aug-20	Downwind	9.4	41.8	No
13-Aug-20	Upwind	9.8	32.5	No
13-Aug-20	Downwind	9.5	42.3	No
14-Aug-20	Upwind	9.8	49.1	No
14-Aug-20	Downwind	9.4	65.2	No
17-Aug-20	Upwind	4.9	28.3	No
17-Aug-20	Downwind	4.7	33.0	No
18-Aug-20	Upwind	8.2	14.6	No
18-Aug-20	Downwind	7.8	28.9	No
19-Aug-20	Upwind	10.7	20.7	No
19-Aug-20	Downwind	10.3	66.4	No
20-Aug-20	Upwind	10.7	13.1	No
20-Aug-20	Downwind	10.3	15.9	No
21-Aug-20	Upwind	10.7	20.2	No
21-Aug-20	Downwind	10.4	46.3	No

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	Sampling Period (hours)	PM10 ($\mu g/m^3$)	PM10 Exceedance? (Yes/No)
24-Aug-20	Upwind	7.4	37.3	No
24-Aug-20	Downwind	7.5	64.6	No
25-Aug-20	Upwind	7.6	32.1	No
25-Aug-20	Downwind	8.3	58.4	No
26-Aug-20	Upwind	9.7	16.5	No
26-Aug-20	Downwind	9.4	19.5	No
27-Aug-20	Upwind	7.6	27.9	No
27-Aug-20	Downwind	7.2	24.8	No
28-Aug-20	Upwind	9.8	67.4	No
28-Aug-20	Downwind	9.4	98.1	No

Notes:
Note 1 - Sample not collected due to inclement conditions: Rain.
Note 2 - Samples were not collected as project site was closed for holidays.
Note 3 - Samples were not collected as no excavation was conducted.
Sample locations are shown on Figure 1.
The threshold criteria are as follows: Cal/OSHA PEL = 5,000 $\mu g/m^3$
The detection limit for PM10 is 0.06 $\mu g/m^3$ assuming a minimum sample volume of 1,600 m^3.
$\mu g/m^3$ - micrograms per cubic meter
N/A - not applicable
PM10 - particulate matter smaller than 10 microns in diameter

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
20-Nov-19	Upwind	9.8	0.0030	No
20-Nov-19	Downwind	9.9	<0.002	No
21-Nov-19	Upwind	7.5	<0.003	No
21-Nov-19	Downwind	7.5	<0.003	No
22-Nov-19	Upwind	8.8	<0.003	No
22-Nov-19	Downwind	8.8	<0.003	No
25-Nov-19	Upwind	8.9	<0.003	No
25-Nov-19	Downwind	8.7	<0.003	No
26-Nov-19	Upwind	7.4	<0.003	No
26-Nov-19	Downwind	7.5	<0.003	No
27-Nov-19	Upwind	Note 1	Note 1	Note 1
27-Nov-19	Downwind	Note 1	Note 1	Note 1
28-Nov-19	Upwind	Note 2	Note 2	Note 2
28-Nov-19	Downwind	Note 2	Note 2	Note 2
29-Nov-19	Upwind	Note 2	Note 2	Note 2
29-Nov-19	Downwind	Note 2	Note 2	Note 2
2-Dec-19	Upwind	Note 3	Note 3	Note 3
2-Dec-19	Downwind	Note 3	Note 3	Note 3
3-Dec-19	Upwind	Note 3	Note 3	Note 3
3-Dec-19	Downwind	Note 3	Note 3	Note 3
4-Dec-19	Upwind	Note 3	Note 3	Note 3
4-Dec-19	Downwind	Note 3	Note 3	Note 3
5-Dec-19	Upwind	Note 3	Note 3	Note 3
5-Dec-19	Downwind	Note 3	Note 3	Note 3
6-Dec-19	Upwind	Note 3	Note 3	Note 3
6-Dec-19	Downwind	Note 3	Note 3	Note 3
9-Dec-19	Upwind	4.3	<0.005	No
9-Dec-19	Downwind	4.1	<0.006	No
10-Dec-19	Upwind	9.4	<0.002	No
10-Dec-19	Downwind	9.4	<0.002	No
11-Dec-19	Upwind	Note 3	Note 3	Note 3
11-Dec-19	Downwind	Note 3	Note 3	Note 3
12-Dec-19	Upwind	Note 3	Note 3	Note 3
12-Dec-19	Downwind	Note 3	Note 3	Note 3
13-Dec-19	Upwind	Note 3	Note 3	Note 3
13-Dec-19	Downwind	Note 3	Note 3	Note 3
16-Dec-19	Upwind	Note 3	Note 3	Note 3
16-Dec-19	Downwind	Note 3	Note 3	Note 3
17-Dec-19	Upwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
17-Dec-19	Downwind	Note 3	Note 3	Note 3
18-Dec-19	Upwind	Note 3	Note 3	Note 3
18-Dec-19	Downwind	Note 3	Note 3	Note 3
19-Dec-19	Upwind	Note 3	Note 3	Note 3
19-Dec-19	Downwind	Note 3	Note 3	Note 3
20-Dec-19	Upwind	Note 3	Note 3	Note 3
20-Dec-19	Downwind	Note 3	Note 3	Note 3
23-Dec-19	Upwind	7.5	<0.003	No
23-Dec-19	Downwind	7.5	<0.003	No
24-Dec-19	Upwind	6.8	<0.003	No
24-Dec-19	Downwind	6.9	<0.003	No
25-Dec-19	Upwind	Note 2	Note 2	Note 2
25-Dec-19	Downwind	Note 2	Note 2	Note 2
26-Dec-19	Upwind	7.4	<0.003	No
26-Dec-19	Downwind	7.5	<0.003	No
27-Dec-19	Upwind	7.5	<0.003	No
27-Dec-19	Downwind	7.7	<0.003	No
30-Dec-19	Upwind	7.3	<0.003	No
30-Dec-19	Downwind	7.3	<0.003	No
31-Dec-19	Upwind	7.067	<0.003	No
31-Dec-19	Downwind	7.1	0.0	No
1-Jan-20	Upwind	Note 3	Note 3	Note 3
1-Jan-20	Downwind	Note 3	Note 3	Note 3
2-Jan-20	Upwind	Note 3	Note 3	Note 3
2-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Jan-20	Upwind	7.6	<0.003	No
3-Jan-20	Downwind	7.6	<0.003	No
6-Jan-20	Upwind	7.6	<0.003	No
6-Jan-20	Downwind	7.6	<0.003	No
7-Jan-20	Upwind	7.9	<0.003	No
7-Jan-20	Downwind	8.0	<0.003	No
8-Jan-20	Upwind	Note 3	Note 3	Note 3
8-Jan-20	Downwind	Note 3	Note 3	Note 3
9-Jan-20	Upwind	Note 3	Note 3	Note 3
9-Jan-20	Downwind	Note 3	Note 3	Note 3
10-Jan-20	Upwind	Note 3	Note 3	Note 3
10-Jan-20	Downwind	Note 3	Note 3	Note 3
13-Jan-20	Upwind	Note 3	Note 3	Note 3
13-Jan-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
14-Jan-20	Upwind	Note 3	Note 3	Note 3
14-Jan-20	Downwind	Note 3	Note 3	Note 3
15-Jan-20	Upwind	Note 3	Note 3	Note 3
15-Jan-20	Downwind	Note 3	Note 3	Note 3
16-Jan-20	Upwind	Note 3	Note 3	Note 3
16-Jan-20	Downwind	Note 3	Note 3	Note 3
17-Jan-20	Upwind	Note 3	Note 3	Note 3
17-Jan-20	Downwind	Note 3	Note 3	Note 3
20-Jan-20	Upwind	Note 3	Note 3	Note 3
20-Jan-20	Downwind	Note 3	Note 3	Note 3
21-Jan-20	Upwind	Note 3	Note 3	Note 3
21-Jan-20	Downwind	Note 3	Note 3	Note 3
22-Jan-20	Upwind	Note 3	Note 3	Note 3
22-Jan-20	Downwind	Note 3	Note 3	Note 3
23-Jan-20	Upwind	Note 3	Note 3	Note 3
23-Jan-20	Downwind	Note 3	Note 3	Note 3
24-Jan-20	Upwind	Note 3	Note 3	Note 3
24-Jan-20	Downwind	Note 3	Note 3	Note 3
27-Jan-20	Upwind	Note 3	Note 3	Note 3
27-Jan-20	Downwind	Note 3	Note 3	Note 3
28-Jan-20	Upwind	Note 3	Note 3	Note 3
28-Jan-20	Downwind	Note 3	Note 3	Note 3
29-Jan-20	Upwind	Note 3	Note 3	Note 3
29-Jan-20	Downwind	Note 3	Note 3	Note 3
30-Jan-20	Upwind	Note 3	Note 3	Note 3
30-Jan-20	Downwind	Note 3	Note 3	Note 3
31-Jan-20	Upwind	Note 3	Note 3	Note 3
31-Jan-20	Downwind	Note 3	Note 3	Note 3
3-Feb-20	Upwind	Note 3	Note 3	Note 3
3-Feb-20	Downwind	Note 3	Note 3	Note 3
4-Feb-20	Upwind	Note 3	Note 3	Note 3
4-Feb-20	Downwind	Note 3	Note 3	Note 3
5-Feb-20	Upwind	Note 3	Note 3	Note 3
5-Feb-20	Downwind	Note 3	Note 3	Note 3
6-Feb-20	Upwind	Note 3	Note 3	Note 3
6-Feb-20	Downwind	Note 3	Note 3	Note 3
7-Feb-20	Upwind	Note 3	Note 3	Note 3
7-Feb-20	Downwind	Note 3	Note 3	Note 3
10-Feb-20	Upwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
10-Feb-20	Downwind	Note 3	Note 3	Note 3
11-Feb-20	Upwind	7.2	<0.0031	No
11-Feb-20	Downwind	7.2	<0.0031	No
12-Feb-20	Upwind	5.5	<0.0041	No
12-Feb-20	Downwind	5.6	<0.0040	No
13-Feb-20	Upwind	5.3	<0.0043	No
13-Feb-20	Downwind	5.1	<0.0044	No
14-Feb-20	Upwind	7.8	<0.0029	No
14-Feb-20	Downwind	7.7	<0.0029	No
17-Feb-20	Upwind	7.7	<0.0029	No
17-Feb-20	Downwind	7.6	<0.0029	No
18-Feb-20	Upwind	7.0	<0.0032	No
18-Feb-20	Downwind	7.1	<0.0032	No
19-Feb-20	Upwind	3.8	<0.0059	No
19-Feb-20	Downwind	3.9	<0.0058	No
20-Feb-20	Upwind	Note 3	Note 3	Note 3
20-Feb-20	Downwind	Note 3	Note 3	Note 3
21-Feb-20	Upwind	Note 3	Note 3	Note 3
21-Feb-20	Downwind	Note 3	Note 3	Note 3
24-Feb-20	Upwind	Note 3	Note 3	Note 3
24-Feb-20	Downwind	Note 3	Note 3	Note 3
25-Feb-20	Upwind	Note 3	Note 3	Note 3
25-Feb-20	Downwind	Note 3	Note 3	Note 3
26-Feb-20	Upwind	Note 3	Note 3	Note 3
26-Feb-20	Downwind	Note 3	Note 3	Note 3
27-Feb-20	Upwind	Note 3	Note 3	Note 3
27-Feb-20	Downwind	Note 3	Note 3	Note 3
28-Feb-20	Upwind	Note 3	Note 3	Note 3
28-Feb-20	Downwind	Note 3	Note 3	Note 3
2-Mar-20	Upwind	Note 3	Note 3	Note 3
2-Mar-20	Downwind	Note 3	Note 3	Note 3
3-Mar-20	Upwind	Note 3	Note 3	Note 3
3-Mar-20	Downwind	Note 3	Note 3	Note 3
4-Mar-20	Upwind	Note 3	Note 3	Note 3
4-Mar-20	Downwind	Note 3	Note 3	Note 3
5-Mar-20	Upwind	Note 3	Note 3	Note 3
5-Mar-20	Downwind	Note 3	Note 3	Note 3
6-Mar-20	Upwind	Note 3	Note 3	Note 3
6-Mar-20	Downwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
9-Mar-20	Upwind	Note 3	Note 3	Note 3
9-Mar-20	Downwind	Note 3	Note 3	Note 3
10-Mar-20	Upwind	Note 3	Note 3	Note 3
10-Mar-20	Downwind	Note 3	Note 3	Note 3
11-Mar-20	Upwind	Note 3	Note 3	Note 3
11-Mar-20	Downwind	Note 3	Note 3	Note 3
12-Mar-20	Upwind	Note 3	Note 3	Note 3
12-Mar-20	Downwind	Note 3	Note 3	Note 3
13-Mar-20	Upwind	Note 3	Note 3	Note 3
13-Mar-20	Downwind	Note 3	Note 3	Note 3
16-Mar-20	Upwind	Note 3	Note 3	Note 3
16-Mar-20	Downwind	Note 3	Note 3	Note 3
17-Mar-20	Upwind	Note 3	Note 3	Note 3
17-Mar-20	Downwind	Note 3	Note 3	Note 3
18-Mar-20	Upwind	Note 3	Note 3	Note 3
18-Mar-20	Downwind	Note 3	Note 3	Note 3
19-Mar-20	Upwind	Note 3	Note 3	Note 3
19-Mar-20	Downwind	Note 3	Note 3	Note 3
20-Mar-20	Upwind	Note 3	Note 3	Note 3
20-Mar-20	Downwind	Note 3	Note 3	Note 3
23-Mar-20	Upwind	Note 3	Note 3	Note 3
23-Mar-20	Downwind	Note 3	Note 3	Note 3
24-Mar-20	Upwind	Note 3	Note 3	Note 3
24-Mar-20	Downwind	Note 3	Note 3	Note 3
25-Mar-20	Upwind	Note 3	Note 3	Note 3
25-Mar-20	Downwind	Note 3	Note 3	Note 3
26-Mar-20	Upwind	Note 3	Note 3	Note 3
26-Mar-20	Downwind	Note 3	Note 3	Note 3
27-Mar-20	Upwind	Note 3	Note 3	Note 3
27-Mar-20	Downwind	Note 3	Note 3	Note 3
30-Mar-20	Upwind	Note 3	Note 3	Note 3
30-Mar-20	Downwind	Note 3	Note 3	Note 3
31-Mar-20	Upwind	Note 3	Note 3	Note 3
31-Mar-20	Downwind	Note 3	Note 3	Note 3
1-Apr-20	Upwind	Note 3	Note 3	Note 3
1-Apr-20	Downwind	Note 3	Note 3	Note 3
2-Apr-20	Upwind	Note 3	Note 3	Note 3
2-Apr-20	Downwind	Note 3	Note 3	Note 3
3-Apr-20	Upwind	Note 3	Note 3	Note 3

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
3-Apr-20	Downwind	Note 3	Note 3	Note 3
6-Apr-20	Upwind	Note 3	Note 3	Note 3
6-Apr-20	Downwind	Note 3	Note 3	Note 3
7-Apr-20	Upwind	Note 3	Note 3	Note 3
7-Apr-20	Downwind	Note 3	Note 3	Note 3
8-Apr-20	Upwind	Note 3	Note 3	Note 3
8-Apr-20	Downwind	Note 3	Note 3	Note 3
9-Apr-20	Upwind	Note 3	Note 3	Note 3
9-Apr-20	Downwind	Note 3	Note 3	Note 3
10-Apr-20	Upwind	Note 3	Note 3	Note 3
10-Apr-20	Downwind	Note 3	Note 3	Note 3
13-Apr-20	Upwind	Note 3	Note 3	Note 3
13-Apr-20	Downwind	Note 3	Note 3	Note 3
14-Apr-20	Upwind	Note 3	Note 3	Note 3
14-Apr-20	Downwind	Note 3	Note 3	Note 3
15-Apr-20	Upwind	Note 3	Note 3	Note 3
15-Apr-20	Downwind	Note 3	Note 3	Note 3
16-Apr-20	Upwind	Note 3	Note 3	Note 3
16-Apr-20	Downwind	Note 3	Note 3	Note 3
17-Apr-20	Upwind	Note 3	Note 3	Note 3
17-Apr-20	Downwind	Note 3	Note 3	Note 3
20-Apr-20	Upwind	Note 3	Note 3	Note 3
20-Apr-20	Downwind	Note 3	Note 3	Note 3
21-Apr-20	Upwind	Note 3	Note 3	Note 3
21-Apr-20	Downwind	Note 3	Note 3	Note 3
22-Apr-20	Upwind	Note 3	Note 3	Note 3
22-Apr-20	Downwind	Note 3	Note 3	Note 3
23-Apr-20	Upwind	Note 3	Note 3	Note 3
23-Apr-20	Downwind	Note 3	Note 3	Note 3
24-Apr-20	Upwind	Note 3	Note 3	Note 3
24-Apr-20	Downwind	Note 3	Note 3	Note 3
27-Apr-20	Upwind	Note 3	Note 3	Note 3
27-Apr-20	Downwind	Note 3	Note 3	Note 3
28-Apr-20	Upwind	Note 3	Note 3	Note 3
28-Apr-20	Downwind	Note 3	Note 3	Note 3
29-Apr-20	Upwind	9.5	0.0026	No
29-Apr-20	Downwind	9.4	<0.0024	No
30-Apr-20	Upwind	9.5	<0.0024	No
30-Apr-20	Downwind	9.6	<0.0023	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
1-May-20	Upwind	Note 3	Note 3	Note 3
1-May-20	Downwind	Note 3	Note 3	Note 3
4-May-20	Upwind	9.6	0.0030	No
4-May-20	Downwind	9.6	<0.0024	No
5-May-20	Upwind	9.5	0.0026	No
5-May-20	Downwind	9.4	<0.0024	No
6-May-20	Upwind	9.6	<0.0023	No
6-May-20	Downwind	9.5	<0.0024	No
7-May-20	Upwind	9.4	<0.0024	No
7-May-20	Downwind	9.5	<0.0024	No
8-May-20	Upwind	Note 3	Note 3	Note 3
8-May-20	Downwind	Note 3	Note 3	Note 3
11-May-20	Upwind	9.7	<0.0023	No
11-May-20	Downwind	9.6	<0.0023	No
12-May-20	Upwind	9.6	<0.0023	No
12-May-20	Downwind	9.5	<0.0024	No
13-May-20	Upwind	9.6	<0.0023	No
13-May-20	Downwind	9.5	<0.0024	No
14-May-20	Upwind	9.5	<0.0024	No
14-May-20	Downwind	9.5	<0.0024	No
15-May-20	Upwind	9.4	<0.0024	No
15-May-20	Downwind	9.4	<0.0024	No
18-May-20	Upwind	9.7	<0.0023	No
18-May-20	Downwind	9.7	<0.0023	No
19-May-20	Upwind	9.6	<0.0023	No
19-May-20	Downwind	9.6	<0.0023	No
20-May-20	Upwind	9.6	<0.0023	No
20-May-20	Downwind	9.5	0.0030	No
21-May-20	Upwind	9.6	<0.0023	No
21-May-20	Downwind	9.7	<0.0023	No
22-May-20	Upwind	9.5	<0.0024	No
22-May-20	Downwind	9.5	<0.0024	No
25-May-20	Upwind	Note 2	Note 2	Note 2
25-May-20	Downwind	Note 2	Note 2	Note 2
26-May-20	Upwind	9.7	0.0038	No
26-May-20	Downwind	9.6	<0.0023	No
27-May-20	Upwind	9.6	0.0066	No
27-May-20	Downwind	9.5	<0.0024	No
28-May-20	Upwind	9.6	0.0068	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
28-May-20	Downwind	9.5	<0.0024	No
29-May-20	Upwind	9.5	<0.0024	No
29-May-20	Downwind	9.5	0.0125	No
1-Jun-20	Upwind	7.5	0.0038	No
1-Jun-20	Downwind	7.4	<0.0030	No
2-Jun-20	Upwind	7.6	<0.0030	No
2-Jun-20	Downwind	7.6	0.0035	No
3-Jun-20	Upwind	7.6	0.0059	No
3-Jun-20	Downwind	7.6	<0.0030	No
4-Jun-20	Upwind	8.6	0.0045	No
4-Jun-20	Downwind	7.6	<0.0030	No
5-Jun-20	Upwind	7.5	0.0033	No
5-Jun-20	Downwind	7.5	<0.0030	No
8-Jun-20	Upwind	9.8	0.0046	No
8-Jun-20	Downwind	9.7	<0.0023	No
9-Jun-20	Upwind	9.7	<0.0023	No
9-Jun-20	Downwind	9.8	0.0029	No
10-Jun-20	Upwind	9.7	0.0040	No
10-Jun-20	Downwind	9.8	<0.0023	No
11-Jun-20	Upwind	9.8	0.0126	No
11-Jun-20	Downwind	9.8	0.0033	No
12-Jun-20	Upwind	9.6	0.0047	No
12-Jun-20	Downwind	9.8	0.0034	No
13-Jun-20	Upwind	9.5	0.0026	No
13-Jun-20	Downwind	9.6	<0.0023	No
15-Jun-20	Upwind	9.7	0.0070	No
15-Jun-20	Downwind	9.7	0.0039	No
16-Jun-20	Upwind	9.8	0.0059	No
16-Jun-20	Downwind	9.8	0.0092	No
17-Jun-20	Upwind	9.6	0.0026	No
17-Jun-20	Downwind	9.7	<0.0023	No
18-Jun-20	Upwind	9.7	0.0030	No
18-Jun-20	Downwind	9.7	0.0026	No
19-Jun-20	Upwind	9.8	0.0047	No
19-Jun-20	Downwind	9.8	0.0030	No
20-Jun-20	Upwind	9.8	<0.0023	No
20-Jun-20	Downwind	9.8	<0.0023	No
22-Jun-20	Upwind	9.6	0.0116	No
22-Jun-20	Downwind	9.7	<0.0023	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
23-Jun-20	Upwind	9.7	0.0026	No
23-Jun-20	Downwind	9.7	<0.0023	No
24-Jun-20	Upwind	9.7	0.0026	No
24-Jun-20	Downwind	9.7	<0.0023	No
25-Jun-20	Upwind	9.7	<0.0023	No
25-Jun-20	Downwind	9.7	<0.0023	No
26-Jun-20	Upwind	9.6	0.0047	No
26-Jun-20	Downwind	9.7	<0.0023	No
27-Jun-20	Upwind	9.7	<0.0023	No
27-Jun-20	Downwind	9.5	0.0052	No
29-Jun-20	Upwind	9.5	0.0026	No
29-Jun-20	Downwind	9.6	0.0043	No
30-Jun-20	Upwind	9.1	0.0066	No
30-Jun-20	Downwind	9.0	0.0046	No
1-Jul-20	Upwind	9.2	0.0049	No
1-Jul-20	Downwind	9.3	0.0031	No
2-Jul-20	Upwind	9.6	<0.0025	No
2-Jul-20	Downwind	9.3	<0.0024	No
6-Jul-20	Upwind	9.1	0.0026	No
6-Jul-20	Downwind	9.1	<0.0024	No
7-Jul-20	Upwind	9.7	<0.0023	No
7-Jul-20	Downwind	9.7	0.0032	No
8-Jul-20	Upwind	9.8	<0.0023	No
8-Jul-20	Downwind	9.5	<0.0023	No
9-Jul-20	Upwind	9.4	0.0026	No
9-Jul-20	Downwind	9.4	<0.0023	No
10-Jul-20	Upwind	9.2	0.0047	No
10-Jul-20	Downwind	9.1	<0.0023	No
13-Jul-20	Upwind	8.5	<0.0026	No
13-Jul-20	Downwind	8.4	0.0047	No
14-Jul-20	Upwind	9.1	0.0066	No
14-Jul-20	Downwind	8.8	<0.0025	No
15-Jul-20	Upwind	9.3	<0.0013	No
15-Jul-20	Downwind	8.8	0.0018	No
16-Jul-20	Upwind	9.1	0.0037	No
16-Jul-20	Downwind	8.9	<0.0023	No
17-Jul-20	Upwind	9.6	0.0044	No
17-Jul-20	Downwind	9.2	<0.0024	No
20-Jul-20	Upwind	9.3	0.0029	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
20-Jul-20	Downwind	8.9	<0.0025	No
21-Jul-20	Upwind	9.5	0.0041	No
21-Jul-20	Downwind	9.1	<0.0025	No
22-Jul-20	Upwind	8.6	<0.0026	No
22-Jul-20	Downwind	14.7	<0.0015	No
23-Jul-20	Upwind	15.8	0.0040	No
23-Jul-20	Downwind	16.0	<0.0014	No
24-Jul-20	Upwind	9.7	<0.0023	No
24-Jul-20	Downwind	9.3	0.0024	No
27-Jul-20	Upwind	16.1	0.0034	No
27-Jul-20	Downwind	14.6	<0.0015	No
28-Jul-20	Upwind	16.8	0.0022	No
28-Jul-20	Downwind	16.2	<0.0014	No
29-Jul-20	Upwind	14.9	0.0018	No
29-Jul-20	Downwind	15.1	<0.0015	No
30-Jul-20	Upwind	15.9	0.0026	No
30-Jul-20	Downwind	21.7	Note 4	Note 4
31-Jul-20	Upwind	9.7	<0.0023	No
31-Jul-20	Downwind	9.3	<0.0024	No
3-Aug-20	Upwind	17.6	0.0037	No
3-Aug-20	Downwind	14.6	0.0020	No
4-Aug-20	Upwind	17.5	0.0016	No
4-Aug-20	Downwind	17.0	<0.0013	No
5-Aug-20	Upwind	15.7	0.0034	No
5-Aug-20	Downwind	14.1	<0.0016	No
6-Aug-20	Upwind	16.6	0.0027	No
6-Aug-20	Downwind	15.3	0.0020	No
7-Aug-20	Upwind	9.6	0.0040	No
7-Aug-20	Downwind	9.3	<0.0024	No
10-Aug-20	Upwind	16.1	0.0039	No
10-Aug-20	Downwind	16.3	<0.0014	No
11-Aug-20	Upwind	14.9	0.0020	No
11-Aug-20	Downwind	15.5	<0.0014	No
12-Aug-20	Upwind	8.9	0.0118	No
12-Aug-20	Downwind	15.6	<0.0014	No
13-Aug-20	Upwind	16.6	0.0022	No
13-Aug-20	Downwind	15.4	<0.0015	No
14-Aug-20	Upwind	16.9	0.0017	No
14-Aug-20	Downwind	16.4	<0.0014	No

