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

Interim

Air Sampling Summary Report No. 07

Data Date Range: November 20, 2019 through
July 31, 2020, Parcel E Remedial Action—Phase 1

Hunters Point Naval Shipyard, CA

August 2020

Approved for public release: distribution unlimited.

DCN: APTM-2005-0024-0082

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Prepared for:

Department of the Navy
Naval Facilities Engineering Command Southwest
BRAC PMO West
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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*

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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 July 31, 2020, and compares the results with the established action levels included in the Work Plan (APTIM, 2019).

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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

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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.

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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

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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

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.

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>.

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FIGURE

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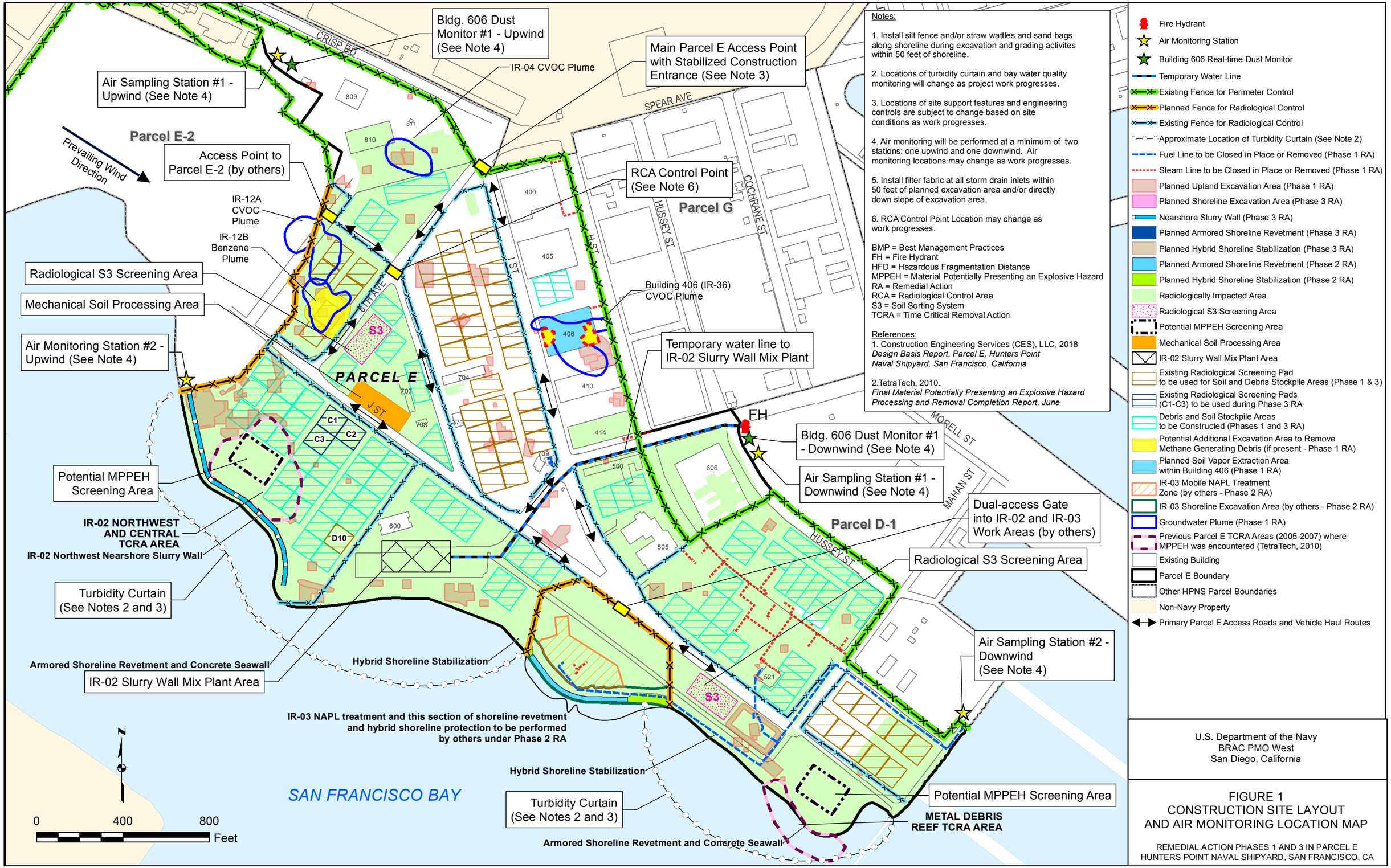
FIGURES



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

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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

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ATTACHMENT 1
AIR SAMPLING RESULTS

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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

Notes:
Ambient pressure and ambient temperature data were gathered from the Wunderground weather website (www.wunderground.com).
Data were collected from station KCASANFR588 at 1200.

°C - degrees Celsius
in Hg - inches of mercury

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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

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.
Note 4 - Due to laboratory error, no TSP results for the dates of 7/20/20-7/24/20.

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
ng/m^3 - nanogram per cubic meter
TSP - total suspended particulates

Attachment 1, Table 3: PM10 Air Sampling Results

Date	Sample Location	PM10 Monitoring Results	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	PM10 Monitoring Results	PM10 ($\mu g/m^3$)	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	PM10 Monitoring Results	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	PM10 Monitoring Results	PM10 (µg/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	PM10 Monitoring Results	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	PM10 Monitoring Results	PM10 (µg/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	PM10 Monitoring Results	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	PM10 Monitoring Results	PM10 ($\mu g/m^3$)	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	PM10 Monitoring Results	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	PM10 Monitoring Results	PM10 (µg/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

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 µg/m^3

The detection limit for PM10 is 0.06 µg/m^3 assuming a minimum sample volume of 1,600 m^3.

µg/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

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

ATTACHMENT 2
ANALYTICAL LABORATORY REPORTS

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eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 570-33876-1
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:
8/4/2020 10:43:24 PM

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

Table of Contents

Definitions/Glossary

Client: Aptim Federal Services LLC
Job ID: 570-33876-1
Project/Site: HPNS - Parcel E / 500712

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

Job ID: 570-33876-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-33876-1

Comments
No additional comments.

Receipt
The samples were received on 7/22/2020 10:10 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.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP071320-B606UPWIND — **Lab Sample ID: 570-33876-13**
Date Collected: 07/13/20 08:00 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:15	1
Lead	**18.0**		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:15	1
Manganese	**73.0**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:15	1

Client Sample ID: PE-TSP071320-B606DOWNWIND — **Lab Sample ID: 570-33876-14**
Date Collected: 07/13/20 08:15 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:17	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:17	1
Manganese	**6.11**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:17	1

Client Sample ID: PE-TSP071420-B606UPWIND — **Lab Sample ID: 570-33876-17**
Date Collected: 07/14/20 07:35 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:20	1
Lead	**5.66**	**J**	12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:20	1
Manganese	**29.0**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:20	1

Client Sample ID: PE-TSP071420-B606DOWNWIND — **Lab Sample ID: 570-33876-18**
Date Collected: 07/14/20 07:50 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:32	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:32	1
Manganese	**5.38**	**J**	6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:32	1

Client Sample ID: PE-TSP071520-B606UPWIND — **Lab Sample ID: 570-33876-21**
Date Collected: 07/15/20 07:10 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:34	1
Lead	**3.17**	**J**	12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:34	1
Manganese	**11.2**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:34	1

Client Sample ID: PE-TSP071520-B606DOWNWIND — **Lab Sample ID: 570-33876-22**
Date Collected: 07/15/20 07:10 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:37	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:37	1
Manganese	**9.42**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:37	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP071620-B606UPWIND
Date Collected: 07/16/20 07:25
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-33876-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:39	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:39	1
Manganese	**13.8**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:39	1

Client Sample ID: PE-TSP071620-B606DOWNWIND
Date Collected: 07/16/20 07:45
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-33876-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:41	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:41	1
Manganese	**15.9**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:41	1

Client Sample ID: PE-TSP071720-B606UPWIND
Date Collected: 07/17/20 07:05
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-33876-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:44	1
Lead	**4.78**	**J**	12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:44	1
Manganese	**9.66**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:44	1

Client Sample ID: PE-TSP071720-B606DOWNWIND
Date Collected: 07/17/20 07:15
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-33876-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**15.0**	**J**	18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 14:14	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 14:14	1
Manganese	**14.8**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 14:14	1

General Chemistry

Client Sample ID: PE-TSP071320-B606UPWIND — **Lab Sample ID: 570-33876-13**
Date Collected: 07/13/20 08:00 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	137		4.86	4.86	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP071320-B606DOWNWIND — **Lab Sample ID: 570-33876-14**
Date Collected: 07/13/20 08:15 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.4		4.86	4.86	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-PM10071320-B606UPWIND — **Lab Sample ID: 570-33876-15**
Date Collected: 07/13/20 10:10 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	54.3		4.86	NaN	ug/m3			07/29/20 09:30	1

Client Sample ID: PE-PM10071320-B606DOWNWIND — **Lab Sample ID: 570-33876-16**
Date Collected: 07/13/20 08:15 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	168		4.86	NaN	ug/m3			07/29/20 09:30	1

Client Sample ID: PE-TSP071420-B606UPWIND — **Lab Sample ID: 570-33876-17**
Date Collected: 07/14/20 07:35 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.2		4.57	4.57	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP071420-B606DOWNWIND — **Lab Sample ID: 570-33876-18**
Date Collected: 07/14/20 07:50 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.1		4.57	4.57	ug/m3			07/29/20 11:58	1

Client Sample ID: PE_PM10071420-B606UPWIND — **Lab Sample ID: 570-33876-19**
Date Collected: 07/14/20 07:35 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	62.4		4.65	NaN	ug/m3			07/29/20 09:30	1

Client Sample ID: PE_PM10071420-B606DOWNWIND — **Lab Sample ID: 570-33876-20**
Date Collected: 07/14/20 07:50 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	44.8		4.65	NaN	ug/m3			07/29/20 09:30	1

General Chemistry

Client Sample ID: PE-TSP071520-B606UPWIND — **Lab Sample ID: 570-33876-21**
Date Collected: 07/15/20 07:10 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.7		4.49	4.49	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP071520-B606DOWNWIND — **Lab Sample ID: 570-33876-22**
Date Collected: 07/15/20 07:10 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.5		4.65	4.65	ug/m3			07/29/20 11:58	1

Client Sample ID: PE_PM10071520-B606UPWIND — **Lab Sample ID: 570-33876-23**
Date Collected: 07/15/20 07:10 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.2		4.49	NaN	ug/m3			07/29/20 09:30	1

Client Sample ID: PE_PM10071520-B606DOWNWIND — **Lab Sample ID: 570-33876-24**
Date Collected: 07/15/20 07:50 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	39.4		4.65	NaN	ug/m3			07/29/20 09:30	1

Client Sample ID: PE-TSP071620-B606UPWIND — **Lab Sample ID: 570-33876-25**
Date Collected: 07/16/20 07:25 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.6		4.69	4.69	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP071620-B606DOWNWIND — **Lab Sample ID: 570-33876-26**
Date Collected: 07/16/20 07:45 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.8		4.69	4.69	ug/m3			07/29/20 11:58	1

Client Sample ID: PE_PM10071620-B606UPWIND — **Lab Sample ID: 570-33876-27**
Date Collected: 07/16/20 07:25 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.5		4.69	NaN	ug/m3			07/29/20 09:30	1

Client Sample ID: PE_PM10071620-B606DOWNWIND — **Lab Sample ID: 570-33876-28**
Date Collected: 07/16/20 07:45 — **Matrix: Air**
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.0		4.69	NaN	ug/m3			07/29/20 09:30	1

Client: Aptim Federal Services LLC
Job ID: 570-33876-1
Project/Site: HPNS - Parcel E / 500712

General Chemistry

Client Sample ID: PE-TSP071720-B606UPWIND
Lab Sample ID: 570-33876-29
Date Collected: 07/17/20 07:05
Matrix: Air
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.0		4.77	4.77	ug/m3			07/29/20 12:38	1

Client Sample ID: PE-TSP071720-B606DOWNWIND
Lab Sample ID: 570-33876-30
Date Collected: 07/17/20 07:15
Matrix: Air
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	28.0		4.82	4.82	ug/m3			07/29/20 12:38	1

Client Sample ID: PE_PM10071720-B606UPWIND
Lab Sample ID: 570-33876-31
Date Collected: 07/17/20 07:05
Matrix: Air
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.6		4.77	NaN	ug/m3			07/29/20 09:30	1

Client Sample ID: PE_PM10071720-B606DOWNWIND
Lab Sample ID: 570-33876-32
Date Collected: 07/17/20 07:15
Matrix: Air
Date Received: 07/22/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.2		4.82	NaN	ug/m3			07/29/20 09:30	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-85444/1-A
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 10:31	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 10:31	1
Manganese	ND		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 10:31	1

Lab Sample ID: LCS 570-85444/2-A
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	570.7		ug/Sample		95	80 - 120
Lead	600	619.2		ug/Sample		103	80 - 120
Manganese	600	603.9		ug/Sample		101	80 - 120

Lab Sample ID: LCSD 570-85444/3-A
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	585.8		ug/Sample		98	80 - 120	3	20
Lead	600	616.5		ug/Sample		103	80 - 120	0	20
Manganese	600	604.6		ug/Sample		101	80 - 120	0	20

Lab Sample ID: 570-34429-A-13-B MS
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.89	J	600	590.5		ug/Sample		97	75 - 125
Lead	12.7		600	635.7		ug/Sample		104	75 - 125
Manganese	13.8		600	619.1		ug/Sample		101	75 - 125

Lab Sample ID: 570-34429-A-13-C MSD
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.89	J	600	598.1		ug/Sample		99	75 - 125	1	20
Lead	12.7		600	631.2		ug/Sample		103	75 - 125	1	20
Manganese	13.8		600	600.0		ug/Sample		98	75 - 125	3	20

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

Lab Sample ID: MB 570-84291/21-A
Matrix: Air
Analysis Batch: 84318

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			07/29/20 11:58	1

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

Lab Sample ID: 570-33149-A-1-E DU
Client Sample ID: Duplicate
Matrix: Air
Prep Type: Total/NA
Analysis Batch: 84318

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	111			111.3		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-84269/1
Client Sample ID: Method Blank
Matrix: Air
Prep Type: Total/NA
Analysis Batch: 84269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23	1.23	ug/m3			07/29/20 09:30	1

Lab Sample ID: 570-33876-32 DU
Client Sample ID: PE_PM10071720-B606DOWNWIND
Matrix: Air
Prep Type: Total/NA
Analysis Batch: 84269

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	26.2			26.37		ug/m3				0.6	25

Metals

Prep Batch: 85444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33876-13	PE-TSP071320-B606UPWIND	Total/NA	Air	3050B	
570-33876-14	PE-TSP071320-B606DOWNWIND	Total/NA	Air	3050B	
570-33876-17	PE-TSP071420-B606UPWIND	Total/NA	Air	3050B	
570-33876-18	PE-TSP071420-B606DOWNWIND	Total/NA	Air	3050B	
570-33876-21	PE-TSP071520-B606UPWIND	Total/NA	Air	3050B	
570-33876-22	PE-TSP071520-B606DOWNWIND	Total/NA	Air	3050B	
570-33876-25	PE-TSP071620-B606UPWIND	Total/NA	Air	3050B	
570-33876-26	PE-TSP071620-B606DOWNWIND	Total/NA	Air	3050B	
570-33876-29	PE-TSP071720-B606UPWIND	Total/NA	Air	3050B	
570-33876-30	PE-TSP071720-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-85444/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-85444/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-85444/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-34429-A-13-B MS	Matrix Spike	Total/NA	Air	3050B	
570-34429-A-13-C MSD	Matrix Spike Duplicate	Total/NA	Air	3050B	

Analysis Batch: 85616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33876-13	PE-TSP071320-B606UPWIND	Total/NA	Air	6010B	85444
570-33876-14	PE-TSP071320-B606DOWNWIND	Total/NA	Air	6010B	85444
570-33876-17	PE-TSP071420-B606UPWIND	Total/NA	Air	6010B	85444
570-33876-18	PE-TSP071420-B606DOWNWIND	Total/NA	Air	6010B	85444
570-33876-21	PE-TSP071520-B606UPWIND	Total/NA	Air	6010B	85444
570-33876-22	PE-TSP071520-B606DOWNWIND	Total/NA	Air	6010B	85444
570-33876-25	PE-TSP071620-B606UPWIND	Total/NA	Air	6010B	85444
570-33876-26	PE-TSP071620-B606DOWNWIND	Total/NA	Air	6010B	85444
570-33876-29	PE-TSP071720-B606UPWIND	Total/NA	Air	6010B	85444
570-33876-30	PE-TSP071720-B606DOWNWIND	Total/NA	Air	6010B	85444
MB 570-85444/1-A	Method Blank	Total/NA	Air	6010B	85444
LCS 570-85444/2-A	Lab Control Sample	Total/NA	Air	6010B	85444
LCSD 570-85444/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	85444
570-34429-A-13-B MS	Matrix Spike	Total/NA	Air	6010B	85444
570-34429-A-13-C MSD	Matrix Spike Duplicate	Total/NA	Air	6010B	85444

General Chemistry

Analysis Batch: 84269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33876-15	PE-PM10071320-B606UPWIND	Total/NA	Air	PM10	
570-33876-16	PE-PM10071320-B606DOWNWIND	Total/NA	Air	PM10	
570-33876-19	PE_PM10071420-B606UPWIND	Total/NA	Air	PM10	
570-33876-20	PE_PM10071420-B606DOWNWIND	Total/NA	Air	PM10	
570-33876-23	PE_PM10071520-B606UPWIND	Total/NA	Air	PM10	
570-33876-24	PE_PM10071520-B606DOWNWIND	Total/NA	Air	PM10	
570-33876-27	PE_PM10071620-B606UPWIND	Total/NA	Air	PM10	
570-33876-28	PE_PM10071620-B606DOWNWIND	Total/NA	Air	PM10	
570-33876-31	PE_PM10071720-B606UPWIND	Total/NA	Air	PM10	
570-33876-32	PE_PM10071720-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-84269/1	Method Blank	Total/NA	Air	PM10	
570-33876-32 DU	PE_PM10071720-B606DOWNWIND	Total/NA	Air	PM10	

Client: Aptim Federal Services LLC
Job ID: 570-33876-1
Project/Site: HPNS - Parcel E / 500712

General Chemistry

Pre Prep Batch: 84291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33876-13	PE-TSP071320-B606UPWIND	Total/NA	Air	Filter to Air	
570-33876-14	PE-TSP071320-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33876-17	PE-TSP071420-B606UPWIND	Total/NA	Air	Filter to Air	
570-33876-18	PE-TSP071420-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33876-21	PE-TSP071520-B606UPWIND	Total/NA	Air	Filter to Air	
570-33876-22	PE-TSP071520-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33876-25	PE-TSP071620-B606UPWIND	Total/NA	Air	Filter to Air	
570-33876-26	PE-TSP071620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33876-29	PE-TSP071720-B606UPWIND	Total/NA	Air	Filter to Air	
570-33876-30	PE-TSP071720-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-84291/21-A	Method Blank	Total/NA	Air	Filter to Air	
570-33149-A-1-E DU	Duplicate	Total/NA	Air	Filter to Air	

Analysis Batch: 84318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33876-13	PE-TSP071320-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-14	PE-TSP071320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-17	PE-TSP071420-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-18	PE-TSP071420-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-21	PE-TSP071520-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-22	PE-TSP071520-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-25	PE-TSP071620-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-26	PE-TSP071620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-29	PE-TSP071720-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33876-30	PE-TSP071720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
MB 570-84291/21-A	Method Blank	Total/NA	Air	40CFR50 App B	84291
570-33149-A-1-E DU	Duplicate	Total/NA	Air	40CFR50 App B	84291

Client: Aptim Federal Services LLC
Job ID: 570-33876-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE-TSP071320-B606UPWIND
Lab Sample ID: 570-33876-13
Date Collected: 07/13/20 08:00
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:15	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071320-B606DOWNWIND
Lab Sample ID: 570-33876-14
Date Collected: 07/13/20 08:15
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:17	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10071320-B606UPWIND
Lab Sample ID: 570-33876-15
Date Collected: 07/13/20 10:10
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3872 g	4.4207 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10071320-B606DOWNWIND
Lab Sample ID: 570-33876-16
Date Collected: 07/13/20 08:15
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3599 g	4.4636 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071420-B606UPWIND
Lab Sample ID: 570-33876-17
Date Collected: 07/14/20 07:35
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:20	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

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

Job ID: 570-33876-1

Client Sample ID: PE-TSP071420-B606UPWIND

Lab Sample ID: 570-33876-17

Date Collected: 07/14/20 07:35
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071420-B606DOWNWIND

Lab Sample ID: 570-33876-18

Date Collected: 07/14/20 07:50
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:32	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10071420-B606UPWIND

Lab Sample ID: 570-33876-19

Date Collected: 07/14/20 07:35
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3671 g	4.4074 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10071420-B606DOWNWIND

Lab Sample ID: 570-33876-20

Date Collected: 07/14/20 07:50
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3573 g	4.3862 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071520-B606UPWIND

Lab Sample ID: 570-33876-21

Date Collected: 07/15/20 07:10
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:34	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071520-B606DOWNWIND

Lab Sample ID: 570-33876-22

Date Collected: 07/15/20 07:10

Matrix: Air

Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:37	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10071520-B606UPWIND

Lab Sample ID: 570-33876-23

Date Collected: 07/15/20 07:10

Matrix: Air

Date Received: 07/22/20 10:10

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	4.3515 g	4.3784 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10071520-B606DOWNWIND

Lab Sample ID: 570-33876-24

Date Collected: 07/15/20 07:50

Matrix: Air

Date Received: 07/22/20 10:10

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	4.3499 g	4.3753 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071620-B606UPWIND

Lab Sample ID: 570-33876-25

Date Collected: 07/16/20 07:25

Matrix: Air

Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:39	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071620-B606DOWNWIND

Lab Sample ID: 570-33876-26

Date Collected: 07/16/20 07:45

Matrix: Air

Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:41	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

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

Job ID: 570-33876-1

Client Sample ID: PE-TSP071620-B606DOWNWIND

Lab Sample ID: 570-33876-26

Date Collected: 07/16/20 07:45
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10071620-B606UPWIND

Lab Sample ID: 570-33876-27

Date Collected: 07/16/20 07:25
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3529 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10071620-B606DOWNWIND

Lab Sample ID: 570-33876-28

Date Collected: 07/16/20 07:45
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3487 g	4.3698 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071720-B606UPWIND

Lab Sample ID: 570-33876-29

Date Collected: 07/17/20 07:05
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:44	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 12:38	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071720-B606DOWNWIND

Lab Sample ID: 570-33876-30

Date Collected: 07/17/20 07:15
Matrix: Air
Date Received: 07/22/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 14:14	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 12:38	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Aptim Federal Services LLC
Job ID: 570-33876-1
Project/Site: HPNS - Parcel E / 500712

Client Sample ID: PE_PM10071720-B606UPWIND
Lab Sample ID: 570-33876-31
Date Collected: 07/17/20 07:05
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3588 g	4.3768 g	84269	07/29/20 09:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10071720-B606DOWNWIND
Lab Sample ID: 570-33876-32
Date Collected: 07/17/20 07:15
Matrix: Air
Date Received: 07/22/20 10:10

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	4.3572 g	4.3735 g	84269	07/29/20 09:30	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: 570-33876-1

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: 570-33876-1

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
Job ID: 570-33876-1
Project/Site: HPNS - Parcel E / 500712

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-33876-1	PE-ASB071320-B606UPWIND	Air	07/13/20 08:00	07/22/20 10:10	
570-33876-2	PE-ASB071320-B606DOWNWIND	Air	07/13/20 08:15	07/22/20 10:10	
570-33876-3	PE-ASB071420-B606UPWIND	Air	07/14/20 07:50	07/22/20 10:10	
570-33876-4	PE-ASB071420-B606DOWNWIND	Air	07/14/20 07:50	07/22/20 10:10	
570-33876-5	PE-ASB071520-B606UPWIND	Air	07/15/20 07:00	07/22/20 10:10	
570-33876-6	PE-ASB071520-B606DOWNWIND	Air	07/15/20 07:30	07/22/20 10:10	
570-33876-7	PE-ASB071620-B606UPWIND	Air	07/16/20 07:25	07/22/20 10:10	
570-33876-8	PE-ASB071620-B606DOWNWIND	Air	07/16/20 07:10	07/22/20 10:10	
570-33876-9	PE-ASB071720-B606UPWIND	Air	07/17/20 07:05	07/22/20 10:10	
570-33876-10	PE-ASB071720-B606DOWNWIND	Air	07/17/20 07:10	07/22/20 10:10	
570-33876-11	PE-ASB-BLANK-B606UPWIND	Air	07/17/20 07:05	07/22/20 10:10	
570-33876-12	PE-ASB-BLANK-B606DOWNWIND	Air	07/17/20 07:10	07/22/20 10:10	
570-33876-13	PE-TSP071320-B606UPWIND	Air	07/13/20 08:00	07/22/20 10:10	
570-33876-14	PE-TSP071320-B606DOWNWIND	Air	07/13/20 08:15	07/22/20 10:10	
570-33876-15	PE-PM10071320-B606UPWIND	Air	07/13/20 10:10	07/22/20 10:10	
570-33876-16	PE-PM10071320-B606DOWNWIND	Air	07/13/20 08:15	07/22/20 10:10	
570-33876-17	PE-TSP071420-B606UPWIND	Air	07/14/20 07:35	07/22/20 10:10	
570-33876-18	PE-TSP071420-B606DOWNWIND	Air	07/14/20 07:50	07/22/20 10:10	
570-33876-19	PE_PM10071420-B606UPWIND	Air	07/14/20 07:35	07/22/20 10:10	
570-33876-20	PE_PM10071420-B606DOWNWIND	Air	07/14/20 07:50	07/22/20 10:10	
570-33876-21	PE-TSP071520-B606UPWIND	Air	07/15/20 07:10	07/22/20 10:10	
570-33876-22	PE-TSP071520-B606DOWNWIND	Air	07/15/20 07:10	07/22/20 10:10	
570-33876-23	PE_PM10071520-B606UPWIND	Air	07/15/20 07:10	07/22/20 10:10	
570-33876-24	PE_PM10071520-B606DOWNWIND	Air	07/15/20 07:50	07/22/20 10:10	
570-33876-25	PE-TSP071620-B606UPWIND	Air	07/16/20 07:25	07/22/20 10:10	
570-33876-26	PE-TSP071620-B606DOWNWIND	Air	07/16/20 07:45	07/22/20 10:10	
570-33876-27	PE_PM10071620-B606UPWIND	Air	07/16/20 07:25	07/22/20 10:10	
570-33876-28	PE_PM10071620-B606DOWNWIND	Air	07/16/20 07:45	07/22/20 10:10	
570-33876-29	PE-TSP071720-B606UPWIND	Air	07/17/20 07:05	07/22/20 10:10	
570-33876-30	PE-TSP071720-B606DOWNWIND	Air	07/17/20 07:15	07/22/20 10:10	
570-33876-31	PE_PM10071720-B606UPWIND	Air	07/17/20 07:05	07/22/20 10:10	
570-33876-32	PE_PM10071720-B606DOWNWIND	Air	07/17/20 07:15	07/22/20 10:10	

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: 332013314
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: 07/23/2020 11:10 AM
Analysis Date: 08/04/2020
Collected Date: 07/13/2020 - 07/17/2020

Project: HPNS - Parcel E / 500712 / 570-33876

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-ASB071320-B606UPWIND (570-33876-1) *332013314-0001*		07/13/2020	1020	<5.5	100	0.0026	<7.01	<0.0026	Sample pulled for 10% duplicate count.
PE-ASB071320-B606DOWNWIND (570-33876-2) *332013314-0002*		07/13/2020	1010	6.2	100	0.0027	7.90	0.0030	
PE-ASB071420-B606UPWIND (570-33876-3) *332013314-0003*		07/14/2020	1060	14.2	100	0.0025	18.1	0.0066	
PE-ASB071420-B606DOWNWIND (570-33876-4) *332013314-0004*		07/14/2020	1060	<5.5	100	0.0025	<7.01	<0.0025	
PE-ASB071520-B606UPWIND (570-33876-5) *332013314-0005*		07/15/2020	2086	<5.5	100	0.0013	<7.01	<0.0013	
PE-ASB071520-B606DOWNWIND (570-33876-6) *332013314-0006*		07/15/2020	1992	7.2	100	0.0014	9.17	0.0018	
PE-ASB071620-B606UPWIND (570-33876-7) *332013314-0007*		07/16/2020	1840	13.8	100	0.0015	17.6	0.0037	
PE-ASB071620-B606DOWNWIND (570-33876-8) *332013314-0008*		07/16/2020	1160	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB071720-B606UPWIND (570-33876-9) *332013314-0009*		07/17/2020	1150	10.2	100	0.0023	13.0	0.0044	
PE-ASB071720-B606DOWNWIND (570-33876-10) *332013314-0010*		07/17/2020	1110	<5.5	100	0.0024	<7.01	<0.0024	Sample pulled for 10% duplicate count.
PE-ASB-BLANK-B606UPWIND (570-33876-11) *332013314-0011*		07/17/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-33876-12) *332013314-0012*		07/17/2020		<5.5	100		<7.01		Field Blank
PE-ASB071320-B606UPWIND (570-33876-1)		07/17/2020	1020	<5.5	100	0.0026	<7.01	<0.0026	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: 08/04/2020 08:25 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: 332013314
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: 07/23/2020 11:10 AM
Analysis Date: 08/04/2020
Collected Date: 07/13/2020 - 07/17/2020

Project: HPNS - Parcel E / 500712 / 570-33876

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*
332013314-0013									
PE-ASB071720-B606DOW NWIND (570-33876-10)		07/17/2020	1110	<5.5	100	0.0024	<7.01	<0.0024	10% duplicate count.
332013314-0014									

The results reported have been blank corrected as applicable.

Analyst(s):
Dennies Ly PCM 14

Michael DeCavallas, Laboratory Manager
or other Approved Signatory

Initial report from: 08/04/2020 08:25 AM

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 016

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

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)			
PE-ASB071320-B606UPWIND	1	CU125065	07/13/20	8:00	G	A	1	PCM			X			56.64	28.89			
PE-ASB071320-B606DOWNWIND	2	CU125126	07/13/20	8:15	G	A	1	PCM			X			56.64	28.60			
PE-ASB071420-B606UPWIND	3	CU125198	07/14/20	7:50	G	A	1	PCM			X			56.64	30.02			
PE-ASB071420-B606DOWNWIND	4	CU125199	07/14/20	7:50	G	A	1	PCM			X			56.64	30.02			
PE-ASB071520-B606UPWIND	5	CU086047	07/15/20	7:00	G	A	1	PCM			X			56.78	59.21			
PE-ASB071520-B606DOWNWIND	6	CU086050	07/15/20	7:30	G	A	1	PCM			X			56.78	56.55			
PE-ASB071620-B606UPWIND	7	CU125216	07/16/20	7:25	G	A	1	PCM			X			56.64	52.11			
PE-ASB071620-B606DOWNWIND	8	CU125172	07/16/20	7:10	G	A	1	PCM			X			56.64	32.85			
PE-ASB071720-B606UPWIND	9	CU125068	07/17/20	7:05	G	A	1	PCM			X			56.64	32.65			
PE-ASB071720-B606DOWNWIND	10	CU125183	07/17/20	7:10	G	A	1	PCM			X			56.64	31.51			
PE-ASB-BLANK-B606UPWIND	11	CU086026	07/17/20	7:05	G	A	1	PCM			X			NA				
PE-ASB-BLANK-B606DOWNWIND	12	CU125219	07/17/20	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: Edgar Ruiz Edgar Ruiz	Date: 7/20/20 Time: 1600	Received By: Lock & Storage	Date 7/20/20 Time: 1600
Relinquished By: Lock & Storage	Date 7/21/20 Time: 0700	Received By: Edgar Ruiz Edgar Ruiz	Date 7/21/20 Time 0700
Relinquished By: Edgar Ruiz Edgar Ruiz	Date: 7/21/20 Time: 1040	Received By: Eurofins	Date 7/21/20 Time 1040

Method Codes

C = Composite G = Grab

Matrix Codes

DW = Drinking Water SO = Soil

GW = Ground Water SL = Sludge

WW = Waste Water

A=Air

570-33876 Chain of Custody

Relinquished by X 1650 7/21/20 @1630 7/22/2020 * C 5 .

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CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 016

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)	PAH0 (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-TSP071320-B606UPWIND 13	817	07/13/20	8:00	G	A	1	8X10 EPM Whatman					X	1132.8	617.376		
PE-TSP071320-B606DOWNWIND 14	818	07/13/20	8:15	G	A	1	8X10 EPM Whatman					X	1132.8	617.376		
PE_PM10071320-B606UPWIND 15	Q0398674	07/13/20	10:10	G	A	1	8X10 EPM Whatman				X		1132.8	617.376		
PE_PM10071320-B606DOWNWIND 16	Q0398673	07/13/20	8:15	G	A	1	8X10 EPM Whatman				X		1132.80	617.376		
PE-TSP071420-B606UPWIND 17	819	07/14/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.80	657.024		
PE-TSP071420-B606DOWNWIND 18	820	07/14/20	7:50	G	A	1	8X10 EPM Whatman					X	1132.80	655.891		
PE_PM10071420-B606UPWIND 19	Q0398675	07/14/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	645.696		
PE_PM10071420-B606DOWNWIND 20	Q0398676	07/14/20	7:50	G	A	1	8X10 EPM Whatman				X		1132.80	644.563		
PE_PM10071520-B606DOWNWIND 21	822	7/15/2020	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	668.352		
PE-TSP071520-B606DOWNWIND 22	821	07/15/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	644.563		
PE_PM10071520-B606UPWIND 23	Q0398678	07/15/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	668.352		
PE_PM10071520-B606DOWNWIND 24	Q0398677	07/15/20	7:50	G	A	1	8X10 EPM Whatman				X		1132.80	644.563		
PE-TSP071620-B606UPWIND 25	823	07/16/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	640.032		
PE-TSP071620-B606DOWNWIND 26	824	07/16/20	7:45	G	A	1	8X10 EPM Whatman					X	1132.80	640.032		
PE_PM10071620-B606UPWIND 27	Q0398679	07/16/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.80	640.032		
PE_PM10071620-B606DOWNWIND 28	Q0398680	07/16/20	7:45	G	A	1	8X10 EPM Whatman				X		1132.80	640.032		
PE-TSP071720-B606UPWIND 29	825	07/17/20	7:05	G	A	2	8X10 EPM Whatman					X	1132.80	628.704		
PE-TSP071720-B606DOWNWIND 30	826	07/17/20	7:15	G	A	3	8X10 EPM Whatman					X	1132.80	621.907		
PE_PM100717620-B606UPWIND 31	Q0398681	07/17/20	7:05	G	A	4	8X10 EPM Whatman				X		1132.80	628.704		
PE_PM10071720-B606DOWNWIND 32	Q0398682	07/17/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	621.907		

Loc: 570
33876

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 016

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

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)			
PE-ASB071320-B606UPWIND	1	CU125065	07/13/20	8:00	G	A	1	PCM			X			56.64	28.89			
PE-ASB071320-B606DOWNWIND	2	CU125126	07/13/20	8:15	G	A	1	PCM			X			56.64	28.60			
PE-ASB071420-B606UPWIND	3	CU125198	07/14/20	7:50	G	A	1	PCM			X			56.64	30.02			
PE-ASB071420-B606DOWNWIND	4	CU125199	07/14/20	7:50	G	A	1	PCM			X			56.64	30.02			
PE-ASB071520-B606UPWIND	5	CU086047	07/15/20	7:00	G	A	1	PCM			X			56.78	59.21			
PE-ASB071520-B606DOWNWIND	6	CU086050	07/15/20	7:30	G	A	1	PCM			X			56.78	56.55			
PE-ASB071620-B606UPWIND	7	CU125216	07/16/20	7:25	G	A	1	PCM			X			56.64	52.11			
PE-ASB071620-B606DOWNWIND	8	CU125172	07/16/20	7:10	G	A	1	PCM			X			56.64	32.85			
PE-ASB071720-B606UPWIND	9	CU125068	07/17/20	7:05	G	A	1	PCM			X			56.64	32.65			
PE-ASB071720-B606DOWNWIND	10	CU125183	07/17/20	7:10	G	A	1	PCM			X			56.64	31.51			
PE-ASB-BLANK-B606UPWIND	11	CU086026	07/17/20	7:05	G	A	1	PCM			X			NA				
PE-ASB-BLANK-B606DOWNWIND	12	CU125219	07/17/20	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:

Method Codes
C = Composite G = Grab

Matrix Codes
DW - Drinking Water SO - Soil
GW = Ground Water SL - Sludge
WW = Waste Water
A=Air

Relinquished By	Date / Time	Received By	Date / Time
Edgar Ruiz [signature]	7/20/20 / 1600	Lock & Storage	7/20/20 / 1600
Lock & Storage	7/21/20 / 0700	Edgar Ruiz [signature]	7/21/20 / 0700
Edgar Ruiz [signature]	7/21/20 / 1040	Eurofins [signature] ECL	7/21/20 / 1040

570-33876 Chain of Custody

Relinquished by X [signature] to G50 7/21/20 @ 1630 [signature] @ 7/22/2020 *CS

8/4/2020

33876

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CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 016

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: 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 CPR 50 App B; NIOSH	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-TSP071320-B606UPWIND	13	817	07/13/20	8:00	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE-TSP071320-B606DOWNWIND	14	818	07/13/20	8:15	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE_PM10071320-B606UPWIND	15	Q0398674	07/13/20	10:10	G	A	1	8X10 EPM Whatman				X		1132.8	617.376			
PE_PM10071320-B606DOWNWIND	16	Q0398673	07/13/20	8:15	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
PE-TSP071420-B606UPWIND	17	819	07/14/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
PE-TSP071420-B606DOWNWIND	18	820	07/14/20	7:50	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
PE_PM10071420-B606UPWIND	19	Q0398675	07/14/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
PE_PM10071420-B606DOWNWIND	20	Q0398676	07/14/20	7:50	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
PE_PM10071520-B606DOWNWIND	21	822	7/15/2020	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	668.352			
PE-TSP071520-B606DOWNWIND	22	821	07/15/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	644.563			
PE_PM10071520-B606UPWIND	23	Q0398678	07/15/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	668.352			
PE_PM10071520-B606DOWNWIND	24	Q0398677	07/15/20	7:50	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
PE-TSP071620-B606UPWIND	25	823	07/16/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
PE-TSP071620-B606DOWNWIND	26	824	07/16/20	7:45	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
PE_PM10071620-B606UPWIND	27	Q0398679	07/16/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
PE_PM10071620-B606DOWNWIND	28	Q0398680	07/16/20	7:45	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
PE-TSP071720-B606UPWIND	29	825	07/17/20	7:05	G	A	2	8X10 EPM Whatman					X	1132.80	628.704			
PE-TSP071720-B606DOWNWIND	30	826	07/17/20	7:15	G	A	3	8X10 EPM Whatman					X	1132.80	621.907			
PE_PM100717620-B606UPWIND	31	Q0398681	07/17/20	7:05	G	A	4	8X10 EPM Whatman				X		1132.80	628.704			
PE_PM10071720-B606DOWNWIND	32	Q0398682	07/17/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	621.907			

33876

AIR MONITORING LOG

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

STATION COC# 016

SAMPLE NO. PE-ASB071320-B606UPWIND 7/13/2020 *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				
CU125065	2.000	2.000	2.00	7/13/20 08:00	7/13/20 16:30	510	28.9	Asbestos	56.64

SAMPLE NO. PE-ASB071320-B606DOWNWIND 7/13/2020 *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				
CU125126	2.000	2.000	2.0	7/13/20 08:15	7/13/20 16:40	505	28.6	Asbestos	56.64

SAMPLE NO. PE-ASB071420-B606UPWIND 7/14/2020 *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				
CU125198	2.000	2.000	2.0	7/14/20 07:50	7/14/20 16:40	530	30.0	Asbestos	56.64

SAMPLE NO. PE-ASB071420-B606DOWNWIND 7/14/2020 *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				
CU125199	2.000	2.000	2.0	7/14/20 07:50	7/14/20 16:40	530	30.0	Asbestos	56.64

SAMPLE NO. PE-ASB071520-B606UPWIND 7/15/2020 *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				
CU086047	2.005	2.005	2.0	7/15/20 07:00	7/16/20 00:23	1043	59.2	Asbestos	56.78

SAMPLE NO. PE-ASB071520-B606DOWNWIND 7/15/2020 *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				
CU086050	2.005	2.005	2.0	7/15/20 07:30	7/16/20 00:06	996	56.6	Asbestos	56.78

SAMPLE NO. PE-ASB071620-B606UPWIND 7/16/2020 *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				
CU125216	2.000	2.000	2.0	7/16/20 07:25	7/16/20 22:45	920	52.1	Asbestos	56.64

SAMPLE NO. PE-ASB071620-B606DOWNWIND 7/16/2020 *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				
CU125172	2.000	2.000	2.0	7/16/20 07:10	7/16/20 16:50	580	32.9	Asbestos	56.64

SAMPLE NO. PE-ASB071720-B606UPWIND 7/17/2020 *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				
CU125068	2.005	2.005	2.0	7/17/20 07:05	7/17/20 16:40	575	32.6	Asbestos	56.78

SAMPLE NO. PE-ASB071720-B606DOWNWIND 7/17/2020 *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				
CU125183	2.005	2.005	2.0	7/17/20 07:15	7/17/20 16:30	555	31.5	Asbestos	56.78

SAMPLE NO. PE-ASB-BLANK-B606UPWIND 7/17/2020 *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				
CU086026	2.000	2.000	2.0	7/17/20 07:05	7/17/20 16:40	575	0.0	Asbestos	

SAMPLE NO. PE-ASB-BLANK-B606DOWNWIND 7/17/2020 *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				
CU125219	2.000	2.000	2.0	7/17/20 07:15	7/17/20 16:30	555	0.0	Asbestos	

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

STATION COC#.016

SAMPLE NO. PE-TSP071320-B606UPWIND 7/13/2020 *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				
817	40.0	40.0	40.0	7/13/20 08:00	7/13/20 16:30	510	577.7	TSP	1132.80

SAMPLE NO. PE-TSP071320-B606DOWNWIND 7/13/2020 *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				
818	40.0	40.0	40.0	7/13/20 08:15	7/13/20 16:40	505	572.1	TSP	1132.80

SAMPLE NO. PE_PM10071320-B606UPWIND 7/13/2020 *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				
Q0398674	40.0	40.0	40.0	7/13/20 10:10	7/13/20 16:30	380	430.5	PM-10	1132.80

SAMPLE NO. PE_PM10071320-B606DOWNWIND 7/13/2020 *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				
Q0398673	40.0	40.0	40.0	7/13/20 08:15	7/13/20 16:40	505	572.1	PM-10	1132.80

SAMPLE NO. PE-TSP071420-B606UPWIND 7/14/2020 *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				
819	40.0	40.0	40.0	7/14/20 07:35	7/14/20 16:30	535	606.0	TSP	1132.80

SAMPLE NO. PE-TSP071420-B606DOWNWIND 7/14/2020 *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				
820	40.0	40.0	40.0	7/14/20 07:50	7/14/20 16:40	530	600.4	TSP	1132.80

SAMPLE NO. PE_PM10071420-B606UPWIND 7/14/2020 *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				
Q0398675	40.0	40.0	40.0	7/14/20 07:35	7/14/20 16:30	535	606.0	PM-10	1132.80

SAMPLE NO. PE_PM10071420-B606DOWNWIND 7/14/2020 *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				
Q0398676	40.0	40.0	40.0	7/14/20 07:50	7/14/20 16:40	530	600.4	PM-10	1132.80

SAMPLE NO. PE-TSP071520-B606UPWIND 7/15/2020 *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				
822	40.0	40.0	40.0	7/15/20 07:10	7/15/20 16:30	560	634.4	TSP	1132.80

SAMPLE NO. PE-TSP071520-B606DOWNWIND 7/15/2020 *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				
821	40.0	40.0	40.0	7/15/20 07:10	7/15/20 16:40	570	645.7	TSP	1132.80

SAMPLE NO. PE_PM10071520-B606UPWIND 7/15/2020 *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				
Q0398678	40.0	40.0	40.0	7/15/20 07:10	7/15/20 16:30	560	634.4	PM-10	1132.80

SAMPLE NO. PE_PM10071520-B606DOWNWIND 7/15/2020 *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				
Q0398677	40.0	40.0	40.0	7/15/20 07:50	7/15/20 16:40	530	600.4	PM-10	1132.80

SAMPLE NO. PE-TSP071620-B606UPWIND 7/16/2020 *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				
823	40.0	40.0	40.0	7/16/20 07:25	7/16/20 16:30	545	617.4	TSP	1132.80

SAMPLE NO. PE-TSP071620-B606DOWNWIND 7/16/2020 *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				
824	40.0	40.0	40.0	7/16/20 07:45	7/16/20 16:40	535	606.0	TSP	1132.80

SAMPLE NO. PE_PM10071620-B606UPWIND 7/16/2020 *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				
Q0398679	40.0	40.0	40.0	7/16/20 07:25	7/16/20 16:30	545	617.4	PM-10	1132.80

SAMPLE NO. PE_PM10071620-B606DOWNWIND 7/16/2020 *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				
Q0398680	40.0	40.0	40.0	7/16/20 07:45	7/16/20 16:40	535	606.0	PM-10	1132.80

SAMPLE NO. PE-TSP071720-B606UPWIND 7/17/2020 *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				

825	40.0	40.0	40.0	7/17/20 07:05	7/17/20 16:40	575	651.4	TSP	1132.80

SAMPLE NO. **PE-TSP071720-B606DOWNWIND** 7/17/2020 *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				
826	40.0	40.0	40.0	7/17/20 07:15	7/17/20 16:30	555	628.7	TSP	1132.80

SAMPLE NO. **PE_PM100717620-B606UPWIND** 7/17/2020 *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				
Q0398681	40.0	40.0	40.0	7/17/20 07:05	7/17/20 16:40	575	651.4	PM-10	1132.80

SAMPLE NO. **PE_PM10071720-B606DOWNWIND** 7/17/2020 *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				
Q0398682	40.0	40.0	40.0	7/17/20 07:15	7/17/20 16:30	555	628.7	PM-10	1132.80

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 016

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-TSP071320-B606UPWIND	817	07/13/20	8:00	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE-TSP071320-B606DOWNWIND	818	07/13/20	8:15	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE_PM10071320-B606UPWIND	Q0398674	07/13/20	10:10	G	A	1	8X10 EPM Whatman				X		1132.8	617.376			
PE_PM10071320-B606DOWNWIND	Q0398673	07/13/20	8:15	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
PE-TSP071420-B606UPWIND	819	07/14/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
PE-TSP071420-B606DOWNWIND	820	07/14/20	7:50	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
PE_PM10071420-B606UPWIND ER	Q0398675	07/14/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
PE_PM10071420-B606DOWNWIND 7/28/20	Q0398676	07/14/20	7:50	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
~~PE-PM10071520-B606DOWNWIND~~ TSP071520-B606UPWIND	822	7/15/2020	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	668.352			
PE-TSP071520-B606DOWNWIND	821	07/15/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	644.563			
PE_PM10071520-B606UPWIND	Q0398678	07/15/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	668.352			
PE_PM10071520-B606DOWNWIND	Q0398677	07/15/20	7:50	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
PE-TSP071620-B606UPWIND	823	07/16/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
PE-TSP071620-B606DOWNWIND	824	07/16/20	7:45	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
PE_PM10071620-B606UPWIND	Q0398679	07/16/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
PE_PM10071620-B606DOWNWIND	Q0398680	07/16/20	7:45	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
PE-TSP071720-B606UPWIND	825	07/17/20	7:05	G	A	2	8X10 EPM Whatman					X	1132.80	628.704			
PE-TSP071720-B606DOWNWIND	826	07/17/20	7:15	G	A	3	8X10 EPM Whatman					X	1132.80	621.907			
PE_PM100717620-B606UPWIND	Q0398681	07/17/20	7:05	G	A	4	8X10 EPM Whatman				X		1132.80	628.704			
PE_PM10071720-B606DOWNWIND	Q0398682	07/17/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	621.907			

33876

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 #: 549780778

NPS

GARDEN GROVE

570-33876 Waybill

S92841A

23953931

ORC CA927-CL0

Print Date: 7/21/2020 12:57 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: 570-33876-1

Login Number: 33876

List Source: Eurofins Calscience

List Number: 1

Creator: Luu, Sheila

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: 570-35217-1
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:
8/20/2020 5:45:01 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: 570-35217-1

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

Job ID: 570-35217-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-35217-1

Comments
No additional comments.

Receipt
The samples were received on 8/6/2020 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
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-TSP072720-B606UPWIND
Date Collected: 07/27/20 07:00
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.74	J	18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:20	1
Lead	9.58	J	12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:20	1
Manganese	11.4		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:20	1

Client Sample ID: PE-TSP072720-B606DOWNWIND
Date Collected: 07/27/20 07:09
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.68	J	18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 13:44	1
Lead	12.8		12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 13:44	1
Manganese	20.0		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 13:44	1

Client Sample ID: PE-TSP072820-B606UPWIND
Date Collected: 07/28/20 07:00
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:28	1
Lead	15.6		12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:28	1
Manganese	18.1		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:28	1

Client Sample ID: PE-TSP072820-B606DOWNWIND
Date Collected: 07/28/20 07:10
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21.0		18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:30	1
Lead	13.2		12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:30	1
Manganese	9.90		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:30	1

Client Sample ID: PE-TSP072920-B606UPWIND
Date Collected: 07/29/20 07:01
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-21
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.87	J	18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:45	1
Lead	7.67	J	12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:45	1
Manganese	11.9		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:45	1

Client Sample ID: PE-TSP072920-B606DOWNWIND
Date Collected: 07/29/20 07:09
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-22
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:47	1
Lead	12.9		12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:47	1
Manganese	11.3		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:47	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP073020-B606UPWIND
Date Collected: 07/30/20 07:00
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:49	1
Lead	**13.0**		12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:49	1
Manganese	**9.76**		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:49	1

Client Sample ID: PE-TSP073020-B606DOWNWIND
Date Collected: 07/30/20 07:10
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.73**	**J**	18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:51	1
Lead	**10.7**	**J**	12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:51	1
Manganese	**9.11**		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:51	1

Client Sample ID: PE-TSP073120-B606UPWIND
Date Collected: 07/31/20 06:53
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/18/20 19:10	08/19/20 00:53	1
Lead	**10.4**	**J**	12.0	3.16	ug/Sample		08/18/20 19:10	08/19/20 00:53	1
Manganese	**8.89**		6.00	3.34	ug/Sample		08/18/20 19:10	08/19/20 00:53	1

Client Sample ID: PE-TSP073120-B606DOWNWIND
Date Collected: 07/31/20 07:10
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**16.6**	**J**	18.0	6.22	ug/Sample		08/18/20 19:11	08/19/20 00:55	1
Lead	**14.3**		12.0	3.16	ug/Sample		08/18/20 19:11	08/19/20 00:55	1
Manganese	**8.02**		6.00	3.34	ug/Sample		08/18/20 19:11	08/19/20 00:55	1

General Chemistry

Client Sample ID: PE-TSP072720-B606UPWIND — **Lab Sample ID: 570-35217-13**
Date Collected: 07/27/20 07:00 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.1		4.86	4.86	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-TSP072720-B606DOWNWIND — **Lab Sample ID: 570-35217-14**
Date Collected: 07/27/20 07:09 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.8		4.86	4.86	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-PM10072720-B606UPWIND — **Lab Sample ID: 570-35217-15**
Date Collected: 07/27/20 07:00 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	17.3		4.86	NaN	ug/m3			08/11/20 17:24	1

Client Sample ID: PE-PM10072720-B606DOWNWIND — **Lab Sample ID: 570-35217-16**
Date Collected: 07/27/20 07:09 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.3		4.86	NaN	ug/m3			08/11/20 17:24	1

Client Sample ID: PE-TSP072820-B606UPWIND — **Lab Sample ID: 570-35217-17**
Date Collected: 07/28/20 07:00 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.7		4.57	4.57	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-TSP072820-B606DOWNWIND — **Lab Sample ID: 570-35217-18**
Date Collected: 07/28/20 07:10 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.0		4.57	4.57	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-PM10072820-B606UPWIND — **Lab Sample ID: 570-35217-19**
Date Collected: 07/28/20 07:00 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	16.1		4.65	NaN	ug/m3			08/11/20 17:24	1

Client Sample ID: PE-PM10072820-B606DOWNWIND — **Lab Sample ID: 570-35217-20**
Date Collected: 07/28/20 07:10 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.5		4.65	NaN	ug/m3			08/11/20 17:24	1

General Chemistry

Client Sample ID: PE-TSP072920-B606UPWIND — **Lab Sample ID: 570-35217-21**
Date Collected: 07/29/20 07:01 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.3		4.49	4.49	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-TSP072920-B606DOWNWIND — **Lab Sample ID: 570-35217-22**
Date Collected: 07/29/20 07:09 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.6		4.65	4.65	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-PM10072920-B606UPWIND — **Lab Sample ID: 570-35217-23**
Date Collected: 07/29/20 07:01 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.9		4.49	NaN	ug/m3			08/11/20 17:24	1

Client Sample ID: PE-PM10072920-B606DOWNWIND — **Lab Sample ID: 570-35217-24**
Date Collected: 07/29/20 07:09 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.1		4.65	NaN	ug/m3			08/11/20 17:24	1

Client Sample ID: PE-TSP073020-B606UPWIND — **Lab Sample ID: 570-35217-25**
Date Collected: 07/30/20 07:00 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.4		4.69	4.69	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-TSP073020-B606DOWNWIND — **Lab Sample ID: 570-35217-26**
Date Collected: 07/30/20 07:10 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.2		4.69	4.69	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-PM10073020-B606UPWIND — **Lab Sample ID: 570-35217-27**
Date Collected: 07/30/20 07:00 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.0		4.69	NaN	ug/m3			08/11/20 17:24	1

Client Sample ID: PE-PM10073020-B606DOWNWIND — **Lab Sample ID: 570-35217-28**
Date Collected: 07/30/20 07:10 — **Matrix: Air**
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	23.7		4.69	NaN	ug/m3			08/11/20 17:24	1

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

Job ID: 570-35217-1

General Chemistry

Client Sample ID: PE-TSP073120-B606UPWIND
Date Collected: 07/31/20 06:53
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.4		4.77	4.77	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-TSP073120-B606DOWNWIND
Date Collected: 07/31/20 07:10
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.5		4.82	4.82	ug/m3			08/11/20 16:44	1

Client Sample ID: PE-PM10073120-B606UPWIND
Date Collected: 07/31/20 09:53
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-31
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	15.0		4.77	NaN	ug/m3			08/11/20 17:24	1

Client Sample ID: PE-PM10073120-B606DOWNWIND
Date Collected: 07/31/20 07:10
Date Received: 08/06/20 10:30
Sample Container: Folder/Filter

Lab Sample ID: 570-35217-32
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.4		4.82	NaN	ug/m3			08/11/20 17:24	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: 570-35217-13 MS
Matrix: Air
Analysis Batch: 88680

Client Sample ID: PE-TSP072720-B606UPWIND
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: 570-35217-13 MSD
Matrix: Air
Analysis Batch: 88680

Client Sample ID: PE-TSP072720-B606UPWIND
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 570-87140/11-A
Matrix: Air
Analysis Batch: 87145

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			08/11/20 16:44	1

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

Lab Sample ID: 570-35217-13 DU
Matrix: Air
Analysis Batch: 87145

Client Sample ID: PE-TSP072720-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	36.1			36.12		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-87168/1
Matrix: Air
Analysis Batch: 87168

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			08/11/20 17:24	1

Lab Sample ID: 570-35217-15 DU
Matrix: Air
Analysis Batch: 87168

Client Sample ID: PE-PM10072720-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	17.3			17.33		ug/m3				0	25

Metals

Analysis Batch: 88680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35217-13	PE-TSP072720-B606UPWIND	Total/NA	Air	6010B	88709
570-35217-17	PE-TSP072820-B606UPWIND	Total/NA	Air	6010B	88709
570-35217-18	PE-TSP072820-B606DOWNWIND	Total/NA	Air	6010B	88709
570-35217-21	PE-TSP072920-B606UPWIND	Total/NA	Air	6010B	88709
570-35217-22	PE-TSP072920-B606DOWNWIND	Total/NA	Air	6010B	88709
570-35217-25	PE-TSP073020-B606UPWIND	Total/NA	Air	6010B	88709
570-35217-26	PE-TSP073020-B606DOWNWIND	Total/NA	Air	6010B	88709
570-35217-29	PE-TSP073120-B606UPWIND	Total/NA	Air	6010B	88709
570-35217-30	PE-TSP073120-B606DOWNWIND	Total/NA	Air	6010B	88709
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
570-35217-13 MS	PE-TSP072720-B606UPWIND	Total/NA	Air	6010B	88709
570-35217-13 MSD	PE-TSP072720-B606UPWIND	Total/NA	Air	6010B	88709

Prep Batch: 88709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35217-13	PE-TSP072720-B606UPWIND	Total/NA	Air	3050B	
570-35217-14	PE-TSP072720-B606DOWNWIND	Total/NA	Air	3050B	
570-35217-17	PE-TSP072820-B606UPWIND	Total/NA	Air	3050B	
570-35217-18	PE-TSP072820-B606DOWNWIND	Total/NA	Air	3050B	
570-35217-21	PE-TSP072920-B606UPWIND	Total/NA	Air	3050B	
570-35217-22	PE-TSP072920-B606DOWNWIND	Total/NA	Air	3050B	
570-35217-25	PE-TSP073020-B606UPWIND	Total/NA	Air	3050B	
570-35217-26	PE-TSP073020-B606DOWNWIND	Total/NA	Air	3050B	
570-35217-29	PE-TSP073120-B606UPWIND	Total/NA	Air	3050B	
570-35217-30	PE-TSP073120-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	
570-35217-13 MS	PE-TSP072720-B606UPWIND	Total/NA	Air	3050B	
570-35217-13 MSD	PE-TSP072720-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 88911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35217-14	PE-TSP072720-B606DOWNWIND	Total/NA	Air	6010B	88709

General Chemistry

Pre Prep Batch: 87140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35217-13	PE-TSP072720-B606UPWIND	Total/NA	Air	Filter to Air	
570-35217-14	PE-TSP072720-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-35217-17	PE-TSP072820-B606UPWIND	Total/NA	Air	Filter to Air	
570-35217-18	PE-TSP072820-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-35217-21	PE-TSP072920-B606UPWIND	Total/NA	Air	Filter to Air	
570-35217-22	PE-TSP072920-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-35217-25	PE-TSP073020-B606UPWIND	Total/NA	Air	Filter to Air	
570-35217-26	PE-TSP073020-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-35217-29	PE-TSP073120-B606UPWIND	Total/NA	Air	Filter to Air	
570-35217-30	PE-TSP073120-B606DOWNWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 87140 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-87140/11-A	Method Blank	Total/NA	Air	Filter to Air	
570-35217-13 DU	PE-TSP072720-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 87145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35217-13	PE-TSP072720-B606UPWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-14	PE-TSP072720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-17	PE-TSP072820-B606UPWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-18	PE-TSP072820-B606DOWNWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-21	PE-TSP072920-B606UPWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-22	PE-TSP072920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-25	PE-TSP073020-B606UPWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-26	PE-TSP073020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-29	PE-TSP073120-B606UPWIND	Total/NA	Air	40CFR50 App B	87140
570-35217-30	PE-TSP073120-B606DOWNWIND	Total/NA	Air	40CFR50 App B	87140
MB 570-87140/11-A	Method Blank	Total/NA	Air	40CFR50 App B	87140
570-35217-13 DU	PE-TSP072720-B606UPWIND	Total/NA	Air	40CFR50 App B	87140

Analysis Batch: 87168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-35217-15	PE-PM10072720-B606UPWIND	Total/NA	Air	PM10	
570-35217-16	PE-PM10072720-B606DOWNWIND	Total/NA	Air	PM10	
570-35217-19	PE-PM10072820-B606UPWIND	Total/NA	Air	PM10	
570-35217-20	PE-PM10072820-B606DOWNWIND	Total/NA	Air	PM10	
570-35217-23	PE-PM10072920-B606UPWIND	Total/NA	Air	PM10	
570-35217-24	PE-PM10072920-B606DOWNWIND	Total/NA	Air	PM10	
570-35217-27	PE-PM10073020-B606UPWIND	Total/NA	Air	PM10	
570-35217-28	PE-PM10073020-B606DOWNWIND	Total/NA	Air	PM10	
570-35217-31	PE-PM10073120-B606UPWIND	Total/NA	Air	PM10	
570-35217-32	PE-PM10073120-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-87168/1	Method Blank	Total/NA	Air	PM10	
570-35217-15 DU	PE-PM10072720-B606UPWIND	Total/NA	Air	PM10	

Client Sample ID: PE-TSP072720-B606UPWIND
Lab Sample ID: 570-35217-13
Date Collected: 07/27/20 07:00
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:20	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072720-B606DOWNWIND
Lab Sample ID: 570-35217-14
Date Collected: 07/27/20 07:09
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88911	08/19/20 13:44	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10072720-B606UPWIND
Lab Sample ID: 570-35217-15
Date Collected: 07/27/20 07:00
Matrix: Air
Date Received: 08/06/20 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	4.3832 g	4.3939 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10072720-B606DOWNWIND
Lab Sample ID: 570-35217-16
Date Collected: 07/27/20 07:09
Matrix: Air
Date Received: 08/06/20 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	4.4353 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072820-B606UPWIND
Lab Sample ID: 570-35217-17
Date Collected: 07/28/20 07:00
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:28	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072820-B606DOWNWIND
Lab Sample ID: 570-35217-18
Date Collected: 07/28/20 07:10
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10072820-B606UPWIND
Lab Sample ID: 570-35217-19
Date Collected: 07/28/20 07:00
Matrix: Air
Date Received: 08/06/20 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	4.4105 g	4.4209 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10072820-B606DOWNWIND
Lab Sample ID: 570-35217-20
Date Collected: 07/28/20 07:10
Matrix: Air
Date Received: 08/06/20 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	4.4040 g	4.4217 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072920-B606UPWIND
Lab Sample ID: 570-35217-21
Date Collected: 07/29/20 07:01
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:45	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072920-B606DOWNWIND
Lab Sample ID: 570-35217-22
Date Collected: 07/29/20 07:09
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:47	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-35217-1

Client Sample ID: PE-PM10072920-B606UPWIND
Lab Sample ID: 570-35217-23
Date Collected: 07/29/20 07:01
Matrix: Air
Date Received: 08/06/20 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	4.3953 g	4.4059 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10072920-B606DOWNWIND
Lab Sample ID: 570-35217-24
Date Collected: 07/29/20 07:09
Matrix: Air
Date Received: 08/06/20 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	4.4011 g	4.4179 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP073020-B606UPWIND
Lab Sample ID: 570-35217-25
Date Collected: 07/30/20 07:00
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:49	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP073020-B606DOWNWIND
Lab Sample ID: 570-35217-26
Date Collected: 07/30/20 07:10
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:51	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10073020-B606UPWIND
Lab Sample ID: 570-35217-27
Date Collected: 07/30/20 07:00
Matrix: Air
Date Received: 08/06/20 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	4.3904 g	4.4000 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-35217-1

Client Sample ID: PE-PM10073020-B606DOWNWIND
Lab Sample ID: 570-35217-28
Date Collected: 07/30/20 07:10
Matrix: Air
Date Received: 08/06/20 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	4.3895 g	4.4047 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP073120-B606UPWIND
Lab Sample ID: 570-35217-29
Date Collected: 07/31/20 06:53
Matrix: Air
Date Received: 08/06/20 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 19:10	OYW3	ECL 1
Total/NA	Analysis	6010B		1			88680	08/19/20 00:53	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP073120-B606DOWNWIND
Lab Sample ID: 570-35217-30
Date Collected: 07/31/20 07:10
Matrix: Air
Date Received: 08/06/20 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			88680	08/19/20 00:55	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					87140	08/11/20 16:36	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			87145	08/11/20 16:44	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10073120-B606UPWIND
Lab Sample ID: 570-35217-31
Date Collected: 07/31/20 09:53
Matrix: Air
Date Received: 08/06/20 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	4.3922 g	4.4016 g	87168	08/11/20 17:24	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-PM10073120-B606DOWNWIND
Lab Sample ID: 570-35217-32
Date Collected: 07/31/20 07:10
Matrix: Air
Date Received: 08/06/20 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	4.3581 g	4.3745 g	87168	08/11/20 17:24	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: 570-35217-1

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: 570-35217-1

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: 570-35217-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-35217-1	PE-ASB072720-B606UPWIND	Air	07/27/20 07:00	08/06/20 10:30	
570-35217-2	PE-ASB072720-B606DOWNWIND	Air	07/27/20 07:09	08/06/20 10:30	
570-35217-3	PE-ASB072820-B606UPWIND	Air	07/28/20 07:00	08/06/20 10:30	
570-35217-4	PE-ASB072820-B606DOWNWIND	Air	07/28/20 07:10	08/06/20 10:30	
570-35217-5	PE-ASB072920-B606UPWIND	Air	07/29/20 07:01	08/06/20 10:30	
570-35217-6	PE-ASB072920-B606DOWNWIND	Air	07/29/20 07:09	08/06/20 10:30	
570-35217-7	PE-ASB073020-B606UPWIND	Air	07/30/20 07:00	08/06/20 10:30	
570-35217-8	PE-ASB073020-B606DOWNWIND	Air	07/30/20 07:10	08/06/20 10:30	
570-35217-9	PE-ASB073120-B606UPWIND	Air	07/31/20 07:00	08/06/20 10:30	
570-35217-10	PE-ASB073120-B606DOWNWIND	Air	07/31/20 07:11	08/06/20 10:30	
570-35217-11	PE-ASB-BLANK-B606UPWIND	Air	07/31/20 07:00	08/06/20 10:30	
570-35217-12	PE-ASB-BLANK-B606DOWNWIND	Air	07/31/20 07:11	08/06/20 10:30	
570-35217-13	PE-TSP072720-B606UPWIND	Air	07/27/20 07:00	08/06/20 10:30	
570-35217-14	PE-TSP072720-B606DOWNWIND	Air	07/27/20 07:09	08/06/20 10:30	
570-35217-15	PE-PM10072720-B606UPWIND	Air	07/27/20 07:00	08/06/20 10:30	
570-35217-16	PE-PM10072720-B606DOWNWIND	Air	07/27/20 07:09	08/06/20 10:30	
570-35217-17	PE-TSP072820-B606UPWIND	Air	07/28/20 07:00	08/06/20 10:30	
570-35217-18	PE-TSP072820-B606DOWNWIND	Air	07/28/20 07:10	08/06/20 10:30	
570-35217-19	PE-PM10072820-B606UPWIND	Air	07/28/20 07:00	08/06/20 10:30	
570-35217-20	PE-PM10072820-B606DOWNWIND	Air	07/28/20 07:10	08/06/20 10:30	
570-35217-21	PE-TSP072920-B606UPWIND	Air	07/29/20 07:01	08/06/20 10:30	
570-35217-22	PE-TSP072920-B606DOWNWIND	Air	07/29/20 07:09	08/06/20 10:30	
570-35217-23	PE-PM10072920-B606UPWIND	Air	07/29/20 07:01	08/06/20 10:30	
570-35217-24	PE-PM10072920-B606DOWNWIND	Air	07/29/20 07:09	08/06/20 10:30	
570-35217-25	PE-TSP073020-B606UPWIND	Air	07/30/20 07:00	08/06/20 10:30	
570-35217-26	PE-TSP073020-B606DOWNWIND	Air	07/30/20 07:10	08/06/20 10:30	
570-35217-27	PE-PM10073020-B606UPWIND	Air	07/30/20 07:00	08/06/20 10:30	
570-35217-28	PE-PM10073020-B606DOWNWIND	Air	07/30/20 07:10	08/06/20 10:30	
570-35217-29	PE-TSP073120-B606UPWIND	Air	07/31/20 06:53	08/06/20 10:30	
570-35217-30	PE-TSP073120-B606DOWNWIND	Air	07/31/20 07:10	08/06/20 10:30	
570-35217-31	PE-PM10073120-B606UPWIND	Air	07/31/20 09:53	08/06/20 10:30	
570-35217-32	PE-PM10073120-B606DOWNWIND	Air	07/31/20 07:10	08/06/20 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: 332014348
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: 08/10/2020 10:55 AM
Analysis Date: 08/17/2020
Collected Date:

Project: HPNS - Parcel E / 500712 / 570-35217

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-ASB072720-B606UPWIND (570-35217-1) *332014348-0001*			1934	13.5	100	0.0014	17.2	0.0034	
PE-ASB072720-B606DOWNWIND (570-35217-2) *332014348-0002*			1754	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB072820-B606UPWIND (570-35217-3) *332014348-0003*			2016	9	100	0.0013	11.5	0.0022	
PE-ASB072820-B606DOWNWIND (570-35217-4) *332014348-0004*			1947.69	<5.5	100	0.0014	<7.01	<0.0014	Sample pulled for 10% duplicate count
PE-ASB072920-B606UPWIND (570-35217-5) *332014348-0005*			1798.95	6.5	100	0.0015	8.28	0.0018	
PE-ASB072920-B606DOWNWIND (570-35217-6) *332014348-0006*			1812	<5.5	100	0.0015	<7.01	<0.0015	
PE-ASB073020-B606UPWIND (570-35217-7) *332014348-0007*			1912	10	100	0.0014	12.7	0.0026	
PE-ASB073020-B606DOWNWIND (570-35217-8) *332014348-0008*									Not Analyzed Filter damaged unable to proceed with analysis
PE-ASB073120-B606UPWIND (570-35217-9) *332014348-0009*			1158	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB073120-B606DOWNWIND (570-35217-10) *332014348-0010*			1116	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB-BLANK-B606UPWIND (570-35217-11) *332014348-0011*				<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-35217-12) *332014348-0012*				<5.5	100		<7.01		Field Blank

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: 08/17/2020 09:18 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: 332014348
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: 08/10/2020 10:55 AM
Analysis Date: 08/17/2020
Collected Date:

Project: HPNS - Parcel E / 500712 / 570-35217

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-ASB072820-B606DOW NWIND (570-35217-4) Dup			1947.69	<5.5	100	0.0014	<7.01	<0.0014	10% duplicate count
332014348-0013									

The results reported have been blank corrected as applicable.