Attachment 1, Table 4: Asbestos Sampling Results

Date	Sample Location	Sampling Period (hours)	Asbestos (fibers/cm^3)	Asbestos Exceedance? (Yes/No)
17-Aug-20	Upwind	17.4	0.0031	No
17-Aug-20	Downwind	17.7	<0.0013	No
18-Aug-20	Upwind	14.4	0.0053	No
18-Aug-20	Downwind	14.0	0.0019	No
19-Aug-20	Upwind	9.8	0.0138	No
19-Aug-20	Downwind	16.5	0.0027	No
20-Aug-20	Upwind	17.5	0.0056	No
20-Aug-20	Downwind	16.3	0.0026	No
21-Aug-20	Upwind	17.9	0.0014	No
21-Aug-20	Downwind	17.3	<0.0013	No
24-Aug-20	Upwind	15.9	0.0034	No
24-Aug-20	Downwind	15.1	<0.0015	No
25-Aug-20	Upwind	17.6	0.0029	No
25-Aug-20	Downwind	15.8	<0.0014	No
26-Aug-20	Upwind	12.4	<0.0018	No
26-Aug-20	Downwind	13.4	<0.0017	No
27-Aug-20	Upwind	16.1	0.0017	No
27-Aug-20	Downwind	14.8	<0.0015	No
28-Aug-20	Upwind	9.8	0.0059	No
28-Aug-20	Downwind	9.5	<0.0024	No

Notes:

Note 1 - Sample not collected due to inclement weather conditions: Rain.

Note 2 - Samples were not collected as project site was closed for holidays.

Note 3 - Samples were not collected as no excavation was conducted.

Note 4 - Filter cartridge damaged, no Asbestos result.

Sample locations are shown on Figure 1.

The threshold value for asbestos is 0.1 fibers/cm^3.

The detection limit is 0.003 fibers/cm^3 assuming a minimum sample volume of 900 liters.

fibers/cm^3 - fibers per cubic centimeter

This page intentionally left blank

ATTACHMENT 2
ANALYTICAL LABORATORY REPORTS

This page intentionally left blank

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-35656-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
8/26/2020 12:04:00 AM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

Qualifiers

Metals

Qualifier	Qualifier Description
L	A negative instrument reading had an absolute value greater than the reporting limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-35656-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-35656-1

Comments
No additional comments.

Receipt
The samples were received on 8/12/2020 10:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
Method 6010B: The absolute response for Arsenic was greater than the method reporting limit (RL) in the following samples: PE-TSP080520-B606DOWNWIND (570-35656-22) and PE-TSP080620-B606DOWNWIND (570-35656-26).
The instrument raw data has been manually reviewed and the result can be reported as ND.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP080320-B606UPWIND
Date Collected: 08/03/20 07:00
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:11	08/21/20 20:57	1
Lead	**15.9**		12.0	3.16	ug/Sample		08/18/20 19:11	08/21/20 20:57	1
Manganese	**18.4**		6.00	3.34	ug/Sample		08/18/20 19:11	08/21/20 20:57	1

Client Sample ID: PE-TSP080320-B606DOWNWIND
Date Collected: 08/03/20 07:10
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 20:59	1
Lead	**29.4**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 20:59	1
Manganese	**38.0**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 20:59	1

Client Sample ID: PE-TSP080420-B606UPWIND
Date Collected: 08/04/20 07:08
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:01	1
Lead	**23.2**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:01	1
Manganese	**18.0**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:01	1

Client Sample ID: PE-TSP080420-B606UDOWNWIND
Date Collected: 08/04/20 07:17
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:03	1
Lead	**22.5**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:03	1
Manganese	**12.2**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:03	1

Client Sample ID: PE-TSP080520-B606UPWIND
Date Collected: 08/05/20 07:01
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:06	1
Lead	**22.7**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:06	1
Manganese	**23.4**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:06	1

Client Sample ID: PE-TSP080520-B606DOWNWIND
Date Collected: 08/05/20 07:15
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	L	18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:08	1
Lead	**18.8**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:08	1
Manganese	**13.1**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:08	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP080620-B606UPWIND
Date Collected: 08/06/20 07:01
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:11	1
Lead	**20.3**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:11	1
Manganese	**15.4**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:11	1

Client Sample ID: PE-TSP080620-B606DOWNWIND
Date Collected: 08/06/20 07:11
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	L	18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:13	1
Lead	**24.6**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:13	1
Manganese	**14.1**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:13	1

Client Sample ID: PE-TSP080720-B606UPWIND
Date Collected: 08/07/20 07:05
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:15	1
Lead	**22.7**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:15	1
Manganese	**12.5**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:15	1

Client Sample ID: PE-TSP080720-B606DOWNWIND
Date Collected: 08/07/20 07:15
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35656-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:34	08/21/20 21:17	1
Lead	**17.0**		12.0	3.16	ug/Sample		08/18/20 19:34	08/21/20 21:17	1
Manganese	**15.0**		6.00	3.34	ug/Sample		08/18/20 19:34	08/21/20 21:17	1

General Chemistry

Client Sample ID: PE-TSP080320-B606UPWIND — **Lab Sample ID: 570-35656-13**
Date Collected: 08/03/20 07:00 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.9		4.57	4.57	ug/m3			08/17/20 15:15	1

Client Sample ID: PE-TSP080320-B606DOWNWIND — **Lab Sample ID: 570-35656-14**
Date Collected: 08/03/20 07:10 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	88.3		4.73	4.73	ug/m3			08/17/20 15:15	1

Client Sample ID: PE_PM10080320-B606UPWIND — **Lab Sample ID: 570-35656-15**
Date Collected: 08/03/20 07:00 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	127		4.53	NaN	ug/m3			08/17/20 14:28	1

Client Sample ID: PE_PM10080320-B606DOWNWIND — **Lab Sample ID: 570-35656-16**
Date Collected: 08/03/20 07:10 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	19.9		4.73	NaN	ug/m3			08/17/20 14:28	1

Client Sample ID: PE-TSP080420-B606UPWIND — **Lab Sample ID: 570-35656-17**
Date Collected: 08/04/20 07:08 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	50.3		4.63	4.63	ug/m3			08/17/20 15:15	1

Client Sample ID: PE-TSP080420-B606UDOWNWIND — **Lab Sample ID: 570-35656-18**
Date Collected: 08/04/20 07:17 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.8		4.79	4.79	ug/m3			08/17/20 15:15	1

Client Sample ID: PE_PM10080420-B606UPWIND — **Lab Sample ID: 570-35656-19**
Date Collected: 08/04/20 07:08 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	34.4		4.63	NaN	ug/m3			08/17/20 14:28	1

Client Sample ID: PE_PM10080420-B606DOWNWIND — **Lab Sample ID: 570-35656-20**
Date Collected: 08/04/20 07:17 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	39.4		4.79	NaN	ug/m3			08/17/20 14:28	1

General Chemistry

Client Sample ID: PE-TSP080520-B606UPWIND — **Lab Sample ID: 570-35656-21**
Date Collected: 08/05/20 07:01 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	74.1		4.57	4.57	ug/m3			08/17/20 15:15	1

Client Sample ID: PE-TSP080520-B606DOWNWIND — **Lab Sample ID: 570-35656-22**
Date Collected: 08/05/20 07:15 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.1		4.77	4.77	ug/m3			08/17/20 15:15	1

Client Sample ID: PE_PM10080520-B606UPWIND — **Lab Sample ID: 570-35656-23**
Date Collected: 08/05/20 07:01 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	39.9		4.57	NaN	ug/m3			08/17/20 14:28	1

Client Sample ID: PE_PM10080520-B606DOWNWIND — **Lab Sample ID: 570-35656-24**
Date Collected: 08/05/20 07:15 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	41.8		4.77	NaN	ug/m3			08/17/20 14:28	1

Client Sample ID: PE-TSP080620-B606UPWIND — **Lab Sample ID: 570-35656-25**
Date Collected: 08/06/20 07:01 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.9		4.57	4.57	ug/m3			08/17/20 15:15	1

Client Sample ID: PE-TSP080620-B606DOWNWIND — **Lab Sample ID: 570-35656-26**
Date Collected: 08/06/20 07:11 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.2		4.74	4.74	ug/m3			08/17/20 15:15	1

Client Sample ID: PE_PM10080620-B606UPWIND — **Lab Sample ID: 570-35656-27**
Date Collected: 08/06/20 07:01 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.5		4.57	NaN	ug/m3			08/17/20 14:28	1

Client Sample ID: PE_PM10080620-B606DOWNWIND — **Lab Sample ID: 570-35656-28**
Date Collected: 08/06/20 07:11 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	42.3		4.74	NaN	ug/m3			08/17/20 14:28	1

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

General Chemistry

Client Sample ID: PE-TSP080720-B606UPWIND — **Lab Sample ID: 570-35656-29**
Date Collected: 08/07/20 07:05 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.9		4.61	4.61	ug/m3			08/17/20 15:15	1

Client Sample ID: PE-TSP080720-B606DOWNWIND — **Lab Sample ID: 570-35656-30**
Date Collected: 08/07/20 07:15 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	75.6		4.77	4.77	ug/m3			08/17/20 15:15	1

Client Sample ID: PE_PM10080720-B606UPWIND — **Lab Sample ID: 570-35656-31**
Date Collected: 08/07/20 07:05 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	49.1		4.61	NaN	ug/m3			08/17/20 14:28	1

Client Sample ID: PE_PM10080720-B606DOWNWIND — **Lab Sample ID: 570-35656-32**
Date Collected: 08/07/20 07:15 — **Matrix: Air**
Date Received: 08/12/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	65.2		4.77	NaN	ug/m3			08/17/20 14:28	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-88709/1-A
Matrix: Air
Analysis Batch: 88680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:11	1
Lead	ND		12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:11	1
Manganese	ND		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:11	1

Lab Sample ID: LCS 570-88709/2-A
Matrix: Air
Analysis Batch: 88680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	567.2		ug/Sample		94	80 - 120
Lead	600	601.0		ug/Sample		100	80 - 120
Manganese	600	591.0		ug/Sample		98	80 - 120

Lab Sample ID: LCSD 570-88709/3-A
Matrix: Air
Analysis Batch: 88680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88709

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	566.9		ug/Sample		94	80 - 120	0	20
Lead	600	598.5		ug/Sample		100	80 - 120	0	20
Manganese	600	590.5		ug/Sample		98	80 - 120	0	20

Lab Sample ID: 570-35217-A-13-D MS
Matrix: Air
Analysis Batch: 88680

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 88709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.74	J	600	561.1		ug/Sample		92	75 - 125
Lead	9.58	J	600	604.8		ug/Sample		99	75 - 125
Manganese	11.4		600	592.4		ug/Sample		97	75 - 125

Lab Sample ID: 570-35217-A-13-E MSD
Matrix: Air
Analysis Batch: 88680

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 88709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.74	J	600	572.8		ug/Sample		94	75 - 125	2	20
Lead	9.58	J	600	607.7		ug/Sample		100	75 - 125	0	20
Manganese	11.4		600	600.8		ug/Sample		98	75 - 125	1	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-88387/1-A
Matrix: Air
Analysis Batch: 88403

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			08/17/20 15:15	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-35656-13 DU
Matrix: Air
Analysis Batch: 88403

Client Sample ID: PE-TSP080320-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	56.9			56.93		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-88389/1
Matrix: Air
Analysis Batch: 88389

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			08/17/20 14:28	1

Lab Sample ID: 570-35656-15 DU
Matrix: Air
Analysis Batch: 88389

Client Sample ID: PE_PM10080320-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	127			127.1		ug/m3				0	25

Metals

Analysis Batch: 88680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-88709/1-A	Method Blank	Total/NA	Air	6010B	88709
LCS 570-88709/2-A	Lab Control Sample	Total/NA	Air	6010B	88709
LCSD 570-88709/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	88709
570-35217-A-13-D MS	Matrix Spike	Total/NA	Air	6010B	88709
570-35217-A-13-E MSD	Matrix Spike Duplicate	Total/NA	Air	6010B	88709

Prep Batch: 88709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35656-13	PE-TSP080320-B606UPWIND	Total/NA	Air	3050B	
570-35656-14	PE-TSP080320-B606DOWNWIND	Total/NA	Air	3050B	
570-35656-17	PE-TSP080420-B606UPWIND	Total/NA	Air	3050B	
570-35656-18	PE-TSP080420-B606UDOWNWIND	Total/NA	Air	3050B	
570-35656-21	PE-TSP080520-B606UPWIND	Total/NA	Air	3050B	
570-35656-22	PE-TSP080520-B606DOWNWIND	Total/NA	Air	3050B	
570-35656-25	PE-TSP080620-B606UPWIND	Total/NA	Air	3050B	
570-35656-26	PE-TSP080620-B606DOWNWIND	Total/NA	Air	3050B	
570-35656-29	PE-TSP080720-B606UPWIND	Total/NA	Air	3050B	
570-35656-30	PE-TSP080720-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-88709/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-88709/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-88709/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-35217-A-13-D MS	Matrix Spike	Total/NA	Air	3050B	
570-35217-A-13-E MSD	Matrix Spike Duplicate	Total/NA	Air	3050B	

Analysis Batch: 89701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35656-13	PE-TSP080320-B606UPWIND	Total/NA	Air	6010B	88709
570-35656-14	PE-TSP080320-B606DOWNWIND	Total/NA	Air	6010B	88709
570-35656-17	PE-TSP080420-B606UPWIND	Total/NA	Air	6010B	88709
570-35656-18	PE-TSP080420-B606UDOWNWIND	Total/NA	Air	6010B	88709
570-35656-21	PE-TSP080520-B606UPWIND	Total/NA	Air	6010B	88709
570-35656-22	PE-TSP080520-B606DOWNWIND	Total/NA	Air	6010B	88709
570-35656-25	PE-TSP080620-B606UPWIND	Total/NA	Air	6010B	88709
570-35656-26	PE-TSP080620-B606DOWNWIND	Total/NA	Air	6010B	88709
570-35656-29	PE-TSP080720-B606UPWIND	Total/NA	Air	6010B	88709
570-35656-30	PE-TSP080720-B606DOWNWIND	Total/NA	Air	6010B	88709

General Chemistry

Pre Prep Batch: 88387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35656-13	PE-TSP080320-B606UPWIND	Total/NA	Air	Filter to Air	
570-35656-14	PE-TSP080320-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-35656-17	PE-TSP080420-B606UPWIND	Total/NA	Air	Filter to Air	
570-35656-18	PE-TSP080420-B606UDOWNWIND	Total/NA	Air	Filter to Air	
570-35656-21	PE-TSP080520-B606UPWIND	Total/NA	Air	Filter to Air	
570-35656-22	PE-TSP080520-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-35656-25	PE-TSP080620-B606UPWIND	Total/NA	Air	Filter to Air	
570-35656-26	PE-TSP080620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-35656-29	PE-TSP080720-B606UPWIND	Total/NA	Air	Filter to Air	
570-35656-30	PE-TSP080720-B606DOWNWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 88387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-88387/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-35656-13 DU	PE-TSP080320-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 88389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35656-15	PE_PM10080320-B606UPWIND	Total/NA	Air	PM10	
570-35656-16	PE_PM10080320-B606DOWNWIND	Total/NA	Air	PM10	
570-35656-19	PE_PM10080420-B606UPWIND	Total/NA	Air	PM10	
570-35656-20	PE_PM10080420-B606DOWNWIND	Total/NA	Air	PM10	
570-35656-23	PE_PM10080520-B606UPWIND	Total/NA	Air	PM10	
570-35656-24	PE_PM10080520-B606DOWNWIND	Total/NA	Air	PM10	
570-35656-27	PE_PM10080620-B606UPWIND	Total/NA	Air	PM10	
570-35656-28	PE_PM10080620-B606DOWNWIND	Total/NA	Air	PM10	
570-35656-31	PE_PM10080720-B606UPWIND	Total/NA	Air	PM10	
570-35656-32	PE_PM10080720-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-88389/1	Method Blank	Total/NA	Air	PM10	
570-35656-15 DU	PE_PM10080320-B606UPWIND	Total/NA	Air	PM10	

Analysis Batch: 88403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35656-13	PE-TSP080320-B606UPWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-14	PE-TSP080320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-17	PE-TSP080420-B606UPWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-18	PE-TSP080420-B606UDOWNWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-21	PE-TSP080520-B606UPWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-22	PE-TSP080520-B606DOWNWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-25	PE-TSP080620-B606UPWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-26	PE-TSP080620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-29	PE-TSP080720-B606UPWIND	Total/NA	Air	40CFR50 App B	88387
570-35656-30	PE-TSP080720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	88387
MB 570-88387/1-A	Method Blank	Total/NA	Air	40CFR50 App B	88387
570-35656-13 DU	PE-TSP080320-B606UPWIND	Total/NA	Air	40CFR50 App B	88387

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

Client Sample ID: PE-TSP080320-B606UPWIND
Lab Sample ID: 570-35656-13
Date Collected: 08/03/20 07:00
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:11	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 20:57	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080320-B606DOWNWIND
Lab Sample ID: 570-35656-14
Date Collected: 08/03/20 07:10
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 20:59	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080320-B606UPWIND
Lab Sample ID: 570-35656-15
Date Collected: 08/03/20 07:00
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3861 g	4.4703 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080320-B606DOWNWIND
Lab Sample ID: 570-35656-16
Date Collected: 08/03/20 07:10
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4236 g	4.4362 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080420-B606UPWIND
Lab Sample ID: 570-35656-17
Date Collected: 08/04/20 07:08
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:01	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080420-B606UDOWNWIND
Lab Sample ID: 570-35656-18
Date Collected: 08/04/20 07:17
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:03	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080420-B606UPWIND
Lab Sample ID: 570-35656-19
Date Collected: 08/04/20 07:08
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4214 g	4.4437 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080420-B606DOWNWIND
Lab Sample ID: 570-35656-20
Date Collected: 08/04/20 07:17
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4136 g	4.4383 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080520-B606UPWIND
Lab Sample ID: 570-35656-21
Date Collected: 08/05/20 07:01
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:06	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080520-B606DOWNWIND
Lab Sample ID: 570-35656-22
Date Collected: 08/05/20 07:15
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:08	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

Client Sample ID: PE_PM10080520-B606UPWIND
Lab Sample ID: 570-35656-23
Date Collected: 08/05/20 07:01
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4160 g	4.4422 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080520-B606DOWNWIND
Lab Sample ID: 570-35656-24
Date Collected: 08/05/20 07:15
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4112 g	4.4375 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080620-B606UPWIND
Lab Sample ID: 570-35656-25
Date Collected: 08/06/20 07:01
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:11	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080620-B606DOWNWIND
Lab Sample ID: 570-35656-26
Date Collected: 08/06/20 07:11
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:13	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080620-B606UPWIND
Lab Sample ID: 570-35656-27
Date Collected: 08/06/20 07:01
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3911 g	4.4124 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