Analyst(s):
Brian Magumcia PCM 12

Michael Chapman, Laboratory Manager
or other Approved Signatory

Initial report from: 08/17/2020 09:18 AM

Loc: 570
35217

APTIM

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

570-35217 Chain of Custody

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 018
Page 1 **of** 2

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

		Collection Information						Analyses Requested								
Sample ID Number	Filter No.	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-ASB072720-B606UPWIND	CU125066	07/27/20	7:00	G	A	1	PCM			X			56.64	54.77			
2 PE-ASB072720-B606DOWNWIND	CU125078	07/27/20	7:09	G	A	1	PCM			X			56.64	49.67			
3 PE-ASB072820-B606UPWIND	CU125054	07/28/20	7:00	G	A	1	PCM			X			56.64	57.09			
4 PE-ASB072820-B606DOWNWIND	CU125123	07/28/20	7:10	G	A	1	PCM			X			56.78	55.02			
5 PE-ASB072920-B606UPWIND	CU125081	07/29/20	7:01	G	A	1	PCM			X			56.78	50.82			
6 PE-ASB072920-B606DOWNWIND	CU125086	07/29/20	7:09	G	A	1	PCM			X			56.64	51.32			
7 PE-ASB073020-B606UPWIND	CU125049	07/30/20	7:00	G	A	1	PCM			X			56.64	54.15			
8 PE-ASB073020-B606DOWNWIND	CU125059	07/30/20	7:10	G	A	1	PCM			X			56.64	73.69			
9 PE-ASB073120-B606UPWIND	CU125040	07/31/20	7:00	G	A	1	PCM			X			56.64	32.79			
10 PE-ASB073120-B606DOWNWIND	CU125051	07/31/20	7:11	G	A	1	PCM			X			56.64	31.61			
11 PE-ASB-BLANK-B606UPWIND	CU125030	07/31/20	7:00	G	A	1	PCM			X			NA				
12 PE-ASB-BLANK-B606DOWNWIND	CU125064	07/31/20	7:11	G	A	1	PCM			X			NA				
1 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 — Edgar Ruiz — Date: 7/31/20 Time: 17:00	Received By: Lock and Storage — Date: 7/31/20 Time: 17:00
Relinquished By: Lock and storage — Date: 8/5/20 Time: 09:00	Received By: Edgar Ruiz — Edgar Ruiz — Date: 8/5/20 Time: 09:00
Relinquished By: Edgar Ruiz — Edgar Ruiz — Date: 8/5/20 Time: 1115	Received By: Eurofins — Date: 8/5/20 Time: 1115

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 [illegible] to 650 8/5/20 1600

[illegible] 8/6/20 1030

Page 23 of 32

8/20/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 018

Page 2 **of** 2

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

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
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
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

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-TSP072720-B606UPWIND	837	07/27/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
14	PE-TSP072720-B606DOWNWIND	838	07/27/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
15	PE_PM10072720-B606UPWIND	Q0398954	07/27/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	617.376			
16	PE_PM10072720-B606DOWNWIND	Q0398955	07/27/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
17	PE-TSP072820-B606UPWIND	839	07/28/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
18	PE-TSP072820-B606DOWNWIND	840	07/28/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
19	PE_PM10072820-B606UPWIND	Q0398956	07/28/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
20	PE_PM10072820-B606DOWNWIND	Q0398957	07/28/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
21	PE-TSP072920-B606UPWIND	841	7/15/2020	7:01	G	A	1	8X10 EPM Whatman					X	1132.80	668.352			
22	PE-TSP072920-B606DOWNWIND	842	07/29/20	7:09	G	A	1	8X10 EPM Whatman					X	1132.80	644.563			
23	PE_PM10072920-B606UPWIND	Q0398958	07/29/20	7:01	G	A	1	8X10 EPM Whatman				X		1132.80	668.352			
24	PE_PM10072920-B606DOWNWIND	Q0398959	07/29/20	7:09	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
25	PE-TSP073020-B606UPWIND	843	07/30/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
26	PE-TSP073020-B606DOWNWIND	844	07/30/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
27	PE_PM10073020-B606UPWIND	Q0398960	07/30/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
28	PE_PM10073020-B606DOWNWIND	Q0398961	07/30/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
29	PE-TSP073120-B606UPWIND	845	07/31/20	6:53	G	A	2	8X10 EPM Whatman					X	1132.80	628.704			
30	PE-TSP073120-B606DOWNWIND	846	07/31/20	7:10	G	A	3	8X10 EPM Whatman					X	1132.80	621.907			
31	PE_PM10073120-B606UPWIND	Q0398962	07/31/20	6:53	G	A	4	8X10 EPM Whatman				X		1132.80	628.704			
32	PE_PM10073120-B606DOWNWIND	Q0398963	07/31/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	621.907			

8/20/2020

APTIM

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

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 018

Page 1 of 2

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 8/6/20

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)	Analyses Requested: Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB072720-B606UPWIND	CU125066	07/27/20	7:00	G	A	1	PCM			X		2.00	~~56.64~~	~~34.77~~	1.93		
PE-ASB072720-B606DOWNWIND	CU125078	07/27/20	7:09	G	A	1	PCM			X		2.00	~~56.64~~	~~49.67~~	1.75		
PE-ASB072820-B606UPWIND	CU125054	07/28/20	7:00	G	A	1	PCM			X		2.01	~~56.64~~	~~57.09~~	2.02		
PE-ASB072820-B606DOWNWIND	CU125123	07/28/20	7:10	G	A	1	PCM			X		2.01	~~56.78~~	~~55.02~~	1.94		
PE-ASB072920-B606UPWIND	CU125081	07/29/20	7:01	G	A	1	PCM			X		2.00	~~56.78~~	~~50.82~~	1.79		
PE-ASB072920-B606DOWNWIND	CU125086	07/29/20	7:09	G	A	1	PCM			X		2.00	~~56.64~~	~~51.32~~	1.81		
PE-ASB073020-B606UPWIND	CU125049	07/30/20	7:00	G	A	1	PCM			X		2.00	~~56.64~~	~~54.15~~	1.91		
PE-ASB073020-B606DOWNWIND	CU125059	07/30/20	7:10	G	A	1	PCM			X		2.00	~~56.64~~	~~73.69~~	2.60		
PE-ASB073120-B606UPWIND	CU125040	07/31/20	7:00	G	A	1	PCM			X		2.00	~~56.64~~	~~32.79~~	1.16		
PE-ASB073120-B606DOWNWIND	CU125051	07/31/20	7:11	G	A	1	PCM			X		2.00	~~56.64~~	~~31.61~~	1.12		
PE-ASB-BLANK-B606UPWIND	CU125030	07/31/20	7:00	G	A	1	PCM			X			NA				
PE-ASB-BLANK-B606DOWNWIND	CU125064	07/31/20	7:11	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
Edgar Ruiz	7/31/20	17:00	Lock and Storage	7/31/20	17:00
Lock and storage	8/5/20	09:00	Edgar Ruiz	8/5/20	09:00
Edgar Ruiz	8/5/20	1115	Eurofins	8/5/20	1115

Method Codes
C = Composite
G = Grab

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

ABS=Asbestos, PO=Pipe Opening

AIR MONITORING LOG

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

STATION **COC# 018**

SAMPLE NO. **PE-ASB072720-B606UPWIND** 7/27/2020 *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				
CU125066	2.000	2.000	2.000	7/27/20 07:00	7/27/20 23:07	967	1.93	Asbestos	2.00

SAMPLE NO. **PE-ASB072720-B606DOWNWIND** 7/27/2020 *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				
CU125078	2.000	2.000	2.000	7/27/20 07:09	7/27/20 21:46	877	1.75	Asbestos	2.00

SAMPLE NO. **PE-ASB072820-B606UPWIND** 7/28/2020 *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				
CU125054	2.000	2.000	2.000	7/28/20 07:00	7/28/20 23:48	1008	2.02	Asbestos	2.00

SAMPLE NO. **PE-ASB072820-B606DOWNWIND** 7/28/2020 *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				
CU125123	2.005	2.005	2.005	7/28/20 07:10	7/28/20 23:19	969	1.94	Asbestos	2.01

SAMPLE NO. **PE-ASB072920-B606UPWIND** 7/29/2020 *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				
CU125081	2.005	2.005	2.005	7/29/20 07:01	7/29/20 21:56	895	1.79	Asbestos	2.01

SAMPLE NO. **PE-ASB072920-B606DOWNWIND** 7/29/2020 *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				
CU125086	2.000	2.000	2.000	7/29/20 07:09	7/29/20 22:15	906	1.81	Asbestos	2.00

SAMPLE NO. **PE-ASB073020-B606UPWIND** 7/30/2020 *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				
CU125049	2.000	2.000	2.000	7/30/20 07:00	7/30/20 22:56	956	1.91	Asbestos	2.00

SAMPLE NO. **PE-ASB073020-B606DOWNWIND** 7/30/2020 *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				
CU125059	2.000	2.000	2.000	7/30/20 07:10	7/31/20 04:51	1301	2.60	Asbestos	2.00

SAMPLE NO.	PE-ASB073120-B606UPWIND			7/31/2020 *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				
CU125040	2.000	2.000	2.000	7/31/20 07:00	7/31/20 16:39	579	1.16	Asbestos	2.00

SAMPLE NO.	PE-ASB073120-B606DOWNWIND			7/31/2020 *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				
CU125051	2.000	2.000	2.0	7/31/20 07:11	7/31/20 16:29	558	1.12	Asbestos	2.00

SAMPLE NO.	PE-ASB-BLANK-B606UPWIND			7/31/2020 *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				
CU125030				7/31/20 07:00			0.0	Asbestos	

SAMPLE NO.	PE-ASB-BLANK-B606DOWNWIND			7/31/2020 *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				
CU125064				7/31/20 07:11			0.0	Asbestos	

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

STATION COC# 018

SAMPLE NO. PE-TSP072720-B606UPWIND 7/27/2020 *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				
837	40.0	40.0	40.0	7/27/20 07:00	7/27/20 16:45	585	662.7	TSP	1132.80

SAMPLE NO. PE-TSP072720-B606DOWNWIND 7/27/2020 *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				
838	40.0	40.0	40.0	7/27/20 07:09	7/27/20 16:30	561	635.5	TSP	1132.80

SAMPLE NO. PE_PM10072720-B606UPWIND 7/27/2020 *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				
Q0398954	40.0	40.0	40.0	7/27/20 07:00	7/27/20 16:45	585	662.7	PM-10	1132.80

SAMPLE NO. PE_PM10072720-B606DOWNWIND 7/27/2020 *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				
Q0398955	40.0	40.0	40.0	7/27/20 07:09	7/27/20 16:30	561	635.5	PM-10	1132.80

SAMPLE NO. PE-TSP072820-B606UPWIND 7/28/2020 *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				
839	40.0	40.0	40.0	7/28/20 07:00	7/28/20 16:43	583	660.4	TSP	1132.80

SAMPLE NO. PE-TSP072820-B606DOWNWIND 7/28/2020 *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				
840	40.0	40.0	40.0	7/28/20 07:10	7/28/20 16:35	565	640.0	TSP	1132.80

SAMPLE NO. PE_PM10072820-B606UPWIND 7/28/2020 *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				
Q0398956	40.0	40.0	40.0	7/28/20 07:00	7/28/20 16:43	583	660.4	PM-10	1132.80

SAMPLE NO. PE_PM10072820-B606DOWNWIND 7/28/2020 *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				
Q0398957	40.0	40.0	40.0	7/28/20 07:10	7/28/20 16:35	565	640.0	PM-10	1132.80

SAMPLE NO. **PE-TSP072920-B606UPWIND** 7/29/2020 *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				
841	40.0	40.0	40.0	7/29/20 07:01	7/29/20 16:45	584	661.6	TSP	1132.80

SAMPLE NO. **PE-TSP072920-B606DOWNWIND** 7/29/2020 *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				
842	40.0	40.0	40.0	7/29/20 07:09	7/29/20 16:35	566	641.2	TSP	1132.80

SAMPLE NO. **PE_PM10072920-B606UPWIND** 7/29/2020 *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				
Q0398958	40.0	40.0	40.0	7/29/20 07:01	7/29/20 16:45	584	661.6	PM-10	1132.80

SAMPLE NO. **PE_PM10072920-B606DOWNWIND** 7/29/2020 *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				
Q0398959	40.0	40.0	40.0	7/29/20 07:09	7/29/20 16:35	566	641.2	PM-10	1132.80

SAMPLE NO. **PE-TSP073020-B606UPWIND** 7/30/2020 *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				
843	40.0	40.0	40.0	7/30/20 07:00	7/30/20 16:45	585	662.7	TSP	1132.80

SAMPLE NO. **PE-TSP073020-B606DOWNWIND** 7/30/2020 *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				
844	40.0	40.0	40.0	7/30/20 07:10	7/30/20 16:35	565	640.0	TSP	1132.80

SAMPLE NO. **PE_PM10073020-B606UPWIND** 7/30/2020 *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				
Q0398960	40.0	40.0	40.0	7/30/20 07:00	7/30/20 16:45	585	662.7	PM-10	1132.80

SAMPLE NO. **PE_PM10073020-B606DOWNWIND** 7/30/2020 *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				
Q0398961	40.0	40.0	40.0	7/30/20 07:10	7/30/20 16:35	565	640.0	PM-10	1132.80

SAMPLE NO. **PE-TSP073120-B606UPWIND** 7/31/2020 *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				

845	40.0	40.0	40.0	7/31/20 06:53	7/31/20 16:39	586	663.8	TSP	1132.80

SAMPLE NO. **PE-TSP073120-B606DOWNWIND** 7/31/2020 *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				
846	40.0	40.0	40.0	7/31/20 07:10	7/31/20 16:29	559	633.2	TSP	1132.80

SAMPLE NO. **PE_PM10073120-B606UPWIND** 7/31/2020 *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				
Q0398962	40.0	40.0	40.0	7/31/20 06:53	7/31/20 16:39	586	663.8	PM-10	1132.80

SAMPLE NO. **PE_PM10073120-B606DOWNWIND** 7/31/2020 *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				
Q0398963	40.0	40.0	40.0	7/31/20 07:10	7/31/20 16:29	559	633.2	PM-10	1132.80

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:
CARDNO,APTIM,ETIC
Delivery Instructions:

Signature Type: STANDARD

Tracking #: 549969760

NPS

GARDEN GROVE

570-35217 Waybill

S92841A

24824932

ORC CA927-CL0

Print Date: 8/5/2020 3:20 PM

Package 1 of 2

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: 570-35217-1

Login Number: 35217
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: 570-34429-1
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

Authorized for release by:
8/12/2020 6:04:43 PM
Lori Thompson, Project Manager I
(714)895-5494
Lori.Thompson@eurofinset.com

Designee for

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: 570-34429-1

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

Job ID: 570-34429-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-34429-1

Comments
No additional comments.

Receipt
The samples were received on 7/29/2020 10:10 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
Due to lab's error, Total Suspended Particulates (TSP) was not performed for the requested samples.

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.

Detection Summary

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

Job ID: 570-34429-1

Client Sample ID: PE-ASB072020-B606UPWIND — Lab Sample ID: 570-34429-1

No Detections.

Client Sample ID: PE-ASB072020-B606DOWNWIND — Lab Sample ID: 570-34429-2

No Detections.

Client Sample ID: PE-ASB072120-B606UPWIND — Lab Sample ID: 570-34429-3

No Detections.

Client Sample ID: PE-ASB072120-B606DOWNWIND — Lab Sample ID: 570-34429-4

No Detections.

Client Sample ID: PE-ASB072220-B606UPWIND — Lab Sample ID: 570-34429-5

No Detections.

Client Sample ID: PE-ASB072220-B606DOWNWIND — Lab Sample ID: 570-34429-6

No Detections.

Client Sample ID: PE-ASB072320-B606UPWIND — Lab Sample ID: 570-34429-7

No Detections.

Client Sample ID: PE-ASB072320-B606DOWNWIND — Lab Sample ID: 570-34429-8

No Detections.

Client Sample ID: PE-ASB072420-B606UPWIND — Lab Sample ID: 570-34429-9

No Detections.

Client Sample ID: PE-ASB072420-B606DOWNWIND — Lab Sample ID: 570-34429-10

No Detections.

Client Sample ID: PE-ASB-BLANK-B606UPWIND — Lab Sample ID: 570-34429-11

No Detections.

Client Sample ID: PE-ASB-BLANK-B606DOWNWIND — Lab Sample ID: 570-34429-12

No Detections.

Client Sample ID: PE-TSP072020-B606UPWIND — Lab Sample ID: 570-34429-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.89	J	18.0	6.22	ug/Sample	1		6010B	Total/NA
Lead	12.7		12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	13.8		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE-TSP072020-B606DOWNWIND — Lab Sample ID: 570-34429-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11.2	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	10.8		6.00	3.34	ug/Sample	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-34429-1

Client Sample ID: PE_PM10072020-B606UPWIND — Lab Sample ID: 570-34429-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	25.4		4.86	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE_PM10072020-B606DOWNWIND — Lab Sample ID: 570-34429-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	23.6		4.86	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP072120-B606UPWIND — Lab Sample ID: 570-34429-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.92	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	9.19		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE-TSP072120-B606DOWNWIND — Lab Sample ID: 570-34429-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17.1		12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	19.8		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE_PM10072120-B606UPWIND — Lab Sample ID: 570-34429-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	23.7		4.65	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE_PM10072120-B606DOWNWIND — Lab Sample ID: 570-34429-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	25.9		4.65	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP072220-B606UPWIND — Lab Sample ID: 570-34429-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17.1		12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	46.2		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE-TSP072220-B606DOWNWIND — Lab Sample ID: 570-34429-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19.1		12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	9.80		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE_PM10072220-B606UPWIND — Lab Sample ID: 570-34429-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	13.2		4.49	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE_PM10072220-B606DOWNWIND — Lab Sample ID: 570-34429-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	26.1		4.65	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP072320-B606UPWIND — Lab Sample ID: 570-34429-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.87	J	18.0	6.22	ug/Sample	1		6010B	Total/NA
Lead	17.5		12.0	3.16	ug/Sample	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PE-TSP072320-B606UPWIND (Continued) — Lab Sample ID: 570-34429-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	15.3		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE-TSP072320-B606DOWNWIND — Lab Sample ID: 570-34429-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.03	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	14.4		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE_PM10072320-B606UPWIND — Lab Sample ID: 570-34429-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	14.4		4.69	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE_PM10072320-B606DOWNWIND — Lab Sample ID: 570-34429-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	30.5		4.69	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP072420-B606UPWIND — Lab Sample ID: 570-34429-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14.4		12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	60.0		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE-TSP072420-B606DOWNWIND — Lab Sample ID: 570-34429-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10.5	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	17.0		6.00	3.34	ug/Sample	1		6010B	Total/NA

Client Sample ID: PE_PM10072420-B606UPWIND — Lab Sample ID: 570-34429-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	13.7		4.77	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE_PM10072420-B606DOWNWIND — Lab Sample ID: 570-34429-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	37.5		4.82	NaN	ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP072020-B606UPWIND — **Lab Sample ID: 570-34429-13**
Date Collected: 07/20/20 07:25 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.89	J	18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 10:39	1
Lead	12.7		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 10:39	1
Manganese	13.8		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 10:39	1

Client Sample ID: PE-TSP072020-B606DOWNWIND — **Lab Sample ID: 570-34429-14**
Date Collected: 07/20/20 07:40 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 10:46	1
Lead	11.2	J	12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 10:46	1
Manganese	10.8		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 10:46	1

Client Sample ID: PE-TSP072120-B606UPWIND — **Lab Sample ID: 570-34429-17**
Date Collected: 07/21/20 07:20 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 10:48	1
Lead	4.92	J	12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 10:48	1
Manganese	9.19		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 10:48	1

Client Sample ID: PE-TSP072120-B606DOWNWIND — **Lab Sample ID: 570-34429-18**
Date Collected: 07/21/20 07:30 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:00	1
Lead	17.1		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:00	1
Manganese	19.8		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:00	1

Client Sample ID: PE-TSP072220-B606UPWIND — **Lab Sample ID: 570-34429-21**
Date Collected: 07/15/20 07:16 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:02	1
Lead	17.1		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:02	1
Manganese	46.2		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:02	1

Client Sample ID: PE-TSP072220-B606DOWNWIND — **Lab Sample ID: 570-34429-22**
Date Collected: 07/22/20 07:25 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:04	1
Lead	19.1		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:04	1
Manganese	9.80		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:04	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP072320-B606UPWIND
Date Collected: 07/23/20 07:08
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-34429-25
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.87**	**J**	18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:06	1
Lead	**17.5**		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:06	1
Manganese	**15.3**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:06	1

Client Sample ID: PE-TSP072320-B606DOWNWIND
Date Collected: 07/23/20 07:15
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-34429-26
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:08	1
Lead	**8.03**	**J**	12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:08	1
Manganese	**14.4**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:08	1

Client Sample ID: PE-TSP072420-B606UPWIND
Date Collected: 07/24/20 06:53
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-34429-29
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:11	1
Lead	**14.4**		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:11	1
Manganese	**60.0**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:11	1

Client Sample ID: PE-TSP072420-B606DOWNWIND
Date Collected: 07/24/20 07:10
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Lab Sample ID: 570-34429-30
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 11:13	1
Lead	**10.5**	**J**	12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 11:13	1
Manganese	**17.0**		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 11:13	1

General Chemistry

Client Sample ID: PE_PM10072020-B606UPWIND — **Lab Sample ID: 570-34429-15**
Date Collected: 07/20/20 07:25 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.4		4.86	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072020-B606DOWNWIND — **Lab Sample ID: 570-34429-16**
Date Collected: 07/20/20 07:40 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	23.6		4.86	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072120-B606UPWIND — **Lab Sample ID: 570-34429-19**
Date Collected: 07/21/20 07:20 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	23.7		4.65	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072120-B606DOWNWIND — **Lab Sample ID: 570-34429-20**
Date Collected: 07/21/20 07:30 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.9		4.65	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072220-B606UPWIND — **Lab Sample ID: 570-34429-23**
Date Collected: 07/22/20 07:16 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.2		4.49	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072220-B606DOWNWIND — **Lab Sample ID: 570-34429-24**
Date Collected: 07/22/20 07:25 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.1		4.65	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072320-B606UPWIND — **Lab Sample ID: 570-34429-27**
Date Collected: 07/23/20 07:08 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	14.4		4.69	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072320-B606DOWNWIND — **Lab Sample ID: 570-34429-28**
Date Collected: 07/23/20 07:15 — **Matrix: Air**
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	30.5		4.69	NaN	ug/m3			08/06/20 10:53	1

Client: Aptim Federal Services LLC
Job ID: 570-34429-1
Project/Site: HPNS - Parcel E / 500712

General Chemistry

Client Sample ID: PE_PM10072420-B606UPWIND
Lab Sample ID: 570-34429-31
Date Collected: 07/24/20 06:53
Matrix: Air
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	13.7		4.77	NaN	ug/m3			08/06/20 10:53	1

Client Sample ID: PE_PM10072420-B606DOWNWIND
Lab Sample ID: 570-34429-32
Date Collected: 07/24/20 07:10
Matrix: Air
Date Received: 07/29/20 10:10
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.5		4.82	NaN	ug/m3			08/06/20 10:53	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-85444/1-A
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		08/04/20 06:30	08/04/20 10:31	1
Lead	ND		12.0	3.16	ug/Sample		08/04/20 06:30	08/04/20 10:31	1
Manganese	ND		6.00	3.34	ug/Sample		08/04/20 06:30	08/04/20 10:31	1

Lab Sample ID: LCS 570-85444/2-A
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	570.7		ug/Sample		95	80 - 120
Lead	600	619.2		ug/Sample		103	80 - 120
Manganese	600	603.9		ug/Sample		101	80 - 120

Lab Sample ID: LCSD 570-85444/3-A
Matrix: Air
Analysis Batch: 85616

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	585.8		ug/Sample		98	80 - 120	3	20
Lead	600	616.5		ug/Sample		103	80 - 120	0	20
Manganese	600	604.6		ug/Sample		101	80 - 120	0	20

Lab Sample ID: 570-34429-13 MS
Matrix: Air
Analysis Batch: 85616

Client Sample ID: PE-TSP072020-B606UPWIND
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.89	J	600	590.5		ug/Sample		97	75 - 125
Lead	12.7		600	635.7		ug/Sample		104	75 - 125
Manganese	13.8		600	619.1		ug/Sample		101	75 - 125

Lab Sample ID: 570-34429-13 MSD
Matrix: Air
Analysis Batch: 85616

Client Sample ID: PE-TSP072020-B606UPWIND
Prep Type: Total/NA
Prep Batch: 85444

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.89	J	600	598.1		ug/Sample		99	75 - 125	1	20
Lead	12.7		600	631.2		ug/Sample		103	75 - 125	1	20
Manganese	13.8		600	600.0		ug/Sample		98	75 - 125	3	20

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-86106/1
Matrix: Air
Analysis Batch: 86106

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			08/06/20 10:53	1

Method: PM10 - Particulate Matter (Continued)

Lab Sample ID: 570-34429-15 DU
Matrix: Air
Analysis Batch: 86106

Client Sample ID: PE_PM10072020-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	25.4			25.59		ug/m3				0.6	25

QC Association Summary

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

Job ID: 570-34429-1

Metals

Prep Batch: 85444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-34429-13	PE-TSP072020-B606UPWIND	Total/NA	Air	3050B	
570-34429-14	PE-TSP072020-B606DOWNWIND	Total/NA	Air	3050B	
570-34429-17	PE-TSP072120-B606UPWIND	Total/NA	Air	3050B	
570-34429-18	PE-TSP072120-B606DOWNWIND	Total/NA	Air	3050B	
570-34429-21	PE-TSP072220-B606UPWIND	Total/NA	Air	3050B	
570-34429-22	PE-TSP072220-B606DOWNWIND	Total/NA	Air	3050B	
570-34429-25	PE-TSP072320-B606UPWIND	Total/NA	Air	3050B	
570-34429-26	PE-TSP072320-B606DOWNWIND	Total/NA	Air	3050B	
570-34429-29	PE-TSP072420-B606UPWIND	Total/NA	Air	3050B	
570-34429-30	PE-TSP072420-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-85444/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-85444/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-85444/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-34429-13 MS	PE-TSP072020-B606UPWIND	Total/NA	Air	3050B	
570-34429-13 MSD	PE-TSP072020-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 85616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-34429-13	PE-TSP072020-B606UPWIND	Total/NA	Air	6010B	85444
570-34429-14	PE-TSP072020-B606DOWNWIND	Total/NA	Air	6010B	85444
570-34429-17	PE-TSP072120-B606UPWIND	Total/NA	Air	6010B	85444
570-34429-18	PE-TSP072120-B606DOWNWIND	Total/NA	Air	6010B	85444
570-34429-21	PE-TSP072220-B606UPWIND	Total/NA	Air	6010B	85444
570-34429-22	PE-TSP072220-B606DOWNWIND	Total/NA	Air	6010B	85444
570-34429-25	PE-TSP072320-B606UPWIND	Total/NA	Air	6010B	85444
570-34429-26	PE-TSP072320-B606DOWNWIND	Total/NA	Air	6010B	85444
570-34429-29	PE-TSP072420-B606UPWIND	Total/NA	Air	6010B	85444
570-34429-30	PE-TSP072420-B606DOWNWIND	Total/NA	Air	6010B	85444
MB 570-85444/1-A	Method Blank	Total/NA	Air	6010B	85444
LCS 570-85444/2-A	Lab Control Sample	Total/NA	Air	6010B	85444
LCSD 570-85444/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	85444
570-34429-13 MS	PE-TSP072020-B606UPWIND	Total/NA	Air	6010B	85444
570-34429-13 MSD	PE-TSP072020-B606UPWIND	Total/NA	Air	6010B	85444

General Chemistry

Analysis Batch: 86106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-34429-15	PE_PM10072020-B606UPWIND	Total/NA	Air	PM10	
570-34429-16	PE_PM10072020-B606DOWNWIND	Total/NA	Air	PM10	
570-34429-19	PE_PM10072120-B606UPWIND	Total/NA	Air	PM10	
570-34429-20	PE_PM10072120-B606DOWNWIND	Total/NA	Air	PM10	
570-34429-23	PE_PM10072220-B606UPWIND	Total/NA	Air	PM10	
570-34429-24	PE_PM10072220-B606DOWNWIND	Total/NA	Air	PM10	
570-34429-27	PE_PM10072320-B606UPWIND	Total/NA	Air	PM10	
570-34429-28	PE_PM10072320-B606DOWNWIND	Total/NA	Air	PM10	
570-34429-31	PE_PM10072420-B606UPWIND	Total/NA	Air	PM10	
570-34429-32	PE_PM10072420-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-86106/1	Method Blank	Total/NA	Air	PM10	
570-34429-15 DU	PE_PM10072020-B606UPWIND	Total/NA	Air	PM10	

Lab Chronicle

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

Job ID: 570-34429-1

Client Sample ID: PE-TSP072020-B606UPWIND
Lab Sample ID: 570-34429-13
Date Collected: 07/20/20 07:25
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 10:39	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE-TSP072020-B606DOWNWIND
Lab Sample ID: 570-34429-14
Date Collected: 07/20/20 07:40
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 10:46	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE_PM10072020-B606UPWIND
Lab Sample ID: 570-34429-15
Date Collected: 07/20/20 07:25
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3456 g	4.3613 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10072020-B606DOWNWIND
Lab Sample ID: 570-34429-16
Date Collected: 07/20/20 07:40
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3542 g	4.3688 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072120-B606UPWIND
Lab Sample ID: 570-34429-17
Date Collected: 07/21/20 07:20
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 10:48	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE-TSP072120-B606DOWNWIND
Lab Sample ID: 570-34429-18
Date Collected: 07/21/20 07:30
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:00	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE_PM10072120-B606UPWIND
Lab Sample ID: 570-34429-19
Date Collected: 07/21/20 07:20
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3574 g	4.3727 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10072120-B606DOWNWIND
Lab Sample ID: 570-34429-20
Date Collected: 07/21/20 07:30
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3314 g	4.3481 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072220-B606UPWIND
Lab Sample ID: 570-34429-21
Date Collected: 07/15/20 07:16
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:02	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE-TSP072220-B606DOWNWIND
Lab Sample ID: 570-34429-22
Date Collected: 07/22/20 07:25
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:04	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE_PM10072220-B606UPWIND
Lab Sample ID: 570-34429-23
Date Collected: 07/22/20 07:16
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3336 g	4.3424 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-34429-1

Client Sample ID: PE_PM10072220-B606DOWNWIND
Lab Sample ID: 570-34429-24
Date Collected: 07/22/20 07:25
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3645 g	4.3813 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072320-B606UPWIND
Lab Sample ID: 570-34429-25
Date Collected: 07/23/20 07:08
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:06	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE-TSP072320-B606DOWNWIND
Lab Sample ID: 570-34429-26
Date Collected: 07/23/20 07:15
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:08	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE_PM10072320-B606UPWIND
Lab Sample ID: 570-34429-27
Date Collected: 07/23/20 07:08
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3613 g	4.3705 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10072320-B606DOWNWIND
Lab Sample ID: 570-34429-28
Date Collected: 07/23/20 07:15
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3827 g	4.4022 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP072420-B606UPWIND
Lab Sample ID: 570-34429-29
Date Collected: 07/24/20 06:53
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:11	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

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

Job ID: 570-34429-1

Client Sample ID: PE-TSP072420-B606DOWNWIND

Lab Sample ID: 570-34429-30

Date Collected: 07/24/20 07:10
Matrix: Air
Date Received: 07/29/20 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	85444	08/04/20 06:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			85616	08/04/20 11:13	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: PE_PM10072420-B606UPWIND

Lab Sample ID: 570-34429-31

Date Collected: 07/24/20 06:53
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3933 g	4.4019 g	86106	08/06/20 10:53	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE_PM10072420-B606DOWNWIND

Lab Sample ID: 570-34429-32

Date Collected: 07/24/20 07:10
Matrix: Air
Date Received: 07/29/20 10:10

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	4.3944 g	4.4177 g	86106	08/06/20 10:53	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: 570-34429-1

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: 570-34429-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
PM10	Particulate Matter	40CFR50J	ECL 1
NIOSH 7400 Rev	NIOSH 7400 Rev. 3	NIOSH	EMSL
3050B	Preparation, Metals	SW846	ECL 1

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

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

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: 570-34429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-34429-1	PE-ASB072020-B606UPWIND	Air	07/20/20 07:25	07/29/20 10:10	
570-34429-2	PE-ASB072020-B606DOWNWIND	Air	07/20/20 07:40	07/29/20 10:10	
570-34429-3	PE-ASB072120-B606UPWIND	Air	07/21/20 07:20	07/29/20 10:10	
570-34429-4	PE-ASB072120-B606DOWNWIND	Air	07/21/20 07:30	07/29/20 10:10	
570-34429-5	PE-ASB072220-B606UPWIND	Air	07/22/20 07:16	07/29/20 10:10	
570-34429-6	PE-ASB072220-B606DOWNWIND	Air	07/22/20 07:25	07/29/20 10:10	
570-34429-7	PE-ASB072320-B606UPWIND	Air	07/23/20 07:08	07/29/20 10:10	
570-34429-8	PE-ASB072320-B606DOWNWIND	Air	07/23/20 07:10	07/29/20 10:10	
570-34429-9	PE-ASB072420-B606UPWIND	Air	07/24/20 06:55	07/29/20 10:10	
570-34429-10	PE-ASB072420-B606DOWNWIND	Air	07/24/20 07:10	07/29/20 10:10	
570-34429-11	PE-ASB-BLANK-B606UPWIND	Air	07/24/20 06:55	07/29/20 10:10	
570-34429-12	PE-ASB-BLANK-B606DOWNWIND	Air	07/24/20 07:10	07/29/20 10:10	
570-34429-13	PE-TSP072020-B606UPWIND	Air	07/20/20 07:25	07/29/20 10:10	
570-34429-14	PE-TSP072020-B606DOWNWIND	Air	07/20/20 07:40	07/29/20 10:10	
570-34429-15	PE_PM10072020-B606UPWIND	Air	07/20/20 07:25	07/29/20 10:10	
570-34429-16	PE_PM10072020-B606DOWNWIND	Air	07/20/20 07:40	07/29/20 10:10	
570-34429-17	PE-TSP072120-B606UPWIND	Air	07/21/20 07:20	07/29/20 10:10	
570-34429-18	PE-TSP072120-B606DOWNWIND	Air	07/21/20 07:30	07/29/20 10:10	
570-34429-19	PE_PM10072120-B606UPWIND	Air	07/21/20 07:20	07/29/20 10:10	
570-34429-20	PE_PM10072120-B606DOWNWIND	Air	07/21/20 07:30	07/29/20 10:10	
570-34429-21	PE-TSP072220-B606UPWIND	Air	07/15/20 07:16	07/29/20 10:10	
570-34429-22	PE-TSP072220-B606DOWNWIND	Air	07/22/20 07:25	07/29/20 10:10	
570-34429-23	PE_PM10072220-B606UPWIND	Air	07/22/20 07:16	07/29/20 10:10	
570-34429-24	PE_PM10072220-B606DOWNWIND	Air	07/22/20 07:25	07/29/20 10:10	
570-34429-25	PE-TSP072320-B606UPWIND	Air	07/23/20 07:08	07/29/20 10:10	
570-34429-26	PE-TSP072320-B606DOWNWIND	Air	07/23/20 07:15	07/29/20 10:10	
570-34429-27	PE_PM10072320-B606UPWIND	Air	07/23/20 07:08	07/29/20 10:10	
570-34429-28	PE_PM10072320-B606DOWNWIND	Air	07/23/20 07:15	07/29/20 10:10	
570-34429-29	PE-TSP072420-B606UPWIND	Air	07/24/20 06:53	07/29/20 10:10	
570-34429-30	PE-TSP072420-B606DOWNWIND	Air	07/24/20 07:10	07/29/20 10:10	
570-34429-31	PE_PM10072420-B606UPWIND	Air	07/24/20 06:53	07/29/20 10:10	
570-34429-32	PE_PM10072420-B606DOWNWIND	Air	07/24/20 07:10	07/29/20 10:10	

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: 332013712
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: 07/30/2020 10:00 AM
Analysis Date: 08/05/2020 - 08/06/2020
Collected Date: 07/20/2020 - 07/24/2020

Project: 570-34429 / HPNS - Parcel E / 500712

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-ASB072020-B606UPWIND (570-34429-1) *332013712-0001*		07/20/2020	1120	6.5	100	0.0024	8.28	0.0029	
PE-ASB072020-B606DOWNWIND (570-34429-2) *332013712-0002*		07/20/2020	1070	<5.5	100	0.0025	<7.01	<0.0025	
PE-ASB072120-B606UPWIND (570-34429-3) *332013712-0003*		07/21/2020	1141.68	9.5	100	0.0024	12.1	0.0041	
PE-ASB072120-B606DOWNWIND (570-34429-4) *332013712-0004*		07/21/2020	1095.45	<5.5	100	0.0025	<7.01	<0.0025	
PE-ASB072220-B606UPWIND (570-34429-5) *332013712-0005*		07/22/2020	1031.13	<5.5	100	0.0026	<7.01	<0.0026	
PE-ASB072220-B606DOWNWIND (570-34429-6) *332013712-0006*		07/22/2020	1760	<5.5	100	0.0015	<7.01	<0.0015	Sample pulled for 10% duplicate count.
PE-ASB072320-B606UPWIND (570-34429-7) *332013712-0007*		07/23/2020	1894	15.5	100	0.0014	19.7	0.0040	
PE-ASB072320-B606DOWNWIND (570-34429-8) *332013712-0008*		07/23/2020	1922	<5.5	100	0.0014	<7.01	<0.0014	
PE-ASB072420-B606UPWIND (570-34429-9) *332013712-0009*		07/24/2020	1173.84	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB072420-B606DOWNWIND (570-34429-10) *332013712-0010*		07/24/2020	1123.59	5.5	100	0.0024	7.01	0.0024	
PE-ASB-BLANK-B606UPWIND (570-34429-11) *332013712-0011*		07/24/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-34429-12) *332013712-0012*		07/24/2020		<5.5	100		<7.01		Field Blank
PE-ASB072220-B606DOWNWIND (570-34429-6)		07/20/2020	1760	<5.5	100	0.0015	<7.01	<0.0015	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

Report Amended: 08/12/2020 08:43 AM Replaces amended report from: 08/06/2020 07:40 AM Reason Code: DataEntry-Other (see report comment)

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: 332013712
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: 07/30/2020 10:00 AM
Analysis Date: 08/05/2020 - 08/06/2020
Collected Date: 07/20/2020 - 07/24/2020

Project: 570-34429 / HPNS - Parcel E / 500712

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
332013712-0013									

The results reported have been blank corrected as applicable.

Analyst(s):
Tony Salgado PCM 13

Michael DeCavallas, 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

Report Amended: 08/12/2020 08:43 AM Replaces amended report from: 08/06/2020 07:40 AM Reason Code: DataEntry-Other (see report comment)

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

8/12/2020

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Chang, Terri	Carrier Tracking No(s):	COC No: 570-43302.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: terrichang@eurofinsus.com	State of Origin: California	Page: Page 1 of 2
Company: EMSL Analytical, Inc.		Accreditations Required (See note):		Job #: 570-34429-2
Address: 5431 Industrial Drive,	Due Date Requested: 8/6/2020			
City: Huntington Beach	TAT Requested (days):			
State, Zip: CA, 92649				
Phone:	PO #:			
Email:	WO #:			
Project Name: HPNS - Parcel E / 500712	Project #: ~~57003235~~ 570-34429			
Site:	SSOW#:			

Analysis Requested

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)

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-ASB072020-B606UPWIND (570-34429-1)	7/20/20	07:25 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072020-B606DOWNWIND (570-34429-2)	7/20/20	07:40 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072120-B606UPWIND (570-34429-3)	7/21/20	07:20 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072120-B606DOWNWIND (570-34429-4)	7/21/20	07:30 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072220-B606UPWIND (570-34429-5)	7/22/20	07:16 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072220-B606DOWNWIND (570-34429-6)	7/22/20	07:25 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072320-B606UPWIND (570-34429-7)	7/23/20	07:08 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072320-B606DOWNWIND (570-34429-8)	7/23/20	07:10 Pacific		Air			X	1	please provide standard excel EDD.
PE-ASB072420-B606UPWIND (570-34429-9)	7/24/20	06:55 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
1	Santos, L	07/30/20 9:53	EAS	AE(wi)	7/30/20 1045	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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

APTIM

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

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 017

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

Sample ID Number	Filter 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 7300/6010B)	Flow Rate (L/min.)	Sample Volume (m^3)			
PE-ASB072020-B606UPWIND	CU086007	07/20/20	7:25	G	A	1	PCM			X		2.00	~~56.64~~	~~31.72~~	1.12		
PE-ASB072020-B606DOWNWIND	CU125090	07/20/20	7:40	G	A	1	PCM			X		2.00	~~56.64~~	~~30.30~~	1.07		
PE-ASB072120-B606UPWIND	CU125053	07/21/20	7:20	G	A	1	PCM			X		2.01	~~56.71~~	~~32.04~~	1.14		
PE-ASB072120-B606DOWNWIND	CU125070	07/21/20	7:30	G	A	1	PCM			X		2.01	~~56.64~~	~~30.87~~	1.09		
PE-ASB072220-B606UPWIND	CU086553	07/22/20	7:16	G	A	1	PCM			X		2.01	~~56.71~~	~~29.09~~	1.03		
PE-ASB072220-B606DOWNWIND	CU125100	07/22/20	7:25	G	A	1	PCM			X		2.00	~~56.71~~	~~49.91~~	1.76		
PE-ASB072320-B606UPWIND	CU125050	07/23/20	7:08	G	A	1	PCM			X		2.00	~~56.64~~	~~54.60~~	1.89		
PE-ASB072320-B606DOWNWIND	CU125158	07/23/20	7:10	G	A	1	PCM			X		2.00	~~56.64~~	~~54.43~~	1.92		
PE-ASB072420-B606UPWIND	CU125117	07/24/20	6:55	G	A	1	PCM			X		2.01	~~56.64~~	~~33.16~~	1.17		
PE-ASB072420-B606DOWNWIND	CU125213	07/24/20	7:10	G	A	1	PCM			X		2.01	~~56.64~~	~~31.74~~	1.12		
PE-ASB-BLANK-B606UPWIND	CU125124	07/24/20	6:55	G	A	1	PCM			X			NA				
PE-ASB-BLANK-B606DOWNWIND	CU086581	07/24/20	7:10	G	A	1	PCM			X			NA				
Temperature Blank																	x

ER 8/17/20

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
Edgar Ruiz	7/24/20	1700	Lock and Storage	7/24/20	1700
Lock and Storage	7/28/20	0900	Edgar Ruiz	7/28/20	0900
Edgar Ruiz	7/28/20		Eurofins	7/28/20	1217

Method Codes
C = Composite
G = Grab

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

ABS=Asbestos, PO=Pipe Opening

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 017

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-TSP072020-B606UPWIND	827	07/20/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE-TSP072020-B606DOWNWIND	828	07/20/20	7:40	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE_PM10072020-B606UPWIND	Q0398683	07/20/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	617.376			
PE_PM10072020-B606DOWNWIND	Q0398684	07/20/20	7:40	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
PE-TSP072120-B606UPWIND	836	07/21/20	7:20	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
PE-TSP072120-B606DOWNWIND	829	07/21/20	7:30	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
PE_PM10072120-B606UPWIND	Q0398685	07/21/20	7:20	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
PE_PM10072120-B606DOWNWIND	Q0398686	07/21/20	7:30	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
PE-TSP072220-B606UPWIND	830	7/15/2020	7:16	G	A	1	8X10 EPM Whatman					X	1132.80	668.352			
PE-TSP072220-B606DOWNWIND	831	07/22/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	644.563			
PE_PM10072220-B606UPWIND	Q0398687	07/22/20	7:16	G	A	1	8X10 EPM Whatman				X		1132.80	668.352			
PE_PM10072220-B606DOWNWIND	Q0398691	07/22/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
PE-TSP072320-B606UPWIND	832	07/23/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
PE-TSP072320-B606DOWNWIND	833	07/23/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
PE_PM10072320-B606UPWIND	Q0398689	07/23/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
PE_PM10072320-B606DOWNWIND	Q0398690	07/23/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
PE-TSP072420-B606UPWIND	834	07/24/20	6:53	G	A	2	8X10 EPM Whatman					X	1132.80	628.704			
PE-TSP072420-B606DOWNWIND	835	07/24/20	7:10	G	A	3	8X10 EPM Whatman					X	1132.80	621.907			
PE_PM10072420-B606UPWIND	Q0398952	07/24/20	6:53	G	A	4	8X10 EPM Whatman				X		1132.80	628.704			
PE_PM10072420-B606DOWNWIND	Q0398953	07/24/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	621.907			

AIR MONITORING LOG

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

STATION **COC# 017**

SAMPLE NO. **PE-ASB072020-B606UPWIND** 7/20/2020 *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				
CU086007	2.000	2.000	2.000	7/20/20 07:25	7/20/20 16:45	560	1.12	Asbestos	2.00

SAMPLE NO. **PE-ASB072020-B606DOWNWIND** 7/20/2020 *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				
CU125090	2.000	2.000	2.000	7/20/20 07:40	7/20/20 16:35	535	1.07	Asbestos	2.00

SAMPLE NO. **PE-ASB072120-B606UPWIND** 7/21/2020 *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				
CU125053	2.005	2.005	2.005	7/21/20 07:20	7/21/20 16:48	568	1.14	Asbestos	2.01

SAMPLE NO. **PE-ASB072120-B606DOWNWIND** 7/21/2020 *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				
CU125070	2.005	2.005	2.005	7/21/20 07:30	7/21/20 16:35	545	1.09	Asbestos	2.01

SAMPLE NO. **PE-ASB072220-B606UPWIND** 7/22/2020 *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				
CU086553	2.005	2.005	2.005	7/22/20 07:16	7/22/20 15:49	513	1.03	Asbestos	2.01

SAMPLE NO. **PE-ASB072220-B606DOWNWIND** 7/22/2020 *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				
CU125100	2.000	2.000	2.000	7/22/20 07:25	7/22/20 22:05	880	1.76	Asbestos	2.00

SAMPLE NO. **PE-ASB072320-B606UPWIND** 7/23/2020 *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				
CU125050	2.000	2.000	2.000	7/23/20 07:08	7/23/20 22:55	947	1.89	Asbestos	2.00

SAMPLE NO. **PE-ASB072320-B606DOWNWIND** 7/23/2020 *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				
CU125158	2.000	2.000	2.000	7/23/20 07:10	7/23/20 23:11	961	1.92	Asbestos	2.00

SAMPLE NO.	PE-ASB072420-B606UPWIND			7/24/2020 *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				
CU125117	2.005	2.005	2.005	7/24/20 06:55	7/24/20 16:39	584	1.17	Asbestos	2.01

SAMPLE NO.	PE-ASB072420-B606DOWNWIND			7/24/2020 *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				
CU125213	2.005	2.005	2.005	7/24/20 07:10	7/24/20 16:29	559	1.12	Asbestos	2.01

SAMPLE NO.	PE-ASB-BLANK-B606UPWIND			7/24/2020 *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				
CU125124				7/24/20 06:53			0.0	Asbestos	

SAMPLE NO.	PE-ASB-BLANK-B606DOWNWIND			7/24/2020 *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				
CU086581				7/24/20 07:10			0.0	Asbestos	

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

STATION COC# 017

SAMPLE NO. PE-TSP072020-B606UPWIND 7/20/2020 *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				
827	40.0	40.0	40.0	7/20/20 07:25	7/20/20 16:45	560	634.4	TSP	1132.80

SAMPLE NO. PE-TSP072020-B606DOWNWIND 7/20/2020 *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				
828	40.0	40.0	40.0	7/20/20 07:40	7/20/20 16:35	535	606.0	TSP	1132.80

SAMPLE NO. PE_PM10072020-B606UPWIND 7/20/2020 *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				
Q0398683	40.0	40.0	40.0	7/20/20 07:25	7/20/20 16:45	560	634.4	PM-10	1132.80

SAMPLE NO. PE_PM10072020-B606DOWNWIND 7/20/2020 *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				
Q0398684	40.0	40.0	40.0	7/20/20 07:40	7/20/20 16:35	535	606.0	PM-10	1132.80

SAMPLE NO. PE-TSP072120-B606UPWIND 7/21/2020 *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				
836	40.0	40.0	40.0	7/21/20 07:20	7/21/20 16:45	565	640.0	TSP	1132.80

SAMPLE NO. PE-TSP072120-B606DOWNWIND 7/21/2020 *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				
829	40.0	40.0	40.0	7/21/20 07:30	7/21/20 16:35	545	617.4	TSP	1132.80

SAMPLE NO. PE_PM10072120-B606UPWIND 7/21/2020 *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				
Q0398685	40.0	40.0	40.0	7/21/20 07:20	7/21/20 16:45	565	640.0	PM-10	1132.80

SAMPLE NO. PE_PM10072120-B606DOWNWIND 7/21/2020 *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				
Q0398686	40.0	40.0	40.0	7/21/20 07:30	7/21/20 16:35	545	617.4	PM-10	1132.80

SAMPLE NO. **PE-TSP072220-B606UPWIND** 7/22/2020 *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				
830	40.0	40.0	40.0	7/22/20 07:16	7/22/20 16:40	564	638.9	TSP	1132.80

SAMPLE NO. **PE-TSP072220-B606DOWNWIND** 7/22/2020 *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				
831	40.0	40.0	40.0	7/22/20 07:25	7/22/20 16:30	545	617.4	TSP	1132.80

SAMPLE NO. **PE_PM10072220-B606UPWIND** 7/22/2020 *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				
Q0398687	40.0	40.0	40.0	7/22/20 07:16	7/22/20 16:40	564	638.9	PM-10	1132.80

SAMPLE NO. **PE_PM10072220-B606DOWNWIND** 7/22/2020 *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				
Q0398691	40.0	40.0	40.0	7/22/20 07:25	7/22/20 16:30	545	617.4	PM-10	1132.80

SAMPLE NO. **PE-TSP072320-B606UPWIND** 7/23/2020 *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				
832	40.0	40.0	40.0	7/23/20 07:08	7/23/20 16:48	580	657.0	TSP	1132.80

SAMPLE NO. **PE-TSP072320-B606DOWNWIND** 7/23/2020 *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				
833	40.0	40.0	40.0	7/23/20 07:15	7/23/20 16:40	565	640.0	TSP	1132.80

SAMPLE NO. **PE_PM10072320-B606UPWIND** 7/23/2020 *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				
Q0398689	40.0	40.0	40.0	7/23/20 07:08	7/23/20 16:48	580	657.0	PM-10	1132.80

SAMPLE NO. **PE_PM10072320-B606DOWNWIND** 7/23/2020 *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				
Q0398690	40.0	40.0	40.0	7/23/20 07:15	7/23/20 16:40	565	640.0	PM-10	1132.80

SAMPLE NO. **PE-TSP072420-B606UPWIND** 7/24/2020 *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				

834	40.0	40.0	40.0	7/24/20 06:53	7/24/20 16:39	586	663.8	TSP	1132.80

SAMPLE NO. **PE-TSP072420-B606DOWNWIND** 7/24/2020 *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				
835	40.0	40.0	40.0	7/24/20 07:10	7/24/20 16:29	559	633.2	TSP	1132.80

SAMPLE NO. **PE_PM10072420-B606UPWIND** 7/24/2020 *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				
Q0398952	40.0	40.0	40.0	7/24/20 06:53	7/24/20 16:39	586	663.8	PM-10	1132.80

SAMPLE NO. **PE_PM10072420-B606DOWNWIND** 7/24/2020 *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				
Q0398953	40.0	40.0	40.0	7/24/20 07:10	7/24/20 16:29	559	633.2	PM-10	1132.80

GLS

570-34429 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 #: 549867680

NPS

GARDEN GROVE

S92841A

24354683

ORC CA927-CL0

Print Date: 7/28/2020 2:20 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.

GLS

570-34429 Waybill

Ship From
CAL SCIENCE- CONCORD
ALAN KEMP
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Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-34429-1

Login Number: 34429
List Number: 1
Creator: Ramos, Maribel

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.	True	
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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 570-32472-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Rose Condit

Authorized for release by:
7/16/2020 6:20:21 PM

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

Table of Contents

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

Job ID: 570-32472-1

Job ID: 570-32472-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-32472-1

Comments
No additional comments.

Receipt
The samples were received on 7/3/2020 10:20 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.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): PE-ASB062520-B606UPWIND (570-32472-21) and PE-ASB062520-B606DOWNWIND (570-32472-22). The Filter No. container labels list CU125076, while the COC lists Q0398639. The Filter No. container labels list CU125085, while the COC lists Q0398640.

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

Sample Summary

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

Job ID: 570-32472-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-32472-1	PE-ASB061520-B606UPWIND	Air	06/15/20 07:00	07/03/20 10:20	
570-32472-2	PE-ASB061520-B606DOWNWIND	Air	06/15/20 07:08	07/03/20 10:20	
570-32472-3	PE-ASB061620-B606UPWIND	Air	06/16/20 06:58	07/03/20 10:20	
570-32472-4	PE-ASB061620-B606DOWNWIND	Air	06/16/20 07:07	07/03/20 10:20	
570-32472-5	PE-ASB061720-B606UPWIND	Air	06/17/20 07:04	07/03/20 10:20	
570-32472-6	PE-ASB061720-B606DOWNWIND	Air	06/17/20 07:11	07/03/20 10:20	
570-32472-7	PE-ASB061820-B606UPWIND	Air	06/18/20 07:05	07/03/20 10:20	
570-32472-8	PE-ASB061820-B606DOWNWIND	Air	06/18/20 07:15	07/03/20 10:20	
570-32472-9	PE-ASB061920-B606UPWIND	Air	06/19/20 06:55	07/03/20 10:20	
570-32472-10	PE-ASB061920-B606DOWNWIND	Air	06/19/20 07:06	07/03/20 10:20	
570-32472-11	PE-ASB062020-B606UPWIND	Air	06/20/20 06:58	07/03/20 10:20	
570-32472-12	PE-ASB062020-B606DOWNWIND	Air	06/20/20 07:10	07/03/20 10:20	
570-32472-13	PE-ASB-BLANK-B606UPWIND	Air	06/20/20 07:22	07/03/20 10:20	
570-32472-14	PE-ASB-BLANK-B606DOWNWIND	Air	06/20/20 07:22	07/03/20 10:20	
570-32472-15	PE-ASB062220-B606UPWIND	Air	06/22/20 07:06	07/03/20 10:20	
570-32472-16	PE-ASB062220-B606DOWNWIND	Air	06/22/20 07:15	07/03/20 10:20	
570-32472-17	PE-ASB062320-B606UPWIND	Air	06/23/20 07:00	07/03/20 10:20	
570-32472-18	PE-ASB062320-B606DOWNWIND	Air	06/23/20 07:11	07/03/20 10:20	
570-32472-19	PE-ASB062420-B606UPWIND	Air	06/24/20 07:03	07/03/20 10:20	
570-32472-20	PE-ASB062420-B606DOWNWIND	Air	06/24/20 07:11	07/03/20 10:20	
570-32472-21	PE-ASB062520-B606UPWIND	Air	06/25/20 07:00	07/03/20 10:20	
570-32472-22	PE-ASB062520-B606DOWNWIND	Air	06/25/20 07:08	07/03/20 10:20	
570-32472-23	PE-ASB062620-B606UPWIND	Air	06/26/20 07:00	07/03/20 10:20	
570-32472-24	PE-ASB062620-B606DOWNWIND	Air	06/26/20 07:07	07/03/20 10:20	
570-32472-25	PE-ASB062720-B606UPWIND	Air	06/27/20 07:00	07/03/20 10:20	
570-32472-26	PE-ASB062720-B606DOWNWIND	Air	06/27/20 07:24	07/03/20 10:20	
570-32472-27	PE-ASB062920-B606UPWIND	Air	06/29/20 07:04	07/03/20 10:20	
570-32472-28	PE-ASB062920-B606DOWNWIND	Air	06/29/20 07:11	07/03/20 10:20	
570-32472-29	PE-ASB063020-B606UPWIND	Air	06/30/20 07:30	07/03/20 10:20	
570-32472-30	PE-ASB063020-B606DOWNWIND	Air	06/30/20 07:45	07/03/20 10:20	
570-32472-31	PE-ASB070120-B606UPWIND	Air	07/01/20 07:25	07/03/20 10:20	
570-32472-32	PE-ASB070120-B606DOWNWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32472-33	PE-ASB070220-B606UPWIND	Air	07/02/20 07:25	07/03/20 10:20	
570-32472-34	PE-ASB070220-B606DOWNWIND	Air	07/02/20 07:35	07/03/20 10:20	
570-32472-35	PE-ASB-BLANK-B606UPWIND	Air	06/30/20 07:22	07/03/20 10:20	
570-32472-36	PE-ASB-BLANK-B606DOWNWIND	Air	06/30/20 07:22	07/03/20 10:20	
570-32472-37	PE-ASB-BLANK-B606UPWIND	Air	07/02/20 07:22	07/03/20 10:20	
570-32472-38	PE-ASB-BLANK-B606DOWNWIND	Air	07/02/20 07:22	07/03/20 10:20	

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: 332012070
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: 07/06/2020 10:55 AM
Analysis Date: 07/10/2020 - 07/13/2020
Collected Date:

Project: 570-32472 / HPNS - Parcel E / 500712

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-ASB061520-B606UPWIND (570-32472-1) *332012070-0001*			1402	20.1	100	0.0019	25.6	0.0070	
PE-ASB061520-B606DOWNWIND (570-32472-2) *332012070-0002*			1160	9.1	100	0.0023	11.6	0.0039	
PE-ASB061620-B606UPWIND (570-32472-3) *332012070-0003*			1174	14.1	100	0.0023	18.0	0.0059	
PE-ASB061620-B606DOWNWIND (570-32472-4) *332012070-0004*			1174	22.1	100	0.0023	28.2	0.0092	
PE-ASB061720-B606UPWIND (570-32472-5) *332012070-0005*			1154	6.1	100	0.0023	7.77	0.0026	
PE-ASB061720-B606DOWNWIND (570-32472-6) *332012070-0006*			1158	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB601820-B606UPWIND (570-32472-7) *332012070-0007*			1158	7.1	100	0.0023	9.04	0.0030	
PE-ASB601820-B606DOWNWIND (570-32472-8) *332012070-0008*			1158	6.1	100	0.0023	7.77	0.0026	
PE-ASB061920-B606UPWIND (570-32472-9) *332012070-0009*			1170	11.1	100	0.0023	14.1	0.0047	
PE-ASB061920-B606DOWNWIND (570-32472-10) *332012070-0010*			1170	7.1	100	0.0023	9.04	0.0030	Sample pulled for 10% duplicate count
PE-ASB062020-B606UPWIND (570-32472-11) *332012070-0011*			1174	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062020-B606DOWNWIND (570-32472-12) *332012070-0012*			1170	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB-BLANK-B606UPWIND (570-32472-13) *332012070-0013*				<5.5	100		<7.01		Field Blank

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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

Report Amended: 07/13/2020 01:38 PM Replaces amended report from: 07/13/2020 01:36 PM Reason Code: Client-Samples Added

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: 332012070
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: 07/06/2020 10:55 AM
Analysis Date: 07/10/2020 - 07/13/2020
Collected Date:

Project: 570-32472 / HPNS - Parcel E / 500712

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-ASB-BLANK-B606DOWNWIND (570-32472-14) *332012070-0014*				<5.5	100		<7.01		Field Blank
PE-ASB062220-B606UPWIND (570-32472-15) *332012070-0015*			1150	27.1	100	0.0023	34.5	0.0116	Sample pulled for 10% duplicate count
PE-ASB062220-B606DOWNWIND (570-32472-16) *332012070-0016*			1158	<5.5	100	0.0023	<7.01	<0.0023	Sample pulled for 10% duplicate count
PE-ASB062320-B606UPWIND (570-32472-17) *332012070-0017*			1162	6.1	100	0.0023	7.77	0.0026	
PE-ASB062320-B606DOWNWIND (570-32472-18) *332012070-0018*			1162	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062420-B606UPWIND (570-32472-19) *332012070-0019*			1164	6.1	100	0.0023	7.77	0.0026	
PE-ASB062420-B606DOWNWIND (570-32472-20) *332012070-0020*			1160	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062520-B606UPWIND (570-32472-21) *332012070-0021*			1166	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062520-B606DOWNWIND (570-32472-22) *332012070-0022*			1168	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062620-B606UPWIND (570-32472-23) *332012070-0023*			1152	11.1	100	0.0023	14.1	0.0047	
PE-ASB062620-B606DOWNWIND (570-32472-24) *332012070-0024*			1166	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062720-B606UPWIND (570-32472-25) *332012070-0025*			1168	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB062720-B606DOWNWIND (570-32472-26) *332012070-0026*			1142	12.1	100	0.0024	15.4	0.0052	Sample pulled for 10% duplicate count

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. Measurement of uncertainty available upon request. The results in this report meet all requirements of the NELAC standards unless otherwise noted.
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Customer PO:
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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-ASB062920-B606UPWIND (570-32472-27) *332012070-0027*			1142	6.1	100	0.0024	7.77	0.0026	
PE-ASB062920-B606DOWNWIND (570-32472-28) *332012070-0028*			1154	10.1	100	0.0023	12.9	0.0043	
PE-ASB063020-B606UPWIND (570-32472-29) *332012070-0029*			1090	14.6	100	0.0025	18.6	0.0066	
PE-ASB063020-B606DOWNWIND (570-32472-30) *332012070-0030*			1086	10.1	100	0.0025	12.9	0.0046	
PE-ASB070120-B606UPWIND (570-32472-31) *332012070-0031*			1110	11.1	100	0.0024	14.1	0.0049	
PE-ASB070120-B606DOWNWIND (570-32472-32) *332012070-0032*			1110	7.1	100	0.0024	9.04	0.0031	
PE-ASB070220-B606UPWIND (570-32472-33) *332012070-0033*			1100	<5.5	100	0.0025	<7.01	<0.0025	
PE-ASB070220-B606DOWNWIND (570-32472-34) *332012070-0034*			1106	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB-BLANK-B606UPWIND (570-32472-35) *332012070-0035*				<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-32472-36) *332012070-0036*				<5.5	100		<7.01		Field Blank Sample pulled for 10% duplicate count
PE-ASB-BLANK-B606UPWIND (570-32472-37) *332012070-0037*				<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B606DOWNWIND (570-32472-38) *332012070-0038*				<5.5	100		<7.01		Field Blank

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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

Report Amended: 07/13/2020 01:38 PM Replaces amended report from: 07/13/2020 01:36 PM Reason Code: Client-Samples Added

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: 332012070
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: 07/06/2020 10:55 AM
Analysis Date: 07/10/2020 - 07/13/2020
Collected Date:

Project: 570-32472 / HPNS - Parcel E / 500712

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-ASB061920-B606 DOWNWIND (570-32472-10)DUP *332012070-0039*			1170	<5.5	100	0.0023	<7.01	<0.0023	10% duplicate count
PE-ASB062220-B606 UPWIND (570-32472-15)DUP *332012070-0040*			1150	21.1	100	0.0023	26.9	0.0090	10% duplicate count
PE-ASB062220-B606 DOWNWIND (570-32472-16)DUP *332012070-0041*			1158	<5.5	100	0.0023	<7.01	<0.0023	10% duplicate count
PE-ASB062720-B606 DOWNWIND (570-32472-26)DUP *332012070-0042*			1142	16.6	100	0.0024	21.1	0.0071	10% duplicate count
PE-ASB-BLANK-B606 DOWNWIND (570-32472-36)DUP *332012070-0043*				<5.5	100		<7.01		Field Blank 10% duplicate count

The results reported have been blank corrected as applicable.