Client Sample ID: PE_PM10080620-B606DOWNWIND
Lab Sample ID: 570-35656-28
Date Collected: 08/06/20 07:11
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4291 g	4.4559 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080720-B606UPWIND
Lab Sample ID: 570-35656-29
Date Collected: 08/07/20 07:05
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:15	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP080720-B606DOWNWIND
Lab Sample ID: 570-35656-30
Date Collected: 08/07/20 07:15
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	88709	08/18/20 19:34	OYW3	ECL 1
Total/NA	Analysis	6010B		1			89701	08/21/20 21:17	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					88387	08/17/20 14:24	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			88403	08/17/20 15:15	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080720-B606UPWIND
Lab Sample ID: 570-35656-31
Date Collected: 08/07/20 07:05
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3737 g	4.4057 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10080720-B606DOWNWIND
Lab Sample ID: 570-35656-32
Date Collected: 08/07/20 07:15
Matrix: Air
Date Received: 08/12/20 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4094 g	4.4504 g	88389	08/17/20 14:28	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-35656-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-35656-1	PE-ASB080320-B606UPWIND	Air	08/03/20 07:00	08/12/20 10:30	
570-35656-2	PE-ASB080320-B606DOWNWIND	Air	08/03/20 07:10	08/12/20 10:30	
570-35656-3	PE-ASB080420-B606UPWIND	Air	08/04/20 07:08	08/12/20 10:30	
570-35656-4	PE-ASB080420-B606DOWNWIND	Air	08/04/20 07:14	08/12/20 10:30	
570-35656-5	PE-ASB080520-B606UPWIND	Air	08/05/20 07:01	08/12/20 10:30	
570-35656-6	PE-ASB080520-B606DOWNWIND	Air	08/05/20 07:15	08/12/20 10:30	
570-35656-7	PE-ASB080620-B606UPWIND	Air	08/06/20 07:00	08/12/20 10:30	
570-35656-8	PE-ASB080620-B606DOWNWIND	Air	08/06/20 07:11	08/12/20 10:30	
570-35656-9	PE-ASB080720-B606UPWIND	Air	08/07/20 07:05	08/12/20 10:30	
570-35656-10	PE-ASB080720-B606DOWNWIND	Air	08/07/20 07:15	08/12/20 10:30	
570-35656-11	PE-ASB-BLANK-B606UPWIND	Air	08/07/20 07:05	08/12/20 10:30	
570-35656-12	PE-ASB-BLANK-B606DOWNWIND	Air	08/07/20 07:15	08/12/20 10:30	
570-35656-13	PE-TSP080320-B606UPWIND	Air	08/03/20 07:00	08/12/20 10:30	
570-35656-14	PE-TSP080320-B606DOWNWIND	Air	08/03/20 07:10	08/12/20 10:30	
570-35656-15	PE_PM10080320-B606UPWIND	Air	08/03/20 07:00	08/12/20 10:30	
570-35656-16	PE_PM10080320-B606DOWNWIND	Air	08/03/20 07:10	08/12/20 10:30	
570-35656-17	PE-TSP080420-B606UPWIND	Air	08/04/20 07:08	08/12/20 10:30	
570-35656-18	PE-TSP080420-B606UDOWNWIND	Air	08/04/20 07:17	08/12/20 10:30	
570-35656-19	PE_PM10080420-B606UPWIND	Air	08/04/20 07:08	08/12/20 10:30	
570-35656-20	PE_PM10080420-B606DOWNWIND	Air	08/04/20 07:17	08/12/20 10:30	
570-35656-21	PE-TSP080520-B606UPWIND	Air	08/05/20 07:01	08/12/20 10:30	
570-35656-22	PE-TSP080520-B606DOWNWIND	Air	08/05/20 07:15	08/12/20 10:30	
570-35656-23	PE_PM10080520-B606UPWIND	Air	08/05/20 07:01	08/12/20 10:30	
570-35656-24	PE_PM10080520-B606DOWNWIND	Air	08/05/20 07:15	08/12/20 10:30	
570-35656-25	PE-TSP080620-B606UPWIND	Air	08/06/20 07:01	08/12/20 10:30	
570-35656-26	PE-TSP080620-B606DOWNWIND	Air	08/06/20 07:11	08/12/20 10:30	
570-35656-27	PE_PM10080620-B606UPWIND	Air	08/06/20 07:01	08/12/20 10:30	
570-35656-28	PE_PM10080620-B606DOWNWIND	Air	08/06/20 07:11	08/12/20 10:30	
570-35656-29	PE-TSP080720-B606UPWIND	Air	08/07/20 07:05	08/12/20 10:30	
570-35656-30	PE-TSP080720-B606DOWNWIND	Air	08/07/20 07:15	08/12/20 10:30	
570-35656-31	PE_PM10080720-B606UPWIND	Air	08/07/20 07:05	08/12/20 10:30	
570-35656-32	PE_PM10080720-B606DOWNWIND	Air	08/07/20 07:15	08/12/20 10:30	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332014592
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 08/13/2020 02:00 PM
Analysis Date: 08/25/2020
Collected Date: 08/03/2020 - 08/07/2020

Project: HPNS - Parcel E / 500712 / 570-35656

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB080320-B606UPWIND (570-35656-1) *332014592-0001*		08/03/2020	2118.54	16	100	0.0013	20.4	0.0037	
PE-ASB080320-B606DOWNWIND (570-35656-2) *332014592-0002*		08/03/2020	1754	7	100	0.0015	8.92	0.0020	
PE-ASB080420-B606UPWIND (570-35656-3) *332014592-0003*		08/04/2020	2096	7	100	0.0013	8.92	0.0016	
PE-ASB080420-B606DOWNWIND (570-35656-4) *332014592-0004*		08/04/2020	2052.21	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB080520-B606UPWIND (570-35656-5) *332014592-0005*		08/05/2020	1891.41	13	100	0.0014	16.6	0.0034	
PE-ASB080520-B606DOWNWIND (570-35656-6) *332014592-0006*		08/05/2020	1688	<5.5	100	0.0016	<7.01	<0.0016	
PE-ASB080620-B606UPWIND (570-35656-7) *332014592-0007*		08/06/2020	1986	11	100	0.0014	14.0	0.0027	Sample pulled for 10% duplicate count.
PE-ASB080620-B606DOWNWIND (570-35656-8) *332014592-0008*		08/06/2020	1838	7.5	100	0.0015	9.55	0.0020	
PE-ASB080720-B606UPWIND (570-35656-9) *332014592-0009*		08/07/2020	1155.75	9.5	100	0.0023	12.1	0.0040	
PE-ASB080720-B606DOWNWIND (570-35656-10) *332014592-0010*		08/07/2020	1114	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB-BLANK-B606UPWIND (570-35656-11) *332014592-0011*		08/07/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-35656-12) *332014592-0012*		08/07/2020		<5.5	100		<7.01		Field Blank
PE-ASB080620-B606UPWIND (570-35656-7)		08/06/2020	1986	12.5	100	0.0014	15.9	0.0031	10% Duplicate.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 08/25/2020 12:47 PM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332014592
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 08/13/2020 02:00 PM
Analysis Date: 08/25/2020
Collected Date: 08/03/2020 - 08/07/2020

Project: HPNS - Parcel E / 500712 / 570-35656

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
332014592-0013									

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 13

Michael Chapman, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 08/25/2020 12:47 PM

35656

APTIM

570-35656 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 019

Page 1 of 2

APTIM Federal Services, LLC

4005 Port Chicago Hwy

Concord, CA 94520

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*

Phone/Fax Number: *805.680.8279*

Address: *4005 Port Chicago Hwy*

City: *Concord, CA 94520*

edgar.ruiz@aptim.com

Project Number: 500712

Project Name: HPNS - Parcel E

Project Location: San Francisco, CA

Purchase Order #: 115718

Lab Destination: Eurofins-Calscience

7440 Lincoln Way

Garden Grove CA 92841

Lab Contact: Terri Chang

Sampler's Name(s): ER

	Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
									Analyses Requested									
1	PE-ASB080320-B606UPWIND	CU125031	08/03/20	7:00	G	A	1	PCM			X			2.01	2.11			
2	PE-ASB080320-B606DOWNWIND	CU125190	08/03/20	7:10	G	A	1	PCM			X			2.00	1.75			
3	PE-ASB080420-B606UPWIND	CU125041	08/04/20	7:08	G	A	1	PCM			X			2.00	2.10			
4	PE-ASB080420-B606DOWNWIND	CU125106	08/04/20	7:17	G	A	1	PCM			X			2.01	2.05			
5	PE-ASB080520-B606UPWIND	CU085977	08/05/20	7:01	G	A	1	PCM			X			2.01	1.89			
6	PE-ASB080520-B606DOWNWIND	CU125130	08/05/20	7:15	G	A	1	PCM			X			2.00	1.69			
7	PE-ASB080620-B606UPWIND	CU085997	08/06/20	7:00	G	A	1	PCM			X			2.00	1.99			
8	PE-ASB080620-B606DOWNWIND	CU125220	08/06/20	7:11	G	A	1	PCM			X			2.00	1.84			
9	PE-ASB080720-B606UPWIND	CU125036	08/07/20	7:05	G	A	1	PCM			X			2.00	1.15			
10	PE-ASB080720-B606DOWNWIND	CU125039	08/07/20	7:15	G	A	1	PCM			X			2.00	1.11			
11	PE-ASB-BLANK-B606UPWIND	CU125061	08/07/20	7:05	G	A	1	PCM			X			NA				
12	PE-ASB-BLANK-B606DOWNWIND	CU125069	08/07/20	7:15	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Page 23 of 31

Special Instructions:

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I | II | III | Project Specific:

Relinquished By: Edgar Ruiz	Date: 8/7/20 Time: 1700	Received By: Lock and Storage	Date: 8/7/20 Time: 1700
Relinquished By: Lock and Storage	Date: 8/11/20 Time: 0900	Received By: Edgar Ruiz	Date: 8/11/20 Time: 0900
Relinquished By: Edgar Ruiz	Date: 8/11/20 Time: 1000	Received By:	Date: 8/11/20 Time: 1000

Relinquished by to 680 8/11/20 1630

08/12/2020 0830

Method Codes

C = Composite G = Grab

Matrix Codes

DW = Drinking Water SL = Sludge

GW = Ground Water CP = Chip Samples

WW = Waste Water SO =Soil

A=Air

ABS=Asbestos, PO=Pipe Openning

22.0

8/26/2020

35656

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 019

Page 2 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
			Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
23	PE-TSP080320-B606UPWIND	847	08/03/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	657.0			
24	PE-TSP08020-B606DOWNWIND	848	08/03/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	634.4			
25	PE_PM10080320-B606UPWIND	Q0398964	08/03/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	662.7			
26	PE_PM10080320-B606DOWNWIND	Q0398965	08/03/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	634.4			
27	PE-TSP080420-B606UPWIND	849	08/04/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	648.0			
18	PE-TSP080420-B606DOWNWIND	850	08/04/20	7:17	G	A	1	8X10 EPM Whatman					X	1132.80	626.4			
19	PE_PM10080420-B606UPWIND	Q0398967	08/04/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	648.0			
20	PE_PM10080420-B606DOWNWIND	Q0398968	08/04/20	7:17	G	A	1	8X10 EPM Whatman				X		1132.80	626.4			
21	PE-TSP080520-B606UPWIND	851	08/05/20	7:01	G	A	1	8X10 EPM Whatman					X	1132.80	655.9			
22	PE-TSP080520-B606DOWNWIND	852	08/05/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	628.7			
23	PE_PM10080520-B606UPWIND	Q0398969	08/05/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.80	655.9			
24	PE_PM10080520-B606DOWNWIND	Q0398970	08/05/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	628.7			
25	PE-TSP080620-B606UPWIND	853	08/06/20	7:01	G	A	1	8X10 EPM Whatman					X	1132.80	655.9			
26	PE-TSP080620-B606DOWNWIND	854	08/06/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	633.2			
27	PE_PM10080620-B606UPWIND	Q0398971	08/06/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.80	655.9			
28	PE_PM10080620-B606DOWNWIND	Q0398972	08/06/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	633.2			
29	PE-TSP080720-B606UPWIND	855	08/07/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.80	651.4			
30	PE-TSP080720-B606DOWNWIND	856	08/07/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	628.7			
31	PE_PM10080720-B606UPWIND	Q0398975	08/07/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.80	651.4			
32	PE_PM10080720-B606DOWNWIND	Q0398974	08/07/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	628.7			

Page 24 of 31

8/26/2020

3565C

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 019

SAMPLE NO. PE-TSP080320-B606UPWIND 8/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
847	40.0	40.0	40.0	8/03/20 07:00	8/03/20 16:40	580	657.0	TSP	1132.80

SAMPLE NO. PE-TSP08020-B606DOWNWIND 8/3/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
848	40.0	40.0	40.0	8/03/20 07:10	8/03/20 16:30	560	634.4	TSP	1132.80

SAMPLE NO. PE_PM10080320-B606UPWIND 8/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398964	40.0	40.0	40.0	8/03/20 07:00	8/03/20 16:45	585	662.7	PM-10	1132.80

SAMPLE NO. PE_PM10080320-B606DOWNWIND 8/3/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398965	40.0	40.0	40.0	8/03/20 07:10	8/03/20 16:30	560	634.4	PM-10	1132.80

SAMPLE NO. PE-TSP080420-B606UPWIND 8/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
849	40.0	40.0	40.0	8/04/20 07:08	8/04/20 16:40	572	648.0	TSP	1132.80

SAMPLE NO. PE-TSP080420-B606DOWNWIND 8/4/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
850	40.0	40.0	40.0	8/04/20 07:17	8/04/20 16:30	553	626.4	TSP	1132.80

SAMPLE NO. PE_PM10080420-B606UPWIND 8/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398967	40.0	40.0	40.0	8/04/20 07:08	8/04/20 16:40	572	648.0	PM-10	1132.80

SAMPLE NO. PE_PM10080420-B606DOWNWIND 8/4/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398968	40.0	40.0	40.0	8/04/20 07:17	8/04/20 16:30	553	626.4	PM-10	1132.80

SAMPLE NO. **PE-TSP080520-B606UPWIND** 8/5/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
851	40.0	40.0	40.0	8/05/20 07:01	8/05/20 16:40	579	655.9	TSP	1132.80

SAMPLE NO. **PE-TSP080520-B606DOWNWIND** 8/5/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
852	40.0	40.0	40.0	8/05/20 07:15	8/05/20 16:30	555	628.7	TSP	1132.80

SAMPLE NO. **PE_PM10080520-B606UPWIND** 8/5/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398969	40.0	40.0	40.0	8/05/20 07:01	8/05/20 16:40	579	655.9	PM-10	1132.80

SAMPLE NO. **PE_PM10080520-B606DOWNWIND** 8/5/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398970	40.0	40.0	40.0	8/05/20 07:15	8/05/20 16:30	555	628.7	PM-10	1132.80

SAMPLE NO. **PE-TSP080620-B606UPWIND** 8/6/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
853	40.0	40.0	40.0	8/06/20 07:01	8/06/20 16:40	579	655.9	TSP	1132.80

SAMPLE NO. **PE-TSP080620-B606DOWNWIND** 8/6/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
854	40.0	40.0	40.0	8/06/20 07:11	8/06/20 16:30	559	633.2	TSP	1132.80

SAMPLE NO. **PE_PM10080620-B606UPWIND** 8/6/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398971	40.0	40.0	40.0	8/06/20 07:01	8/06/20 16:40	579	655.9	PM-10	1132.80

SAMPLE NO. **PE_PM10080620-B606DOWNWIND** 8/6/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398972	40.0	40.0	40.0	8/06/20 07:11	8/06/20 16:30	559	633.2	PM-10	1132.80

SAMPLE NO. **PE-TSP080720-B606UPWIND** 8/7/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				

855	40.0	40.0	40.0	8/07/20 07:05	8/07/20 16:40	575	651.4	TSP	1132.80

SAMPLE NO. **PE-TSP080720-B606DOWNWIND** 8/7/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
856	40.0	40.0	40.0	8/07/20 07:15	8/07/20 16:30	555	628.7	TSP	1132.80

SAMPLE NO. **PE_PM10080720-B606UPWIND** 8/7/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398975	40.0	40.0	40.0	8/07/20 07:05	8/07/20 16:40	575	651.4	PM-10	1132.80

SAMPLE NO. **PE_PM10080720-B606DOWNWIND** 8/7/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398974	40.0	40.0	40.0	8/07/20 07:15	8/07/20 16:30	555	628.7	PM-10	1132.80

35756

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 019

SAMPLE NO. PE-ASB080320-B606UPWIND 8/3/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125031	2.005	2.005	2.005	8/03/20 07:00	8/04/20 00:34	1054	2.11	Asbestos	2.01

SAMPLE NO. PE-ASB080320-B606DOWNWIND 8/3/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125190	2.000	2.000	2.000	8/03/20 07:10	8/03/20 21:47	877	1.75	Asbestos	2.00

SAMPLE NO. PE-ASB080420-B606UPWIND 8/4/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125041	2.000	2.000	2.000	8/04/20 07:08	8/05/20 00:36	1048	2.10	Asbestos	2.00

SAMPLE NO. PE-ASB080420-B606DOWNWIND 8/4/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125106	2.005	2.005	2.005	8/04/20 07:17	8/05/20 00:18	1021	2.05	Asbestos	2.01

SAMPLE NO. PE-ASB080520-B606UPWIND 8/5/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU085977	2.005	2.005	2.005	8/05/20 07:01	8/05/20 22:42	941	1.89	Asbestos	2.01

SAMPLE NO. PE-ASB080520-B606DOWNWIND 8/5/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125130	2.000	2.000	2.000	8/05/20 07:15	8/05/20 21:19	844	1.69	Asbestos	2.00

SAMPLE NO. PE-ASB080620-B606UPWIND 8/6/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU085997	2.000	2.000	2.000	8/06/20 07:00	8/06/20 23:33	993	1.99	Asbestos	2.00

SAMPLE NO. PE-ASB080620-B606DOWNWIND 8/6/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125220	2.000	2.000	2.000	8/06/20 07:11	8/06/20 22:30	919	1.84	Asbestos	2.00

35656

SAMPLE NO.	PE-ASB080720-B606UPWIND			8/7/2020 *Building 606 Upwind*					
LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125036	2.005	2.005	2.005	8/07/20 07:05	8/07/20 16:40	575	1.15	Asbestos	2.01

SAMPLE NO.	PE-ASB080720-B606DOWNWIND			8/7/2020 *Building 606 Downwind*					
LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125039	2.000	2.000	2.0	8/07/20 07:15	8/07/20 16:32	557	1.11	Asbestos	2.00

SAMPLE NO.	PE-ASB-BLANK-B606UPWIND			8/7/2020 *Building 606 Upwind*					
LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125061				07:05 8/07/20 ~~07:00~~	ER B/11		0.0	Asbestos	

SAMPLE NO.	PE-ASB-BLANK-B606DOWNWIND			8/7/2020 *Building 606 Downwind*					
LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125069				8/07/20 07:15			0.0	Asbestos	

35656

8/11/2020

GLS

570-35656 Waybill

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
APTIM
Delivery Instructions:

Signature Type: STANDARD

Tracking #: 550032413

NPS

GARDEN GROVE

S92841A

25132007

ORC CA927-CL0

Print Date: 8/11/2020 1:40 PM

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-35656-1

Login Number: 35656
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-36252-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
9/1/2020 1:08:25 PM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-36252-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-36252-1

Comments
No additional comments.

Receipt
The samples were received on 8/19/2020 10:25 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-91198 and analytical batch 570-91581 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP081020-B606UPWIND
Date Collected: 08/10/20 07:04
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.72**	**J**	18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 17:41	1
Lead	**21.0**	**F1**	12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 17:41	1
Manganese	**32.0**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 17:41	1

Client Sample ID: PE-TSP081020-B606DOWNWIND
Date Collected: 08/10/20 07:13
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.69**	**J**	18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 17:47	1
Lead	**17.9**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 17:47	1
Manganese	**32.9**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 17:47	1

Client Sample ID: PE-TSP081120-B606UPWIND
Date Collected: 08/11/20 07:00
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.59**	**J**	18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 17:49	1
Lead	**22.9**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 17:49	1
Manganese	**38.3**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 17:49	1

Client Sample ID: PE-TSP081120-B606DOWNWIND
Date Collected: 08/11/20 07:11
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 17:51	1
Lead	**23.9**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 17:51	1
Manganese	**15.6**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 17:51	1

Client Sample ID: PE-TSP081220-B606UPWIND
Date Collected: 08/12/20 07:00
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**22.3**		18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 18:05	1
Lead	**15.6**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 18:05	1
Manganese	**15.3**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 18:05	1

Client Sample ID: PE-TSP081220-B606UDOWNWIND
Date Collected: 08/12/20 07:10
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 18:07	1
Lead	**18.4**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 18:07	1
Manganese	**20.5**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 18:07	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP081320-B606UPWIND
Date Collected: 08/13/20 06:58
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 18:09	1
Lead	**24.8**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 18:09	1
Manganese	**22.7**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 18:09	1

Client Sample ID: PE-TSP081320-B606DOWNWIND
Date Collected: 08/13/20 07:08
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 18:11	1
Lead	**19.3**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 18:11	1
Manganese	**23.3**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 18:11	1

Client Sample ID: PE-TSP081420-B606UPWIND
Date Collected: 08/14/20 07:00
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.46**	**J**	18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 18:13	1
Lead	**35.4**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 18:13	1
Manganese	**34.5**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 18:13	1

Client Sample ID: PE-TSP081420-B606DOWNWIND
Date Collected: 08/14/20 07:10
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.58**	**J**	18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 18:15	1
Lead	**25.0**		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 18:15	1
Manganese	**23.1**		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 18:15	1

General Chemistry

Client Sample ID: PE-TSP081020-B606UPWIND — **Lab Sample ID: 570-36252-13**
Date Collected: 08/10/20 07:04 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	53.9		5.03	5.03	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-TSP081020-B606DOWNWIND — **Lab Sample ID: 570-36252-14**
Date Collected: 08/10/20 07:13 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.8		5.22	5.22	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-PM10081020-B606UPWIND — **Lab Sample ID: 570-36252-15**
Date Collected: 08/10/20 07:04 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.6		5.03	NaN	ug/m3			08/25/20 11:00	1

Client Sample ID: PE-PM10081020-B606DOWNWIND — **Lab Sample ID: 570-36252-16**
Date Collected: 08/10/20 07:13 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	42.3		5.22	NaN	ug/m3			08/25/20 11:00	1

Client Sample ID: PE-TSP081120-B606UPWIND — **Lab Sample ID: 570-36252-17**
Date Collected: 08/11/20 07:00 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.5		4.53	4.53	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-TSP081120-B606DOWNWIND — **Lab Sample ID: 570-36252-18**
Date Collected: 08/11/20 07:11 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.4		4.70	4.70	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-PM10081120-B606UPWIND — **Lab Sample ID: 570-36252-19**
Date Collected: 08/11/20 07:00 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.7		4.53	NaN	ug/m3			08/25/20 11:00	1

Client Sample ID: PE-PM10081120-B606DOWNWIND — **Lab Sample ID: 570-36252-20**
Date Collected: 08/11/20 07:11 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	29.0		4.70	NaN	ug/m3			08/25/20 11:00	1