Analyst(s):
Brian Magumcia PCM 20 Jeffrey Deboo PCM 23

Michael DeCavallas, Laboratory Manager
or other Approved Signatory

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. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. Results have been blank corrected as applicable. The report reflects the samples as received. 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 = 0.38, 21-50 fibers = 0.23, 51-100 fibers = 0.21. 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

Report Amended: 07/13/2020 01:38 PM Replaces amended report from: 07/13/2020 01:36 PM Reason Code: Client-Samples Added

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

570-32472 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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	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-ASB061520-B606UPWIND	CP822288	06/15/20	7:00	G	A	1	PCM			X			2.00	1.402			
2	PE-ASB061520-B606DOWNWIND	CP822335	06/15/20	7:08	G	A	1	PCM			X			2.00	1.16			
3	PE-ASB061620-B606UPWIND	CP822360	06/16/20	6:58	G	A	1	PCM			X			2.00	1.174			
4	PE-ASB061620-B606DOWNWIND	CP822372	06/16/20	7:07	G	A	1	PCM			X			2.00	1.174			
5	PE-ASB061720-B606UPWIND	CP822129	06/17/20	7:04	G	A	1	PCM			X			2.00	1.154			
6	PE-ASB061720-B606DOWNWIND	CP822140	06/17/20	7:11	G	A	1	PCM			X			2.00	1.158			
7	PE-ASB061820-B606UPWIND	CU125095	06/18/20	7:05	G	A	1	PCM			X			2.00	1.158			
8	PE-ASB061820-B606DOWNWIND	CU125118	06/18/20	7:15	G	A	1	PCM			X			2.00	1.158			
	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: EDDIE KALOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1620

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 Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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	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)			
9	PE-ASB061920-B606UPWIND	CU125115	06/19/20	6:55	G	A	1	PCM			X			2.00	1.17			
10	PE-ASB061920-B606DOWNWIND	CU125137	06/19/20	7:06	G	A	1	PCM			X			2.00	1.17			
11	PE-ASB062020-B606UPWIND	CU125096	06/20/20	6:58	G	A	1	PCM			X			2.00	1.174			
12	PE-ASB062020-B606DOWNWIND	CU125150	06/20/20	7:10	G	A	1	PCM			X			2.00	1.17			
13	PE-ASB-BLANK-B606UPWIND	CU085969	06/20/20	7:22	G	A	1	PCM			X			2.00				
14	PE-ASB-BLANK-B606DOWNWIND	CU125112	06/20/20	7:22	G	A	1	PCM			X			2.00				
15	PE-ASB062220-B606UPWIND	CU125099	06/22/20	7:06	G	A	1	PCM			X			2.00	1.15			
16	PE-ASB062220-B606DOWNWIND	CU125101	06/22/20	7:15	G	A	1	PCM			X			2.00	1.158			
	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: EDDIE KALOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1520

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 Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 3 of 5

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
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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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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	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)	Analyses Requested: Flow Rate (L/min.)	Sample Volume (m^3)			
17	PE-ASB062320-B606UPWIND	CU085979	06/23/20	7:00	G	A	1	PCM			X			2.00	1.162			
18	PE-ASB062320-B606DOWNWIND	CU125144	06/23/20	7:11	G	A	1	PCM			X			2.00	1.162			
19	PE-ASB062420-B606UPWIND	CU085967	06/24/20	7:03	G	A	1	PCM			X			2.00	1.164			
20	PE-ASB062420-B606DOWNWIND	CU125169	06/24/20	7:11	G	A	1	PCM			X			2.00	1.16			
21	PE-ASB062520-B606UPWIND	Q0398639	06/25/20	7:00	G	A	1	PCM			X			2.00	1.166			
22	PE-ASB062520-B606DOWNWIND	Q0398640	06/25/20	7:08	G	A	1	PCM			X			2.00	1.168			
23	PE-ASB062620-B606UPWIND	CU125173	06/26/20	7:00	G	A	1	PCM			X			2.00	1.152			
24	PE-ASB062620-B606DOWNWIND	CU125197	06/26/20	7:07	G	A	1	PCM			X			2.00	1.166			
	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: EDDIE KAHOMBO	Date: 7.2.20 Time: 1800	Received By:	Date: Time:
Relinquished By:	Date: Time:	Received By: Marbel Eii	Date: 7/3/20 Time: 1520

Method Codes
C = Composite G = Grab

Matrix Codes
DW = Drinking Water SO = Soil
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A = Air ABS=Asbestos, PO=Pipe Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 4 of 5

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
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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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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)			
25	PE-ASB062720-B606UPWIND	CU0125102	06/27/20	7:00	G	A	1	PCM			X			2.00	1.168			
26	PE-ASB062720-B606DOWNWIND	CU125108	06/27/20	7:24	G	A	1	PCM			X			2.00	1.142			
27	PE-ASB062920-B606UPWIND	CU086126	06/29/20	7:04	G	A	1	PCM			X			2.00	1.142			
28	PE-ASB062920-B606DOWNWIND	CU125232	06/29/20	7:11	G	A	1	PCM			X			2.00	1.154			
29	PE-ASB063020-B606UPWIND	CU125177	06/30/20	7:30	G	A	1	PCM			X			2.00	1.09			
30	PE-ASB063020-B606DOWNWIND	CU125203	06/30/20	7:45	G	A	1	PCM			X			2.00	1.086			
31	PE-ASB070120-B606UPWIND	CU125222	07/01/20	7:25	G	A	1	PCM			X			2.00	1.11			
32	PE-ASB070120-B606DOWNWIND	CU125091	07/01/20	7:35	G	A	1	PCM			X			2.00	1.11			
	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: EDDIE KAMOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1520

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 Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: 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 7300/6010)	Flow Rate (L/min.)	Sample Volume (m^3)			
33	PE-ASB070220-B606UPWIND	CU125178	07/02/20	7:25	G	A	1	PCM			X			2.00	1.1			
34	PE-ASB070220-B606DOWNWIND	CU085978	07/02/20	7:35	G	A	1	PCM			X			2.00	1.106			
35	PE-ASB-BLANK-B606UPWIND	CU085976	06/30/20	7:22	G	A	1	PCM			X			2.00				
36	PE-ASB-BLANK-B606DOWNWIND	CU125139	06/30/20	7:22	G	A	1	PCM			X			2.00				
37	PE-ASB-BLANK-B606UPWIND	CU125092	07/02/20	7:22	G	A	1	PCM			X			2.00				
38	PE-ASB-BLANK-B606DOWNWIND	CU085982	07/02/20	7:22	G	A	1	PCM			X			2.00				
	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: EDDIE KALOTRO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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 Openning

32472

AIR MONITORING LOG

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

STATION COC# 014

SAMPLE NO. PE-ASB061520-B606UPWIND 6/15/2020 *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				
CP822288	2.0	2.0	2.0	6/15/20 07:00	6/15/20 18:41	701	1.4	Asbestos	2.00

SAMPLE NO. PE-ASB061520-B606DOWNWIND 6/15/2020 *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				
CP822335	2.0	2.0	2.0	6/15/20 07:08	6/15/20 16:48	580	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061620-B606UPWIND 6/16/2020 *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				
CP822360	2.0	2.0	2.0	6/16/20 06:58	6/16/20 16:45	587	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061620-B606DOWNWIND 6/16/2020 *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				
CP822372	2.0	2.0	2.0	6/16/20 07:07	6/16/20 16:54	587	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061720-B606UPWIND 6/17/2020 *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				
CP822129	2.0	2.0	2.0	6/17/20 07:04	6/17/20 16:41	577	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061720-B606DOWNWIND 6/17/2020 *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				
CP822140	2.0	2.0	2.0	6/17/20 07:11	6/17/20 16:50	579	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061820-B606UPWIND 6/18/2020 *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				
CU125095	2.0	2.0	2.0	6/18/20 07:05	6/18/20 16:44	579	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB061820-B606DOWNWIND 6/18/2020 *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				

CU125118	2.0	2.0	2.0	6/18/20 07:15	6/18/20 16:54	579	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB061920-B606UPWIND** 6/19/2020 *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				
CU125115	2.0	2.0	2.0	6/19/20 06:55	6/19/20 16:40	585	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB061920-B606DOWNWIND** 6/19/2020 *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				
CU125137	2.0	2.0	2.0	6/19/20 07:06	6/19/20 16:51	585	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062020-B606UPWIND** 6/20/2020 *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				
CU125096	2.0	2.0	2.0	6/20/20 06:58	6/20/20 16:45	587	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062020-B606DOWNWIND** 6/20/2020 *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				
CU125150	2.0	2.0	2.0	6/20/20 07:10	6/20/20 16:55	585	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 6/20/2020 *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				
CU085969	2.0	2.0	2.0	7/01/20 07:22	7/01/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 6/20/2020 *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				
CU125112	2.0	2.0	2.0	7/01/20 07:22	7/01/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB062220-B606UPWIND** 6/22/2020 *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				
CU125099	2.0	2.0	2.0	6/22/20 07:06	6/22/20 16:41	575	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062220-B606DOWNWIND** 6/22/2020 *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				
CU125101	2.0	2.0	2.0	6/22/20 07:15	6/22/20 16:54	579	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062320-B606UPWIND** 6/23/2020 *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				
CU085979	2.0	2.0	2.0	6/23/20 07:00	6/23/20 16:41	581	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062320-B606DOWNWIND** 6/23/2020 *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				
CU125144	2.0	2.0	2.0	6/23/20 07:11	6/23/20 16:52	581	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062420-B606UPWIND** 6/24/2020 *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				
CU085967	2.0	2.0	2.0	6/24/20 07:03	6/24/20 16:45	582	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062420-B606DOWNWIND** 6/24/2020 *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				
CU125169	2.0	2.0	2.0	6/24/20 07:11	6/24/20 16:51	580	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062520-B606UPWIND** 6/25/2020 *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				
CU125076	2.0	2.0	2.0	6/25/20 07:00	6/25/20 16:43	583	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062520-B606DOWNWIND** 6/25/2020 *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				
CU125085	2.0	2.0	2.0	6/25/20 07:08	6/25/20 16:52	584	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062620-B606UPWIND** 6/26/2020 *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				
CU125173	2.0	2.0	2.0	6/26/20 07:00	6/26/20 16:36	576	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062620-B606DOWNWIND** 6/26/2020 *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				
CU125197	2.0	2.0	2.0	6/26/20 07:07	6/26/20 16:50	583	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB062720-B606UPWIND** 6/27/2020 *Building 606 Upwind*

32472

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				
CU0125102	2.0	2.0	2.0	6/27/20 07:00	6/27/20 16:44	584	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB062720-B606DOWNWIND 6/27/2020 *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				
CU125108	2.0	2.0	2.0	6/27/20 07:24	6/27/20 16:55	571	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB062920-B606UPWIND 6/29/2020 *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				
CU086126	2.0	2.0	2.0	6/29/20 07:04	6/29/20 16:35	571	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB062920-B606DOWNWIND 6/29/2020 *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				
CU125232	2.0	2.0	2.0	6/29/20 07:11	6/29/20 16:48	577	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB063020-B606UPWIND 6/30/2020 *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				
CU125177	2.0	2.0	2.0	6/30/20 07:30	6/30/20 16:35	545	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB063020-B606DOWNWIND 6/30/2020 *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				
CU125203	2.0	2.0	2.0	6/30/20 07:45	6/30/20 16:48	543	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB070120-B606UPWIND 7/1/2020 *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				
CU125222	2.0	2.0	2.0	7/01/20 07:25	7/01/20 16:40	555	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB070120-B606DOWNWIND 7/1/2020 *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				
CU125091	2.0	2.0	2.0	7/01/20 07:35	7/01/20 16:50	555	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB070220-B606UPWIND 7/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM)			RUNNING TIME (HRS)		TOTAL TIME	TOTAL VOL. (std	Analysis	Flow Rate

32472

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU125178	2.0	2.0	2.0	7/02/20 07:25	7/02/20 16:35	550	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB070220-B606DOWNWIND** 7/2/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU085978	2.0	2.0	2.0	7/02/20 07:35	7/02/20 16:48	553	1.1	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 6/30/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU085976	2.0	2.0	2.0	6/30/20 07:22	6/30/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 6/30/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU125139	2.0	2.0	2.0	6/30/20 07:22	6/30/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606UPWIND** 7/2/2020 *Building 606 Upwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU125092	2.0	2.0	2.0	7/02/20 07:22	7/02/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B606DOWNWIND** 7/2/2020 *Building 606 Downwind*

LOT No.	FLOW RATE (CFM) START	FLOW RATE (CFM) STOP	FLOW RATE (CFM) AVERAGE	RUNNING TIME (HRS) START	RUNNING TIME (HRS) STOP	TOTAL TIME (min)	TOTAL VOL. (std m^3)	Analysis	Flow Rate (L/min.)
CU085982	2.0	2.0	2.0	7/02/20 07:22	7/02/20 07:22	0	0.0	Asbestos	2.00

32472

HORM HAHRLT
9253838622
APTIM - ALAMEDA
APTIM FEDERAL SERVICES
ALAMEDA CA 94501

10 LBS

1 OF 1

DWT: 12.6.3

SHIP TO:
TERRI CHANG
714 895-5494
EUROFINS CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE CA 92841-1427

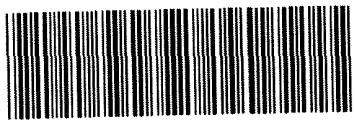
CA 927 9-09

UPS NEXT DAY AIR SAVER 1P

TRACKING #: 1Z 89V 462 13 9348 8432

BILLING: P/P

Charge to Coding: 00701.500712.4701.03012310
Sender's Name: Eddie Kalombo



570-32472 Waybill

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-32472-1

Login Number: 32472
List Number: 1
Creator: Ramos, Maribel

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.	False	Refer to Job Narrative for details.
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
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-33155-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Rose Condit

Authorized for release by:
7/29/2020 3:13:11 PM

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

Table of Contents

Sample Summary

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

Job ID: 570-33155-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-33155-1	PE-ASB070620-B606UPWIND	Air	07/06/20 07:10	07/14/20 10:15	
570-33155-2	PE-ASB070620-B606DOWNWIND	Air	07/06/20 07:26	07/14/20 10:15	
570-33155-3	PE-ASB070720-B606UPWIND	Air	07/07/20 07:00	07/14/20 10:15	
570-33155-4	PE-ASB070720-B606DOWNWIND	Air	07/07/20 07:11	07/14/20 10:15	
570-33155-5	PE-ASB070820-B606UPWIND	Air	07/08/20 07:00	07/14/20 10:15	
570-33155-6	PE-ASB070820-B606DOWNWIND	Air	07/08/20 07:11	07/14/20 10:15	
570-33155-7	PE-ASB070920-B606UPWIND	Air	07/09/20 07:02	07/14/20 10:15	
570-33155-8	PE-ASB070920-B606DOWNWIND	Air	07/09/20 07:10	07/14/20 10:15	
570-33155-9	PE-ASB071020-B606UPWIND	Air	07/10/20 07:01	07/14/20 10:15	
570-33155-10	PE-ASB071020-B606DOWNWIND	Air	07/10/20 07:12	07/14/20 10:15	
570-33155-11	PE-ASB-BLANK-B710UPWIND	Air	07/10/20 07:22	07/14/20 10:15	
570-33155-12	PE-ASB-BLANK-B710DOWNWIND	Air	07/10/20 07:22	07/14/20 10:15	

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: 332012673
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: 07/15/2020 12:10 PM
Analysis Date: 07/29/2020
Collected Date: 07/06/2020 - 07/10/2020

Project: HPNS - Parcel E / 500712 / 570-33155

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-ASB070620-B606UPWIND (570-33155-1) *332012673-0001*		07/06/2020	1140	6	100	0.0024	7.64	0.0026	
PE-ASB070620-B606DOWNWIND (570-33155-2) *332012673-0002*		07/06/2020	1128	<5.5	100	0.0024	<7.01	<0.0024	
PE-ASB070720-B606UPWIND (570-33155-3) *332012673-0003*		07/07/2020	1160	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB070720-B606DOWNWIND (570-33155-4) *332012673-0004*		07/07/2020	1158	7.5	100	0.0023	9.55	0.0032	
PE-ASB070820-B606UPWIND (570-33155-5) *332012673-0005*		07/08/2020	1160	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB070820-B606DOWNWIND (570-33155-6) *332012673-0006*		07/08/2020	1158	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB070920-B606UPWIND (570-33155-7) *332012673-0007*		07/09/2020	1156	6	100	0.0023	7.64	0.0026	
PE-ASB070920-B606DOWNWIND (570-33155-8) *332012673-0008*		07/09/2020	1160	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB071020-B606UPWIND (570-33155-9) *332012673-0009*		07/10/2020	1158	11	100	0.0023	14.0	0.0047	
PE-ASB071020-B606DOWNWIND (570-33155-10) *332012673-0010*		07/10/2020	1156	<5.5	100	0.0023	<7.01	<0.0023	
PE-ASB-BLANK-B710UPWIND (570-33155-11) *332012673-0011*		07/10/2020		<5.5	100		<7.01		Field Blank
PE-ASB-BLANK-B710DOWNWIND (570-33155-12) *332012673-0012*		07/10/2020		<5.5	100		<7.01		Field Blank

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

Report Amended: 07/29/2020 12:48 PM Replaces initial report from: 07/29/2020 07:59 AM Reason Code QA\QC-Other (see report comment)

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: 332012673
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: 07/15/2020 12:10 PM
Analysis Date: 07/29/2020
Collected Date: 07/06/2020 - 07/10/2020

Project: HPNS - Parcel E / 500712 / 570-33155

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-ASB070720-B606DOW NWIND (570-33155-4) DUP		07/07/2020	1158	<5.5	100	0.0023	<7.01	<0.0023	
332012673-0013									

The results reported have been blank corrected as applicable.

Analyst(s):
Alexis Rodriguez PCM 13

Michael DeCavallas, 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.
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Samples analyzed by LA Testing Huntington Beach, CA AIHA-LAP, LLC--IHLAP Accredited #101650

Report Amended: 07/29/2020 12:48 PM Replaces initial report from: 07/29/2020 07:59 AM Reason Code QA\QC-Other (see report comment)

CHAIN OF CUSTODY

APTIM

Ref. Document # CTO 0024 - AIR 015

Page 1 of 2

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

570-33155 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

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 115718
Delivery Date: 7/10/2020
Waybill Number: N/A
Lab Destination: 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	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)			
PE-ASB070620-B606UPWIND	CU086379	07/06/20	7:10	G	A	1	PCM			X			2.00	1.14			
PE-ASB070620-B606DOWNWIND	CU125161	07/06/20	7:26	G	A	1	PCM			X			2.00	1.128			
PE-ASB070720-B606UPWIND	CU125080	07/07/20	7:00	G	A	1	PCM			X			2.00	1.16			
PE-ASB070720-B606DOWNWIND	CU125154	07/07/20	7:11	G	A	1	PCM			X			2.00	1.158			
PE-ASB070820-B606UPWIND	CU125125	07/08/20	7:00	G	A	1	PCM			X			2.00	1.16			
PE-ASB070820-B606DOWNWIND	CU125179	07/08/20	7:11	G	A	1	PCM			X			2.00	1.158			
PE-ASB070920-B606UPWIND	CU125140	07/09/20	7:02	G	A	1	PCM			X			2.00	1.156			
PE-ASB070920-B606DOWNWIND	CU125147	07/09/20	7:10	G	A	1	PCM			X			2.00	1.16			
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: 7/10/20 Time: 16:50
Received By: Lou & Storage Date: 7/10/20 Time: 16:50

Relinquished By: Released from Storage Date: 7/13/20 Time: 0700
Received By: Edgar Ruiz Date: 7/13/20 Time: 0700

Relinquished By: Edgar Ruiz Date: 7/13/20 Time: 0943
Received By: FedEx Date: 0943 Time: 7/13/20

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

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 015

Page 2 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
Delivery Date: 7/10/2020
Waybill Number: N/A
Lab Destination: 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)			
PE-ASB071020-B606UPWIND	CU125084	07/10/20	7:01	G	A	1	PCM			X			**2.00**	**1.158**			
PE-ASB071020-B606DOWNWIND	CU125104	07/10/20	7:12	G	A	1	PCM			X			**2.00**	**1.156**			
PE-ASB-BLANK-B710UPWIND	CU125136	07/10/20	7:22	G	A	1	PCM			X			**2.00**				
PE-ASB-BLANK-B710DOWNWIND	CU125221	07/10/20	7:22	G	A	1	PCM			X			**2.00**				
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: 7/10/20 Time: 16:50
Received By: Lonk 9 Storage Date: 7/10/20 Time: 16:50

Relinquished By: Released from Storage Date: 7/13/20 Time: 0700
Received By: Edgar Ruiz Date: 7/13/20 Time: 0700

Relinquished By: Edgar Ruiz Date: 7/13/20 Time: 0943
Received By: APD ECI Date: 0943 Time: 7/13/20

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= PO=Pipe Openning

7/29/2020

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 #: 549683894

570-33155 Waybill

GARDEN GROVE

S92841A

23478322

ORC CA927-CL0

Print Date: 7/13/2020 2:16 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: 570-33155-1

Login Number: 33155
List Number: 1
Creator: Ramos, Maribel

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: 570-32473-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Rose Condit

Authorized for release by:
7/16/2020 2:03:11 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 570-32473-1

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: 570-32473-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-32473-1

Comments
No additional comments.

Receipt
The samples were received on 7/3/2020 10:20 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.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP061520-B606UPWIND — Lab Sample ID: 570-32473-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	28.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	56.1		4.56		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061520-B606DOWNWIND — Lab Sample ID: 570-32473-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	28.3		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	45.1		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061520-B606UPWIND — Lab Sample ID: 570-32473-3

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.8		4.56		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061520-B606DOWNWIND — Lab Sample ID: 570-32473-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	31.7		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061620-B606UPWIND — Lab Sample ID: 570-32473-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	13.8		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	43.6		4.51		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061620-B606DOWNWIND — Lab Sample ID: 570-32473-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	11.6		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	32.5		4.51		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM06162020-B606UPWIND — Lab Sample ID: 570-32473-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.4		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM06162020-B606DOWNWIND — Lab Sample ID: 570-32473-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	31.7		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061720-B606UPWIND — Lab Sample ID: 570-32473-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	24.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	58.0		4.59		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061720-B606DOWNWIND — Lab Sample ID: 570-32473-10

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	33.1		4.57		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM061720-B606UPWIND — Lab Sample ID: 570-32473-11

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	33.4		4.59		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061720-B606DOWNWIND — Lab Sample ID: 570-32473-12

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	37.7		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061820-B606UPWIND — Lab Sample ID: 570-32473-13

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	27.4		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	75.3		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061820-B606DOWNWIND — Lab Sample ID: 570-32473-14

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	22.5		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	62.5		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061820-B606UPWIND — Lab Sample ID: 570-32473-15

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	50.3		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061820-B606DOWNWIND — Lab Sample ID: 570-32473-16

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	68.5		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP061920-B606UPWIND — Lab Sample ID: 570-32473-17

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	18.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	53.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP061920-B606DOWNWIND — Lab Sample ID: 570-32473-18

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.7		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	38.0		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM061920-B606UPWIND — Lab Sample ID: 570-32473-19

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.3		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM061920-B606DOWNWIND — Lab Sample ID: 570-32473-20

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	40.6		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062020-B606UPWIND — Lab Sample ID: 570-32473-21

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	27.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	42.1		4.51		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP062020-B606DOWNWIND — Lab Sample ID: 570-32473-22

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	7.09		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	17.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062020-B606UPWIND — Lab Sample ID: 570-32473-23

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	23.8		4.51		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062020-B606DOWNWIND — Lab Sample ID: 570-32473-24

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	24.7		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062220-B606UPWIND — Lab Sample ID: 570-32473-25

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	23.4		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	46.8		4.61		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062220-B606DOWNWIND — Lab Sample ID: 570-32473-26

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	33.5		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062220-B606UPWIND — Lab Sample ID: 570-32473-27

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	34.5		4.61		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062220-B606DOWNWIND — Lab Sample ID: 570-32473-28

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	43.3		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062320-B606UPWIND — Lab Sample ID: 570-32473-29

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	18.5		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	37.5		4.56		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062320-B606DOWNWIND — Lab Sample ID: 570-32473-30

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	14.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	27.3		4.56		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062320-B606UPWIND — Lab Sample ID: 570-32473-31

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.3		4.56		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062320-B606DOWNWIND — Lab Sample ID: 570-32473-32

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	33.7		4.56		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP062420-B606UPWIND — Lab Sample ID: 570-32473-33

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	13.6		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	34.4		4.55		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062420-B606DOWNWIND — Lab Sample ID: 570-32473-34

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	15.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	29.7		4.57		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM06420-B606UPWIND — Lab Sample ID: 570-32473-35

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	28.8		4.55		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM06420-B606DOWNWIND — Lab Sample ID: 570-32473-36

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	35.6		4.57		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062520-B606UPWIND — Lab Sample ID: 570-32473-37

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	16.6		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	35.4		4.54		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062520-B606DOWNWIND — Lab Sample ID: 570-32473-38

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	8.35		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	20.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062520-B606UPWIND — Lab Sample ID: 570-32473-39

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	27.3		4.54		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062520-B606DOWNWIND — Lab Sample ID: 570-32473-40

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	30.4		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062620-B606UPWIND — Lab Sample ID: 570-32473-41

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	7.14		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	30.5		4.60		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062620-B606DOWNWIND — Lab Sample ID: 570-32473-42

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	8.57		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	22.9		4.54		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM062620-B606UPWIND — Lab Sample ID: 570-32473-43

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.8		4.60		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062620-B606DOWNWIND — Lab Sample ID: 570-32473-44

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	36.8		4.54		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062720-B606UPWIND — Lab Sample ID: 570-32473-45

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	18.2		12.0		ug/Sample	1		6010B	Total/NA
Manganese	41.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	74.1		4.53		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062720-B606DOWNWIND — Lab Sample ID: 570-32473-46

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.7		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	35.2		4.64		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062720-B606UPWIND — Lab Sample ID: 570-32473-47

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	21.2		4.53		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062720-B606DOWNWIND — Lab Sample ID: 570-32473-48

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	24.0		4.64		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP062920-B606UPWIND — Lab Sample ID: 570-32473-49

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	13.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	61.5		4.64		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP062920-B606DOWNWIND — Lab Sample ID: 570-32473-50

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.9		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	49.1		4.59		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM062920-B606UPWIND — Lab Sample ID: 570-32473-51

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	41.9		4.64		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM062920-B606DOWNWIND — Lab Sample ID: 570-32473-52

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	49.6		4.59		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP063020-B606UPWIND — Lab Sample ID: 570-32473-53

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	17.0		6.00		ug/Sample	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: PE-TSP063020-B606UPWIND (Continued) — Lab Sample ID: 570-32473-53

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	62.2		4.86		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP063020-B606DOWNWIND — Lab Sample ID: 570-32473-54

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.0		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	44.9		4.88		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM063020-B606UPWIND — Lab Sample ID: 570-32473-55

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	42.9		4.86		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM063020-B606DOWNWIND — Lab Sample ID: 570-32473-56

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	100		4.88		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP070120-B606UPWIND — Lab Sample ID: 570-32473-57

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	24.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	66.5		4.77		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP070120-B606DOWNWIND — Lab Sample ID: 570-32473-58

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	9.58		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	35.3		4.77		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM070120-B606UPWIND — Lab Sample ID: 570-32473-59

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	55.7		4.86		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070120-B606DOWNWIND — Lab Sample ID: 570-32473-60

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	40.7		4.77		ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP070220-B606UPWIND — Lab Sample ID: 570-32473-61

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Manganese	10.9		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	27.9		4.61		ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP070220-B606DOWNWIND — Lab Sample ID: 570-32473-62

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Lead	12.5		12.0		ug/Sample	1		6010B	Total/NA
Manganese	15.2		6.00		ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	16.6		4.73		ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM070220-B606UPWIND — Lab Sample ID: 570-32473-63

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	25.9		4.61		ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070220-B606DOWNWIND — Lab Sample ID: 570-32473-64

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	26.8		4.73		ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP061520-B606UPWIND
Date Collected: 06/15/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-1
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:21	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:21	1
Manganese	**28.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:21	1

Client Sample ID: PE-TSP061520-B606DOWNWIND
Date Collected: 06/15/20 07:08
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-2
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:28	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:28	1
Manganese	**28.3**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:28	1

Client Sample ID: PE-TSP061620-B606UPWIND
Date Collected: 06/16/20 06:58
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-5
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:31	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:31	1
Manganese	**13.8**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:31	1

Client Sample ID: PE-TSP061620-B606DOWNWIND
Date Collected: 06/16/20 07:07
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-6
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:34	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:34	1
Manganese	**11.6**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:34	1

Client Sample ID: PE-TSP061720-B606UPWIND
Date Collected: 06/17/20 07:04
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-9
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:48	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:48	1
Manganese	**24.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:48	1

Client Sample ID: PE-TSP061720-B606DOWNWIND
Date Collected: 06/17/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-10
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:51	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:51	1
Manganese	**15.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:51	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP061820-B606UPWIND
Date Collected: 06/18/20 07:05
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-13
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:53	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:53	1
Manganese	**27.4**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:53	1

Client Sample ID: PE-TSP061820-B606DOWNWIND
Date Collected: 06/18/20 07:15
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-14
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:56	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:56	1
Manganese	**22.5**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:56	1

Client Sample ID: PE-TSP061920-B606UPWIND
Date Collected: 06/19/20 06:55
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-17
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:59	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:59	1
Manganese	**18.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:59	1

Client Sample ID: PE-TSP061920-B606DOWNWIND
Date Collected: 06/19/20 07:06
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-18
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:01	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:01	1
Manganese	**15.7**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:01	1

Client Sample ID: PE-TSP062020-B606UPWIND
Date Collected: 06/20/20 06:58
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-21
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:04	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:04	1
Manganese	**27.0**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:04	1

Client Sample ID: PE-TSP062020-B606DOWNWIND
Date Collected: 06/20/20 07:10
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-22
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:07	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:07	1
Manganese	**7.09**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:07	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP062220-B606UPWIND
Date Collected: 06/22/20 07:06
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-25
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:10	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:10	1
Manganese	**23.4**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:10	1

Client Sample ID: PE-TSP062220-B606DOWNWIND
Date Collected: 06/22/20 07:15
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-26
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:12	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:12	1
Manganese	**15.0**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:12	1

Client Sample ID: PE-TSP062320-B606UPWIND
Date Collected: 06/23/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-29
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:26	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:26	1
Manganese	**18.5**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:26	1

Client Sample ID: PE-TSP062320-B606DOWNWIND
Date Collected: 06/23/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-30
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:28	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:28	1
Manganese	**14.2**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:28	1

Client Sample ID: PE-TSP062420-B606UPWIND
Date Collected: 06/24/20 07:03
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-33
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:30	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:30	1
Manganese	**13.6**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:30	1

Client Sample ID: PE-TSP062420-B606DOWNWIND
Date Collected: 06/24/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-34
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:32	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:32	1
Manganese	**15.0**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:32	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP062520-B606UPWIND
Date Collected: 06/25/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-37
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:35	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:35	1
Manganese	**16.6**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:35	1