General Chemistry

Client Sample ID: PE-TSP081220-B606UPWIND — **Lab Sample ID: 570-36252-21**
Date Collected: 08/12/20 07:00 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.3		4.53	4.53	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-TSP081220-B606UDOWNWIND — **Lab Sample ID: 570-36252-22**
Date Collected: 08/12/20 07:10 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.7		4.69	4.69	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-PM10081220-B606UPWIND — **Lab Sample ID: 570-36252-23**
Date Collected: 08/12/20 07:00 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.4		4.53	NaN	ug/m3			08/25/20 11:00	1

Client Sample ID: PE-PM10081220-B606DOWNWIND — **Lab Sample ID: 570-36252-24**
Date Collected: 08/12/20 07:10 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.7		4.69	NaN	ug/m3			08/25/20 11:00	1

Client Sample ID: PE-TSP081320-B606UPWIND — **Lab Sample ID: 570-36252-25**
Date Collected: 08/13/20 06:58 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.8		4.51	4.51	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-TSP081320-B606DOWNWIND — **Lab Sample ID: 570-36252-26**
Date Collected: 08/13/20 07:08 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.0		4.67	4.67	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-PM10081320-B606UPWIND — **Lab Sample ID: 570-36252-27**
Date Collected: 08/13/20 06:58 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	45.9		4.51	NaN	ug/m3			08/25/20 11:00	1

Client Sample ID: PE-PM10081320-B606DOWNWIND — **Lab Sample ID: 570-36252-28**
Date Collected: 08/13/20 07:08 — **Matrix: Air**
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	60.4		4.67	NaN	ug/m3			08/25/20 11:00	1

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

General Chemistry

Client Sample ID: PE-TSP081420-B606UPWIND
Date Collected: 08/14/20 07:00
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	70.8		4.53	4.53	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-TSP081420-B606DOWNWIND
Date Collected: 08/14/20 07:10
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	51.9		4.69	4.69	ug/m3			08/25/20 13:53	1

Client Sample ID: PE-PM10081420-B606UPWIND
Date Collected: 08/14/20 07:00
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	38.8		4.53	NaN	ug/m3			08/25/20 11:00	1

Client Sample ID: PE-PM10081420-B606DOWNWIND
Date Collected: 08/14/20 07:10
Date Received: 08/19/20 10:25
Sample Container: Folder/Filter

Lab Sample ID: 570-36252-32
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	44.7		4.69	NaN	ug/m3			08/25/20 11:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-91198/1-A
Matrix: Air
Analysis Batch: 91581

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/29/20 11:00	08/31/20 17:33	1
Lead	ND		12.0	3.16	ug/Sample		08/29/20 11:00	08/31/20 17:33	1
Manganese	ND		6.00	3.34	ug/Sample		08/29/20 11:00	08/31/20 17:33	1

Lab Sample ID: LCS 570-91198/2-A
Matrix: Air
Analysis Batch: 91581

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	648.5		ug/Sample		108	80 - 120
Lead	600	663.3		ug/Sample		111	80 - 120
Manganese	600	658.1		ug/Sample		110	80 - 120

Lab Sample ID: LCSD 570-91198/3-A
Matrix: Air
Analysis Batch: 91581

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	641.5		ug/Sample		107	80 - 120	1	20
Lead	600	660.9		ug/Sample		110	80 - 120	0	20
Manganese	600	658.2		ug/Sample		110	80 - 120	0	20

Lab Sample ID: 570-36252-13 MS
Matrix: Air
Analysis Batch: 91581

Client Sample ID: PE-TSP081020-B606UPWIND
Prep Type: Total/NA
Prep Batch: 91198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	9.72	J	600	683.0		ug/Sample		112	75 - 125
Lead	21.0	F1	600	811.7	F1	ug/Sample		132	75 - 125
Manganese	32.0		600	689.3		ug/Sample		110	75 - 125

Lab Sample ID: 570-36252-13 MSD
Matrix: Air
Analysis Batch: 91581

Client Sample ID: PE-TSP081020-B606UPWIND
Prep Type: Total/NA
Prep Batch: 91198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	9.72	J	600	644.3		ug/Sample		106	75 - 125	6	20
Lead	21.0	F1	600	827.6	F1	ug/Sample		134	75 - 125	2	20
Manganese	32.0		600	694.4		ug/Sample		110	75 - 125	1	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-90203/1-A
Matrix: Air
Analysis Batch: 90230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			08/25/20 13:53	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-36252-13 DU
Matrix: Air
Analysis Batch: 90230

Client Sample ID: PE-TSP081020-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	53.9			54.04		ug/m3				0.3	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-91652/1
Matrix: Air
Analysis Batch: 91652

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			08/25/20 11:00	1

Lab Sample ID: 570-36252-15 DU
Matrix: Air
Analysis Batch: 91652

Client Sample ID: PE-PM10081020-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	33.6			33.56		ug/m3				0	25

Metals

Prep Batch: 91198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36252-13	PE-TSP081020-B606UPWIND	Total/NA	Air	3050B	
570-36252-14	PE-TSP081020-B606DOWNWIND	Total/NA	Air	3050B	
570-36252-17	PE-TSP081120-B606UPWIND	Total/NA	Air	3050B	
570-36252-18	PE-TSP081120-B606DOWNWIND	Total/NA	Air	3050B	
570-36252-21	PE-TSP081220-B606UPWIND	Total/NA	Air	3050B	
570-36252-22	PE-TSP081220-B606UDOWNWIND	Total/NA	Air	3050B	
570-36252-25	PE-TSP081320-B606UPWIND	Total/NA	Air	3050B	
570-36252-26	PE-TSP081320-B606DOWNWIND	Total/NA	Air	3050B	
570-36252-29	PE-TSP081420-B606UPWIND	Total/NA	Air	3050B	
570-36252-30	PE-TSP081420-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-91198/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-91198/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-91198/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-36252-13 MS	PE-TSP081020-B606UPWIND	Total/NA	Air	3050B	
570-36252-13 MSD	PE-TSP081020-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 91581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36252-13	PE-TSP081020-B606UPWIND	Total/NA	Air	6010B	91198
570-36252-14	PE-TSP081020-B606DOWNWIND	Total/NA	Air	6010B	91198
570-36252-17	PE-TSP081120-B606UPWIND	Total/NA	Air	6010B	91198
570-36252-18	PE-TSP081120-B606DOWNWIND	Total/NA	Air	6010B	91198
570-36252-21	PE-TSP081220-B606UPWIND	Total/NA	Air	6010B	91198
570-36252-22	PE-TSP081220-B606UDOWNWIND	Total/NA	Air	6010B	91198
570-36252-25	PE-TSP081320-B606UPWIND	Total/NA	Air	6010B	91198
570-36252-26	PE-TSP081320-B606DOWNWIND	Total/NA	Air	6010B	91198
570-36252-29	PE-TSP081420-B606UPWIND	Total/NA	Air	6010B	91198
570-36252-30	PE-TSP081420-B606DOWNWIND	Total/NA	Air	6010B	91198
MB 570-91198/1-A	Method Blank	Total/NA	Air	6010B	91198
LCS 570-91198/2-A	Lab Control Sample	Total/NA	Air	6010B	91198
LCSD 570-91198/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	91198
570-36252-13 MS	PE-TSP081020-B606UPWIND	Total/NA	Air	6010B	91198
570-36252-13 MSD	PE-TSP081020-B606UPWIND	Total/NA	Air	6010B	91198

General Chemistry

Pre Prep Batch: 90203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36252-13	PE-TSP081020-B606UPWIND	Total/NA	Air	Filter to Air	
570-36252-14	PE-TSP081020-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-36252-17	PE-TSP081120-B606UPWIND	Total/NA	Air	Filter to Air	
570-36252-18	PE-TSP081120-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-36252-21	PE-TSP081220-B606UPWIND	Total/NA	Air	Filter to Air	
570-36252-22	PE-TSP081220-B606UDOWNWIND	Total/NA	Air	Filter to Air	
570-36252-25	PE-TSP081320-B606UPWIND	Total/NA	Air	Filter to Air	
570-36252-26	PE-TSP081320-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-36252-29	PE-TSP081420-B606UPWIND	Total/NA	Air	Filter to Air	
570-36252-30	PE-TSP081420-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-90203/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-36252-13 DU	PE-TSP081020-B606UPWIND	Total/NA	Air	Filter to Air	

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

General Chemistry

Analysis Batch: 90230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36252-13	PE-TSP081020-B606UPWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-14	PE-TSP081020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-17	PE-TSP081120-B606UPWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-18	PE-TSP081120-B606DOWNWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-21	PE-TSP081220-B606UPWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-22	PE-TSP081220-B606UDOWNWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-25	PE-TSP081320-B606UPWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-26	PE-TSP081320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-29	PE-TSP081420-B606UPWIND	Total/NA	Air	40CFR50 App B	90203
570-36252-30	PE-TSP081420-B606DOWNWIND	Total/NA	Air	40CFR50 App B	90203
MB 570-90203/1-A	Method Blank	Total/NA	Air	40CFR50 App B	90203
570-36252-13 DU	PE-TSP081020-B606UPWIND	Total/NA	Air	40CFR50 App B	90203

Analysis Batch: 91652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36252-15	PE-PM10081020-B606UPWIND	Total/NA	Air	PM10	
570-36252-16	PE-PM10081020-B606DOWNWIND	Total/NA	Air	PM10	
570-36252-19	PE-PM10081120-B606UPWIND	Total/NA	Air	PM10	
570-36252-20	PE-PM10081120-B606DOWNWIND	Total/NA	Air	PM10	
570-36252-23	PE-PM10081220-B606UPWIND	Total/NA	Air	PM10	
570-36252-24	PE-PM10081220-B606DOWNWIND	Total/NA	Air	PM10	
570-36252-27	PE-PM10081320-B606UPWIND	Total/NA	Air	PM10	
570-36252-28	PE-PM10081320-B606DOWNWIND	Total/NA	Air	PM10	
570-36252-31	PE-PM10081420-B606UPWIND	Total/NA	Air	PM10	
570-36252-32	PE-PM10081420-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-91652/1	Method Blank	Total/NA	Air	PM10	
570-36252-15 DU	PE-PM10081020-B606UPWIND	Total/NA	Air	PM10	

Client Sample ID: PE-TSP081020-B606UPWIND

Lab Sample ID: 570-36252-13
Date Collected: 08/10/20 07:04
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 17:41	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081020-B606DOWNWIND

Lab Sample ID: 570-36252-14
Date Collected: 08/10/20 07:13
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 17:47	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081020-B606UPWIND

Lab Sample ID: 570-36252-15
Date Collected: 08/10/20 07:04
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4027 g	4.4227 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081020-B606DOWNWIND

Lab Sample ID: 570-36252-16
Date Collected: 08/10/20 07:13
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4113 g	4.4356 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081120-B606UPWIND

Lab Sample ID: 570-36252-17
Date Collected: 08/11/20 07:00
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 17:49	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

Client Sample ID: PE-TSP081120-B606DOWNWIND
Lab Sample ID: 570-36252-18
Date Collected: 08/11/20 07:11
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 17:51	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081120-B606UPWIND
Lab Sample ID: 570-36252-19
Date Collected: 08/11/20 07:00
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4062 g	4.4239 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081120-B606DOWNWIND
Lab Sample ID: 570-36252-20
Date Collected: 08/11/20 07:11
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4032 g	4.4217 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081220-B606UPWIND
Lab Sample ID: 570-36252-21
Date Collected: 08/12/20 07:00
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 18:05	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081220-B606UDOWNWIND
Lab Sample ID: 570-36252-22
Date Collected: 08/12/20 07:10
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 18:07	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

Client Sample ID: PE-PM10081220-B606UPWIND
Lab Sample ID: 570-36252-23
Date Collected: 08/12/20 07:00
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4044 g	4.4232 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081220-B606DOWNWIND
Lab Sample ID: 570-36252-24
Date Collected: 08/12/20 07:10
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4232 g	4.4441 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081320-B606UPWIND
Lab Sample ID: 570-36252-25
Date Collected: 08/13/20 06:58
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 18:09	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081320-B606DOWNWIND
Lab Sample ID: 570-36252-26
Date Collected: 08/13/20 07:08
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 18:11	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081320-B606UPWIND
Lab Sample ID: 570-36252-27
Date Collected: 08/13/20 06:58
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4129 g	4.4434 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

Client Sample ID: PE-PM10081320-B606DOWNWIND
Lab Sample ID: 570-36252-28
Date Collected: 08/13/20 07:08
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3984 g	4.4372 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081420-B606UPWIND
Lab Sample ID: 570-36252-29
Date Collected: 08/14/20 07:00
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 18:13	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081420-B606DOWNWIND
Lab Sample ID: 570-36252-30
Date Collected: 08/14/20 07:10
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	91198	08/29/20 11:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			91581	08/31/20 18:15	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					90203	08/25/20 12:56	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			90230	08/25/20 13:53	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081420-B606UPWIND
Lab Sample ID: 570-36252-31
Date Collected: 08/14/20 07:00
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4002 g	4.4259 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10081420-B606DOWNWIND
Lab Sample ID: 570-36252-32
Date Collected: 08/14/20 07:10
Matrix: Air
Date Received: 08/19/20 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4191 g	4.4477 g	91652	08/25/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36252-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-36252-1	PE-ASB081020-B606UPWIND	Air	08/10/20 07:04	08/19/20 10:25	
570-36252-2	PE-ASB081020-B606DOWNWIND	Air	08/10/20 07:13	08/19/20 10:25	
570-36252-3	PE-ASB081120-B606UPWIND	Air	08/11/20 07:00	08/19/20 10:25	
570-36252-4	PE-ASB081120-B606DOWNWIND	Air	08/11/20 07:11	08/19/20 10:25	
570-36252-5	PE-ASB081220-B606UPWIND	Air	08/12/20 07:00	08/19/20 10:25	
570-36252-6	PE-ASB081220-B606DOWNWIND	Air	08/12/20 07:10	08/19/20 10:25	
570-36252-7	PE-ASB081320-B606UPWIND	Air	08/13/20 06:58	08/19/20 10:25	
570-36252-8	PE-ASB081320-B606DOWNWIND	Air	08/13/20 07:08	08/19/20 10:25	
570-36252-9	PE-ASB081420-B606UPWIND	Air	08/14/20 07:00	08/19/20 10:25	
570-36252-10	PE-ASB081420-B606DOWNWIND	Air	08/14/20 07:10	08/19/20 10:25	
570-36252-11	PE-ASB-BLANK-B606UPWIND	Air	08/14/20 07:00	08/19/20 10:25	
570-36252-12	PE-ASB-BLANK-B606DOWNWIND	Air	08/14/20 07:10	08/19/20 10:25	
570-36252-13	PE-TSP081020-B606UPWIND	Air	08/10/20 07:04	08/19/20 10:25	
570-36252-14	PE-TSP081020-B606DOWNWIND	Air	08/10/20 07:13	08/19/20 10:25	
570-36252-15	PE-PM10081020-B606UPWIND	Air	08/10/20 07:04	08/19/20 10:25	
570-36252-16	PE-PM10081020-B606DOWNWIND	Air	08/10/20 07:13	08/19/20 10:25	
570-36252-17	PE-TSP081120-B606UPWIND	Air	08/11/20 07:00	08/19/20 10:25	
570-36252-18	PE-TSP081120-B606DOWNWIND	Air	08/11/20 07:11	08/19/20 10:25	
570-36252-19	PE-PM10081120-B606UPWIND	Air	08/11/20 07:00	08/19/20 10:25	
570-36252-20	PE-PM10081120-B606DOWNWIND	Air	08/11/20 07:11	08/19/20 10:25	
570-36252-21	PE-TSP081220-B606UPWIND	Air	08/12/20 07:00	08/19/20 10:25	
570-36252-22	PE-TSP081220-B606UDOWNWIND	Air	08/12/20 07:10	08/19/20 10:25	
570-36252-23	PE-PM10081220-B606UPWIND	Air	08/12/20 07:00	08/19/20 10:25	
570-36252-24	PE-PM10081220-B606DOWNWIND	Air	08/12/20 07:10	08/19/20 10:25	
570-36252-25	PE-TSP081320-B606UPWIND	Air	08/13/20 06:58	08/19/20 10:25	
570-36252-26	PE-TSP081320-B606DOWNWIND	Air	08/13/20 07:08	08/19/20 10:25	
570-36252-27	PE-PM10081320-B606UPWIND	Air	08/13/20 06:58	08/19/20 10:25	
570-36252-28	PE-PM10081320-B606DOWNWIND	Air	08/13/20 07:08	08/19/20 10:25	
570-36252-29	PE-TSP081420-B606UPWIND	Air	08/14/20 07:00	08/19/20 10:25	
570-36252-30	PE-TSP081420-B606DOWNWIND	Air	08/14/20 07:10	08/19/20 10:25	
570-36252-31	PE-PM10081420-B606UPWIND	Air	08/14/20 07:00	08/19/20 10:25	
570-36252-32	PE-PM10081420-B606DOWNWIND	Air	08/14/20 07:10	08/19/20 10:25	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332015118
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 08/20/2020 02:15 PM
Analysis Date: 09/01/2020
Collected Date: 08/10/2020 - 08/14/2020

Project: HPNS - Parcel E / 500712 / 570-36252

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB081020-B606UPWIND (570-36252-1) *332015118-0001*		08/10/2020	1941.66	15.5	100	0.0014	19.7	0.0039	
PE-ASB081020-B606DOWNWIND (570-36252-2) *332015118-0002*		08/10/2020	1960	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB081120-B606UPWIND (570-36252-3) *332015118-0003*		08/11/2020	1962	8	100	0.0014	10.2	0.0020	
PE-ASB081120-B606DOWNWIND (570-36252-4) *332015118-0004*		08/11/2020	1871.31	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB081220-B606UPWIND (570-36252-5) *332015118-0005*		08/12/2020	1062	25.5	100	0.0025	32.5	0.0118	
PE-ASB081220-B606DOWNWIND (570-36252-6) *332015118-0006*		08/12/2020	1875.33	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB081320-B606UPWIND (570-36252-7) *332015118-0007*		08/13/2020	1999.95	9	100	0.0013	11.5	0.0022	
PE-ASB081320-B606DOWNWIND (570-36252-8) *332015118-0008*		08/13/2020	1853.22	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB081420-B606UPWIND (570-36252-9) *332015118-0009*		08/14/2020	2032	7	100	0.0013	8.92	0.0017	
PE-ASB081420-B606DOWNWIND (570-36252-10) *332015118-0010*		08/14/2020	1962	<5.5	100	0.0014	<7.01	<0.0014	Sample pulled for 10% duplicate count.
PE-ASB-BLANK-B606UPWIND (570-36252-11) *332015118-0011*		08/14/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-36252-12) *332015118-0012*		08/14/2020		<5.5	100		<7.01		Field Blank
PE-ASB081420-B606DOWNWIND (570-36252-10)			1962	<5.5	100	0.0014	<7.01	<0.0014	10% duplicate count.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 09/01/2020 10:23 AM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332015118
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 08/20/2020 02:15 PM
Analysis Date: 09/01/2020
Collected Date: 08/10/2020 - 08/14/2020

Project: HPNS - Parcel E / 500712 / 570-36252

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
332015118-0013									

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 13

Michael Chapman, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 09/01/2020 10:23 AM

36252

APTIM

570-36252 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 020

Page 1 of 2

APTIM Federal Services, LLC

4005 Port Chicago Hwy

Concord, CA 94520

Project Manager: *Nels Johnson*
Send Report To: *Edgar Ruiz*
Phone/Fax Number: *805.680.8279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com
Sampler's Name(s): ER

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Lab Destination: Eurofins-Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Analyses Requested

	Sample ID Number	Filter No.	Date (Collection Information)	Time	Method	Matrix	# of containers	Container Type	PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB081020-B606UPWIND	CU201251	08/10/20	7:04	G	A	1	PCM			X			2.01	1.94			
2	PE-ASB081020-B606DOWNWIND	CU201685	08/10/20	7:13	G	A	1	PCM			X			2.00	1.96			
3	PE-ASB081120-B606UPWIND	CU201454	08/11/20	7:00	G	A	1	PCM			X			2.00	1.96			
4	PE-ASB081120-B606DOWNWIND	CU201455	08/11/20	7:11	G	A	1	PCM			X			2.01	1.87			
5	PE-ASB081220-B606UPWIND	CU201456	08/12/20	7:00	G	A	1	PCM			X			2.00	1.06			
6	PE-ASB081220-B606DOWNWIND	CU201668	08/12/20	7:10	G	A	1	PCM			X			2.01	1.87			
7	PE-ASB081320-B606UPWIND	CU201433	08/13/20	6:58	G	A	1	PCM			X			2.01	1.99			
8	PE-ASB081320-B606DOWNWIND	CU201438	08/13/20	7:08	G	A	1	PCM			X			2.01	1.85			
9	PE-ASB081420-B606UPWIND	CU201450	08/14/20	7:00	G	A	1	PCM			X			2.01	2.03			
10	PE-ASB081420-B606DOWNWIND	CU201651	08/14/20	7:10	G	A	1	PCM			X			2.01	1.96			
11	PE-ASB-BLANK-B606UPWIND	CU201435	08/14/20	7:00	G	A	1	PCM			X			NA				
12	PE-ASB-BLANK-B606DOWNWIND	CU201444	08/14/20	7:10	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions:

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I **II** III Project Specific:

Relinquished By	Date / Time	Received By	Date / Time
Relinquished By: Edgar Ruiz — *Edgar Ruiz* (signature)	Date: 8/14/20 Time: 1700	Lock & Storage	Date: 8/14/20 Time: 1700
Lock & Storage	Date: 8/18/20 Time: 0800	Edgar Ruiz — *Edgar Ruiz* (signature)	Date: 8/18/20 Time: 0800
Edgar Ruiz — *Edgar Ruiz* (signature)	Date: 1055 Time: 8/18/20	[signature] ECT	Date: 1055 Time: 8/18/20

Method Codes
C = Composite; G = Grab

Matrix Codes
SO = Soil
DW = Drinking Water; SL = Sludge
GW = Ground Water; CP = Chip Samples
WW = Waste Water
A=Air

ABS=Asbestos, PO=Pipe Openning

Relinquished by X [signature] To 650 8/18/20 ~~1055~~ MD 1630 [signature] 8/19/2020 1025 *C.S. 12.4/14.5

Page 23 of 33

9/1/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 020

Page 2 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
			Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOS	Flow Rate (L/min.)	Sample Volume (m^3)			
17	PE-TSP081020-B606UPWIND	857	08/10/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.80	595.9			
18	PE-TSP081020-B606DOWNWIND	858	08/10/20	7:13	G	A	1	8X10 EPM Whatman					X	1132.80	574.3			
19	PE_PM10081020-B606UPWIND	Q0398976	08/10/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.80	595.9			
20	PE_PM10081020-B606DOWNWIND	Q0398977	08/10/20	7:13	G	A	1	8X10 EPM Whatman				X		1132.80	574.3			
21	PE-TSP081120-B606UPWIND	861	08/11/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	662.7			
22	PE-TSP081120-B606DOWNWIND	862	08/11/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	638.9			
23	PE_PM10081120-B606UPWIND	Q0398980	08/11/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	662.7			
24	PE_PM10081120-B606DOWNWIND	Q0398981	08/11/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	638.9			
25	PE-TSP081220-B606UPWIND	859	08/12/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	662.7			
26	PE-TSP081220-B606DOWNWIND	860	08/12/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	640.0			
27	PE_PM10081220-B606UPWIND	Q0398978	08/12/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	662.7			
28	PE_PM10081220-B606DOWNWIND	Q0398979	08/12/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	640.0			
29	PE-TSP081320-B606UPWIND	863	08/13/20	6:58	G	A	1	8X10 EPM Whatman					X	1132.80	665.0			
30	PE-TSP081320-B606DOWNWIND	864	08/13/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	642.3			
31	PE_PM10081320-B606UPWIND	Q0398982	08/13/20	6:58	G	A	1	8X10 EPM Whatman				X		1132.80	665.0			
32	PE_PM10081320-B606DOWNWIND	Q0398983	08/13/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	642.3			
33	PE-TSP081420-B606UPWIND	865	08/14/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	662.7			
34	PE-TSP081420-B606DOWNWIND	866	08/14/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	640.0			
35	PE_PM10081420-B606UPWIND	Q0398984	08/14/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	662.7			
36	PE_PM10081420-B606DOWNWIND	Q0398985	08/14/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	640.0			

36252

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 020

SAMPLE NO. PE-ASB081020-B606UPWIND 8/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201251	2.005	2.005	2.005	8/10/20 07:04	8/10/20 23:10	966	1.94	Asbestos	2.01

SAMPLE NO. PE-ASB081020-B606DOWNWIND 8/10/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201685	2.000	2.000	2.000	8/10/20 07:13	8/10/20 23:33	980	1.96	Asbestos	2.00

SAMPLE NO. PE-ASB081120-B606UPWIND 8/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201454	2.000	2.000	2.000	8/11/20 07:00	8/11/20 23:21	981	1.96	Asbestos	2.00

SAMPLE NO. PE-ASB081120-B606DOWNWIND 8/11/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201455	2.005	2.005	2.005	8/11/20 07:11	8/11/20 22:42	931	1.87	Asbestos	2.01

SAMPLE NO. PE-ASB081220-B606UPWIND 8/12/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201456	2.000	2.000	2.000	8/12/20 07:00	8/12/20 15:51	531	1.06	Asbestos	2.00

SAMPLE NO. PE-ASB081220-B606DOWNWIND 8/12/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201668	2.005	2.005	2.005	8/12/20 07:10	8/12/20 22:43	933	1.87	Asbestos	2.01

SAMPLE NO. PE-ASB081320-B606UPWIND 8/13/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201433	2.005	2.005	2.005	8/13/20 06:58	8/13/20 23:33	995	1.99	Asbestos	2.01

SAMPLE NO. PE-ASB081320-B606DOWNWIND 8/13/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201438	2.005	2.005	2.005	8/13/20 07:08	8/13/20 22:30	922	1.85	Asbestos	2.01

36252

SAMPLE NO. **PE-ASB081420-B606UPWIND** 8/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201450	2.000	2.000	2.000	8/14/20 07:00	8/14/20 23:56	1016	2.03	Asbestos	2.00

SAMPLE NO. **PE-ASB081420-B606DOWNWIND** 8/14/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201651	2.000	2.000	2.0	8/14/20 07:10	8/14/20 23:31	981	1.96	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 8/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201435				8/14/20 07:00			0.0	Asbestos	

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 8/14/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201444				8/14/20 07:15			0.0	Asbestos	

36252

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 020

SAMPLE NO. PE-TSP081020-B606UPWIND 8/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
857	40.0	40.0	40.0	8/10/20 07:04	8/10/20 15:50	526	595.9	TSP	1132.80

SAMPLE NO. PE-TSP081020-B606DOWNWIND 8/10/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
858	40.0	40.0	40.0	8/10/20 07:13	8/10/20 15:40	507	574.3	TSP	1132.80

SAMPLE NO. PE_PM10081020-B606UPWIND 8/10/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398976	40.0	40.0	40.0	8/10/20 07:04	8/10/20 15:50	526	595.9	PM-10	1132.80

SAMPLE NO. PE_PM10081020-B606DOWNWIND 8/10/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398977	40.0	40.0	40.0	8/10/20 07:13	8/10/20 15:40	507	574.3	PM-10	1132.80

SAMPLE NO. PE-TSP081120-B606UPWIND 8/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
861	40.0	40.0	40.0	8/11/20 07:00	8/11/20 16:45	585	662.7	TSP	1132.80

SAMPLE NO. PE-TSP081120-B606DOWNWIND 8/11/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
862	40.0	40.0	40.0	8/11/20 07:11	8/11/20 16:35	564	638.9	TSP	1132.80

SAMPLE NO. PE_PM10081120-B606UPWIND 8/11/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398980	40.0	40.0	40.0	8/11/20 07:00	8/11/20 16:45	585	662.7	PM-10	1132.80

SAMPLE NO. PE_PM10081120-B606DOWNWIND 8/11/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398981	40.0	40.0	40.0	8/11/20 07:11	8/11/20 16:35	564	638.9	PM-10	1132.80

36252

SAMPLE NO. **PE-TSP081220-B606UPWIND** 8/12/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
859	40.0	40.0	40.0	8/12/20 07:00	8/12/20 16:45	585	662.7	TSP	1132.80

SAMPLE NO. **PE-TSP081220-B606DOWNWIND** 8/12/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
860	40.0	40.0	40.0	8/12/20 07:10	8/12/20 16:35	565	640.0	TSP	1132.80

SAMPLE NO. **PE_PM10081220-B606UPWIND** 8/12/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398978	40.0	40.0	40.0	8/12/20 07:00	8/12/20 16:45	585	662.7	PM-10	1132.80

SAMPLE NO. **PE_PM10081220-B606DOWNWIND** 8/12/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398979	40.0	40.0	40.0	8/12/20 07:10	8/12/20 16:35	565	640.0	PM-10	1132.80

SAMPLE NO. **PE-TSP081320-B606UPWIND** 8/13/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
863	40.0	40.0	40.0	8/13/20 06:58	8/13/20 16:45	587	665.0	TSP	1132.80

SAMPLE NO. **PE-TSP081320-B606DOWNWIND** 8/13/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
864	40.0	40.0	40.0	8/13/20 07:08	8/13/20 16:35	567	642.3	TSP	1132.80

SAMPLE NO. **PE_PM10081320-B606UPWIND** 8/13/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398982	40.0	40.0	40.0	8/13/20 06:58	8/13/20 16:45	587	665.0	PM-10	1132.80

SAMPLE NO. **PE_PM10081320-B606DOWNWIND** 8/13/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398983	40.0	40.0	40.0	8/13/20 07:08	8/13/20 16:35	567	642.3	PM-10	1132.80

SAMPLE NO. **PE-TSP081420-B606UPWIND** 8/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				

36252

865	40.0	40.0	40.0	8/14/20 07:00	8/14/20 16:45	585	662.7	TSP	1132.80

SAMPLE NO. **PE-TSP081420-B606DOWNWIND** 8/14/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
866	40.0	40.0	40.0	8/14/20 07:10	8/14/20 16:35	565	640.0	TSP	1132.80

SAMPLE NO. **PE_PM10081420-B606UPWIND** 8/14/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398984	40.0	40.0	40.0	8/14/20 07:00	8/14/20 16:45	585	662.7	PM-10	1132.80

SAMPLE NO. **PE_PM10081420-B606DOWNWIND** 8/14/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398985	40.0	40.0	40.0	8/14/20 07:10	8/14/20 16:35	565	640.0	PM-10	1132.80

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Chang, Terri	Carrier Tracking No(s):	COC No: 570-46429.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Terri.Chang@eurofinset.com	State of Origin: California	Page: Page 1 of 2
Company: EMSL Analytical, Inc.		Accreditations Required (See note):		Job #: 570-36252-1
Address: 5431 Industrial Drive,	Due Date Requested: 9/1/2020			
City: Huntington Beach	TAT Requested (days):			
State, Zip: CA, 92649				
Phone:	PO #:			
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~67003235~~ 570-36252			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - Low Flow)/ NIOSH 7400	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PE-ASB081020-B606UPWIND (570-36252-1)	8/10/20	07:04 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081020-B606DOWNWIND (570-36252-2)	8/10/20	07:13 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081120-B606UPWIND (570-36252-3)	8/11/20	07:00 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081120-B606DOWNWIND (570-36252-4)	8/11/20	07:11 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081220-B606UPWIND (570-36252-5)	8/12/20	07:00 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081220-B606DOWNWIND (570-36252-6)	8/12/20	07:10 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081320-B606UPWIND (570-36252-7)	8/13/20	06:58 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081320-B606DOWNWIND (570-36252-8)	8/13/20	07:08 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB081420-B606UPWIND (570-36252-9)	8/14/20	07:00 Pacific		Air			X	1	please provide standard excel EDD.

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Hemy Ln	8/20/20 2:09pm	E.C.	JS(WI)	8/20/20 2:15pm	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Phone: 714-895-5494 Fax: 714-894-7501

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Chang, Terri	Carrier Tracking No(s):	COC No: 570-46429.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Terri.Chang@eurofinset.com	State of Origin: California	Page: Page 2 of 2
Company: EMSL Analytical, Inc.		Accreditations Required (See note):		Job #: 570-36252-1
Address: 5431 Industrial Drive, ,	Due Date Requested: 9/1/2020	Analysis Requested		Preservation Codes:
City: Huntington Beach	TAT Requested (days):			
State, Zip: CA, 92649				
Phone:	PO #:			
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-36252			
Site:	SSOW#:			Other:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos - Low Flow)/ NIOSH 7400	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PE-ASB081420-B606DOWNWIND (570-36252-10)	8/14/20	07:10 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB-BLANK-B606UPWIND (570-36252-11)	8/14/20	07:00 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB-BLANK-B606DOWNWIND (570-36252-12)	8/14/20	07:10 Pacific		Air			X	1	please provide standard excel EDD.

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Calscience.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Hemmi Lu	8/20/20 2:09 PM	C-C	JS (LWT)	8/20/20 2:15pm	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Page 31 of 33

9/1/2020

14 13 12 11 10 9 8 7 6 5 4 3 2 1

GLS

570-36252 Waybill

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
APTIM
Delivery Instructions:

Signature Type: STANDARD

Tracking #: 550112121

NPS

GARDEN GROVE

S92841A

25505627

ORC CA927-CL0

Print Date: 8/18/2020 1:16 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-36252-1

Login Number: 36252
List Number: 1
Creator: Patel, Jayesh

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-36380-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
9/9/2020 4:02:53 PM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Job ID: 570-36380-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-36380-1

Comments
No additional comments.

Receipt
The samples were received on 8/26/2020 9:50 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP081720-B606UPWIND — **Lab Sample ID: 570-36380-13**
Date Collected: 08/17/20 07:19 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Other Client Container - unpreserved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:08	1
Lead	**8.05**	**J B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:08	1
Manganese	**27.2**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:08	1

Client Sample ID: PE-TSP081720-12ADOWNWIND — **Lab Sample ID: 570-36380-14**
Date Collected: 08/17/20 07:34 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Other Client Container - unpreserved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:14	1
Lead	**10.4**	**J B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:14	1
Manganese	**19.7**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:14	1

Client Sample ID: PE-TSP081820-B606UPWIND — **Lab Sample ID: 570-36380-17**
Date Collected: 08/18/20 08:35 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:15	1
Lead	**10.2**	**J B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:15	1
Manganese	**42.4**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:15	1

Client Sample ID: PE-TSP081820-12ADOWNWIND — **Lab Sample ID: 570-36380-18**
Date Collected: 08/18/20 08:45 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:17	1
Lead	**16.0**	**B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:17	1
Manganese	**42.0**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:17	1

Client Sample ID: PE-TSP081920-B606UPWIND — **Lab Sample ID: 570-36380-21**
Date Collected: 08/19/20 06:05 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:31	1
Lead	**16.3**	**B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:31	1
Manganese	**73.5**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:31	1

Client Sample ID: PE-TSP081920-12ADOWNWIND — **Lab Sample ID: 570-36380-22**
Date Collected: 08/19/20 06:15 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:33	1
Lead	**16.6**	**B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:33	1
Manganese	**82.5**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:33	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP082020-B606UPWIND
Date Collected: 08/20/20 06:05
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:35	1
Lead	ND		12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:35	1
Manganese	**37.0**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:35	1

Client Sample ID: PE-TSP082020-12ADOWNWIND
Date Collected: 08/20/20 06:15
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:37	1
Lead	**4.66**	**J B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:37	1
Manganese	**30.8**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:37	1

Client Sample ID: PE-TSP082120-B606UPWIND
Date Collected: 08/21/20 06:04
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:39	1
Lead	**6.04**	**J B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:39	1
Manganese	**23.4**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:39	1

Client Sample ID: PE-TSP082120-12ADOWNWIND
Date Collected: 08/21/20 06:12
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:41	1
Lead	**4.42**	**J B**	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:41	1
Manganese	**30.1**		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:41	1

General Chemistry

Client Sample ID: PE-TSP081720-B606UPWIND — **Lab Sample ID: 570-36380-13**
Date Collected: 08/17/20 07:19 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Other Client Container - unpreserved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	73.1		8.95	8.95	ug/m3			08/28/20 15:03	1

Client Sample ID: PE-TSP081720-12ADOWNWIND — **Lab Sample ID: 570-36380-14**
Date Collected: 08/17/20 07:34 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Other Client Container - unpreserved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.1		9.43	9.43	ug/m3			08/28/20 15:03	1

Client Sample ID: PE_PM10081720-B606UPWIND — **Lab Sample ID: 570-36380-15**
Date Collected: 08/17/20 07:19 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Other Client Container - unpreserved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.3		8.95	NaN	ug/m3			09/02/20 09:24	1

Client Sample ID: PE_PM10081720-12ADOWNWIND — **Lab Sample ID: 570-36380-16**
Date Collected: 08/17/20 07:34 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.0		9.43	NaN	ug/m3			09/02/20 09:24	1

Client Sample ID: PE-TSP081820-B606UPWIND — **Lab Sample ID: 570-36380-17**
Date Collected: 08/18/20 08:35 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.3		5.40	5.40	ug/m3			08/28/20 15:03	1

Client Sample ID: PE-TSP081820-12ADOWNWIND — **Lab Sample ID: 570-36380-18**
Date Collected: 08/18/20 08:45 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	74.8		5.63	5.63	ug/m3			08/28/20 15:03	1

Client Sample ID: PE_PM10081820-B606UPWIND — **Lab Sample ID: 570-36380-19**
Date Collected: 08/18/20 08:35 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	14.6		5.40	NaN	ug/m3			09/02/20 09:24	1

Client Sample ID: PE_PM10081820-12ADOWNWIND — **Lab Sample ID: 570-36380-20**
Date Collected: 08/18/20 08:45 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.9		5.63	NaN	ug/m3			09/02/20 09:24	1

General Chemistry

Client Sample ID: PE-TSP081920-B606UPWIND — **Lab Sample ID: 570-36380-21**
Date Collected: 08/19/20 06:05 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	89.9		4.14	4.14	ug/m3			08/28/20 15:03	1

Client Sample ID: PE-TSP081920-12ADOWNWIND — **Lab Sample ID: 570-36380-22**
Date Collected: 08/19/20 06:15 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	109		4.27	4.27	ug/m3			08/28/20 15:03	1

Client Sample ID: PE_PM10081920-B606UPWIND — **Lab Sample ID: 570-36380-23**
Date Collected: 08/19/20 06:05 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.7		4.14	NaN	ug/m3			09/02/20 09:24	1

Client Sample ID: PE_PM10081920-12ADOWNWIND — **Lab Sample ID: 570-36380-24**
Date Collected: 08/19/20 06:15 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	66.4		4.27	NaN	ug/m3			09/02/20 09:24	1

Client Sample ID: PE-TSP082020-B606UPWIND — **Lab Sample ID: 570-36380-25**
Date Collected: 08/20/20 06:05 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.7		4.14	4.14	ug/m3			08/28/20 15:03	1

Client Sample ID: PE-TSP082020-12ADOWNWIND — **Lab Sample ID: 570-36380-26**
Date Collected: 08/20/20 06:15 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.2		4.27	4.27	ug/m3			09/01/20 19:50	1

Client Sample ID: PE_PM10082020-B606UPWIND — **Lab Sample ID: 570-36380-27**
Date Collected: 08/20/20 06:05 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.1		4.14	NaN	ug/m3			09/02/20 09:24	1

Client Sample ID: PE_PM10082020-12ADOWNWIND — **Lab Sample ID: 570-36380-28**
Date Collected: 08/20/20 06:15 — **Matrix: Air**
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.9		4.27	NaN	ug/m3			09/02/20 09:24	1

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

General Chemistry

Client Sample ID: PE-TSP082120-B606UPWIND
Date Collected: 08/21/20 06:04
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.0		4.13	4.13	ug/m3			09/01/20 19:50	1

Client Sample ID: PE-TSP082120-12ADOWNWIND
Date Collected: 08/21/20 06:12
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	60.8		4.25	4.25	ug/m3			09/01/20 19:50	1

Client Sample ID: PE_PM10082120-B606UPWIND
Date Collected: 08/21/20 06:04
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	20.2		4.13	NaN	ug/m3			09/02/20 09:24	1

Client Sample ID: PE_PM10082120-12ADOWNWIND
Date Collected: 08/21/20 06:12
Date Received: 08/26/20 09:50
Sample Container: Folder/Filter

Lab Sample ID: 570-36380-32
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	46.3		4.25	NaN	ug/m3			09/02/20 09:24	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-92639/1-A
Matrix: Air
Analysis Batch: 92915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92639

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15.21	J	18.0	6.22	ug/Sample		09/04/20 16:00	09/05/20 02:01	1
Lead	3.443	J	12.0	3.16	ug/Sample		09/04/20 16:00	09/05/20 02:01	1
Manganese	ND		6.00	3.34	ug/Sample		09/04/20 16:00	09/05/20 02:01	1

Lab Sample ID: LCS 570-92639/2-A
Matrix: Air
Analysis Batch: 92915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92639

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	548.5		ug/Sample		91	80 - 120
Lead	600	589.9		ug/Sample		98	80 - 120
Manganese	600	608.9		ug/Sample		101	80 - 120

Lab Sample ID: LCSD 570-92639/3-A
Matrix: Air
Analysis Batch: 92915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92639

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	562.7		ug/Sample		94	80 - 120	3	20
Lead	600	599.1		ug/Sample		100	80 - 120	2	20
Manganese	600	614.3		ug/Sample		102	80 - 120	1	20

Lab Sample ID: 570-36380-13 MS
Matrix: Air
Analysis Batch: 92915

Client Sample ID: PE-TSP081720-B606UPWIND
Prep Type: Total/NA
Prep Batch: 92639

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		600	546.6		ug/Sample		91	75 - 125
Lead	8.05	J B	600	565.3		ug/Sample		93	75 - 125
Manganese	27.2		600	596.4		ug/Sample		95	75 - 125

Lab Sample ID: 570-36380-13 MSD
Matrix: Air
Analysis Batch: 92915

Client Sample ID: PE-TSP081720-B606UPWIND
Prep Type: Total/NA
Prep Batch: 92639

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	547.1		ug/Sample		91	75 - 125	0	20
Lead	8.05	J B	600	561.3		ug/Sample		92	75 - 125	1	20
Manganese	27.2		600	586.2		ug/Sample		93	75 - 125	2	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-91813/1-A
Matrix: Air
Analysis Batch: 91905

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			08/28/20 15:03	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-36380-14 DU
Matrix: Air
Analysis Batch: 91905

Client Sample ID: PE-TSP081720-12ADOWNWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	37.1			37.07		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-91911/1
Matrix: Air
Analysis Batch: 91911

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			09/02/20 09:24	1

Lab Sample ID: 570-36380-15 DU
Matrix: Air
Analysis Batch: 91911

Client Sample ID: PE_PM10081720-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	28.3			28.33		ug/m3				0	25

Metals

Prep Batch: 92639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36380-13	PE-TSP081720-B606UPWIND	Total/NA	Air	3050B	
570-36380-14	PE-TSP081720-12ADOWNWIND	Total/NA	Air	3050B	
570-36380-17	PE-TSP081820-B606UPWIND	Total/NA	Air	3050B	
570-36380-18	PE-TSP081820-12ADOWNWIND	Total/NA	Air	3050B	
570-36380-21	PE-TSP081920-B606UPWIND	Total/NA	Air	3050B	
570-36380-22	PE-TSP081920-12ADOWNWIND	Total/NA	Air	3050B	
570-36380-25	PE-TSP082020-B606UPWIND	Total/NA	Air	3050B	
570-36380-26	PE-TSP082020-12ADOWNWIND	Total/NA	Air	3050B	
570-36380-29	PE-TSP082120-B606UPWIND	Total/NA	Air	3050B	
570-36380-30	PE-TSP082120-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-92639/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-92639/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-92639/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-36380-13 MS	PE-TSP081720-B606UPWIND	Total/NA	Air	3050B	
570-36380-13 MSD	PE-TSP081720-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 92915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36380-13	PE-TSP081720-B606UPWIND	Total/NA	Air	6010B	92639
570-36380-14	PE-TSP081720-12ADOWNWIND	Total/NA	Air	6010B	92639
570-36380-17	PE-TSP081820-B606UPWIND	Total/NA	Air	6010B	92639
570-36380-18	PE-TSP081820-12ADOWNWIND	Total/NA	Air	6010B	92639
570-36380-21	PE-TSP081920-B606UPWIND	Total/NA	Air	6010B	92639
570-36380-22	PE-TSP081920-12ADOWNWIND	Total/NA	Air	6010B	92639
570-36380-25	PE-TSP082020-B606UPWIND	Total/NA	Air	6010B	92639
570-36380-26	PE-TSP082020-12ADOWNWIND	Total/NA	Air	6010B	92639
570-36380-29	PE-TSP082120-B606UPWIND	Total/NA	Air	6010B	92639
570-36380-30	PE-TSP082120-12ADOWNWIND	Total/NA	Air	6010B	92639
MB 570-92639/1-A	Method Blank	Total/NA	Air	6010B	92639
LCS 570-92639/2-A	Lab Control Sample	Total/NA	Air	6010B	92639
LCSD 570-92639/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	92639
570-36380-13 MS	PE-TSP081720-B606UPWIND	Total/NA	Air	6010B	92639
570-36380-13 MSD	PE-TSP081720-B606UPWIND	Total/NA	Air	6010B	92639