Client Sample ID: PE-TSP062520-B606DOWNWIND
Date Collected: 06/25/20 07:08
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-38
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 03:37	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 03:37	1
Manganese	**8.35**		6.00		ug/Sample		07/09/20 13:15	07/10/20 03:37	1

Client Sample ID: PE-TSP062620-B606UPWIND
Date Collected: 06/26/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-41
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:30	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:30	1
Manganese	**7.14**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:30	1

Client Sample ID: PE-TSP062620-B606DOWNWIND
Date Collected: 06/26/20 07:07
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-42
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:38	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:38	1
Manganese	**8.57**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:38	1

Client Sample ID: PE-TSP062720-B606UPWIND
Date Collected: 06/27/20 07:00
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-45
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:41	1
Lead	**18.2**		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:41	1
Manganese	**41.0**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:41	1

Client Sample ID: PE-TSP062720-B606DOWNWIND
Date Collected: 06/27/20 07:24
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-46
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:43	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:43	1
Manganese	**10.7**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:43	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP062920-B606UPWIND
Date Collected: 06/29/20 07:04
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-49
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:57	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:57	1
Manganese	**13.2**		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:57	1

Client Sample ID: PE-TSP062920-B606DOWNWIND
Date Collected: 06/29/20 07:11
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-50
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:00	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:00	1
Manganese	**10.9**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:00	1

Client Sample ID: PE-TSP063020-B606UPWIND
Date Collected: 06/30/20 07:30
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-53
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:03	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:03	1
Manganese	**17.0**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:03	1

Client Sample ID: PE-TSP063020-B606DOWNWIND
Date Collected: 06/30/20 07:45
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-54
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:06	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:06	1
Manganese	**10.0**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:06	1

Client Sample ID: PE-TSP070120-B606UPWIND
Date Collected: 07/01/20 07:25
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-57
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:08	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:08	1
Manganese	**24.2**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:08	1

Client Sample ID: PE-TSP070120-B606DOWNWIND
Date Collected: 07/01/20 07:35
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-58
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:11	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:11	1
Manganese	**9.58**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:11	1

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

Job ID: 570-32473-1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP070220-B606UPWIND
Date Collected: 07/02/20 07:10
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-61
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:14	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:14	1
Manganese	**10.9**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:14	1

Client Sample ID: PE-TSP070220-B606DOWNWIND
Date Collected: 07/02/20 07:35
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Lab Sample ID: 570-32473-62
Matrix: Air

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 19:17	1
Lead	**12.5**		12.0		ug/Sample		07/09/20 14:30	07/09/20 19:17	1
Manganese	**15.2**		6.00		ug/Sample		07/09/20 14:30	07/09/20 19:17	1

General Chemistry

Client Sample ID: PE-TSP061520-B606UPWIND — **Lab Sample ID: 570-32473-1**
Date Collected: 06/15/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.1		4.56		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061520-B606DOWNWIND — **Lab Sample ID: 570-32473-2**
Date Collected: 06/15/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.1		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061520-B606UPWIND — **Lab Sample ID: 570-32473-3**
Date Collected: 06/15/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.8		4.56		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061520-B606DOWNWIND — **Lab Sample ID: 570-32473-4**
Date Collected: 06/15/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.7		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP061620-B606UPWIND — **Lab Sample ID: 570-32473-5**
Date Collected: 06/16/20 06:58 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.6		4.51		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061620-B606DOWNWIND — **Lab Sample ID: 570-32473-6**
Date Collected: 06/16/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.5		4.51		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM06162020-B606UPWIND — **Lab Sample ID: 570-32473-7**
Date Collected: 06/16/20 06:58 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.4		4.51		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM06162020-B606DOWNWIND — **Lab Sample ID: 570-32473-8**
Date Collected: 06/16/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.7		4.51		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP061720-B606UPWIND — **Lab Sample ID: 570-32473-9**
Date Collected: 06/17/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.0		4.59		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061720-B606DOWNWIND — **Lab Sample ID: 570-32473-10**
Date Collected: 06/17/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.1		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061720-B606UPWIND — **Lab Sample ID: 570-32473-11**
Date Collected: 06/17/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.4		4.59		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061720-B606DOWNWIND — **Lab Sample ID: 570-32473-12**
Date Collected: 06/17/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	37.7		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP061820-B606UPWIND — **Lab Sample ID: 570-32473-13**
Date Collected: 06/18/20 07:05 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	75.3		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061820-B606DOWNWIND — **Lab Sample ID: 570-32473-14**
Date Collected: 06/18/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.5		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061820-B606UPWIND — **Lab Sample ID: 570-32473-15**
Date Collected: 06/18/20 07:05 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	50.3		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061820-B606DOWNWIND — **Lab Sample ID: 570-32473-16**
Date Collected: 06/18/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	68.5		4.57		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP061920-B606UPWIND — **Lab Sample ID: 570-32473-17**
Date Collected: 06/19/20 06:55 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	53.1		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP061920-B606DOWNWIND — **Lab Sample ID: 570-32473-18**
Date Collected: 06/19/20 07:06 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.0		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM061920-B606UPWIND — **Lab Sample ID: 570-32473-19**
Date Collected: 06/19/20 06:55 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.3		4.53		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM061920-B606DOWNWIND — **Lab Sample ID: 570-32473-20**
Date Collected: 06/19/20 07:06 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.6		4.53		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP062020-B606UPWIND — **Lab Sample ID: 570-32473-21**
Date Collected: 06/20/20 06:58 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.1		4.51		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062020-B606DOWNWIND — **Lab Sample ID: 570-32473-22**
Date Collected: 06/20/20 07:10 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.1		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062020-B606UPWIND — **Lab Sample ID: 570-32473-23**
Date Collected: 06/20/20 06:58 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	23.8		4.51		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062020-B606DOWNWIND — **Lab Sample ID: 570-32473-24**
Date Collected: 06/20/20 07:10 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.7		4.53		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP062220-B606UPWIND — **Lab Sample ID: 570-32473-25**
Date Collected: 06/22/20 07:06 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.8		4.61		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062220-B606DOWNWIND — **Lab Sample ID: 570-32473-26**
Date Collected: 06/22/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.5		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062220-B606UPWIND — **Lab Sample ID: 570-32473-27**
Date Collected: 06/22/20 07:06 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	34.5		4.61		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062220-B606DOWNWIND — **Lab Sample ID: 570-32473-28**
Date Collected: 06/22/20 07:15 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	43.3		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP062320-B606UPWIND — **Lab Sample ID: 570-32473-29**
Date Collected: 06/23/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.5		4.56		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062320-B606DOWNWIND — **Lab Sample ID: 570-32473-30**
Date Collected: 06/23/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.3		4.56		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062320-B606UPWIND — **Lab Sample ID: 570-32473-31**
Date Collected: 06/23/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.3		4.56		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062320-B606DOWNWIND — **Lab Sample ID: 570-32473-32**
Date Collected: 06/23/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.7		4.56		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP062420-B606UPWIND — **Lab Sample ID: 570-32473-33**
Date Collected: 06/24/20 07:03 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.4		4.55		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062420-B606DOWNWIND — **Lab Sample ID: 570-32473-34**
Date Collected: 06/24/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.7		4.57		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM06420-B606UPWIND — **Lab Sample ID: 570-32473-35**
Date Collected: 06/24/20 07:03 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	28.8		4.55		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM06420-B606DOWNWIND — **Lab Sample ID: 570-32473-36**
Date Collected: 06/24/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	35.6		4.57		ug/m3			07/09/20 10:00	1

Client Sample ID: PE-TSP062520-B606UPWIND — **Lab Sample ID: 570-32473-37**
Date Collected: 06/25/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.4		4.54		ug/m3			07/09/20 12:30	1

Client Sample ID: PE-TSP062520-B606DOWNWIND — **Lab Sample ID: 570-32473-38**
Date Collected: 06/25/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.1		4.53		ug/m3			07/09/20 12:30	1

Client Sample ID: APTIMPM062520-B606UPWIND — **Lab Sample ID: 570-32473-39**
Date Collected: 06/25/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	27.3		4.54		ug/m3			07/09/20 10:00	1

Client Sample ID: APTIMPM062520-B606DOWNWIND — **Lab Sample ID: 570-32473-40**
Date Collected: 06/25/20 07:08 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	30.4		4.53		ug/m3			07/09/20 10:00	1

General Chemistry

Client Sample ID: PE-TSP062620-B606UPWIND — **Lab Sample ID: 570-32473-41**
Date Collected: 06/26/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.5		4.60		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP062620-B606DOWNWIND — **Lab Sample ID: 570-32473-42**
Date Collected: 06/26/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.9		4.54		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM062620-B606UPWIND — **Lab Sample ID: 570-32473-43**
Date Collected: 06/26/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.8		4.60		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM062620-B606DOWNWIND — **Lab Sample ID: 570-32473-44**
Date Collected: 06/26/20 07:07 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	36.8		4.54		ug/m3			07/09/20 11:00	1

Client Sample ID: PE-TSP062720-B606UPWIND — **Lab Sample ID: 570-32473-45**
Date Collected: 06/27/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	74.1		4.53		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP062720-B606DOWNWIND — **Lab Sample ID: 570-32473-46**
Date Collected: 06/27/20 07:24 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.2		4.64		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM062720-B606UPWIND — **Lab Sample ID: 570-32473-47**
Date Collected: 06/27/20 07:00 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	21.2		4.53		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM062720-B606DOWNWIND — **Lab Sample ID: 570-32473-48**
Date Collected: 06/27/20 07:24 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	24.0		4.64		ug/m3			07/09/20 11:00	1

General Chemistry

Client Sample ID: PE-TSP062920-B606UPWIND — **Lab Sample ID: 570-32473-49**
Date Collected: 06/29/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.5		4.64		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP062920-B606DOWNWIND — **Lab Sample ID: 570-32473-50**
Date Collected: 06/29/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.1		4.59		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM062920-B606UPWIND — **Lab Sample ID: 570-32473-51**
Date Collected: 06/29/20 07:04 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	41.9		4.64		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM062920-B606DOWNWIND — **Lab Sample ID: 570-32473-52**
Date Collected: 06/29/20 07:11 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	49.6		4.59		ug/m3			07/09/20 11:00	1

Client Sample ID: PE-TSP063020-B606UPWIND — **Lab Sample ID: 570-32473-53**
Date Collected: 06/30/20 07:30 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.2		4.86		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP063020-B606DOWNWIND — **Lab Sample ID: 570-32473-54**
Date Collected: 06/30/20 07:45 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.9		4.88		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM063020-B606UPWIND — **Lab Sample ID: 570-32473-55**
Date Collected: 06/30/20 07:30 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	42.9		4.86		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM063020-B606DOWNWIND — **Lab Sample ID: 570-32473-56**
Date Collected: 06/30/20 07:45 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	100		4.88		ug/m3			07/09/20 11:00	1

General Chemistry

Client Sample ID: PE-TSP070120-B606UPWIND — **Lab Sample ID: 570-32473-57**
Date Collected: 07/01/20 07:25 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.5		4.77		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP070120-B606DOWNWIND — **Lab Sample ID: 570-32473-58**
Date Collected: 07/01/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.3		4.77		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM070120-B606UPWIND — **Lab Sample ID: 570-32473-59**
Date Collected: 07/01/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	55.7		4.86		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM070120-B606DOWNWIND — **Lab Sample ID: 570-32473-60**
Date Collected: 07/01/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	40.7		4.77		ug/m3			07/09/20 11:00	1

Client Sample ID: PE-TSP070220-B606UPWIND — **Lab Sample ID: 570-32473-61**
Date Collected: 07/02/20 07:10 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.9		4.61		ug/m3			07/09/20 13:15	1

Client Sample ID: PE-TSP070220-B606DOWNWIND — **Lab Sample ID: 570-32473-62**
Date Collected: 07/02/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.6		4.73		ug/m3			07/09/20 13:15	1

Client Sample ID: APTIMPM070220-B606UPWIND — **Lab Sample ID: 570-32473-63**
Date Collected: 07/02/20 07:10 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	25.9		4.61		ug/m3			07/09/20 11:00	1

Client Sample ID: APTIMPM070220-B606DOWNWIND — **Lab Sample ID: 570-32473-64**
Date Collected: 07/02/20 07:35 — **Matrix: Air**
Date Received: 07/03/20 10:20
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	26.8		4.73		ug/m3			07/09/20 11:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-80296/1-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80296

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 13:15	07/10/20 02:12	1
Lead	ND		12.0		ug/Sample		07/09/20 13:15	07/10/20 02:12	1
Manganese	ND		6.00		ug/Sample		07/09/20 13:15	07/10/20 02:12	1

Lab Sample ID: LCS 570-80296/2-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			600	589.6		ug/Sample		98	80 - 120		
Lead			600	612.2		ug/Sample		102	80 - 120		
Manganese			600	587.5		ug/Sample		98	80 - 120		

Lab Sample ID: LCSD 570-80296/3-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80296

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			600	539.3		ug/Sample		90	80 - 120	9	20
Lead			600	570.6		ug/Sample		95	80 - 120	7	20
Manganese			600	557.4		ug/Sample		93	80 - 120	5	20

Lab Sample ID: 570-32473-1 MS
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP061520-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		600	619.5		ug/Sample		103	75 - 125		
Lead	ND		600	626.0		ug/Sample		103	75 - 125		
Manganese	28.2		600	625.8		ug/Sample		100	75 - 125		

Lab Sample ID: 570-32473-1 MSD
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP061520-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	612.6		ug/Sample		102	75 - 125	1	20
Lead	ND		600	623.6		ug/Sample		103	75 - 125	0	20
Manganese	28.2		600	623.9		ug/Sample		99	75 - 125	0	20

Lab Sample ID: MB 570-80325/1-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80325

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0		ug/Sample		07/09/20 14:30	07/09/20 18:21	1
Lead	ND		12.0		ug/Sample		07/09/20 14:30	07/09/20 18:21	1
Manganese	ND		6.00		ug/Sample		07/09/20 14:30	07/09/20 18:21	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 570-80325/2-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80325

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			600	493.8		ug/Sample		82	80 - 120		
Lead			600	537.6		ug/Sample		90	80 - 120		
Manganese			600	534.8		ug/Sample		89	80 - 120		

Lab Sample ID: LCSD 570-80325/3-A
Matrix: Air
Analysis Batch: 80434

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80325

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			600	498.9		ug/Sample		83	80 - 120	1	20
Lead			600	534.4		ug/Sample		89	80 - 120	1	20
Manganese			600	538.1		ug/Sample		90	80 - 120	1	20

Lab Sample ID: 570-32473-41 MS
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP062620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		600	529.8		ug/Sample		86	75 - 125		
Lead	ND		600	571.6		ug/Sample		95	75 - 125		
Manganese	7.14		600	563.8		ug/Sample		93	75 - 125		

Lab Sample ID: 570-32473-41 MSD
Matrix: Air
Analysis Batch: 80434

Client Sample ID: PE-TSP062620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 80325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		600	545.4		ug/Sample		89	75 - 125	3	20
Lead	ND		600	581.1		ug/Sample		96	75 - 125	2	20
Manganese	7.14		600	568.0		ug/Sample		93	75 - 125	1	20

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

Lab Sample ID: MB 570-80892/1-A
Matrix: Air
Analysis Batch: 80903

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23		ug/m3			07/09/20 12:30	1

Lab Sample ID: 570-32473-1 DU
Matrix: Air
Analysis Batch: 80903

Client Sample ID: PE-TSP061520-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	56.1			56.07		ug/m3				0	25

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

Lab Sample ID: MB 570-80896/1-A
Matrix: Air
Analysis Batch: 80909

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	ND		1.23		ug/m3			07/09/20 13:15	1

Lab Sample ID: 570-32473-41 DU
Matrix: Air
Analysis Batch: 80909

Client Sample ID: PE-TSP062620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	30.5			30.50		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-80649/1
Matrix: Air
Analysis Batch: 80649

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23		ug/m3			07/09/20 10:00	1

Lab Sample ID: 570-32473-3 DU
Matrix: Air
Analysis Batch: 80649

Client Sample ID: APTIMPM061520-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	27.8			27.80		ug/m3				0	25

Lab Sample ID: MB 570-80659/1
Matrix: Air
Analysis Batch: 80659

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	ND		1.23		ug/m3			07/09/20 11:00	1

Lab Sample ID: 570-32473-43 DU
Matrix: Air
Analysis Batch: 80659

Client Sample ID: APTIMPM062620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	32.8			32.80		ug/m3				0	25

Metals

Prep Batch: 80296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	3050B	
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	3050B	
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	3050B	
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	3050B	
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	3050B	
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	3050B	
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	3050B	
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	3050B	
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	3050B	
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	3050B	
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-80296/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-80296/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-80296/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-32473-1 MS	PE-TSP061520-B606UPWIND	Total/NA	Air	3050B	
570-32473-1 MSD	PE-TSP061520-B606UPWIND	Total/NA	Air	3050B	

Prep Batch: 80325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	3050B	
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	3050B	
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	3050B	
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	3050B	
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	3050B	
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	3050B	
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	3050B	
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-80325/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-80325/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-80325/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-32473-41 MS	PE-TSP062620-B606UPWIND	Total/NA	Air	3050B	
570-32473-41 MSD	PE-TSP062620-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 80434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	6010B	80296

Metals (Continued)

Analysis Batch: 80434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	6010B	80296
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	6010B	80325
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	6010B	80325
MB 570-80296/1-A	Method Blank	Total/NA	Air	6010B	80296
MB 570-80325/1-A	Method Blank	Total/NA	Air	6010B	80325
LCS 570-80296/2-A	Lab Control Sample	Total/NA	Air	6010B	80296
LCS 570-80325/2-A	Lab Control Sample	Total/NA	Air	6010B	80325
LCSD 570-80296/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	80296
LCSD 570-80325/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	80325
570-32473-1 MS	PE-TSP061520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-1 MSD	PE-TSP061520-B606UPWIND	Total/NA	Air	6010B	80296
570-32473-41 MS	PE-TSP062620-B606UPWIND	Total/NA	Air	6010B	80325
570-32473-41 MSD	PE-TSP062620-B606UPWIND	Total/NA	Air	6010B	80325

General Chemistry

Analysis Batch: 80649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-3	APTIMPM061520-B606UPWIND	Total/NA	Air	PM10	
570-32473-4	APTIMPM061520-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-7	APTIMPM06162020-B606UPWIND	Total/NA	Air	PM10	
570-32473-8	APTIMPM06162020-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-11	APTIMPM061720-B606UPWIND	Total/NA	Air	PM10	
570-32473-12	APTIMPM061720-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-15	APTIMPM061820-B606UPWIND	Total/NA	Air	PM10	

General Chemistry (Continued)

Analysis Batch: 80649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-16	APTIMPM061820-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-19	APTIMPM061920-B606UPWIND	Total/NA	Air	PM10	
570-32473-20	APTIMPM061920-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-23	APTIMPM062020-B606UPWIND	Total/NA	Air	PM10	
570-32473-24	APTIMPM062020-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-27	APTIMPM062220-B606UPWIND	Total/NA	Air	PM10	
570-32473-28	APTIMPM062220-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-31	APTIMPM062320-B606UPWIND	Total/NA	Air	PM10	
570-32473-32	APTIMPM062320-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-35	APTIMPM06420-B606UPWIND	Total/NA	Air	PM10	
570-32473-36	APTIMPM06420-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-39	APTIMPM062520-B606UPWIND	Total/NA	Air	PM10	
570-32473-40	APTIMPM062520-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-80649/1	Method Blank	Total/NA	Air	PM10	
570-32473-3 DU	APTIMPM061520-B606UPWIND	Total/NA	Air	PM10	

Analysis Batch: 80659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-43	APTIMPM062620-B606UPWIND	Total/NA	Air	PM10	
570-32473-44	APTIMPM062620-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-47	APTIMPM062720-B606UPWIND	Total/NA	Air	PM10	
570-32473-48	APTIMPM062720-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-51	APTIMPM062920-B606UPWIND	Total/NA	Air	PM10	
570-32473-52	APTIMPM062920-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-55	APTIMPM063020-B606UPWIND	Total/NA	Air	PM10	
570-32473-56	APTIMPM063020-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-59	APTIMPM070120-B606UPWIND	Total/NA	Air	PM10	
570-32473-60	APTIMPM070120-B606DOWNWIND	Total/NA	Air	PM10	
570-32473-63	APTIMPM070220-B606UPWIND	Total/NA	Air	PM10	
570-32473-64	APTIMPM070220-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-80659/1	Method Blank	Total/NA	Air	PM10	
570-32473-43 DU	APTIMPM062620-B606UPWIND	Total/NA	Air	PM10	

Pre Prep Batch: 80892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	Filter to Air	

General Chemistry (Continued)

Pre Prep Batch: 80892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-80892/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-32473-1 DU	PE-TSP061520-B606UPWIND	Total/NA	Air	Filter to Air	

Pre Prep Batch: 80896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	Filter to Air	
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-80896/1-A	Method Blank	Total/NA	Air	Filter to Air	
570-32473-41 DU	PE-TSP062620-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 80903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-1	PE-TSP061520-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-2	PE-TSP061520-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-5	PE-TSP061620-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-6	PE-TSP061620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-9	PE-TSP061720-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-10	PE-TSP061720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-13	PE-TSP061820-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-14	PE-TSP061820-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-17	PE-TSP061920-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-18	PE-TSP061920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-21	PE-TSP062020-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-22	PE-TSP062020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-25	PE-TSP062220-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-26	PE-TSP062220-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-29	PE-TSP062320-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-30	PE-TSP062320-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-33	PE-TSP062420-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-34	PE-TSP062420-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-37	PE-TSP062520-B606UPWIND	Total/NA	Air	40CFR50 App B	80892
570-32473-38	PE-TSP062520-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80892
MB 570-80892/1-A	Method Blank	Total/NA	Air	40CFR50 App B	80892
570-32473-1 DU	PE-TSP061520-B606UPWIND	Total/NA	Air	40CFR50 App B	80892

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

Job ID: 570-32473-1

General Chemistry

Analysis Batch: 80909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-32473-41	PE-TSP062620-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-42	PE-TSP062620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-45	PE-TSP062720-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-46	PE-TSP062720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-49	PE-TSP062920-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-50	PE-TSP062920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-53	PE-TSP063020-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-54	PE-TSP063020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-57	PE-TSP070120-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-58	PE-TSP070120-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-61	PE-TSP070220-B606UPWIND	Total/NA	Air	40CFR50 App B	80896
570-32473-62	PE-TSP070220-B606DOWNWIND	Total/NA	Air	40CFR50 App B	80896
MB 570-80896/1-A	Method Blank	Total/NA	Air	40CFR50 App B	80896
570-32473-41 DU	PE-TSP062620-B606UPWIND	Total/NA	Air	40CFR50 App B	80896

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP061520-B606UPWIND
Lab Sample ID: 570-32473-1
Date Collected: 06/15/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:21	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061520-B606DOWNWIND
Lab Sample ID: 570-32473-2
Date Collected: 06/15/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:28	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061520-B606UPWIND
Lab Sample ID: 570-32473-3
Date Collected: 06/15/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3508 g	4.3691 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061520-B606DOWNWIND
Lab Sample ID: 570-32473-4
Date Collected: 06/15/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3508 g	4.3716 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061620-B606UPWIND
Lab Sample ID: 570-32473-5
Date Collected: 06/16/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:31	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061620-B606DOWNWIND
Lab Sample ID: 570-32473-6
Date Collected: 06/16/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:34	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM06162020-B606UPWIND
Lab Sample ID: 570-32473-7
Date Collected: 06/16/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3526 g	4.3708 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM06162020-B606DOWNWIND
Lab Sample ID: 570-32473-8
Date Collected: 06/16/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3745 g	4.3956 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061720-B606UPWIND
Lab Sample ID: 570-32473-9
Date Collected: 06/17/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:48	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061720-B606DOWNWIND
Lab Sample ID: 570-32473-10
Date Collected: 06/17/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:51	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061720-B606UPWIND
Lab Sample ID: 570-32473-11
Date Collected: 06/17/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3675 g	4.3893 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061720-B606DOWNWIND
Lab Sample ID: 570-32473-12
Date Collected: 06/17/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3480 g	4.3727 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061820-B606UPWIND
Lab Sample ID: 570-32473-13
Date Collected: 06/18/20 07:05
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:53	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061820-B606DOWNWIND
Lab Sample ID: 570-32473-14
Date Collected: 06/18/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:56	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061820-B606UPWIND
Lab Sample ID: 570-32473-15
Date Collected: 06/18/20 07:05
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3538 g	4.3868 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM061820-B606DOWNWIND
Lab Sample ID: 570-32473-16
Date Collected: 06/18/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3597 g	4.4046 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061920-B606UPWIND
Lab Sample ID: 570-32473-17
Date Collected: 06/19/20 06:55
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 02:59	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP061920-B606DOWNWIND
Lab Sample ID: 570-32473-18
Date Collected: 06/19/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:01	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061920-B606UPWIND
Lab Sample ID: 570-32473-19
Date Collected: 06/19/20 06:55
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3190 g	4.3404 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM061920-B606DOWNWIND
Lab Sample ID: 570-32473-20
Date Collected: 06/19/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3500 g	4.3769 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP062020-B606UPWIND
Lab Sample ID: 570-32473-21
Date Collected: 06/20/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:04	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062020-B606DOWNWIND
Lab Sample ID: 570-32473-22
Date Collected: 06/20/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:07	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062020-B606UPWIND
Lab Sample ID: 570-32473-23
Date Collected: 06/20/20 06:58
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3453 g	4.3611 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062020-B606DOWNWIND
Lab Sample ID: 570-32473-24
Date Collected: 06/20/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3466 g	4.3630 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062220-B606UPWIND
Lab Sample ID: 570-32473-25
Date Collected: 06/22/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:10	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062220-B606DOWNWIND
Lab Sample ID: 570-32473-26
Date Collected: 06/22/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:12	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062220-B606UPWIND
Lab Sample ID: 570-32473-27
Date Collected: 06/22/20 07:06
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3468 g	4.3693 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062220-B606DOWNWIND
Lab Sample ID: 570-32473-28
Date Collected: 06/22/20 07:15
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3594 g	4.3878 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062320-B606UPWIND
Lab Sample ID: 570-32473-29
Date Collected: 06/23/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:26	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062320-B606DOWNWIND
Lab Sample ID: 570-32473-30
Date Collected: 06/23/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:28	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062320-B606UPWIND
Lab Sample ID: 570-32473-31
Date Collected: 06/23/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3308 g	4.3488 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062320-B606DOWNWIND
Lab Sample ID: 570-32473-32
Date Collected: 06/23/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3420 g	4.3642 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062420-B606UPWIND
Lab Sample ID: 570-32473-33
Date Collected: 06/24/20 07:03
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062420-B606DOWNWIND
Lab Sample ID: 570-32473-34
Date Collected: 06/24/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:32	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM06420-B606UPWIND
Lab Sample ID: 570-32473-35
Date Collected: 06/24/20 07:03
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3420 g	4.3610 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM06420-B606DOWNWIND
Lab Sample ID: 570-32473-36
Date Collected: 06/24/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3368 g	4.3602 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062520-B606UPWIND
Lab Sample ID: 570-32473-37
Date Collected: 06/25/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:35	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062520-B606DOWNWIND
Lab Sample ID: 570-32473-38
Date Collected: 06/25/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80296	07/09/20 13:15	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/10/20 03:37	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80892	07/09/20 12:00	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80903	07/09/20 12:30	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062520-B606UPWIND
Lab Sample ID: 570-32473-39
Date Collected: 06/25/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3502 g	4.3682 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062520-B606DOWNWIND
Lab Sample ID: 570-32473-40
Date Collected: 06/25/20 07:08
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3630 g	4.3831 g	80649	07/09/20 10:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062620-B606UPWIND
Lab Sample ID: 570-32473-41
Date Collected: 06/26/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:30	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062620-B606DOWNWIND
Lab Sample ID: 570-32473-42
Date Collected: 06/26/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:38	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062620-B606UPWIND
Lab Sample ID: 570-32473-43
Date Collected: 06/26/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3588 g	4.3802 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062620-B606DOWNWIND
Lab Sample ID: 570-32473-44
Date Collected: 06/26/20 07:07
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3454 g	4.3697 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062720-B606UPWIND
Lab Sample ID: 570-32473-45
Date Collected: 06/27/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:41	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062720-B606DOWNWIND
Lab Sample ID: 570-32473-46
Date Collected: 06/27/20 07:24
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:43	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062720-B606UPWIND
Lab Sample ID: 570-32473-47
Date Collected: 06/27/20 07:00
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3780 g	4.3920 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062720-B606DOWNWIND
Lab Sample ID: 570-32473-48
Date Collected: 06/27/20 07:24
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3545 g	4.3700 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062920-B606UPWIND
Lab Sample ID: 570-32473-49
Date Collected: 06/29/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 18:57	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP062920-B606DOWNWIND
Lab Sample ID: 570-32473-50
Date Collected: 06/29/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:00	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: APTIMPM062920-B606UPWIND
Lab Sample ID: 570-32473-51
Date Collected: 06/29/20 07:04
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3557 g	4.3828 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM062920-B606DOWNWIND
Lab Sample ID: 570-32473-52
Date Collected: 06/29/20 07:11
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3224 g	4.3548 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP063020-B606UPWIND
Lab Sample ID: 570-32473-53
Date Collected: 06/30/20 07:30
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:03	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP063020-B606DOWNWIND
Lab Sample ID: 570-32473-54
Date Collected: 06/30/20 07:45
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:06	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM063020-B606UPWIND
Lab Sample ID: 570-32473-55
Date Collected: 06/30/20 07:30
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3430 g	4.3695 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM063020-B606DOWNWIND
Lab Sample ID: 570-32473-56
Date Collected: 06/30/20 07:45
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3360 g	4.3977 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070120-B606UPWIND
Lab Sample ID: 570-32473-57
Date Collected: 07/01/20 07:25
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:08	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070120-B606DOWNWIND
Lab Sample ID: 570-32473-58
Date Collected: 07/01/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:11	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070120-B606UPWIND
Lab Sample ID: 570-32473-59
Date Collected: 07/01/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3375 g	4.3719 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070120-B606DOWNWIND
Lab Sample ID: 570-32473-60
Date Collected: 07/01/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3562 g	4.3818 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-32473-1

Client Sample ID: PE-TSP070220-B606UPWIND
Lab Sample ID: 570-32473-61
Date Collected: 07/02/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:14	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070220-B606DOWNWIND
Lab Sample ID: 570-32473-62
Date Collected: 07/02/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			.08333 Filter	100 mL	80325	07/09/20 14:30	X7RL	ECL 1
Total/NA	Analysis	6010B		1			80434	07/09/20 19:17	OYW3	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					80896	07/09/20 12:15	UAPD	ECL 1
Total/NA	Analysis	40CFR50 App B		1			80909	07/09/20 13:15	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070220-B606UPWIND
Lab Sample ID: 570-32473-63
Date Collected: 07/02/20 07:10
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3645 g	4.3814 g	80659	07/09/20 11:00	UAPD	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070220-B606DOWNWIND
Lab Sample ID: 570-32473-64
Date Collected: 07/02/20 07:35
Matrix: Air
Date Received: 07/03/20 10:20

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	4.3808 g	4.3978 g	80659	07/09/20 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

Accreditation/Certification Summary

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

Job ID: 570-32473-1

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	07-31-20
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: 570-32473-1

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
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