General Chemistry

Pre Prep Batch: 91813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36380-13	PE-TSP081720-B606UPWIND	Total/NA	Air	Filter to Air	
570-36380-14	PE-TSP081720-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-36380-17	PE-TSP081820-B606UPWIND	Total/NA	Air	Filter to Air	
570-36380-18	PE-TSP081820-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-36380-21	PE-TSP081920-B606UPWIND	Total/NA	Air	Filter to Air	
570-36380-22	PE-TSP081920-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-36380-25	PE-TSP082020-B606UPWIND	Total/NA	Air	Filter to Air	
570-36380-26	PE-TSP082020-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-36380-29	PE-TSP082120-B606UPWIND	Total/NA	Air	Filter to Air	
570-36380-30	PE-TSP082120-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-91813/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-36380-14 DU	PE-TSP081720-12ADOWNWIND	Total/NA	Air	Filter to Air	

QC Association Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

General Chemistry

Analysis Batch: 91905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36380-13	PE-TSP081720-B606UPWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-14	PE-TSP081720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-17	PE-TSP081820-B606UPWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-18	PE-TSP081820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-21	PE-TSP081920-B606UPWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-22	PE-TSP081920-12ADOWNWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-25	PE-TSP082020-B606UPWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-26	PE-TSP082020-12ADOWNWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-29	PE-TSP082120-B606UPWIND	Total/NA	Air	40CFR50 App B	91813
570-36380-30	PE-TSP082120-12ADOWNWIND	Total/NA	Air	40CFR50 App B	91813
MB 570-91813/1-A	Method Blank	Total/NA	Air	40CFR50 App B	91813
570-36380-14 DU	PE-TSP081720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	91813

Analysis Batch: 91911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-36380-15	PE_PM10081720-B606UPWIND	Total/NA	Air	PM10	
570-36380-16	PE_PM10081720-12ADOWNWIND	Total/NA	Air	PM10	
570-36380-19	PE_PM10081820-B606UPWIND	Total/NA	Air	PM10	
570-36380-20	PE_PM10081820-12ADOWNWIND	Total/NA	Air	PM10	
570-36380-23	PE_PM10081920-B606UPWIND	Total/NA	Air	PM10	
570-36380-24	PE_PM10081920-12ADOWNWIND	Total/NA	Air	PM10	
570-36380-27	PE_PM10082020-B606UPWIND	Total/NA	Air	PM10	
570-36380-28	PE_PM10082020-12ADOWNWIND	Total/NA	Air	PM10	
570-36380-31	PE_PM10082120-B606UPWIND	Total/NA	Air	PM10	
570-36380-32	PE_PM10082120-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-91911/1	Method Blank	Total/NA	Air	PM10	
570-36380-15 DU	PE_PM10081720-B606UPWIND	Total/NA	Air	PM10	

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Client Sample ID: PE-TSP081720-B606UPWIND
Lab Sample ID: 570-36380-13
Date Collected: 08/17/20 07:19
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:08	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	08/28/20 15:03	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	08/28/20 15:03	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081720-12ADOWNWIND
Lab Sample ID: 570-36380-14
Date Collected: 08/17/20 07:34
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:14	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	08/28/20 15:03	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	08/28/20 15:03	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10081720-B606UPWIND
Lab Sample ID: 570-36380-15
Date Collected: 08/17/20 07:19
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3730 g	4.3825 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10081720-12ADOWNWIND
Lab Sample ID: 570-36380-16
Date Collected: 08/17/20 07:34
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.4297 g	4.4402 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081820-B606UPWIND
Lab Sample ID: 570-36380-17
Date Collected: 08/18/20 08:35
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:15	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	08/28/20 15:03	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	08/28/20 15:03	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Client Sample ID: PE-TSP081820-12ADOWNWIND
Lab Sample ID: 570-36380-18
Date Collected: 08/18/20 08:45
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:17	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	08/28/20 15:03	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	08/28/20 15:03	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10081820-B606UPWIND
Lab Sample ID: 570-36380-19
Date Collected: 08/18/20 08:35
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3540 g	4.3621 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10081820-12ADOWNWIND
Lab Sample ID: 570-36380-20
Date Collected: 08/18/20 08:45
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3302 g	4.3456 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081920-B606UPWIND
Lab Sample ID: 570-36380-21
Date Collected: 08/19/20 06:05
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:31	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	08/28/20 15:03	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	08/28/20 15:03	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP081920-12ADOWNWIND
Lab Sample ID: 570-36380-22
Date Collected: 08/19/20 06:15
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:33	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	08/28/20 15:03	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	08/28/20 15:03	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Client Sample ID: PE_PM10081920-B606UPWIND
Lab Sample ID: 570-36380-23
Date Collected: 08/19/20 06:05
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3313 g	4.3463 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10081920-12ADOWNWIND
Lab Sample ID: 570-36380-24
Date Collected: 08/19/20 06:15
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.2742 g	4.3208 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082020-B606UPWIND
Lab Sample ID: 570-36380-25
Date Collected: 08/20/20 06:05
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:35	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	08/28/20 15:03	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	08/28/20 15:03	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082020-12ADOWNWIND
Lab Sample ID: 570-36380-26
Date Collected: 08/20/20 06:15
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:37	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	09/01/20 19:50	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	09/01/20 19:50	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082020-B606UPWIND
Lab Sample ID: 570-36380-27
Date Collected: 08/20/20 06:05
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3021 g	4.3116 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Client Sample ID: PE_PM10082020-12ADOWNWIND
Lab Sample ID: 570-36380-28
Date Collected: 08/20/20 06:15
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3359 g	4.3471 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082120-B606UPWIND
Lab Sample ID: 570-36380-29
Date Collected: 08/21/20 06:04
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:39	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	09/01/20 19:50	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	09/01/20 19:50	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082120-12ADOWNWIND
Lab Sample ID: 570-36380-30
Date Collected: 08/21/20 06:12
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92639	09/04/20 16:00	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92915	09/05/20 02:41	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					91813	09/01/20 19:50	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			91905	09/01/20 19:50	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082120-B606UPWIND
Lab Sample ID: 570-36380-31
Date Collected: 08/21/20 06:04
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3081 g	4.3228 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082120-12ADOWNWIND
Lab Sample ID: 570-36380-32
Date Collected: 08/21/20 06:12
Matrix: Air
Date Received: 08/26/20 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3009 g	4.3336 g	91911	09/02/20 09:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-36380-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-36380-1	PE-ASB081720-B606UPWIND	Air	08/17/20 07:19	08/26/20 09:50	
570-36380-2	PE-ASB081720-12ADOWNWIND	Air	08/17/20 07:34	08/26/20 09:50	
570-36380-3	PE-ASB081820-B606UPWIND	Air	08/18/20 08:35	08/26/20 09:50	
570-36380-4	PE-ASB081820-12ADOWNWIND	Air	08/18/20 08:45	08/26/20 09:50	
570-36380-5	PE-ASB081920-B606UPWIND	Air	08/19/20 06:05	08/26/20 09:50	
570-36380-6	PE-ASB081920-12ADOWNWIND	Air	08/19/20 06:15	08/26/20 09:50	
570-36380-7	PE-ASB082020-B606UPWIND	Air	08/20/20 06:05	08/26/20 09:50	
570-36380-8	PE-ASB082020-12ADOWNWIND	Air	08/20/20 06:15	08/26/20 09:50	
570-36380-9	PE-ASB082120-B606UPWIND	Air	08/21/20 06:04	08/26/20 09:50	
570-36380-10	PE-ASB082120-12ADOWNWIND	Air	08/21/20 06:10	08/26/20 09:50	
570-36380-11	PE-ASB-BLANK-B606UPWIND	Air	08/21/20 06:04	08/26/20 09:50	
570-36380-12	PE-ASB-BLANK-12ADOWNWIND	Air	08/21/20 06:12	08/26/20 09:50	
570-36380-13	PE-TSP081720-B606UPWIND	Air	08/17/20 07:19	08/26/20 09:50	
570-36380-14	PE-TSP081720-12ADOWNWIND	Air	08/17/20 07:34	08/26/20 09:50	
570-36380-15	PE_PM10081720-B606UPWIND	Air	08/17/20 07:19	08/26/20 09:50	
570-36380-16	PE_PM10081720-12ADOWNWIND	Air	08/17/20 07:34	08/26/20 09:50	
570-36380-17	PE-TSP081820-B606UPWIND	Air	08/18/20 08:35	08/26/20 09:50	
570-36380-18	PE-TSP081820-12ADOWNWIND	Air	08/18/20 08:45	08/26/20 09:50	
570-36380-19	PE_PM10081820-B606UPWIND	Air	08/18/20 08:35	08/26/20 09:50	
570-36380-20	PE_PM10081820-12ADOWNWIND	Air	08/18/20 08:45	08/26/20 09:50	
570-36380-21	PE-TSP081920-B606UPWIND	Air	08/19/20 06:05	08/26/20 09:50	
570-36380-22	PE-TSP081920-12ADOWNWIND	Air	08/19/20 06:15	08/26/20 09:50	
570-36380-23	PE_PM10081920-B606UPWIND	Air	08/19/20 06:05	08/26/20 09:50	
570-36380-24	PE_PM10081920-12ADOWNWIND	Air	08/19/20 06:15	08/26/20 09:50	
570-36380-25	PE-TSP082020-B606UPWIND	Air	08/20/20 06:05	08/26/20 09:50	
570-36380-26	PE-TSP082020-12ADOWNWIND	Air	08/20/20 06:15	08/26/20 09:50	
570-36380-27	PE_PM10082020-B606UPWIND	Air	08/20/20 06:05	08/26/20 09:50	
570-36380-28	PE_PM10082020-12ADOWNWIND	Air	08/20/20 06:15	08/26/20 09:50	
570-36380-29	PE-TSP082120-B606UPWIND	Air	08/21/20 06:04	08/26/20 09:50	
570-36380-30	PE-TSP082120-12ADOWNWIND	Air	08/21/20 06:12	08/26/20 09:50	
570-36380-31	PE_PM10082120-B606UPWIND	Air	08/21/20 06:04	08/26/20 09:50	
570-36380-32	PE_PM10082120-12ADOWNWIND	Air	08/21/20 06:12	08/26/20 09:50	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332015541
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 08/26/2020 03:10 PM
Analysis Date: 09/09/2020
Collected Date: 08/17/2020 - 08/21/2020

Project: HPNS - Parcel E / 500712 / 570-36380-1

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB081720-B606UPWIND (570-36380-1) *332015541-0001*		08/17/2020	2088	13	100	0.0013	16.6	0.0031	
PE-ASB081720-12ADOWNWIND (570-36380-2) *332015541-0002*		08/17/2020	2126	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB081820-B606UPWIND (570-36380-3) *332015541-0003*		08/18/2020	1772	19	100	0.0015	24.2	0.0053	
PE-ASB081820-12ADOWNWIND (570-36380-4) *332015541-0004*		08/18/2020	1674	6.5	100	0.0016	8.28	0.0019	
PE-ASB081920-B606UPWIND (570-36380-5) *332015541-0005*		08/19/2020	1172	33	100	0.0023	42.0	0.0138	
PE-ASB081920-12ADOWNWIND (570-36380-6) *332015541-0006*		08/19/2020	1980.94	11	100	0.0014	14.0	0.0027	
PE-ASB082020-B606UPWIND (570-36380-7) *332015541-0007*		08/20/2020	2096	24	100	0.0013	30.6	0.0056	
PE-ASB082020-12ADOWNWIND (570-36380-8) *332015541-0008*		08/20/2020	1954.88	10.5	100	0.0014	13.4	0.0026	
PE-ASB082120-B606UPWIND (570-36380-9) *332015541-0009*		08/21/2020	2144	6	100	0.0013	7.64	0.0014	Sample pulled for 10% duplicate count.
PE-ASB082120-12ADOWNWIND (570-36380-10) *332015541-0010*		08/21/2020	2078	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB-BLANK-B606UPWIND (570-36380-11) *332015541-0011*		08/21/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-12ADOWNWIND (570-36380-12) *332015541-0012*		08/21/2020		<5.5	100		<7.01		Field Blank
PE-ASB082120-B606UPWIND (570-36380-9) DUP		08/21/2020	2144	7	100	0.0013	8.92	0.0016	10% Duplicate count.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 09/09/2020 03:01 PM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332015541
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 08/26/2020 03:10 PM
Analysis Date: 09/09/2020
Collected Date: 08/17/2020 - 08/21/2020

Project: HPNS - Parcel E / 500712 / 570-36380-1

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
332015541-0013									

The results reported have been blank corrected as applicable.

Analyst(s):
Tony Salgado PCM 13

Michael Chapman, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 09/09/2020 03:01 PM

Loc: 570
36380

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 021
Page 1 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

570-36380 Chain of Custody

Project Manager: *Nels Johnson*
Send Report To: *Edgar Ruiz*
Phone/Fax Number: *805.680.8279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com
Sampler's Name(s): ER

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Lab Destination: Eurofins-Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

	Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB081720-B606UPWIND	CU201504	08/17/20	7:19	G	A	1	PCM			X			2.00	2.09			
2	PE-ASB081720-12ADOWNWIND	CU201519	08/17/20	7:34	G	A	1	PCM			X			2.00	2.13			
3	PE-ASB081820-B606UPWIND	CU201459	08/18/20	8:35	G	A	1	PCM			X			2.00	1.77			
4	PE-ASB081820-12ADOWNWIND	CU201621	08/18/20	8:45	G	A	1	PCM			X			2.00	1.67			
5	PE-ASB081920-B606UPWIND	CU201437	08/19/20	6:05	G	A	1	PCM			X			2.00	1.17			
6	PE-ASB081920-12ADOWNWIND	CU201473	08/19/20	6:15	G	A	1	PCM			X			2.01	1.98			
7	PE-ASB082020-B606UPWIND	CU201531	08/20/20	6:05	G	A	1	PCM			X			2.00	2.10			
8	PE-ASB082020-12ADOWNWIND	CU201516	08/20/20	6:15	G	A	1	PCM			X			2.01	1.95			
9	PE-ASB082120-B606UPWIND	CU201491	08/21/20	6:04	G	A	1	PCM			X			2.00	2.14			
10	PE-ASB082120-12ADOWNWIND	CU201582	08/21/20	6:12	G	A	1	PCM			X			2.01	2.08			
11	PE-ASB-BLANK-B606UPWIND	CU201452	08/21/20	6:04	G	A	1	PCM			X			NA				
12	PE-ASB-BLANK-B606DOWNWIND	CU125034	08/21/20	6:12	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions:

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ **10-day**

Level Of QC Required: I | **II** | III | Project Specific:

Relinquished By Edgar Ruiz — Date: 8/25/20 — Time: 1012
Received By: APTIM DCT — Date: 8/25/20 — Time: 1012
Relinquished By: APTIM to GSO — Date: 8/25/20 — Time: 1630
Received By: [signature] — Date: 8/26/2020 — Time: 0950
Relinquished By — Date: — Time:
Received By — Date — Time

Method Codes
C = Composite
G = Grab
Matrix Codes
SO =Soil
DW = Drinking Water
SL = Sludge
GW = Ground Water
CP = Chip Samples
WW = Waste Water
A=Air
ABS=Asbestos, PO=Pipe Openning

*C.S. # 124644

Page 23 of 32

9/9/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 021

Page 2 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*

edgar.ruiz@aptim.com

Sampler's Name(s): ER

	Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
			Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH	Flow Rate (L/min.)	Sample Volume (m^3)			
13	PE-TSP081720-B606UPWIND	867	08/17/20	7:19	G	A	1	8X10 EPM Whatman					X	1132.80	335.3			
14	PE-TSP081720-12ADOWNWIND	868	08/17/20	7:34	G	A	1	8X10 EPM Whatman					X	1132.80	318.3			
15	PE_PM10081720-B606UPWIND	Q0398985	08/17/20	7:19	G	A	1	8X10 EPM Whatman				X		1132.80	335.3			
16	PE_PM10081720-12ADOWNWIND	Q0398987	08/17/20	7:34	G	A	1	8X10 EPM Whatman				X		1132.80	318.3			
17	PE-TSP081820-B606UPWIND	871	08/18/20	8:35	G	A	1	8X10 EPM Whatman					X	1132.80	555.1			
18	PE-TSP081820-12ADOWNWIND	873	08/18/20	8:45	G	A	1	8X10 EPM Whatman					X	1132.80	532.4			
19	PE_PM10081820-B606UPWIND	Q0409439	08/18/20	8:35	G	A	1	8X10 EPM Whatman				X		1132.80	555.1			
20	PE_PM10081820-12ADOWNWIND	Q0409440	08/18/20	8:45	G	A	1	8X10 EPM Whatman				X		1132.80	532.4			
21	PE-TSP081920-B606UPWIND	869	08/19/20	6:05	G	A	1	8X10 EPM Whatman					X	1132.80	725.0			
22	PE-TSP081920-12ADOWNWIND	870	08/19/20	6:15	G	A	1	8X10 EPM Whatman					X	1132.80	702.3			
23	PE_PM10081920-B606UPWIND	Q0409441	08/19/20	6:05	G	A	1	8X10 EPM Whatman				X		1132.80	725.0			
24	PE_PM10081920-12ADOWNWIND	Q0409442	08/19/20	6:15	G	A	1	8X10 EPM Whatman				X		1132.80	702.3			
25	PE-TSP082020-B606UPWIND	Q0409444	08/20/20	6:05	G	A	1	8X10 EPM Whatman					X	1132.80	725.0			
26	PE-TSP082020-12ADOWNWIND	Q0409443	08/20/20	6:15	G	A	1	8X10 EPM Whatman					X	1132.80	702.3			
27	PE_PM10082020-B606UPWIND	Q0409445	08/20/20	6:05	G	A	1	8X10 EPM Whatman				X		1132.80	725.0			
28	PE_PM10082020-12ADOWNWIND	Q0409446	08/20/20	6:15	G	A	1	8X10 EPM Whatman				X		1132.80	702.3			
29	PE-TSP082120-B606UPWIND	Q0409449	08/21/20	6:04	G	A	1	8X10 EPM Whatman					X	1132.80	726.1			
30	PE-TSP082120-12ADOWNWIND	Q0409451	08/21/20	6:12	G	A	1	8X10 EPM Whatman					X	1132.80	705.7			
31	PE_PM10082120-B606UPWIND	Q0409450	08/21/20	6:04	G	A	1	8X10 EPM Whatman				X		1132.80	726.1			
32	PE_PM10082120-12ADOWNWIND	Q0409452	08/21/20	6:12	G	A	1	8X10 EPM Whatman				X		1132.80	705.7			

Page 24 of 32

9/9/2020

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 021

SAMPLE NO. PE-ASB081720-B606UPWIND 8/17/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201504	2.000	2.000	2.000	8/17/20 07:19	8/18/20 00:43	1044	2.09	Asbestos	2.00

SAMPLE NO. PE-ASB081720-12ADOWNWIND 8/17/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201519	2.000	2.000	2.000	8/17/20 07:34	8/18/20 01:17	1063	2.13	Asbestos	2.00

SAMPLE NO. PE-ASB081820-B606UPWIND 8/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201459	2.000	2.000	2.000	8/18/20 08:35	8/18/20 23:21	886	1.77	Asbestos	2.00

SAMPLE NO. PE-ASB081820-12ADOWNWIND 8/18/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201621	2.000	2.000	2.000	8/18/20 08:45	8/18/20 22:42	837	1.67	Asbestos	2.00

SAMPLE NO. PE-ASB081920-B606UPWIND 8/19/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201437	2.000	2.000	2.000	8/19/20 06:05	8/19/20 15:51	586	1.17	Asbestos	2.00

SAMPLE NO. PE-ASB081920-12ADOWNWIND 8/19/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201473	2.005	2.005	2.005	8/19/20 06:15	8/19/20 22:43	988	1.98	Asbestos	2.01

SAMPLE NO. PE-ASB082020-B606UPWIND 8/20/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201531	2.000	2.000	2.000	8/20/20 06:05	8/20/20 23:33	1048	2.10	Asbestos	2.00

SAMPLE NO. PE-ASB082020-12ADOWNWIND 8/20/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201516	2.005	2.005	2.005	8/20/20 06:15	8/20/20 22:30	975	1.95	Asbestos	2.01

SAMPLE NO. [redacted] 8/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201491	2.000	2.000	2.000	8/21/20 06:04	8/21/20 23:56	1072	2.14	[redacted]	2.00

SAMPLE NO. [redacted] 8/21/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201582	2.000	2.000	2.0	8/21/20 06:12	8/21/20 23:31	1039	2.09	[redacted]	2.00

SAMPLE NO. [redacted] 8/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201452				8/21/20 06:04			0.0	[redacted]	

SAMPLE NO. [redacted] 8/21/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU125034				8/21/20 06:12			0.0	[redacted]	

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 021

SAMPLE NO. PE-TSP081720-B606UPWIND 8/17/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
867	40.0	40.0	40.0	8/20/20 07:19	8/20/20 12:15	296	335.3	TSP	1132.80

SAMPLE NO. PE-TSP081720-12ADOWNWIND 8/17/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
868	40.0	40.0	40.0	8/20/20 07:34	8/20/20 12:15	281	318.3	TSP	1132.80

SAMPLE NO. PE_PM10081720-B606UPWIND 8/17/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398985	40.0	40.0	40.0	8/20/20 07:19	8/20/20 12:15	296	335.3	PM-10	1132.80

SAMPLE NO. PE_PM10081720-12ADOWNWIND 8/17/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0398987	40.0	40.0	40.0	8/20/20 07:34	8/20/20 12:15	281	318.3	PM-10	1132.80

SAMPLE NO. PE-TSP081820-B606UPWIND 8/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
871	40.0	40.0	40.0	8/21/20 08:35	8/21/20 16:45	490	555.1	TSP	1132.80

SAMPLE NO. PE-TSP081820-12ADOWNWIND 8/18/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
873	40.0	40.0	40.0	8/21/20 08:45	8/21/20 16:35	470	532.4	TSP	1132.80

SAMPLE NO. PE_PM10081820-B606UPWIND 8/18/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409439	40.0	40.0	40.0	8/21/20 08:35	8/21/20 16:45	490	555.1	PM-10	1132.80

SAMPLE NO. PE_PM10081820-12ADOWNWIND 8/18/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				

Q0409440	40.0	40.0	40.0	8/21/20 08:45	8/21/20 16:35	470	532.4	PM-10	1132.80

SAMPLE NO. **PE-TSP081920-B606UPWIND** 8/19/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
869	40.0	40.0	40.0	8/19/20 06:05	8/19/20 16:45	640	725.0	TSP	1132.80

SAMPLE NO. **PE-TSP081920-12ADOWNWIND** 8/19/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
870	40.0	40.0	40.0	8/19/20 06:15	8/19/20 16:35	620	702.3	TSP	1132.80