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

Sample Summary

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

Job ID: 570-32473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-32473-1	PE-TSP061520-B606UPWIND	Air	06/15/20 07:00	07/03/20 10:20	
570-32473-2	PE-TSP061520-B606DOWNWIND	Air	06/15/20 07:08	07/03/20 10:20	
570-32473-3	APTIMPM061520-B606UPWIND	Air	06/15/20 07:00	07/03/20 10:20	
570-32473-4	APTIMPM061520-B606DOWNWIND	Air	06/15/20 07:08	07/03/20 10:20	
570-32473-5	PE-TSP061620-B606UPWIND	Air	06/16/20 06:58	07/03/20 10:20	
570-32473-6	PE-TSP061620-B606DOWNWIND	Air	06/16/20 07:07	07/03/20 10:20	
570-32473-7	APTIMPM06162020-B606UPWIND	Air	06/16/20 06:58	07/03/20 10:20	
570-32473-8	APTIMPM06162020-B606DOWNWIND	Air	06/16/20 07:07	07/03/20 10:20	
570-32473-9	PE-TSP061720-B606UPWIND	Air	06/17/20 07:04	07/03/20 10:20	
570-32473-10	PE-TSP061720-B606DOWNWIND	Air	06/17/20 07:11	07/03/20 10:20	
570-32473-11	APTIMPM061720-B606UPWIND	Air	06/17/20 07:04	07/03/20 10:20	
570-32473-12	APTIMPM061720-B606DOWNWIND	Air	06/17/20 07:11	07/03/20 10:20	
570-32473-13	PE-TSP061820-B606UPWIND	Air	06/18/20 07:05	07/03/20 10:20	
570-32473-14	PE-TSP061820-B606DOWNWIND	Air	06/18/20 07:15	07/03/20 10:20	
570-32473-15	APTIMPM061820-B606UPWIND	Air	06/18/20 07:05	07/03/20 10:20	
570-32473-16	APTIMPM061820-B606DOWNWIND	Air	06/18/20 07:15	07/03/20 10:20	
570-32473-17	PE-TSP061920-B606UPWIND	Air	06/19/20 06:55	07/03/20 10:20	
570-32473-18	PE-TSP061920-B606DOWNWIND	Air	06/19/20 07:06	07/03/20 10:20	
570-32473-19	APTIMPM061920-B606UPWIND	Air	06/19/20 06:55	07/03/20 10:20	
570-32473-20	APTIMPM061920-B606DOWNWIND	Air	06/19/20 07:06	07/03/20 10:20	
570-32473-21	PE-TSP062020-B606UPWIND	Air	06/20/20 06:58	07/03/20 10:20	
570-32473-22	PE-TSP062020-B606DOWNWIND	Air	06/20/20 07:10	07/03/20 10:20	
570-32473-23	APTIMPM062020-B606UPWIND	Air	06/20/20 06:58	07/03/20 10:20	
570-32473-24	APTIMPM062020-B606DOWNWIND	Air	06/20/20 07:10	07/03/20 10:20	
570-32473-25	PE-TSP062220-B606UPWIND	Air	06/22/20 07:06	07/03/20 10:20	
570-32473-26	PE-TSP062220-B606DOWNWIND	Air	06/22/20 07:15	07/03/20 10:20	
570-32473-27	APTIMPM062220-B606UPWIND	Air	06/22/20 07:06	07/03/20 10:20	
570-32473-28	APTIMPM062220-B606DOWNWIND	Air	06/22/20 07:15	07/03/20 10:20	
570-32473-29	PE-TSP062320-B606UPWIND	Air	06/23/20 07:00	07/03/20 10:20	
570-32473-30	PE-TSP062320-B606DOWNWIND	Air	06/23/20 07:11	07/03/20 10:20	
570-32473-31	APTIMPM062320-B606UPWIND	Air	06/23/20 07:00	07/03/20 10:20	
570-32473-32	APTIMPM062320-B606DOWNWIND	Air	06/23/20 07:11	07/03/20 10:20	
570-32473-33	PE-TSP062420-B606UPWIND	Air	06/24/20 07:03	07/03/20 10:20	
570-32473-34	PE-TSP062420-B606DOWNWIND	Air	06/24/20 07:11	07/03/20 10:20	
570-32473-35	APTIMPM06420-B606UPWIND	Air	06/24/20 07:03	07/03/20 10:20	
570-32473-36	APTIMPM06420-B606DOWNWIND	Air	06/24/20 07:11	07/03/20 10:20	
570-32473-37	PE-TSP062520-B606UPWIND	Air	06/25/20 07:00	07/03/20 10:20	
570-32473-38	PE-TSP062520-B606DOWNWIND	Air	06/25/20 07:08	07/03/20 10:20	
570-32473-39	APTIMPM062520-B606UPWIND	Air	06/25/20 07:00	07/03/20 10:20	
570-32473-40	APTIMPM062520-B606DOWNWIND	Air	06/25/20 07:08	07/03/20 10:20	
570-32473-41	PE-TSP062620-B606UPWIND	Air	06/26/20 07:00	07/03/20 10:20	
570-32473-42	PE-TSP062620-B606DOWNWIND	Air	06/26/20 07:07	07/03/20 10:20	
570-32473-43	APTIMPM062620-B606UPWIND	Air	06/26/20 07:00	07/03/20 10:20	
570-32473-44	APTIMPM062620-B606DOWNWIND	Air	06/26/20 07:07	07/03/20 10:20	
570-32473-45	PE-TSP062720-B606UPWIND	Air	06/27/20 07:00	07/03/20 10:20	
570-32473-46	PE-TSP062720-B606DOWNWIND	Air	06/27/20 07:24	07/03/20 10:20	
570-32473-47	APTIMPM062720-B606UPWIND	Air	06/27/20 07:00	07/03/20 10:20	
570-32473-48	APTIMPM062720-B606DOWNWIND	Air	06/27/20 07:24	07/03/20 10:20	
570-32473-49	PE-TSP062920-B606UPWIND	Air	06/29/20 07:04	07/03/20 10:20	
570-32473-50	PE-TSP062920-B606DOWNWIND	Air	06/29/20 07:11	07/03/20 10:20	
570-32473-51	APTIMPM062920-B606UPWIND	Air	06/29/20 07:04	07/03/20 10:20	
570-32473-52	APTIMPM062920-B606DOWNWIND	Air	06/29/20 07:11	07/03/20 10:20	
570-32473-53	PE-TSP063020-B606UPWIND	Air	06/30/20 07:30	07/03/20 10:20	

Sample Summary

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

Job ID: 570-32473-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-32473-54	PE-TSP063020-B606DOWNWIND	Air	06/30/20 07:45	07/03/20 10:20	
570-32473-55	APTIMPM063020-B606UPWIND	Air	06/30/20 07:30	07/03/20 10:20	
570-32473-56	APTIMPM063020-B606DOWNWIND	Air	06/30/20 07:45	07/03/20 10:20	
570-32473-57	PE-TSP070120-B606UPWIND	Air	07/01/20 07:25	07/03/20 10:20	
570-32473-58	PE-TSP070120-B606DOWNWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32473-59	APTIMPM070120-B606UPWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32473-60	APTIMPM070120-B606DOWNWIND	Air	07/01/20 07:35	07/03/20 10:20	
570-32473-61	PE-TSP070220-B606UPWIND	Air	07/02/20 07:10	07/03/20 10:20	
570-32473-62	PE-TSP070220-B606DOWNWIND	Air	07/02/20 07:35	07/03/20 10:20	
570-32473-63	APTIMPM070220-B606UPWIND	Air	07/02/20 07:10	07/03/20 10:20	
570-32473-64	APTIMPM070220-B606DOWNWIND	Air	07/02/20 07:35	07/03/20 10:20	

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

570-32473 Chain of Custody

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

	Sample ID Number	Lot 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-TSP061520-B606UPWIND	775	06/15/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	658.157			
2	PE-TSP061520-B606DOWNWIND	776	06/15/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.8	657.024			
3	APTIMPM061520-B606UPWIND	Q0398620	06/15/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	658.157			
4	APTIMPM061520-B606DOWNWIND	Q0398621	06/15/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	657.024			
5	PE-TSP061620-B606UPWIND	777	06/16/20	6:58	G	A	1	8X10 EPM Whatman					X	1132.80	664.954			
6	PE-TSP061620-B606DOWNWIND	778	06/16/20	7:07	G	A	1	8X10 EPM Whatman					X	1132.80	664.954			
7	APTIMPM061620-B606UPWIND	Q039622	06/16/20	6:58	G	A	1	8X10 EPM Whatman				X		1132.80	664.954			
8	APTIMPM061620-B606DOWNWIND	Q0398623	06/16/20	7:07	G	A	1	8X10 EPM Whatman				X		1132.80	664.954			
	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: RAMIE KAWAMBO Date: 7.2.20 Time: 1800

Received By: Date: 7/3/20 Time: 1020

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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 Openning

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7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): EKK

	Sample ID Number	Lot 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)			
9	PE-TSP061720-B606UPWIND	779	06/17/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.8	653.626			
10	PE-TSP061720-B606DOWNWIND	780	06/17/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	655.891			
11	APTIMPM061720-B606UPWIND	Q0398624	06/17/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.8	653.626			
12	APTIMPM061720-B606DOWNWIND	Q0398626	06/17/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	655.891			
13	PE-TSP061820-B606UPWIND	781	06/18/20	7:05	G	A	1	8X10 EPM Whatman					X	1132.8	655.891			
14	PE-TSP061820-B606DOWNWIND	782	06/18/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
15	APTIMPM061820-B606UPWIND	Q0398627	06/18/20	7:05	G	A	1	8X10 EPM Whatman				X		1132.80	655.891			
16	APTIMPM061820-B606DOWNWIND	Q0398642	06/18/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	655.891			
	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: EDDIE KAHOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1030

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 Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 3 of 8

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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): EKK

	Sample ID Number	Lot 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)			
17	PE-TSP061920-B606UPWIND	783	06/19/20	6:55	G	A	1	8X10 EPM Whatman					X	1132.80	662.688			
18	PE-TSP061920-B606DOWNWIND	784	06/19/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.80	662.688			
19	APTIMPM061920-B606UPWIND	Q0398629	06/19/20	6:55	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
20	APTIMPM061920-B606DOWNWIND	Q0398630	06/19/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
21	PE-TSP062020-B606UPWIND	785	06/20/20	6:58	G	A	1	8X10 EPM Whatman					X	1132.80	664.954			
22	PE-TSP062020-B606DOWNWIND	786	06/20/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	662.688			
23	APTIMPM062020-B606UPWIND	Q0398631	06/20/20	6:58	G	A	1	8X10 EPM Whatman				X		1132.80	664.954			
24	APTIMPM062020-B606DOWNWIND	Q0398632	06/20/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	662.688			
	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: EDDIE KAHOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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 Openning

7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): EKK

	Sample ID Number	Lot 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)			
25	PE-TSP062220-B606UPWIND	787	06/22/20	7:06	G	A	1	8X10 EPM Whatman					X	1132.80	651.36			
26	PE-TSP062220-B606DOWNWIND	788	06/22/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
27	APTIMPM062220-B606UPWIND	Q0398633	06/22/20	7:06	G	A	1	8X10 EPM Whatman				X		1132.80	651.36			
28	APTIMPM062220-B606DOWNWIND	Q0398634	06/22/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	655.891			
29	PE-TSP062320-B606UPWIND	789	06/23/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	658.157			
30	PE-TSP062320-B606DOWNWIND	790	06/23/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	658.157			
31	APTIMPM062320-B606UPWIND	Q0398635	06/23/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	658.157			
32	APTIMPM062320-B606DOWNWIND	Q0398636	06/23/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	658.157			
	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: EDDIE KAMOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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 Openning

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7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
Address: *4005 Port Chicago Hwy*
City: *Concord, CA 94520*
edgar.ruiz@aptim.com

Sampler's Name(s): EKK

	Sample ID Number	Lot 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)			
33	PE-TSP062420-B606UPWIND	791	06/24/20	7:03	G	A	1	8X10 EPM Whatman					X	1132.80	659.29			
34	PE-TSP062420-B606DOWNWIND	792	06/24/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
35	APTIMPM062420-B606UPWIND	Q0398637	06/24/20	7:03	G	A	1	8X10 EPM Whatman				X		1132.80	659.29			
36	APTIMPM062420-B606DOWNWIND	Q0398638	06/24/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	657.02			
37	PE-TSP062520-B606UPWIND	793	06/25/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	660.42			
38	PE-TSP062520-B606DOWNWIND	794	06/25/20	7:08	G	A	1	8X10 EPM Whatman					X	1132.80	661.56			
39	APTIMPM062520-B606UPWIND	Q0398639	06/25/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	660.42			
40	APTIMPM062520-B606DOWNWIND	Q0398640	06/25/20	7:08	G	A	1	8X10 EPM Whatman				X		1132.80	661.56			
	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: EDDIE KAMOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1520

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 Openning

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

Page 6 of 8

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

	Sample ID Number	Lot 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)			
41	PE-TSP062620-B606UPWIND	795	06/26/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	652.493			
42	PE-TSP062620-B606DOWNWIND	796	06/26/20	7:07	G	A	1	8X10 EPM Whatman					X	1132.8	660.422			
43	APTIMPM062620-B606UPWIND	Q0398641	06/26/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	652.493			
44	APTIMPM062620-B606DOWNWIND	Q0398642	06/26/20	7:07	G	A	1	8X10 EPM Whatman				X		1132.80	660.422			
45	PE-TSP062720-B606UPWIND	797	06/27/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	661.555			
46	PE-TSP062720-B606DOWNWIND	798	06/27/20	7:24	G	A	1	8X10 EPM Whatman					X	1132.80	646.829			
47	APTIMPM062720-B606UPWIND	Q0398653	06/27/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	661.555			
48	APTIMPM062720-B606DOWNWIND	Q0398654	06/27/20	7:24	G	A	1	8X10 EPM Whatman				X		1132.80	646.829			
	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: EDDIE KALOMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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 Openning

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7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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 #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

	Sample ID Number	Lot 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															
49	PE-TSP062920-B606UPWIND	799	06/29/20	7:04	G	A	1	8X10 EPM Whatman					X	1132.8	646.829			
50	PE-TSP062920-B606DOWNWIND	800	06/29/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	653.626			
51	APTIMPM062920-B606UPWIND	Q0398655	06/29/20	7:04	G	A	1	8X10 EPM Whatman				X		1132.8	646.829			
52	APTIMPM062920-B606DOWNWIND	Q0398656	06/29/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	653.626			
53	PE-TSP063020-B606UPWIND	801	06/30/20	7:30	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
54	PE-TSP063020-B606DOWNWIND	802	06/30/20	7:45	G	A	1	8X10 EPM Whatman					X	1132.80	615.11			
55	APTIMPM063020-B606UPWIND	Q0398657	06/30/20	7:30	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
56	APTIMPM063020-B606DOWNWIND	Q0398658	06/30/20	7:45	G	A	1	8X10 EPM Whatman				X		1132.80	615.11			
	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: EDDIE KAHOMOO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/3/20 Time: 1020

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 Openning

7/16/2020

APTIM

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 014

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

Project Manager: *Nels Johnson*

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 7/2/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *415.987.0760*
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: 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)			
57	PE-TSP070120-B606UPWIND	804	07/01/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	628.704			
58	PE-TSP070120-B606DOWNWIND	803	07/01/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.80	628.704			
59	APTIMPM070120-B606UPWIND	Q0398660	07/01/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
60	APTIMPM070120-B606DOWNWIND	Q0398659	07/01/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	628.704			
61	PE-TSP070220-B606UPWIND	805	07/02/20	7:10	G	A	1	8X10 EPM Whatman					X	1132.80	651.36			
62	PE-TSP070220-B606DOWNWIND	806	07/02/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.80	634.368			
63	APTIMPM070220-B606UPWIND	Q0398661	07/02/20	7:10	G	A	1	8X10 EPM Whatman				X		1132.80	651.36			
64	APTIMPM070220-B606DOWNWIND	Q0398662	07/02/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	634.368			
	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: EDDIE KAMBO Date: 7.2.20 Time: 1800

Received By: Date: Time:

Relinquished By: Date: Time:

Received By: Date: 7/2/20 Time: 1630

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 Openning

7/16/2020

32473

AIR MONITORING LOG

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

STATION COC# 014

SAMPLE NO. PE-TSP061520-B606UPWIND 6/15/2020 *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				
775	40.0	40.0	40.0	6/15/20 07:00	6/15/20 16:41	581	658.2	TSP	1132.80

SAMPLE NO. PE-TSP061520-B606DOWNWIND 6/15/2020 *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				
776	40.0	40.0	40.0	6/15/20 07:08	6/15/20 16:48	580	657.0	TSP	1132.80

SAMPLE NO. APTIMPM061520-B606UPWIND 6/15/2020 *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				
Q0398620	40.0	40.0	40.0	6/15/20 07:00	6/15/20 16:41	581	658.2	PM-10	1132.80

SAMPLE NO. APTIMPM061520-B606DOWNWIND 6/15/2020 *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				
Q0398621	40.0	40.0	40.0	6/15/20 07:08	6/15/20 16:48	580	657.0	PM-10	1132.80

SAMPLE NO. PE-TSP061620-B606UPWIND 6/16/2020 *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				
777	40.0	40.0	40.0	6/16/20 06:58	6/16/20 16:45	587	665.0	TSP	1132.80

SAMPLE NO. PE-TSP061620-B606DOWNWIND 6/16/2020 *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				
778	40.0	40.0	40.0	6/16/20 07:07	6/16/20 16:54	587	665.0	TSP	1132.80

SAMPLE NO. APTIMPM061620-B606UPWIND 6/16/2020 *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				
Q039622	40.0	40.0	40.0	6/16/20 06:58	6/16/20 16:45	587	665.0	PM-10	1132.80

SAMPLE NO. APTIMPM061620-B606DOWNWIND 6/16/2020 *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				
Q0398623	40.0	40.0	40.0	6/16/20 07:07	6/16/20 16:54	587	665.0	PM-10	1132.80

SAMPLE NO. PE-TSP061720-B606UPWIND 6/17/2020 *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				
779	40.0	40.0	40.0	6/17/20 07:04	6/17/20 16:41	577	653.6	TSP	1132.80

SAMPLE NO. **PE-TSP061720-B606DOWNWIND** 6/17/2020 *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				
780	40.0	40.0	40.0	6/17/20 07:11	6/17/20 16:50	579	655.9	TSP	1132.80

SAMPLE NO. **APTIMPM061720-B606UPWIND** 6/17/2020 *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				
Q0398624	40.0	40.0	40.0	6/17/20 07:04	6/17/20 16:41	577	653.6	PM-10	1132.80

SAMPLE NO. **APTIMPM061720-B606DOWNWIND** 6/17/2020 *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				
Q0398626	40.0	40.0	40.0	6/17/20 07:11	6/17/20 16:50	579	655.9	PM-10	1132.80

SAMPLE NO. **PE-TSP061820-B606UPWIND** 6/18/2020 *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				
781	40.0	40.0	40.0	6/18/20 07:05	6/18/20 16:44	579	655.9	TSP	1132.80

SAMPLE NO. **PE-TSP061820-B606DOWNWIND** 6/18/2020 *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				
782	40.0	40.0	40.0	6/18/20 07:15	6/18/20 16:54	579	655.9	TSP	1132.80

SAMPLE NO. **APTIMPM061820-B606UPWIND** 6/18/2020 *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				
Q0398627	40.0	40.0	40.0	6/18/20 07:05	6/18/20 16:44	579	655.9	PM-10	1132.80

SAMPLE NO. **APTIMPM061820-B606DOWNWIND** 6/18/2020 *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				
Q0398642	40.0	40.0	40.0	6/18/20 07:15	6/18/20 16:54	579	655.9	PM-10	1132.80

SAMPLE NO. **PE-TSP061920-B606UPWIND** 6/19/2020 *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				
783	40.0	40.0	40.0	6/19/20 06:55	6/19/20 16:40	585	662.7	TSP	1132.80

SAMPLE NO. **PE-TSP061920-B606DOWNWIND** 6/19/2020 *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				
784	40.0	40.0	40.0	6/19/20 07:06	6/19/20 16:51	585	662.7	TSP	1132.80

SAMPLE NO. **APTIMPM061920-B606UPWIND** 6/19/2020 *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				
Q0398629	40.0	40.0	40.0	6/19/20 06:55	6/19/20 16:40	585	662.7	PM-10	1132.80

SAMPLE NO. **APTIMPM061920-B606DOWNWIND** 6/19/2020 *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				
Q0398630	40.0	40.0	40.0	6/19/20 07:06	6/19/20 16:51	585	662.7	PM-10	1132.80

SAMPLE NO. **PE-TSP062020-B606UPWIND** 6/20/2020 *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				
785	40.0	40.0	40.0	6/20/20 06:58	6/20/20 16:45	587	665.0	TSP	1132.80

SAMPLE NO. **PE-TSP062020-B606DOWNWIND** 6/20/2020 *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				
786	40.0	40.0	40.0	6/20/20 07:10	6/20/20 16:55	585	662.7	TSP	1132.80

SAMPLE NO. **APTIMPM062020-B606UPWIND** 6/20/2020 *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				
Q0398631	40.0	40.0	40.0	6/20/20 06:58	6/20/20 16:45	587	665.0	PM-10	1132.80

SAMPLE NO. **APTIMPM062020-B606DOWNWIND** 6/20/2020 *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				
Q0398632	40.0	40.0	40.0	6/20/20 07:10	6/20/20 16:55	585	662.7	PM-10	1132.80

SAMPLE NO. **PE-TSP062220-B606UPWIND** 6/22/2020 *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				
787	40.0	40.0	40.0	6/22/20 07:06	6/22/20 16:41	575	651.4	TSP	1132.80

SAMPLE NO. **PE-TSP062220-B606DOWNWIND** 6/22/2020 *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				
788	40.0	40.0	40.0	6/22/20 07:15	6/22/20 16:54	579	655.9	TSP	1132.80

SAMPLE NO. **APTIMPM062220-B606UPWIND** 6/22/2020 *Building 606 Upwind*

32473

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				
Q0398633	40.0	40.0	40.0	6/22/20 07:06	6/22/20 16:41	575	651.4	PM-10	1132.80

SAMPLE NO. **APTIMPM062220-B606DOWNWIND** 6/22/2020 *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				
Q0398634	40.0	40.0	40.0	6/22/20 07:15	6/22/20 16:54	579	655.9	PM-10	1132.80

SAMPLE NO. **PE-TSP062320-B606UPWIND** 6/23/2020 *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				
789	40.0	40.0	40.0	6/23/20 07:00	6/23/20 16:41	581	658.2	TSP	1132.80

SAMPLE NO. **PE-TSP062320-B606DOWNWIND** 6/23/2020 *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				
790	40.0	40.0	40.0	6/23/20 07:11	6/23/20 16:52	581	658.2	TSP	1132.80

SAMPLE NO. **APTIMPM062320-B606UPWIND** 6/23/2020 *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				
Q0398635	40.0	40.0	40.0	6/23/20 07:00	6/23/20 16:41	581	658.2	PM-10	1132.80

SAMPLE NO. **APTIMPM062320-B606DOWNWIND** 6/23/2020 *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				
Q0398636	40.0	40.0	40.0	6/23/20 07:11	6/23/20 16:52	581	658.2	PM-10	1132.80

SAMPLE NO. **PE-TSP062420-B606UPWIND** 6/24/2020 *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				
791	40.0	40.0	40.0	6/24/20 07:03	6/24/20 16:45	582	659.3	TSP	1132.80

SAMPLE NO. **PE-TSP062420-B606DOWNWIND** 6/24/2020 *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				
792	40.0	40.0	40.0	6/24/20 07:11	6/24/20 16:51	580	657.0	TSP	1132.80

SAMPLE NO. **APTIMPM062420-B606UPWIND** 6/24/2020 *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				
Q0398637	40.0	40.0	40.0	6/24/20 07:03	6/24/20 16:45	582	659.3	PM-10	1132.80

SAMPLE NO. **APTIMPM062420-B606DOWNWIND** 6/24/2020 *Building 606 Downwind*

32473

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				
Q0398638	40.0	40.0	40.0	6/24/20 07:11	6/24/20 16:51	580	657.0	PM-10	1132.80

SAMPLE NO. **PE-TSP062520-B606UPWIND** 6/25/2020 *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				
793	40.0	40.0	40.0	6/25/20 07:00	6/25/20 16:43	583	660.4	TSP	1132.80

SAMPLE NO. **PE-TSP062520-B606DOWNWIND** 6/25/2020 *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				
794	40.0	40.0	40.0	6/25/20 07:08	6/25/20 16:52	584	661.6	TSP	1132.80

SAMPLE NO. **APTIMPM062520-B606UPWIND** 6/25/2020 *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				
Q0398639	40.0	40.0	40.0	6/25/20 07:00	6/25/20 16:43	583	660.4	PM-10	1132.80

SAMPLE NO. **APTIMPM062520-B606DOWNWIND** 6/25/2020 *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				
Q0398640	40.0	40.0	40.0	6/25/20 07:08	6/25/20 16:52	584	661.6	PM-10	1132.80

AIR MONITORING LOG

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

STATION COC# 014

SAMPLE NO. PE-TSP062620-B606UPWIND 6/26/2020 *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				
795	40.0	40.0	40.0	6/26/20 07:00	6/26/20 16:36	576	652.5	TSP	1132.80

SAMPLE NO. PE-TSP062620-B606DOWNWIND 6/26/2020 *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				
796	40.0	40.0	40.0	6/26/20 07:07	6/26/20 16:50	583	660.4	TSP	1132.80

SAMPLE NO. APTIMPM062620-B606UPWIND 6/26/2020 *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				
Q0398641	40.0	40.0	40.0	6/26/20 07:00	6/26/20 16:36	576	652.5	PM-10	1132.80

SAMPLE NO. APTIMPM062620-B606DOWNWIND 6/26/2020 *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				
Q0398642	40.0	40.0	40.0	6/26/20 07:07	6/26/20 16:50	583	660.4	PM-10	1132.80

SAMPLE NO. PE-TSP062720-B606UPWIND 6/27/2020 *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				
797	40.0	40.0	40.0	6/27/20 07:00	6/27/20 16:44	584	661.6	TSP	1132.80

SAMPLE NO. PE-TSP062720-B606DOWNWIND 6/27/2020 *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				
798	40.0	40.0	40.0	6/27/20 07:24	6/27/20 16:55	571	646.8	TSP	1132.80

SAMPLE NO. APTIMPM062720-B606UPWIND 6/27/2020 *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				
Q0398653	40.0	40.0	40.0	6/27/20 07:00	6/27/20 16:44	584	661.6	PM-10	1132.80

SAMPLE NO. APTIMPM062720-B606DOWNWIND 6/27/2020 *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				
Q0398654	40.0	40.0	40.0	6/27/20 07:24	6/27/20 16:55	571	646.8	PM-10	1132.80

32473

SAMPLE NO. **PE-TSP062920-B606UPWIND** 6/29/2020 *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				
799	40.0	40.0	40.0	6/29/20 07:04	6/29/20 16:35	571	646.8	TSP	1132.80

SAMPLE NO. **PE-TSP062920-B606DOWNWIND** 6/29/2020 *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				
800	40.0	40.0	40.0	6/29/20 07:11	6/29/20 16:48	577	653.6	TSP	1132.80

SAMPLE NO. **APTIMPM062920-B606UPWIND** 6/29/2020 *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				
Q0398655	40.0	40.0	40.0	6/29/20 07:04	6/29/20 16:35	571	646.8	PM-10	1132.80

SAMPLE NO. **APTIMPM062920-B606DOWNWIND** 6/29/2020 *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				
Q0398656	40.0	40.0	40.0	6/29/20 07:11	6/29/20 16:48	577	653.6	PM-10	1132.80

SAMPLE NO. **PE-TSP063020-B606UPWIND** 6/30/2020 *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				
801	40.0	40.0	40.0	6/30/20 07:30	6/30/20 16:35	545	617.4	TSP	1132.80

SAMPLE NO. **PE-TSP063020-B606DOWNWIND** 6/30/2020 *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				
802	40.0	40.0	40.0	6/30/20 07:45	6/30/20 16:48	543	615.1	TSP	1132.80

SAMPLE NO. **APTIMPM063020-B606UPWIND** 6/30/2020 *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				
Q0398657	40.0	40.0	40.0	6/30/20 07:30	6/30/20 16:35	545	617.4	PM-10	1132.80

SAMPLE NO. **APTIMPM063020-B606DOWNWIND** 6/30/2020 *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				
Q0398658	40.0	40.0	40.0	6/30/20 07:45	6/30/20 16:48	543	615.1	PM-10	1132.80

SAMPLE NO. **PE-TSP070120-B606UPWIND** 7/1/2020 *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				

804	40.0	40.0	40.0	7/01/20 07:25	7/01/20 16:40	555	628.7	TSP	1132.80

SAMPLE NO. **PE-TSP070120-B606DOWNWIND** 7/1/2020 *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				
803	40.0	40.0	40.0	7/01/20 07:35	7/01/20 16:50	555	628.7	TSP	1132.80

SAMPLE NO. **APTIMPM070120-B606UPWIND** 7/1/2020 *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				
Q0398660	40.0	40.0	40.0	7/01/20 07:35	7/01/20 16:40	545	617.4	PM-10	1132.80

SAMPLE NO. **APTIMPM070120-B606DOWNWIND** 7/1/2020 *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				
Q0398659	40.0	40.0	40.0	7/01/20 07:35	7/01/20 16:50	555	628.7	PM-10	1132.80

SAMPLE NO. **PE-TSP070220-B606UPWIND** 7/2/2020 *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				
805	40.0	40.0	40.0	7/02/20 07:10	7/02/20 16:45	575	651.4	TSP	1132.80

SAMPLE NO. **PE-TSP070220-B606DOWNWIND** 7/2/2020 *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				
806	40.0	40.0	40.0	7/02/20 07:35	7/02/20 16:55	560	634.4	TSP	1132.80

SAMPLE NO. **APTIMPM070220-B606UPWIND** 7/2/2020 *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				
Q0398661	40.0	40.0	40.0	7/02/20 07:10	7/02/20 16:45	575	651.4	PM-10	1132.80

SAMPLE NO. **APTIMPM070220-B606DOWNWIND** 7/2/2020 *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				
Q0398662	40.0	40.0	40.0	7/02/20 07:35	7/02/20 16:55	560	634.4	PM-10	1132.80

Login Sample Receipt Checklist

Client: Aptim Federal Services LLC

Job Number: 570-32473-1

Login Number: 32473
List Number: 1
Creator: Ramos, Maribel

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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 570-33149-1
Client Project/Site: HPNS - Parcel E / 500712

For:
Aptim Federal Services LLC
4005 Port Chicago Hwy, Suite 200
Concord, California 94520

Attn: Rose Condit

Authorized for release by:
7/29/2020 11:57:45 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 570-33149-1

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.
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: 570-33149-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-33149-1

Comments
No additional comments.

Receipt
The samples were received on 7/14/2020 10:15 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 Manganese was greater than the method reporting limit (RL) in the following samples: PE-TSP070720-B606UPWIND (570-33149-5), PE-TSP070720-B606DOWNWIND (570-33149-6), PE-TSP070820-B606DOWNWIND (570-33149-10), PE-TSP070920-B606UPWIND (570-33149-13), PE-TSP070920-B606DOWNWIND (570-33149-14), PE-TSP071020-B606UPWIND (570-33149-17) and (MB 570-83588/1-A).
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.