SAMPLE NO. **PE-PM10081920-B606UPWIND** 8/19/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409441	40.0	40.0	40.0	8/19/20 06:05	8/19/20 16:45	640	725.0	PM-10	1132.80

SAMPLE NO. **PE-PM10081920-12ADOWNWIND** 8/19/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409442	40.0	40.0	40.0	8/19/20 06:15	8/19/20 16:35	620	702.3	PM-10	1132.80

SAMPLE NO. **PE-TSP082020-B606UPWIND** 8/20/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409444	40.0	40.0	40.0	8/20/20 06:05	8/20/20 16:45	640	725.0	TSP	1132.80

SAMPLE NO. **PE-TSP082020-12ADOWNWIND** 8/20/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409443	40.0	40.0	40.0	8/20/20 06:15	8/20/20 16:35	620	702.3	TSP	1132.80

SAMPLE NO. **PE-PM10082020-B606UPWIND** 8/20/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409445	40.0	40.0	40.0	8/20/20 06:05	8/20/20 16:45	640	725.0	PM-10	1132.80

SAMPLE NO. **PE-PM10082020-12ADOWNWIND** 8/20/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409446	40.0	40.0	40.0	8/20/20 06:15	8/20/20 16:35	620	702.3	PM-10	1132.80

SAMPLE NO. **PE-TSP082120-B606UPWIND** 8/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409449	40.0	40.0	40.0	8/20/20 06:04	8/20/20 16:45	641	726.1	TSP	1132.80

SAMPLE NO. **PE-TSP082120-12ADOWNWIND** 8/21/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409451	40.0	40.0	40.0	8/20/20 06:12	8/20/20 16:35	623	705.7	TSP	1132.80

SAMPLE NO. **PE_PM10082120-B606UPWIND** 8/21/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409450	40.0	40.0	40.0	8/20/20 06:04	8/20/20 16:45	641	726.1	PM-10	1132.80

SAMPLE NO. **PE_PM10082120-12ADOWNWIND** 8/21/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409452	40.0	40.0	40.0	8/20/20 06:12	8/20/20 16:35	623	705.7	PM-10	1132.80

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 021

Page 1 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Manager: Nels Johnson
Send Report To: Edgar Ruiz
Phone/Fax Number: 805.680.8279
Address: 4005 Port Chicago Hwy
City: Concord, CA 94520
edgar.ruiz@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Lab Destination: Eurofins-Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)				
								Analyses Requested										
PE-ASB081720-B606UPWIND	CU201504	08/17/20	7:19	G	A	1	PCM			X			2.00	2.09				
PE-ASB081720-12ADOWNWIND	CU201519	08/17/20	7:34	G	A	1	PCM			X			2.00	2.13				
PE-ASB081820-B606UPWIND	CU201459	08/18/20	8:35	G	A	1	PCM			X			2.00	1.77				
PE-ASB081820-12ADOWNWIND	CU201621	08/18/20	8:45	G	A	1	PCM			X			2.00	1.67				
PE-ASB081920-B606UPWIND	CU201437	08/19/20	6:05	G	A	1	PCM			X			2.00	1.17				
PE-ASB081920-12ADOWNWIND	CU201473	08/19/20	6:15	G	A	1	PCM			X			2.01	1.98				
PE-ASB082020-B606UPWIND	CU201531	08/20/20	6:05	G	A	1	PCM			X			2.00	2.10				
PE-ASB082020-12ADOWNWIND	CU201516	08/20/20	6:15	G	A	1	PCM			X			2.01	1.95				
PE-ASB082120-B606UPWIND	CU201491	08/21/20	6:04	G	A	1	PCM			X			2.00	2.14				
PE-ASB082120-12ADOWNWIND	CU201582	08/21/20	6:12	G	A	1	PCM			X			2.01	2.08				
PE-ASB-BLANK-B606UPWIND	CU201452	08/21/20	6:04	G	A	1	PCM			X			NA					
PE-ASB-BLANK-~~B606~~DOWNWIND	CU125034	08/21/20	6:12	G	A	1	PCM			X			NA					
Temperature Blank 12A ER																		x

Special Instructions: 8/28/20

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I ☐ II ☐ III ☐ Project Specific

Relinquished By	Date	Time	Received By	Date	Time
Edgar Ruiz	8/25/20	1012	FedEx	8/25/20	1012

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples
A=Air

ABS=Asbestos, PO=Pipe Opening

GLS

800-322-5555
www.gls-us.com

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
5063 COMMERCIAL CIRCLE
#H
CONCORD, CA 94520

Ship To
CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD: $0.00
Weight: 0 lb(s)
Reference:
APTIM
Delivery Instructions:

Signature Type: STANDARD

Tracking #: 550188555

NPS

GARDEN GROVE

570-36380 Waybill

S92841A

25897424

ORC CA927-CL0

Print Date: 8/25/2020 11:27 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-36380-1

Login Number: 36380
List Number: 1
Creator: Cruise, Noel

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-37381-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
Hunters Point Shipyard
200 Fisher Blvd
San Francisco, California 94124

Attn: Rose Condit

Terri Chang

Authorized for release by:
9/16/2020 5:51:11 PM

Terri Chang, Project Manager I
(714)895-5494
Terri.Chang@eurofinset.com

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Job ID: 570-37381-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-37381-1

Comments
No additional comments.

Receipt
The samples were received on 9/2/2020 10:35 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 22.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Subcontract Work
Method Asbestos - Low Flow: This method was subcontracted to EMSL - LA Testing - Huntington Beach. The subcontract laboratory certification is different from that of the facility issuing the final report.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP082420-B606UPWIND
Date Collected: 08/24/20 06:55
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-12
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12.1**	**J**	18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:00	1
Lead	ND		12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:00	1
Manganese	**32.1**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:00	1

Client Sample ID: PE-TSP082420-12ADOWNWIND
Date Collected: 08/24/20 07:02
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.42**	**J**	18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:06	1
Lead	**9.49**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:06	1
Manganese	**36.5**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:06	1

Client Sample ID: PE-TSP082520-B606UPWIND
Date Collected: 08/25/20 07:03
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-16
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:07	1
Lead	**3.58**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:07	1
Manganese	**28.0**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:07	1

Client Sample ID: PE-TSP082520-12ADOWNWIND
Date Collected: 08/25/20 07:13
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:09	1
Lead	**6.86**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:09	1
Manganese	**29.2**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:09	1

Client Sample ID: PE-TSP082620-B606UPWIND
Date Collected: 08/26/20 07:06
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-20
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:23	1
Lead	**10.5**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:23	1
Manganese	**36.7**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:23	1

Client Sample ID: PE-TSP082620-12ADOWNWIND
Date Collected: 08/26/20 07:14
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:25	1
Lead	**4.66**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:25	1
Manganese	**86.2**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:25	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP082720-B606UPWIND
Date Collected: 08/27/20 07:04
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-24
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11.3**	**J**	18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 16:05	1
Lead	**6.43**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 16:05	1
Manganese	**35.6**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 16:05	1

Client Sample ID: PE-TSP082720-12ADOWNWIND
Date Collected: 08/27/20 07:19
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:30	1
Lead	ND		12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:30	1
Manganese	**20.7**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:30	1

Client Sample ID: PE-TSP082820-B606UPWIND
Date Collected: 08/28/20 06:58
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-28
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:32	1
Lead	**8.30**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:32	1
Manganese	**23.4**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:32	1

Client Sample ID: PE-TSP082820-12ADOWNWIND
Date Collected: 08/28/20 07:11
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Lab Sample ID: 570-37381-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 15:34	1
Lead	**9.09**	**J**	12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 15:34	1
Manganese	**37.7**		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 15:34	1

General Chemistry

Client Sample ID: PE-TSP082420-B606UPWIND — **Lab Sample ID: 570-37381-12**
Date Collected: 08/24/20 06:55 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	102		5.95	5.95	ug/m3			09/03/20 13:00	1

Client Sample ID: PE-TSP082420-12ADOWNWIND — **Lab Sample ID: 570-37381-13**
Date Collected: 08/24/20 07:02 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	91.8		5.91	5.91	ug/m3			09/03/20 13:00	1

Client Sample ID: PE_PM10082420-B606UPWIND — **Lab Sample ID: 570-37381-14**
Date Collected: 08/24/20 06:55 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.3		5.95	NaN	ug/m3			09/04/20 11:00	1

Client Sample ID: PE_PM10082420-12ADOWNWIND — **Lab Sample ID: 570-37381-15**
Date Collected: 08/24/20 07:02 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	64.6		5.91	NaN	ug/m3			09/04/20 11:00	1

Client Sample ID: PE-TSP082520-B606UPWIND — **Lab Sample ID: 570-37381-16**
Date Collected: 08/25/20 07:03 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	84.6		5.79	5.79	ug/m3			09/03/20 13:00	1

Client Sample ID: PE-TSP082520-12ADOWNWIND — **Lab Sample ID: 570-37381-17**
Date Collected: 08/25/20 07:13 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	74.4		5.33	5.33	ug/m3			09/03/20 13:00	1

Client Sample ID: PE_PM10082520-B606UPWIND — **Lab Sample ID: 570-37381-18**
Date Collected: 08/25/20 07:03 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.1		5.79	NaN	ug/m3			09/04/20 11:00	1

Client Sample ID: PE_PM10082520-12ADOWNWIND — **Lab Sample ID: 570-37381-19**
Date Collected: 08/25/20 07:13 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	58.4		5.33	NaN	ug/m3			09/04/20 11:00	1

General Chemistry

Client Sample ID: PE-TSP082620-B606UPWIND — **Lab Sample ID: 570-37381-20**
Date Collected: 08/26/20 07:06 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.8		4.57	4.57	ug/m3			09/03/20 13:00	1

Client Sample ID: PE-TSP082620-12ADOWNWIND — **Lab Sample ID: 570-37381-21**
Date Collected: 08/26/20 07:14 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.7		4.72	4.72	ug/m3			09/03/20 13:00	1

Client Sample ID: PE_PM10082620-B606UPWIND — **Lab Sample ID: 570-37381-22**
Date Collected: 08/26/20 07:06 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	16.5		4.57	NaN	ug/m3			09/04/20 11:00	1

Client Sample ID: PE_PM10082620-12ADOWNWIND — **Lab Sample ID: 570-37381-23**
Date Collected: 08/26/20 07:14 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	19.5		4.72	NaN	ug/m3			09/04/20 11:00	1

Client Sample ID: PE-TSP082720-B606UPWIND — **Lab Sample ID: 570-37381-24**
Date Collected: 08/27/20 07:04 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	71.0		5.81	5.81	ug/m3			09/03/20 13:00	1

Client Sample ID: PE-TSP082720-12ADOWNWIND — **Lab Sample ID: 570-37381-25**
Date Collected: 08/27/20 07:19 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.4		6.30	6.30	ug/m3			09/03/20 13:00	1

Client Sample ID: PE_PM10082720-B606UPWIND — **Lab Sample ID: 570-37381-26**
Date Collected: 08/27/20 07:04 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.9		5.81	NaN	ug/m3			09/04/20 11:00	1

Client Sample ID: PE_PM10082720-12ADOWNWIND — **Lab Sample ID: 570-37381-27**
Date Collected: 08/27/20 07:19 — **Matrix: Air**
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.8		6.30	NaN	ug/m3			09/04/20 11:00	1

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

General Chemistry

Client Sample ID: PE-TSP082820-B606UPWIND
Lab Sample ID: 570-37381-28
Date Collected: 08/28/20 06:58
Matrix: Air
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	91.7		4.51	4.51	ug/m3			09/03/20 13:00	1

Client Sample ID: PE-TSP082820-12ADOWNWIND
Lab Sample ID: 570-37381-29
Date Collected: 08/28/20 07:11
Matrix: Air
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	108		4.82	4.82	ug/m3			09/03/20 13:00	1

Client Sample ID: PE_PM10082820-B606UPWIND
Lab Sample ID: 570-37381-30
Date Collected: 08/28/20 06:58
Matrix: Air
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	67.4		4.51	NaN	ug/m3			09/04/20 11:00	1

Client Sample ID: PE_PM10082820-12ADOWNWIND
Lab Sample ID: 570-37381-31
Date Collected: 08/28/20 07:11
Matrix: Air
Date Received: 09/02/20 10:35
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	98.1		4.82	NaN	ug/m3			09/04/20 11:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-92399/1-A
Matrix: Air
Analysis Batch: 92589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		09/03/20 20:30	09/04/20 14:50	1
Lead	ND		12.0	3.16	ug/Sample		09/03/20 20:30	09/04/20 14:50	1
Manganese	ND		6.00	3.34	ug/Sample		09/03/20 20:30	09/04/20 14:50	1

Lab Sample ID: LCS 570-92399/2-A
Matrix: Air
Analysis Batch: 92589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	605.1		ug/Sample		101	80 - 120
Lead	600	637.4		ug/Sample		106	80 - 120
Manganese	600	604.4		ug/Sample		101	80 - 120

Lab Sample ID: LCSD 570-92399/3-A
Matrix: Air
Analysis Batch: 92589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92399

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	604.9		ug/Sample		101	80 - 120	0	20
Lead	600	639.7		ug/Sample		107	80 - 120	0	20
Manganese	600	599.3		ug/Sample		100	80 - 120	1	20

Lab Sample ID: 570-37381-12 MS
Matrix: Air
Analysis Batch: 92589

Client Sample ID: PE-TSP082420-B606UPWIND
Prep Type: Total/NA
Prep Batch: 92399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	12.1	J	600	590.6		ug/Sample		96	75 - 125
Lead	ND		600	620.0		ug/Sample		103	75 - 125
Manganese	32.1		600	606.9		ug/Sample		96	75 - 125

Lab Sample ID: 570-37381-12 MSD
Matrix: Air
Analysis Batch: 92589

Client Sample ID: PE-TSP082420-B606UPWIND
Prep Type: Total/NA
Prep Batch: 92399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	12.1	J	600	577.4		ug/Sample		94	75 - 125	2	20
Lead	ND		600	608.7		ug/Sample		101	75 - 125	2	20
Manganese	32.1		600	597.8		ug/Sample		94	75 - 125	2	20

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air

Lab Sample ID: MB 570-92336/1-A
Matrix: Air
Analysis Batch: 92511

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23	1.23	ug/m3			09/03/20 13:00	1

Method: 40CFR50 App B - Suspended Particulate Matter in Ambient Air (Continued)

Lab Sample ID: 570-37381-12 DU
Matrix: Air
Analysis Batch: 92511

Client Sample ID: PE-TSP082420-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	102			101.8		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-92565/1
Matrix: Air
Analysis Batch: 92565

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			09/04/20 11:00	1

Lab Sample ID: 570-37381-14 DU
Matrix: Air
Analysis Batch: 92565

Client Sample ID: PE_PM10082420-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	37.3			37.49		ug/m3				0.5	25

Metals

Prep Batch: 92399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-37381-12	PE-TSP082420-B606UPWIND	Total/NA	Air	3050B	
570-37381-13	PE-TSP082420-12ADOWNWIND	Total/NA	Air	3050B	
570-37381-16	PE-TSP082520-B606UPWIND	Total/NA	Air	3050B	
570-37381-17	PE-TSP082520-12ADOWNWIND	Total/NA	Air	3050B	
570-37381-20	PE-TSP082620-B606UPWIND	Total/NA	Air	3050B	
570-37381-21	PE-TSP082620-12ADOWNWIND	Total/NA	Air	3050B	
570-37381-24	PE-TSP082720-B606UPWIND	Total/NA	Air	3050B	
570-37381-25	PE-TSP082720-12ADOWNWIND	Total/NA	Air	3050B	
570-37381-28	PE-TSP082820-B606UPWIND	Total/NA	Air	3050B	
570-37381-29	PE-TSP082820-12ADOWNWIND	Total/NA	Air	3050B	
MB 570-92399/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-92399/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-92399/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-37381-12 MS	PE-TSP082420-B606UPWIND	Total/NA	Air	3050B	
570-37381-12 MSD	PE-TSP082420-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 92589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-37381-12	PE-TSP082420-B606UPWIND	Total/NA	Air	6010B	92399
570-37381-13	PE-TSP082420-12ADOWNWIND	Total/NA	Air	6010B	92399
570-37381-16	PE-TSP082520-B606UPWIND	Total/NA	Air	6010B	92399
570-37381-17	PE-TSP082520-12ADOWNWIND	Total/NA	Air	6010B	92399
570-37381-20	PE-TSP082620-B606UPWIND	Total/NA	Air	6010B	92399
570-37381-21	PE-TSP082620-12ADOWNWIND	Total/NA	Air	6010B	92399
570-37381-24	PE-TSP082720-B606UPWIND	Total/NA	Air	6010B	92399
570-37381-25	PE-TSP082720-12ADOWNWIND	Total/NA	Air	6010B	92399
570-37381-28	PE-TSP082820-B606UPWIND	Total/NA	Air	6010B	92399
570-37381-29	PE-TSP082820-12ADOWNWIND	Total/NA	Air	6010B	92399
MB 570-92399/1-A	Method Blank	Total/NA	Air	6010B	92399
LCS 570-92399/2-A	Lab Control Sample	Total/NA	Air	6010B	92399
LCSD 570-92399/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	92399
570-37381-12 MS	PE-TSP082420-B606UPWIND	Total/NA	Air	6010B	92399
570-37381-12 MSD	PE-TSP082420-B606UPWIND	Total/NA	Air	6010B	92399

General Chemistry

Pre Prep Batch: 92336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-37381-12	PE-TSP082420-B606UPWIND	Total/NA	Air	Filter to Air	
570-37381-13	PE-TSP082420-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-37381-16	PE-TSP082520-B606UPWIND	Total/NA	Air	Filter to Air	
570-37381-17	PE-TSP082520-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-37381-20	PE-TSP082620-B606UPWIND	Total/NA	Air	Filter to Air	
570-37381-21	PE-TSP082620-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-37381-24	PE-TSP082720-B606UPWIND	Total/NA	Air	Filter to Air	
570-37381-25	PE-TSP082720-12ADOWNWIND	Total/NA	Air	Filter to Air	
570-37381-28	PE-TSP082820-B606UPWIND	Total/NA	Air	Filter to Air	
570-37381-29	PE-TSP082820-12ADOWNWIND	Total/NA	Air	Filter to Air	
MB 570-92336/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-37381-12 DU	PE-TSP082420-B606UPWIND	Total/NA	Air	Filter to Air	

General Chemistry

Analysis Batch: 92511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-37381-12	PE-TSP082420-B606UPWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-13	PE-TSP082420-12ADOWNWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-16	PE-TSP082520-B606UPWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-17	PE-TSP082520-12ADOWNWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-20	PE-TSP082620-B606UPWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-21	PE-TSP082620-12ADOWNWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-24	PE-TSP082720-B606UPWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-25	PE-TSP082720-12ADOWNWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-28	PE-TSP082820-B606UPWIND	Total/NA	Air	40CFR50 App B	92336
570-37381-29	PE-TSP082820-12ADOWNWIND	Total/NA	Air	40CFR50 App B	92336
MB 570-92336/1-A	Method Blank	Total/NA	Air	40CFR50 App B	92336
570-37381-12 DU	PE-TSP082420-B606UPWIND	Total/NA	Air	40CFR50 App B	92336

Analysis Batch: 92565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-37381-14	PE_PM10082420-B606UPWIND	Total/NA	Air	PM10	
570-37381-15	PE_PM10082420-12ADOWNWIND	Total/NA	Air	PM10	
570-37381-18	PE_PM10082520-B606UPWIND	Total/NA	Air	PM10	
570-37381-19	PE_PM10082520-12ADOWNWIND	Total/NA	Air	PM10	
570-37381-22	PE_PM10082620-B606UPWIND	Total/NA	Air	PM10	
570-37381-23	PE_PM10082620-12ADOWNWIND	Total/NA	Air	PM10	
570-37381-26	PE_PM10082720-B606UPWIND	Total/NA	Air	PM10	
570-37381-27	PE_PM10082720-12ADOWNWIND	Total/NA	Air	PM10	
570-37381-30	PE_PM10082820-B606UPWIND	Total/NA	Air	PM10	
570-37381-31	PE_PM10082820-12ADOWNWIND	Total/NA	Air	PM10	
MB 570-92565/1	Method Blank	Total/NA	Air	PM10	
570-37381-14 DU	PE_PM10082420-B606UPWIND	Total/NA	Air	PM10	

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Client Sample ID: PE-TSP082420-B606UPWIND
Lab Sample ID: 570-37381-12
Date Collected: 08/24/20 06:55
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:00	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082420-12ADOWNWIND
Lab Sample ID: 570-37381-13
Date Collected: 08/24/20 07:02
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:06	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082420-B606UPWIND
Lab Sample ID: 570-37381-14
Date Collected: 08/24/20 06:55
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3344 g	4.3532 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082420-12ADOWNWIND
Lab Sample ID: 570-37381-15
Date Collected: 08/24/20 07:02
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3173 g	4.3501 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082520-B606UPWIND
Lab Sample ID: 570-37381-16
Date Collected: 08/25/20 07:03
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:07	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Client Sample ID: PE-TSP082520-12ADOWNWIND
Lab Sample ID: 570-37381-17
Date Collected: 08/25/20 07:13
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:09	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082520-B606UPWIND
Lab Sample ID: 570-37381-18
Date Collected: 08/25/20 07:03
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3634 g	4.3800 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082520-12ADOWNWIND
Lab Sample ID: 570-37381-19
Date Collected: 08/25/20 07:13
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3443 g	4.3772 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082620-B606UPWIND
Lab Sample ID: 570-37381-20
Date Collected: 08/26/20 07:06
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:23	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082620-12ADOWNWIND
Lab Sample ID: 570-37381-21
Date Collected: 08/26/20 07:14
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:25	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Client Sample ID: PE_PM10082620-B606UPWIND
Lab Sample ID: 570-37381-22
Date Collected: 08/26/20 07:06
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3299 g	4.3407 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082620-12ADOWNWIND
Lab Sample ID: 570-37381-23
Date Collected: 08/26/20 07:14
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3268 g	4.3392 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082720-B606UPWIND
Lab Sample ID: 570-37381-24
Date Collected: 08/27/20 07:04
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 16:05	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082720-12ADOWNWIND
Lab Sample ID: 570-37381-25
Date Collected: 08/27/20 07:19
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082720-B606UPWIND
Lab Sample ID: 570-37381-26
Date Collected: 08/27/20 07:04
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3176 g	4.3320 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Client Sample ID: PE_PM10082720-12ADOWNWIND
Lab Sample ID: 570-37381-27
Date Collected: 08/27/20 07:19
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3178 g	4.3296 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082820-B606UPWIND
Lab Sample ID: 570-37381-28
Date Collected: 08/28/20 06:58
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:32	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP082820-12ADOWNWIND
Lab Sample ID: 570-37381-29
Date Collected: 08/28/20 07:11
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.0833 Filter	100 mL	92399	09/03/20 20:30	SP7J	ECL 1
Total/NA	Analysis	6010B		1			92589	09/04/20 15:34	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					92336	09/03/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			92511	09/03/20 13:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082820-B606UPWIND
Lab Sample ID: 570-37381-30
Date Collected: 08/28/20 06:58
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3389 g	4.3837 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10082820-12ADOWNWIND
Lab Sample ID: 570-37381-31
Date Collected: 08/28/20 07:11
Matrix: Air
Date Received: 09/02/20 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	PM10		1	4.3423 g	4.4034 g	92565	09/04/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Accreditation/Certification Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1
Filter to Air	Filter to Air volume ratio	None	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994 and it's Supplements

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

EMSL = EMSL - LA Testing - Huntington Beach, 5431 Industrial Drive, Huntington Beach, CA 92649

Sample Summary

Client: Aptim Federal Services LLC
Project/Site: HPNS - Parcel E / 500712

Job ID: 570-37381-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-37381-1	PE-ASB082420-B606UPWIND	Air	08/24/20 06:55	09/02/20 10:35	
570-37381-2	PE-ASB082420-12ADOWNWIND	Air	08/24/20 07:02	09/02/20 10:35	
570-37381-3	PE-ASB082520-B606UPWIND	Air	08/25/20 07:03	09/02/20 10:35	
570-37381-4	PE-ASB082520-12ADOWNWIND	Air	08/25/20 07:13	09/02/20 10:35	
570-37381-5	PE-ASB082620-B606UPWIND	Air	08/26/20 07:06	09/02/20 10:35	
570-37381-6	PE-ASB082620-12ADOWNWIND	Air	08/26/20 07:14	09/02/20 10:35	
570-37381-7	PE-ASB082720-B606UPWIND	Air	08/27/20 07:04	09/02/20 10:35	
570-37381-8	PE-ASB082720-12ADOWNWIND	Air	08/27/20 07:19	09/02/20 10:35	
570-37381-9	PE-ASB082820-B606UPWIND	Air	08/28/20 06:58	09/02/20 10:35	
570-37381-10	PE-ASB082820-12ADOWNWIND	Air	08/28/20 07:11	09/02/20 10:35	
570-37381-11	PE-ASB082820-BLANK	Air	08/28/20 06:58	09/02/20 10:35	
570-37381-12	PE-TSP082420-B606UPWIND	Air	08/24/20 06:55	09/02/20 10:35	
570-37381-13	PE-TSP082420-12ADOWNWIND	Air	08/24/20 07:02	09/02/20 10:35	
570-37381-14	PE_PM10082420-B606UPWIND	Air	08/24/20 06:55	09/02/20 10:35	
570-37381-15	PE_PM10082420-12ADOWNWIND	Air	08/24/20 07:02	09/02/20 10:35	
570-37381-16	PE-TSP082520-B606UPWIND	Air	08/25/20 07:03	09/02/20 10:35	
570-37381-17	PE-TSP082520-12ADOWNWIND	Air	08/25/20 07:13	09/02/20 10:35	
570-37381-18	PE_PM10082520-B606UPWIND	Air	08/25/20 07:03	09/02/20 10:35	
570-37381-19	PE_PM10082520-12ADOWNWIND	Air	08/25/20 07:13	09/02/20 10:35	
570-37381-20	PE-TSP082620-B606UPWIND	Air	08/26/20 07:06	09/02/20 10:35	
570-37381-21	PE-TSP082620-12ADOWNWIND	Air	08/26/20 07:14	09/02/20 10:35	
570-37381-22	PE_PM10082620-B606UPWIND	Air	08/26/20 07:06	09/02/20 10:35	
570-37381-23	PE_PM10082620-12ADOWNWIND	Air	08/26/20 07:14	09/02/20 10:35	
570-37381-24	PE-TSP082720-B606UPWIND	Air	08/27/20 07:04	09/02/20 10:35	
570-37381-25	PE-TSP082720-12ADOWNWIND	Air	08/27/20 07:19	09/02/20 10:35	
570-37381-26	PE_PM10082720-B606UPWIND	Air	08/27/20 07:04	09/02/20 10:35	
570-37381-27	PE_PM10082720-12ADOWNWIND	Air	08/27/20 07:19	09/02/20 10:35	
570-37381-28	PE-TSP082820-B606UPWIND	Air	08/28/20 06:58	09/02/20 10:35	
570-37381-29	PE-TSP082820-12ADOWNWIND	Air	08/28/20 07:11	09/02/20 10:35	
570-37381-30	PE_PM10082820-B606UPWIND	Air	08/28/20 06:58	09/02/20 10:35	
570-37381-31	PE_PM10082820-12ADOWNWIND	Air	08/28/20 07:11	09/02/20 10:35	

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332016391
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 09/02/2020 05:00 PM
Analysis Date: 09/15/2020
Collected Date: 08/24/2020 - 08/28/2020

Project: HPNS - Parcel E / 500712 / 570-37381

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes
PE-ASB082420-B606UPW IND (570-37381-1) *332016391-0001*		08/24/2020	1906	13	100	0.0014	16.6	0.0034	
PE-ASB082420-12ADOW NWIND (570-37381-2) *332016391-0002*		08/24/2020	1806	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB082520-B606UPW IND (570-37381-3) *332016391-0003*		08/25/2020	2112	12.5	100	0.0013	15.9	0.0029	
PE-ASB082520-12ADOW NWIND (570-37381-4) *332016391-0004*		08/25/2020	1896	<5.5	100	0.0014	<7.01	<0.0014	Sample pulled for 10% duplicate count.
PE-ASB082620-B606UPW IND (570-37381-5) *332016391-0005*		08/26/2020	1482	<5.5	100	0.0018	<7.01	<0.0018	
PE-ASB082620-12ADOW NWIND (570-37381-6) *332016391-0006*		08/26/2020	1610	<5.5	100	0.0017	<7.01	<0.0017	
PE-ASB082720-B606UPW IND (570-37381-7) *332016391-0007*		08/27/2020	1932	6.5	100	0.0014	8.28	0.0017	
PE-ASB082720-12ADOW NWIND (570-37381-8) *332016391-0008*		08/27/2020	1776	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB082820-B606UPW IND (570-37381-9) *332016391-0009*		08/28/2020	1174	14	100	0.0023	17.8	0.0059	
PE-ASB082820-12ADOW NWIND (570-37381-10) *332016391-0010*		08/28/2020	1134	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB082820-BLANK (570-37381-11) *332016391-0011*		08/28/2020		<5.5	100		<7.01		Field Blank
PE-ASB082520-12ADOW NWIND (570-37381-4) *332016391-0012*		08/24/2020	1896	<5.5	100	0.0014	<7.01	<0.0014	10% duplicate count.

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 09/15/2020 10:35 AM

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order: 332016391
Customer ID: 32CALS51
Customer PO:
Project ID:

Attention: Terri Chang
Eurofins Calscience, Inc.
7440 Lincoln Way
Garden Grove, CA 92841

Phone: (714) 895-5494
Fax: (714) 894-7501
Received Date: 09/02/2020 05:00 PM
Analysis Date: 09/15/2020
Collected Date: 08/24/2020 - 08/28/2020

Project: HPNS - Parcel E / 500712 / 570-37381

Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method - A Rules, Revision 3, Issue 3, 6/15/2019

Sample	Location	Sample Date	Volume (L)	Fibers	Fields	LOD (fib/cc)	Fibers/mm²	Fibers/cc	Notes

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 12

Michael Chapman, Laboratory Manager
or other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Limit of detection is 7 fibers/mm². Fiber counts outside the recommended fiber density range of the method (100-1300 f/mm2) have greater than optimal variability and are probably biased. Field blank results, when available, are used to blank correct results. NIOSH 7400 requires field blanks be submitted at a rate of 10%, with a minimum of 2 per set. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
Intra-laboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.24, 51-100 fibers = 0.19. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.34.
Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Initial report from: 09/15/2020 10:35 AM

APTIM

570-37381 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 022

Page 1 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Manager: *Nels Johnson*
Send Report To: *Edgar Ruiz*
Phone/Fax Number: *805.680.8279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Lab Destination: Eurofins-Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

	Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
1	PE-ASB082420-B606UPWIND	CU201410	08/24/20	6:55	G	A	1	PCM			X			2.00	1.91			
2	PE-ASB082420-12A DOWNWIND	CU201419	08/24/20	7:02	G	A	1	PCM			X			2.00	1.81			
3	PE-ASB0825420-B606UPWIND	CU201443	08/25/20	7:03	G	A	1	PCM			X			2.00	2.11			
4	PE-ASB082520-12A DOWNWIND	CU201465	08/25/20	7:13	G	A	1	PCM			X			2.00	1.90			
5	PE-ASB082620-B606UPWIND	CU201422	08/26/20	7:06	G	A	1	PCM			X			2.00	1.48			
6	PE-ASB082620-12A DOWNWIND	CU201449	08/26/20	7:14	G	A	1	PCM			X			2.00	1.61			
7	PE-ASB082720-B606UPWIND	CU201431	08/27/20	7:04	G	A	1	PCM			X			2.00	1.93			
8	PE-ASB082720-12A DOWNWIND	CU201447	08/27/20	7:19	G	A	1	PCM			X			2.00	1.78			
9	PE-ASB082820-B606UPWIND	CU201441	08/28/20	6:58	G	A	1	PCM			X			2.00	1.17			
10	PE-ASB082820-12A DOWNWIND	CU201528	08/28/20	7:11	G	A	1	PCM			X			2.00	1.13			
11	PE-ASB082820-BLANK	CU201430	08/28/20	6:58	G	A	1	PCM			X			NA				
	Temperature Blank																	x

Special Instructions: IS 9/2/20

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I | II | III | Project Specific:

Relinquished By: Edgar Ruiz	Date: 9/1/20 Time: 1115	Received By: EET	Date: 9/1/20 Time: 1115
Relinquished By: to GSO	Date: 9/1/20 Time: 1680	Received By:	Date: 9/2/2020 Time: 1035
Relinquished By:	Date: Time:	Received By:	Date: Time:

Method Codes
C = Composite
G = Grab
Matrix Codes
SO =Soil
DW = Drinking Water
SL = Sludge
GW = Ground Water
CP = Chip Samples
WW = Waste Water
A=Air

ABS=Asbestos, PO=Pipe Openning

*C-5 - #119624

37781

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 022

Page 2 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*

edgar.ruiz@aptim.com

Sampler's Name(s): ER

Sample ID Number	Lot No.	Collection Information			Matrix	# of containers	Container Type	Analyses Requested									
		Date	Time	Method				PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	TSP, Mn, Pb, As (40 CFR 50 App B; NIOSH	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP082420-B606UPWIND 12	Q0397464	08/24/20	6:55	G	A	1	8X10 EPM Whatman					X	1132.8	504.1			
PE-TSP082420-12ADOWNWIND 13	Q0397466	08/24/20	7:02	G	A	1	8X10 EPM Whatman					X	1132.8	507.5			
PE_PM10082420-B606UPWIND 14	Q0397465	08/24/20	6:55	G	A	1	8X10 EPM Whatman				X		1132.8	504.1			
PE_PM10082420-12ADOWNWIND 15	Q0397467	08/24/20	7:02	G	A	1	8X10 EPM Whatman				X		1132.8	507.5			
PE-TSP082520-B606UPWIND 16	Q0409457	08/25/20	7:03	G	A	1	8X10 EPM Whatman					X	1132.8	517.7			
PE-TSP082520-12ADOWNWIND 17	Q0409459	08/25/20	7:13	G	A	1	8X10 EPM Whatman					X	1132.8	563.0			
PE_PM10082520-B606UPWIND 18	Q0409458	08/25/20	7:03	G	A	1	8X10 EPM Whatman				X		1132.8	517.7			
PE_PM10082520-12ADOWNWIND 19	Q0409460	08/25/20	7:13	G	A	1	8X10 EPM Whatman				X		1132.8	563.0			
PE-TSP082620-B606UPWIND 20	Q0409465	08/26/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.8	655.9			
PE-TSP082620-12ADOWNWIND 21	Q0409467	08/26/20	7:14	G	A	1	8X10 EPM Whatman					X	1132.8	635.5			
PE_PM10082620-B606UPWIND 22	Q0409466	08/26/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.8	655.9			
PE_PM10082620-12ADOWNWIND 23	Q0409468	08/26/20	7:14	G	A	1	8X10 EPM Whatman				X		1132.8	635.5			
PE-TSP082720-B606UPWIND 24	Q0397460	08/27/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.8	516.6			
PE-TSP082720-12ADOWNWIND 25	Q0397462	08/27/20	7:19	G	A	1	8X10 EPM Whatman					X	1104.5	476.0			
PE_PM10082720-B606UPWIND 26	Q0397461	08/27/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.8	516.6			
PE_PM10082720-12ADOWNWIND 27	Q0397463	08/27/20	7:19	G	A	1	8X10 EPM Whatman				X		1104.5	476.0			
PE-TSP082820-B606UPWIND 28	Q0397456	08/28/20	6:58	G	A	1	8X10 EPM Whatman					X	1132.8	665.0			
PE-TSP082820-12ADOWNWIND 29	Q0397458	08/28/20	7:11	G	A	1	8X10 EPM Whatman					X	1104.5	622.9			
PE_PM10082820-B606UPWIND 30	Q0397457	08/28/20	6:58	G	A	1	8X10 EPM Whatman				X		1132.8	665.0			
PE_PM10082820-12ADOWNWIND 31	Q0397459	08/28/20	7:11	G	A	1	8X10 EPM Whatman				X		1104.5	622.9			

AIR MONITORING LOG

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 022

SAMPLE NO. PE-ASB082420-B606UPWIND 8/24/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201410	2.000	2.000	2.000	8/24/20 06:55	8/24/20 22:48	953	1.91	Asbestos	2.00

SAMPLE NO. PE-ASB082420-12A DOWNWIND 8/24/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201419	2.000	2.000	2.000	8/24/20 07:02	8/24/20 22:05	903	1.81	Asbestos	2.00

SAMPLE NO. PE-ASB0825420-B606UPWIND 8/25/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201443	2.000	2.000	2.000	8/25/20 07:03	8/26/20 00:39	1056	2.11	Asbestos	2.00

SAMPLE NO. PE-ASB082520-12A DOWNWIND 8/25/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201465	2.000	2.000	2.000	8/25/20 07:13	8/25/20 23:01	948	1.90	Asbestos	2.00

SAMPLE NO. PE-ASB082620-B606UPWIND 8/26/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201422	2.000	2.000	2.000	8/26/20 07:06	8/26/20 19:27	741	1.48	Asbestos	2.00

SAMPLE NO. PE-ASB082620-12A DOWNWIND 8/26/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201449	2.000	2.000	2.000	8/26/20 07:14	8/26/20 20:39	805	1.61	Asbestos	2.00

SAMPLE NO. PE-ASB082720-B606UPWIND 8/27/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201431	2.000	2.000	2.000	8/27/20 07:04	8/27/20 23:10	966	1.93	Asbestos	2.00

SAMPLE NO. PE-ASB082720-12A DOWNWIND 8/27/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201447	2.000	2.000	2.000	8/27/20 07:19	8/27/20 22:07	888	1.78	Asbestos	2.00

SAMPLE NO. PE-ASB082820-B606UPWIND 8/28/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201441	2.000	2.000	2.000	8/28/20 06:58	8/28/20 16:45	587	1.17	Asbestos	2.00

SAMPLE NO. PE-ASB082820-12A DOWNWIND 8/28/2020 *12A Downwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201528	2.000	2.000	2.0	8/28/20 07:11	8/28/20 16:38	567	1.13	Asbestos	2.00

SAMPLE NO. PE-ASB-BLANK 8/28/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (L/min)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
CU201430				8/28/20 06:58			0.0	Asbestos	

PROJECT NAME: HPNS Parcel E PROJ. NO. 500712 Asbestos TSP PM-10

STATION COC# 022

SAMPLE NO. PE-TSP082420-B606UPWIND 8/24/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397464	40.0	40.0	40.0	8/24/20 06:55	8/24/20 14:20	445	504.1	TSP	1132.80

SAMPLE NO. PE-TSP082420-12ADOWNWIND 8/24/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397466	40.0	40.0	40.0	8/24/20 07:02	8/24/20 14:30	448	507.5	TSP	1132.80

SAMPLE NO. PE_PM10082420-B606UPWIND 8/24/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397465	40.0	40.0	40.0	8/24/20 06:55	8/24/20 14:20	445	504.1	PM-10	1132.80

SAMPLE NO. PE_PM10082420-12ADOWNWIND 8/24/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397467	40.0	40.0	40.0	8/24/20 07:02	8/24/20 14:30	448	507.5	PM-10	1132.80

SAMPLE NO. PE-TSP082520-B606UPWIND 8/25/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409457	40.0	40.0	40.0	8/25/20 07:03	8/25/20 14:40	457	517.7	TSP	1132.80

SAMPLE NO. PE-TSP082520-12ADOWNWIND 8/25/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409459	40.0	40.0	40.0	8/25/20 07:13	8/25/20 15:30	497	563.0	TSP	1132.80

SAMPLE NO. PE_PM10082520-B606UPWIND 8/25/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409458	40.0	40.0	40.0	8/25/20 07:03	8/25/20 14:40	457	517.7	PM-10	1132.80

SAMPLE NO. PE_PM10082520-12ADOWNWIND 8/25/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				

Q0409460	40.0	40.0	40.0	8/25/20 07:13	8/25/20 15:30	497	563.0	PM-10	1132.80

SAMPLE NO. **PE-TSP082620-B606UPWIND** 8/26/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409465	40.0	40.0	40.0	8/26/20 07:06	8/26/20 16:45	579	655.9	TSP	1132.80

SAMPLE NO. **PE-TSP082620-12ADOWNWIND** 8/26/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409467	40.0	40.0	40.0	8/26/20 07:14	8/26/20 16:35	561	635.5	TSP	1132.80

SAMPLE NO. **PE_PM10082620-B606UPWIND** 8/26/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409466	40.0	40.0	40.0	8/26/20 07:06	8/26/20 16:45	579	655.9	PM-10	1132.80

SAMPLE NO. **PE_PM10082620-12ADOWNWIND** 8/26/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0409468	40.0	40.0	40.0	8/26/20 07:14	8/26/20 16:35	561	635.5	PM-10	1132.80

SAMPLE NO. **PE-TSP082720-B606UPWIND** 8/27/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397460	40.0	40.0	40.0	8/27/20 07:04	8/27/20 14:40	456	516.6	TSP	1132.80

SAMPLE NO. **PE-TSP082720-12ADOWNWIND** 8/27/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397462	39.0	39.0	39.0	8/27/20 07:19	8/27/20 14:30	431	476.0	TSP	1104.48

SAMPLE NO. **PE_PM10082720-B606UPWIND** 8/27/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397461	40.0	40.0	40.0	8/27/20 07:04	8/27/20 14:40	456	516.6	PM-10	1132.80

SAMPLE NO. **PE_PM10082720-12ADOWNWIND** 8/27/2020 *12A Downwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397463	39.0	39.0	39.0	8/27/20 07:19	8/27/20 14:30	431	476.0	PM-10	1104.48

SAMPLE NO.	PE-TSP082820-B606UPWIND				8/28/2020 *Building 606 Upwind*				
LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397456	40.0	40.0	40.0	8/28/20 06:58	8/28/20 16:45	587	665.0	TSP	1132.80

SAMPLE NO.	PE-TSP082820-12ADOWNWIND				8/28/2020 *12A Downwind*				
LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397458	39.0	39.0	39.0	8/28/20 07:11	8/28/20 16:35	564	622.9	TSP	1104.48

SAMPLE NO.	PE_PM10082820-B606UPWIND				8/28/2020 *Building 606 Upwind*				
LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397457	40.0	40.0	40.0	8/28/20 06:58	8/28/20 16:45	587	665.0	PM-10	1132.80

SAMPLE NO.	PE_PM10082820-12ADOWNWIND				8/28/2020 *12A Downwind*				
LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
	START	STOP	AVERAGE	START	STOP				
Q0397459	39.0	39.0	39.0	8/28/20 07:11	8/28/20 16:35	564	622.9	PM-10	1104.48

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 022

Page 1 of 2

APTIM Federal Services, LLC
4005 Port Chicago Hwy
Concord, CA 94520

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Lab Destination: Eurofins-Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Project Manager: *Nels Johnson*
Send Report To: *Edgar Ruiz*
Phone/Fax Number: *805.680.8279*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): ER

ER 9/4/20

ASB082520

Sample ID Number	Filter No.	Collection Information: Date	Time	Method	Matrix	# of containers	Container Type	Analyses Requested: PCB (EPA 8082 / TO-04)	PAH (EPA 8270-SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Subpt J; BAAQMD Reg 6)	ISP, Mn, Pb, As (40 CFR 50 App B; NIOSH 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB082420-B606UPWIND	CU201410	08/24/20	6:55	G	A	1	PCM			X			2.00	1.91			
PE-ASB082420-12A DOWNWIND	CU201419	08/24/20	7:02	G	A	1	PCM			X			2.00	1.81			
PE-~~ASB0825420-~~B606UPWIND	CU201443	08/25/20	7:03	G	A	1	PCM			X			2.00	2.11			
PE-ASB082520-12A DOWNWIND	CU201465	08/25/20	7:13	G	A	1	PCM			X			2.00	1.90			
PE-ASB082620-B606UPWIND	CU201422	08/26/20	7:06	G	A	1	PCM			X			2.00	1.48			
PE-ASB082620-12A DOWNWIND	CU201449	08/26/20	7:14	G	A	1	PCM			X			2.00	1.61			
PE-ASB082720-B606UPWIND	CU201431	08/27/20	7:04	G	A	1	PCM			X			2.00	1.93			
PE-ASB082720-12A DOWNWIND	CU201447	08/27/20	7:19	G	A	1	PCM			X			2.00	1.78			
PE-ASB082820-B606UPWIND	CU201441	08/28/20	6:58	G	A	1	PCM			X			2.00	1.17			
PE-ASB082820-12A DOWNWIND	CU201528	08/28/20	7:11	G	A	1	PCM			X			2.00	1.13			
PE-ASB082820-BLANK	CU201430	08/28/20	6:58	G	A	1	PCM			X			NA				
Temperature Blank																	x

Special Instructions:

Turn Around Time: ☐ 24-hr ☐ 5-day ☑ 10-day

Level Of QC Required: I ☐ II ☑ III ☐ Project Specific

Relinquished By: Edgar Ruiz	Date: 9/1/20	Received By: [illegible] EET	Date: 9/4/20
	Time: 1115		Time: 1115
Relinquished By	Date	Received By	Date
	Time		Time
Relinquished By	Date	Received By	Date
	Time		Time

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples
A=Air

ABS= Asbestos, PO=Pipe Openings

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-37381-1

Login Number: 37381
List Number: 1
Creator: Liao, Gineyau

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This page intentionally left blank