Detection Summary

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

Job ID: 570-33149-1

Client Sample ID: PE-TSP07620-B606UPWIND — Lab Sample ID: 570-33149-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14.4	J	18.0	6.22	ug/Sample	1		6010B	Total/NA
Lead	11.7	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Manganese	23.6		6.00	3.34	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	111		4.86	4.86	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP07620-B606DOWNWIND — Lab Sample ID: 570-33149-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.80	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	63.0		4.86	4.86	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM070620-B606UPWIND — Lab Sample ID: 570-33149-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	31.4		4.86	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070620-B606DOWNWIND — Lab Sample ID: 570-33149-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	43.1		4.86	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP070720-B606UPWIND — Lab Sample ID: 570-33149-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.79	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	46.0		4.57	4.57	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP070720-B606DOWNWIND — Lab Sample ID: 570-33149-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.05	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	28.7		4.57	4.57	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM070720-B606UPWIND — Lab Sample ID: 570-33149-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	29.0		4.65	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070720-B606DOWNWIND — Lab Sample ID: 570-33149-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.0		4.65	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP070820-B606UPWIND — Lab Sample ID: 570-33149-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.66	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	69.0		4.49	4.49	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP070820-B606DOWNWIND — Lab Sample ID: 570-33149-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.25	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	32.9		4.65	4.65	ug/m3	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 570-33149-1

Client Sample ID: APTIMPM070820-B606UPWIND — Lab Sample ID: 570-33149-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	33.7		4.49	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070820-B606DOWNWIND — Lab Sample ID: 570-33149-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	32.5		4.69	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP070920-B606UPWIND — Lab Sample ID: 570-33149-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.2		4.69	4.69	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP070920-B606DOWNWIND — Lab Sample ID: 570-33149-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.00	J	18.0	6.22	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	36.6		4.69	4.69	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM070920-B606UPWIND — Lab Sample ID: 570-33149-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	29.8		4.65	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM070920-B606DOWNWIND — Lab Sample ID: 570-33149-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	42.5		4.69	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: PE-TSP071020-B606UPWIND — Lab Sample ID: 570-33149-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.35	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	30.2		4.77	4.77	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: PE-TSP071020-B606DOWNWIND — Lab Sample ID: 570-33149-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.66	J	12.0	3.16	ug/Sample	1		6010B	Total/NA
Total Suspended Particulates	56.6		4.82	4.82	ug/m3	1		40CFR50 App B	Total/NA

Client Sample ID: APTIMPM071020-B606UPWIND — Lab Sample ID: 570-33149-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	10.5		4.77	NaN	ug/m3	1		PM10	Total/NA

Client Sample ID: APTIMPM071020-B606DOWNWIND — Lab Sample ID: 570-33149-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter	23.2		4.77	NaN	ug/m3	1		PM10	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP07620-B606UPWIND
Date Collected: 07/06/20 07:25
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-1
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**14.4**	**J**	18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 10:58	1
Lead	**11.7**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 10:58	1
Manganese	**23.6**		6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 10:58	1

Client Sample ID: PE-TSP07620-B606DOWNWIND
Date Collected: 07/06/20 07:35
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-2
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:05	1
Lead	**4.80**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:05	1
Manganese	ND		6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:05	1

Client Sample ID: PE-TSP070720-B606UPWIND
Date Collected: 07/07/20 07:00
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-5
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:07	1
Lead	**5.79**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:07	1
Manganese	ND	L	6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:07	1

Client Sample ID: PE-TSP070720-B606DOWNWIND
Date Collected: 07/07/20 07:11
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-6
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:09	1
Lead	**6.05**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:09	1
Manganese	ND	L	6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:09	1

Client Sample ID: PE-TSP070820-B606UPWIND
Date Collected: 07/08/20 07:00
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-9
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:12	1
Lead	**8.66**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:12	1
Manganese	ND		6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:12	1

Client Sample ID: PE-TSP070820-B606DOWNWIND
Date Collected: 07/08/20 07:11
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-10
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:24	1
Lead	**7.25**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:24	1
Manganese	ND	L	6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:24	1

Method: 6010B - Metals (ICP)

Client Sample ID: PE-TSP070920-B606UPWIND
Date Collected: 07/09/20 07:15
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-13
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:26	1
Lead	ND		12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:26	1
Manganese	ND	L	6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:26	1

Client Sample ID: PE-TSP070920-B606DOWNWIND
Date Collected: 07/09/20 07:25
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-14
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.00**	**J**	18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:29	1
Lead	ND		12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:29	1
Manganese	ND	L	6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:29	1

Client Sample ID: PE-TSP071020-B606UPWIND
Date Collected: 07/10/20 07:25
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-17
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:31	1
Lead	**4.35**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:31	1
Manganese	ND	L	6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:31	1

Client Sample ID: PE-TSP071020-B606DOWNWIND
Date Collected: 07/10/20 07:41
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Lab Sample ID: 570-33149-18
Matrix: Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 11:33	1
Lead	**6.66**	**J**	12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 11:33	1
Manganese	ND		6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 11:33	1

General Chemistry

Client Sample ID: PE-TSP07620-B606UPWIND — **Lab Sample ID: 570-33149-1**
Date Collected: 07/06/20 07:25 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	111		4.86	4.86	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP07620-B606DOWNWIND — **Lab Sample ID: 570-33149-2**
Date Collected: 07/06/20 07:35 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	63.0		4.86	4.86	ug/m3			07/29/20 11:58	1

Client Sample ID: APTIMPM070620-B606UPWIND — **Lab Sample ID: 570-33149-3**
Date Collected: 07/06/20 07:25 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	31.4		4.86	NaN	ug/m3			07/28/20 19:08	1

Client Sample ID: APTIMPM070620-B606DOWNWIND — **Lab Sample ID: 570-33149-4**
Date Collected: 07/06/20 07:35 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	43.1		4.86	NaN	ug/m3			07/28/20 19:08	1

Client Sample ID: PE-TSP070720-B606UPWIND — **Lab Sample ID: 570-33149-5**
Date Collected: 07/07/20 07:00 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.0		4.57	4.57	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP070720-B606DOWNWIND — **Lab Sample ID: 570-33149-6**
Date Collected: 07/07/20 07:11 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	28.7		4.57	4.57	ug/m3			07/29/20 11:58	1

Client Sample ID: APTIMPM070720-B606UPWIND — **Lab Sample ID: 570-33149-7**
Date Collected: 07/07/20 07:00 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	29.0		4.65	NaN	ug/m3			07/28/20 19:08	1

Client Sample ID: APTIMPM070720-B606DOWNWIND — **Lab Sample ID: 570-33149-8**
Date Collected: 07/07/20 07:11 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.0		4.65	NaN	ug/m3			07/28/20 19:08	1

General Chemistry

Client Sample ID: PE-TSP070820-B606UPWIND — **Lab Sample ID: 570-33149-9**
Date Collected: 07/08/20 07:00 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	69.0		4.49	4.49	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP070820-B606DOWNWIND — **Lab Sample ID: 570-33149-10**
Date Collected: 07/08/20 07:11 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.9		4.65	4.65	ug/m3			07/29/20 11:58	1

Client Sample ID: APTIMPM070820-B606UPWIND — **Lab Sample ID: 570-33149-11**
Date Collected: 07/08/20 07:00 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	33.7		4.49	NaN	ug/m3			07/28/20 19:08	1

Client Sample ID: APTIMPM070820-B606DOWNWIND — **Lab Sample ID: 570-33149-12**
Date Collected: 07/08/20 07:11 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	32.5		4.69	NaN	ug/m3			07/28/20 19:08	1

Client Sample ID: PE-TSP070920-B606UPWIND — **Lab Sample ID: 570-33149-13**
Date Collected: 07/09/20 07:15 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.2		4.69	4.69	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP070920-B606DOWNWIND — **Lab Sample ID: 570-33149-14**
Date Collected: 07/09/20 07:25 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.6		4.69	4.69	ug/m3			07/29/20 11:58	1

Client Sample ID: APTIMPM070920-B606UPWIND — **Lab Sample ID: 570-33149-15**
Date Collected: 07/09/20 07:15 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	29.8		4.65	NaN	ug/m3			07/28/20 19:08	1

Client Sample ID: APTIMPM070920-B606DOWNWIND — **Lab Sample ID: 570-33149-16**
Date Collected: 07/09/20 07:25 — **Matrix: Air**
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	42.5		4.69	NaN	ug/m3			07/28/20 19:08	1

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

Job ID: 570-33149-1

General Chemistry

Client Sample ID: PE-TSP071020-B606UPWIND
Lab Sample ID: 570-33149-17
Date Collected: 07/10/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.2		4.77	4.77	ug/m3			07/29/20 11:58	1

Client Sample ID: PE-TSP071020-B606DOWNWIND
Lab Sample ID: 570-33149-18
Date Collected: 07/10/20 07:41
Matrix: Air
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.6		4.82	4.82	ug/m3			07/29/20 11:58	1

Client Sample ID: APTIMPM071020-B606UPWIND
Lab Sample ID: 570-33149-19
Date Collected: 07/10/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	10.5		4.77	NaN	ug/m3			07/28/20 19:08	1

Client Sample ID: APTIMPM071020-B606DOWNWIND
Lab Sample ID: 570-33149-20
Date Collected: 07/10/20 07:41
Matrix: Air
Date Received: 07/14/20 10:15
Sample Container: Folder/Filter

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter	23.2		4.77	NaN	ug/m3			07/28/20 19:08	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-83588/1-A
Matrix: Air
Analysis Batch: 83742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 83588

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		18.0	6.22	ug/Sample		07/25/20 15:45	07/27/20 10:50	1
Lead	ND		12.0	3.16	ug/Sample		07/25/20 15:45	07/27/20 10:50	1
Manganese	ND	L	6.00	3.34	ug/Sample		07/25/20 15:45	07/27/20 10:50	1

Lab Sample ID: LCS 570-83588/2-A
Matrix: Air
Analysis Batch: 83742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 83588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	600	571.2		ug/Sample		95	80 - 120
Lead	600	596.9		ug/Sample		99	80 - 120
Manganese	600	557.0		ug/Sample		93	80 - 120

Lab Sample ID: LCSD 570-83588/3-A
Matrix: Air
Analysis Batch: 83742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 83588

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	600	568.2		ug/Sample		95	80 - 120	1	20
Lead	600	601.7		ug/Sample		100	80 - 120	1	20
Manganese	600	561.7		ug/Sample		94	80 - 120	1	20

Lab Sample ID: 570-33149-1 MS
Matrix: Air
Analysis Batch: 83742

Client Sample ID: PE-TSP07620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 83588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	14.4	J	600	510.4		ug/Sample		83	75 - 125
Lead	11.7	J	600	544.9		ug/Sample		89	75 - 125
Manganese	23.6		600	522.3		ug/Sample		83	75 - 125

Lab Sample ID: 570-33149-1 MSD
Matrix: Air
Analysis Batch: 83742

Client Sample ID: PE-TSP07620-B606UPWIND
Prep Type: Total/NA
Prep Batch: 83588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	14.4	J	600	542.6		ug/Sample		88	75 - 125	6	20
Lead	11.7	J	600	572.2		ug/Sample		93	75 - 125	5	20
Manganese	23.6		600	551.9		ug/Sample		88	75 - 125	6	20

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

Lab Sample ID: MB 570-84291/21-A
Matrix: Air
Analysis Batch: 84318

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			07/29/20 11:58	1

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

Lab Sample ID: 570-33149-1 DU
Matrix: Air
Analysis Batch: 84318

Client Sample ID: PE-TSP07620-B606UPWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Particulates	111			111.3		ug/m3				0	25

Method: PM10 - Particulate Matter

Lab Sample ID: MB 570-84150/1
Matrix: Air
Analysis Batch: 84150

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			07/28/20 19:08	1

Lab Sample ID: 570-33149-20 DU
Matrix: Air
Analysis Batch: 84150

Client Sample ID: APTIMPM071020-B606DOWNWIND
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Particulate Matter	23.2			23.38		ug/m3				0.7	25

Metals

Prep Batch: 83588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33149-1	PE-TSP07620-B606UPWIND	Total/NA	Air	3050B	
570-33149-2	PE-TSP07620-B606DOWNWIND	Total/NA	Air	3050B	
570-33149-5	PE-TSP070720-B606UPWIND	Total/NA	Air	3050B	
570-33149-6	PE-TSP070720-B606DOWNWIND	Total/NA	Air	3050B	
570-33149-9	PE-TSP070820-B606UPWIND	Total/NA	Air	3050B	
570-33149-10	PE-TSP070820-B606DOWNWIND	Total/NA	Air	3050B	
570-33149-13	PE-TSP070920-B606UPWIND	Total/NA	Air	3050B	
570-33149-14	PE-TSP070920-B606DOWNWIND	Total/NA	Air	3050B	
570-33149-17	PE-TSP071020-B606UPWIND	Total/NA	Air	3050B	
570-33149-18	PE-TSP071020-B606DOWNWIND	Total/NA	Air	3050B	
MB 570-83588/1-A	Method Blank	Total/NA	Air	3050B	
LCS 570-83588/2-A	Lab Control Sample	Total/NA	Air	3050B	
LCSD 570-83588/3-A	Lab Control Sample Dup	Total/NA	Air	3050B	
570-33149-1 MS	PE-TSP07620-B606UPWIND	Total/NA	Air	3050B	
570-33149-1 MSD	PE-TSP07620-B606UPWIND	Total/NA	Air	3050B	

Analysis Batch: 83742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33149-1	PE-TSP07620-B606UPWIND	Total/NA	Air	6010B	83588
570-33149-2	PE-TSP07620-B606DOWNWIND	Total/NA	Air	6010B	83588
570-33149-5	PE-TSP070720-B606UPWIND	Total/NA	Air	6010B	83588
570-33149-6	PE-TSP070720-B606DOWNWIND	Total/NA	Air	6010B	83588
570-33149-9	PE-TSP070820-B606UPWIND	Total/NA	Air	6010B	83588
570-33149-10	PE-TSP070820-B606DOWNWIND	Total/NA	Air	6010B	83588
570-33149-13	PE-TSP070920-B606UPWIND	Total/NA	Air	6010B	83588
570-33149-14	PE-TSP070920-B606DOWNWIND	Total/NA	Air	6010B	83588
570-33149-17	PE-TSP071020-B606UPWIND	Total/NA	Air	6010B	83588
570-33149-18	PE-TSP071020-B606DOWNWIND	Total/NA	Air	6010B	83588
MB 570-83588/1-A	Method Blank	Total/NA	Air	6010B	83588
LCS 570-83588/2-A	Lab Control Sample	Total/NA	Air	6010B	83588
LCSD 570-83588/3-A	Lab Control Sample Dup	Total/NA	Air	6010B	83588
570-33149-1 MS	PE-TSP07620-B606UPWIND	Total/NA	Air	6010B	83588
570-33149-1 MSD	PE-TSP07620-B606UPWIND	Total/NA	Air	6010B	83588

General Chemistry

Analysis Batch: 84150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33149-3	APTIMPM070620-B606UPWIND	Total/NA	Air	PM10	
570-33149-4	APTIMPM070620-B606DOWNWIND	Total/NA	Air	PM10	
570-33149-7	APTIMPM070720-B606UPWIND	Total/NA	Air	PM10	
570-33149-8	APTIMPM070720-B606DOWNWIND	Total/NA	Air	PM10	
570-33149-11	APTIMPM070820-B606UPWIND	Total/NA	Air	PM10	
570-33149-12	APTIMPM070820-B606DOWNWIND	Total/NA	Air	PM10	
570-33149-15	APTIMPM070920-B606UPWIND	Total/NA	Air	PM10	
570-33149-16	APTIMPM070920-B606DOWNWIND	Total/NA	Air	PM10	
570-33149-19	APTIMPM071020-B606UPWIND	Total/NA	Air	PM10	
570-33149-20	APTIMPM071020-B606DOWNWIND	Total/NA	Air	PM10	
MB 570-84150/1	Method Blank	Total/NA	Air	PM10	
570-33149-20 DU	APTIMPM071020-B606DOWNWIND	Total/NA	Air	PM10	

QC Association Summary

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

Job ID: 570-33149-1

General Chemistry

Pre Prep Batch: 84291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33149-1	PE-TSP07620-B606UPWIND	Total/NA	Air	Filter to Air	
570-33149-2	PE-TSP07620-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33149-5	PE-TSP070720-B606UPWIND	Total/NA	Air	Filter to Air	
570-33149-6	PE-TSP070720-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33149-9	PE-TSP070820-B606UPWIND	Total/NA	Air	Filter to Air	
570-33149-10	PE-TSP070820-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33149-13	PE-TSP070920-B606UPWIND	Total/NA	Air	Filter to Air	
570-33149-14	PE-TSP070920-B606DOWNWIND	Total/NA	Air	Filter to Air	
570-33149-17	PE-TSP071020-B606UPWIND	Total/NA	Air	Filter to Air	
570-33149-18	PE-TSP071020-B606DOWNWIND	Total/NA	Air	Filter to Air	
MB 570-84291/21-A	Method Blank	Total/NA	Air	Filter to Air	
570-33149-1 DU	PE-TSP07620-B606UPWIND	Total/NA	Air	Filter to Air	

Analysis Batch: 84318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-33149-1	PE-TSP07620-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-2	PE-TSP07620-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-5	PE-TSP070720-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-6	PE-TSP070720-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-9	PE-TSP070820-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-10	PE-TSP070820-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-13	PE-TSP070920-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-14	PE-TSP070920-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-17	PE-TSP071020-B606UPWIND	Total/NA	Air	40CFR50 App B	84291
570-33149-18	PE-TSP071020-B606DOWNWIND	Total/NA	Air	40CFR50 App B	84291
MB 570-84291/21-A	Method Blank	Total/NA	Air	40CFR50 App B	84291
570-33149-1 DU	PE-TSP07620-B606UPWIND	Total/NA	Air	40CFR50 App B	84291

Client Sample ID: PE-TSP07620-B606UPWIND
Lab Sample ID: 570-33149-1
Date Collected: 07/06/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 10:58	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP07620-B606DOWNWIND
Lab Sample ID: 570-33149-2
Date Collected: 07/06/20 07:35
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:05	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070620-B606UPWIND
Lab Sample ID: 570-33149-3
Date Collected: 07/06/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3309 g	4.3503 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070620-B606DOWNWIND
Lab Sample ID: 570-33149-4
Date Collected: 07/06/20 07:35
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3538 g	4.3804 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070720-B606UPWIND
Lab Sample ID: 570-33149-5
Date Collected: 07/07/20 07:00
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:07	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

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

Job ID: 570-33149-1

Client Sample ID: PE-TSP070720-B606UPWIND
Lab Sample ID: 570-33149-5
Date Collected: 07/07/20 07:00
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070720-B606DOWNWIND
Lab Sample ID: 570-33149-6
Date Collected: 07/07/20 07:11
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:09	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070720-B606UPWIND
Lab Sample ID: 570-33149-7
Date Collected: 07/07/20 07:00
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3641 g	4.3828 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070720-B606DOWNWIND
Lab Sample ID: 570-33149-8
Date Collected: 07/07/20 07:11
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3683 g	4.3889 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070820-B606UPWIND
Lab Sample ID: 570-33149-9
Date Collected: 07/08/20 07:00
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:12	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-33149-1

Client Sample ID: PE-TSP070820-B606DOWNWIND
Lab Sample ID: 570-33149-10
Date Collected: 07/08/20 07:11
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:24	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070820-B606UPWIND
Lab Sample ID: 570-33149-11
Date Collected: 07/08/20 07:00
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3912 g	4.4137 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070820-B606DOWNWIND
Lab Sample ID: 570-33149-12
Date Collected: 07/08/20 07:11
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3749 g	4.3957 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070920-B606UPWIND
Lab Sample ID: 570-33149-13
Date Collected: 07/09/20 07:15
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:26	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP070920-B606DOWNWIND
Lab Sample ID: 570-33149-14
Date Collected: 07/09/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:29	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

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

Job ID: 570-33149-1

Client Sample ID: PE-TSP070920-B606DOWNWIND
Lab Sample ID: 570-33149-14
Date Collected: 07/09/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070920-B606UPWIND
Lab Sample ID: 570-33149-15
Date Collected: 07/09/20 07:15
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3675 g	4.3867 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM070920-B606DOWNWIND
Lab Sample ID: 570-33149-16
Date Collected: 07/09/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3813 g	4.4085 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071020-B606UPWIND
Lab Sample ID: 570-33149-17
Date Collected: 07/10/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:31	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: PE-TSP071020-B606DOWNWIND
Lab Sample ID: 570-33149-18
Date Collected: 07/10/20 07:41
Matrix: Air
Date Received: 07/14/20 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.08333 Filter	100 mL	83588	07/25/20 15:45	SP7J	ECL 1
Total/NA	Analysis	6010B		1			83742	07/27/20 11:33	ULPF	ECL 1
	Instrument ID: ICP8									
Total/NA	Pre Prep	Filter to Air					84291	07/29/20 10:55	UWCT	ECL 1
Total/NA	Analysis	40CFR50 App B		1			84318	07/29/20 11:58	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Lab Chronicle

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

Job ID: 570-33149-1

Client Sample ID: APTIMPM071020-B606UPWIND

Lab Sample ID: 570-33149-19

Date Collected: 07/10/20 07:25
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3664 g	4.3730 g	84150	07/28/20 19:08	UWCT	ECL 1
	Instrument ID: NOEQUIP									

Client Sample ID: APTIMPM071020-B606DOWNWIND

Lab Sample ID: 570-33149-20

Date Collected: 07/10/20 07:41
Matrix: Air
Date Received: 07/14/20 10:15

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	4.3665 g	4.3811 g	84150	07/28/20 19:08	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

Accreditation/Certification Summary

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

Job ID: 570-33149-1

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	07-31-20
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: 570-33149-1

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
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

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

Sample Summary

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

Job ID: 570-33149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-33149-1	PE-TSP07620-B606UPWIND	Air	07/06/20 07:25	07/14/20 10:15	
570-33149-2	PE-TSP07620-B606DOWNWIND	Air	07/06/20 07:35	07/14/20 10:15	
570-33149-3	APTIMPM070620-B606UPWIND	Air	07/06/20 07:25	07/14/20 10:15	
570-33149-4	APTIMPM070620-B606DOWNWIND	Air	07/06/20 07:35	07/14/20 10:15	
570-33149-5	PE-TSP070720-B606UPWIND	Air	07/07/20 07:00	07/14/20 10:15	
570-33149-6	PE-TSP070720-B606DOWNWIND	Air	07/07/20 07:11	07/14/20 10:15	
570-33149-7	APTIMPM070720-B606UPWIND	Air	07/07/20 07:00	07/14/20 10:15	
570-33149-8	APTIMPM070720-B606DOWNWIND	Air	07/07/20 07:11	07/14/20 10:15	
570-33149-9	PE-TSP070820-B606UPWIND	Air	07/08/20 07:00	07/14/20 10:15	
570-33149-10	PE-TSP070820-B606DOWNWIND	Air	07/08/20 07:11	07/14/20 10:15	
570-33149-11	APTIMPM070820-B606UPWIND	Air	07/08/20 07:00	07/14/20 10:15	
570-33149-12	APTIMPM070820-B606DOWNWIND	Air	07/08/20 07:11	07/14/20 10:15	
570-33149-13	PE-TSP070920-B606UPWIND	Air	07/09/20 07:15	07/14/20 10:15	
570-33149-14	PE-TSP070920-B606DOWNWIND	Air	07/09/20 07:25	07/14/20 10:15	
570-33149-15	APTIMPM070920-B606UPWIND	Air	07/09/20 07:15	07/14/20 10:15	
570-33149-16	APTIMPM070920-B606DOWNWIND	Air	07/09/20 07:25	07/14/20 10:15	
570-33149-17	PE-TSP071020-B606UPWIND	Air	07/10/20 07:25	07/14/20 10:15	
570-33149-18	PE-TSP071020-B606DOWNWIND	Air	07/10/20 07:41	07/14/20 10:15	
570-33149-19	APTIMPM071020-B606UPWIND	Air	07/10/20 07:25	07/14/20 10:15	
570-33149-20	APTIMPM071020-B606DOWNWIND	Air	07/10/20 07:41	07/14/20 10:15	

REVISED

CHAIN OF CUSTODY

APTIM

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

Ref. Document # CTO 0024 - AIR 015

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R. Condit 7/13/20

Project Manager: *Nels Johnson*

Send Report To: *Edgar Ruiz*
Phone/Fax Number: *8056808279*
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 #: 1155718
Delivery Date: 7/10/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sampler's Name(s): ER

Sample ID Number	Lot 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)			
PE-TSP070620-B606UPWIND	807	07/06/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE-TSP070620-B606DOWNWIND	808	07/06/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
APTIMPM070620-B606UPWIND	Q0398663	07/06/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	617.376			
APTIMPM070620-B606DOWNWIND	Q0398664	07/06/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
PE-TSP070720-B606UPWIND	809	07/07/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
PE-TSP070720-B606DOWNWIND	810	07/07/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
APTIMPM070720-B606UPWIND	Q0398665	07/07/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
APTIMPM070720-B606DOWNWIND	Q0398666	07/07/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
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: 7/10/20 Time: 16:50	Received By: Lock & Storage	Date: 7/10/20 Time: 16:50
Relinquished By: ~~Edgar Ruiz~~ ER 7/13 Released from storage	Date 7/13/20 Time 0700	Received By: Edgar Ruiz	Date 7/13/20 Time 0700
Relinquished By: Edgar Ruiz	Date 7/13/20 Time 0943	Received By: ER 7/13 ~~Atom Kim~~ FLS	Date 0943 Time 7/13/20

Method Codes
C = Composite G = Grab

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

Page - a 7/14/2020 10:15

1

570-33149 Chain of Custody

REVISED

CHAIN OF CUSTODY

APTIM

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

Ref. Document #: CTO 0024 - AIR 015
Page 2 of ~~2~~ 3 R. Condit 7/13/20

Project Number: 500712
Project Name: HPNS - Parcel E
Project Location: San Francisco, CA
Purchase Order #: 1155718
Delivery Date: 7/10/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

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 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)			
PE-TSP070820-B606UPWIND	811	07/08/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	668.352			
PE-TSP070820-B606DOWNWIND	812	07/08/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	644.563			
APTIMPM070820-B606UPWIND	Q0398667	07/08/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	668.352			
APTIMPM070820-B606DOWNWIND	Q0398668	07/08/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	644.563			
PE-TSP070920-B606UPWIND	813	07/09/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	640.032			
PE-TSP070920-B606DOWNWIND	814	07/09/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
APTIMPM070920-B606UPWIND	Q0398669	07/09/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
APTIMPM070920-B606DOWNWIND	Q0398670	07/09/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
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
Edgar Ruiz *Edgar Ruiz*	Date: 7/10/20 Time: 16:50	Lock & Storage	Date: 7/10/20 Time: 16:50
~~Edgar Ruiz~~ ER 7/13 Released from storage	Date: 7/13/20 Time: 0700	Edgar Ruiz *Edgar Ruiz*	Date: 7/13/20 Time: 0700
Edgar Ruiz *Edgar Ruiz*	Date: 7/13/20 Time: 0943	~~Alan Alan~~ ER 7/13 E.E.	Date: 0943 Time: 7/13/20

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

[signature] - ER 7/14/2020 10:05

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7/29/2020

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CHAIN OF CUSTODY

APTIM

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

Ref. Document # [illegible]
Page [illegible] of [illegible]

Project Number: [illegible]
Project Name: [illegible]
Project Location: San Francisco, CA
Purchase Order #: [illegible]
Delivery Date: [illegible]
Waybill Number: N/A
Lab Destination: [illegible]
7145 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Project Manager: *Nels Johnson*

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-4A)	PAH (EPA 8270 SIM / TO-13)	Asbestos (NIOSH 7400)	PM10 (40 CFR, Appendix J, [illegible])	TSP, Mn, Pb, As (40 CFR 50 App B; [illegible])	Flow Rate (L/min)	Sample Volume (m³)			
PE-TSP071020-B606UPWIND	815	07/10/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	628.704			
PE-TSP071020-B606DOWNWIND	Q0398671	07/10/20	7:41	G	A	1	8X10 EPM Whatman					X	1132.80	621.907			
APTIMPM071020-B606UPWIND	816	07/10/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.80	628.704			
APTIMPM071020-B606DOWNWIND	Q0398672	07/10/20	7:41	G	A	1	8X10 EPM Whatman				X		1132.80	621.907			
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
Edgar Ruiz *(signature)*	Date 7/10/20 Time 1050	Lock & Storage	Date 7/10/20 Time 1650
Released from storage	Date 7/13/20 Time 0700	Edgar Ruiz *(signature)*	Date 7/13/20 Time 0700
Edgar Ruiz *(signature)*	Date 7/13/20 Time 0943	*(signature)*	Date 7/14/2020 Time 10:15

Method Codes
[illegible]

Matrix Codes
[illegible]

CHAIN OF CUSTODY

Ref. Document # CTO 0024 - AIR 015

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: *8056808279*
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 #: 1155718
Delivery Date: 7/10/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sample ID Number	Lot 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)			
PE-TSP070620-B606UPWIND	807	07/06/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
PE-TSP070620-B606DOWNWIND	808	07/06/20	7:35	G	A	1	8X10 EPM Whatman					X	1132.8	617.376			
APTIMPM070620-B606UPWIND	Q0398663	07/06/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.8	617.376			
APTIMPM070620-B606DOWNWIND	Q0398664	07/06/20	7:35	G	A	1	8X10 EPM Whatman				X		1132.80	617.376			
PE-TSP070720-B606UPWIND	809	07/07/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.80	657.024			
PE-TSP070720-B606DOWNWIND	810	07/07/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.80	655.891			
APTIMPM070720-B606UPWIND	Q0398665	07/07/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.80	645.696			
APTIMPM070720-B606DOWNWIND	Q0398666	07/07/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.80	644.563			
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 Edgar Ruiz Date: 7/10/20 Time: 16:50
Received By: Lock & Storage Date: 7/10/20 Time: 16:50

Relinquished By: ~~Edgar Ruiz~~ ER 7/13 Released from Storage Date: 7/13/20 Time: 0700
Received By: Edgar Ruiz Edgar Ruiz Date: 7/13/20 Time: 0700

Relinquished By: Edgar Ruiz Edgar Ruiz Date: 7/13/20 Time: 0943
Received By: ER 7/13 Date: 0945 Time: 7/13/20

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

CHAIN OF CUSTODY

APTIM

Ref. Document # CTO 0024 - AIR 015

Page 2 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: *8056808279*
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 #: 1155718
Delivery Date: 7/10/2020
Waybill Number: N/A
Lab Destination: Calscience
7440 Lincoln Way
Garden Grove CA 92841
Lab Contact: Terri Chang

Sample ID Number	Lot 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)			
PE-TSP070820-B606UPWIND	811	07/08/20	7:00	G	A	1	8X10 EPM Whatman					X	1132.8	668.352			
PE-TSP070820-B606DOWNWIND	812	07/08/20	7:11	G	A	1	8X10 EPM Whatman					X	1132.8	644.563			
APTIMPM070820-B606UPWIND	Q0398667	07/08/20	7:00	G	A	1	8X10 EPM Whatman				X		1132.8	668.352			
APTIMPM070820-B606DOWNWIND	Q0398668	07/08/20	7:11	G	A	1	8X10 EPM Whatman				X		1132.8	644.563			
PE-TSP070920-B606UPWIND	813	07/09/20	7:15	G	A	1	8X10 EPM Whatman					X	1132.8	640.032			
PE-TSP070920-B606DOWNWIND	814	07/09/20	7:25	G	A	1	8X10 EPM Whatman					X	1132.80	640.032			
APTIMPM070920-B606UPWIND	Q0398669	07/09/20	7:15	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
APTIMPM070920-B606DOWNWIND	Q0398670	07/09/20	7:25	G	A	1	8X10 EPM Whatman				X		1132.80	640.032			
Temperature Blank																	x

Analyses Requested

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: 7/10/20 Time: 16:50
Received By: Lucia & Strange Date: 7/10/20 Time: 16:50

Relinquished By: Edgar Ruiz ER 7/13 Released from storage Date: 7/13/20 Time: 0700
Received By: Edgar Ruiz Date: 7/13/20 Time: 0700

Relinquished By: Edgar Ruiz Date: 7/13/20 Time: 0943
Received By: ER 7/13 Date: 0943 Time: 7/13/20

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 Openning

7/29/2020

AIR MONITORING LOG

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

STATION COC# 015

SAMPLE NO. PE-ASB070620-B606UPWIND 7/6/2020 *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				
CU086379	2.0	2.0	2.0	7/06/20 07:10	7/06/20 16:40	570	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB070620-B606DOWNWIND 7/6/2020 *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				
CU125161	2.0	2.0	2.0	7/06/20 07:26	7/06/20 16:50	564	1.1	Asbestos	2.00

SAMPLE NO. PE-ASB070720-B606UPWIND 7/7/2020 *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				
CU125080	2.0	2.0	2.0	7/07/20 07:00	7/07/20 16:40	580	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB070720-B606DOWNWIND 7/7/2020 *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				
CU125154	2.0	2.0	2.0	7/07/20 07:11	7/07/20 16:50	579	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB070820-B606UPWIND 7/8/2020 *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				
CU125125	2.0	2.0	2.0	7/08/20 07:00	7/08/20 16:40	580	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB070820-B606DOWNWIND 7/8/2020 *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				
CU125179	2.0	2.0	2.0	7/08/20 07:11	7/08/20 16:50	579	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB070920-B606UPWIND 7/9/2020 *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				
CU125140	2.0	2.0	2.0	7/09/20 07:02	7/09/20 16:40	578	1.2	Asbestos	2.00

SAMPLE NO. PE-ASB070920-B606DOWNWIND 7/9/2020 *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				
CU125147	2.0	2.0	2.0	7/09/20 07:10	7/09/20 16:50	580	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB071020-B606UPWIND** 7/10/2020 *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				
CU125084	2.0	2.0	2.0	7/10/20 07:01	7/10/20 16:40	579	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB071020-B606DOWNWIND** 7/10/2020 *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				
CU125104	2.0	2.0	2.0	7/10/20 07:12	7/10/20 16:50	578	1.2	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B710UPWIND** 7/10/2020 *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				
CU125136	2.0	2.0	2.0	7/10/20 07:22	7/10/20 07:22	0	0.0	Asbestos	2.00

SAMPLE NO. **PE-ASB-BLANK-B710DOWNWIND** 7/10/2020 *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				
CU125221	2.0	2.0	2.0	7/10/20 07:22	7/10/20 07:22	0	0.0	Asbestos	2.00

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

STATION COC# 015

SAMPLE NO. PE-TSP070620-B606UPWIND 7/6/2020 *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				
807	40.0	40.0	40.0	7/06/20 07:25	7/06/20 16:30	545	617.4	TSP	1132.80

SAMPLE NO. PE-TSP070620-B606DOWNWIND 7/6/2020 *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				
808	40.0	40.0	40.0	7/06/20 07:35	7/06/20 16:40	545	617.4	TSP	1132.80

SAMPLE NO. APTIMPM070620-B606UPWIND 7/6/2020 *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				
Q0398663	40.0	40.0	40.0	7/06/20 07:25	7/06/20 16:30	545	617.4	PM-10	1132.80

SAMPLE NO. APTIMPM070620-B606DOWNWIND 7/6/2020 *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				
Q0398664	40.0	40.0	40.0	7/06/20 07:35	7/06/20 16:40	545	617.4	PM-10	1132.80

SAMPLE NO. PE-TSP070720-B606UPWIND 7/7/2020 *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				
809	40.0	40.0	40.0	7/07/20 07:00	7/07/20 16:40	580	657.0	TSP	1132.80

SAMPLE NO. PE-TSP070720-B606DOWNWIND 7/7/2020 *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				
810	40.0	40.0	40.0	7/07/20 07:11	7/07/20 16:50	579	655.9	TSP	1132.80

SAMPLE NO. APTIMPM070720-B606UPWIND 7/7/2020 *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				
Q0398665	40.0	40.0	40.0	7/07/20 07:00	7/07/20 16:30	570	645.7	PM-10	1132.80

SAMPLE NO. APTIMPM070720-B606DOWNWIND 7/7/2020 *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				
Q0398666	40.0	40.0	40.0	7/07/20 07:11	7/07/20 16:40	569	644.6	PM-10	1132.80

SAMPLE NO. **PE-TSP070820-B606UPWIND** 7/8/2020 *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				
811	40.0	40.0	40.0	7/08/20 07:00	7/08/20 16:50	590	668.4	TSP	1132.80

SAMPLE NO. **PE-TSP070820-B606DOWNWIND** 7/8/2020 *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				
812	40.0	40.0	40.0	7/08/20 07:11	7/08/20 16:40	569	644.6	TSP	1132.80

SAMPLE NO. **APTIMPM070820-B606UPWIND** 7/8/2020 *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				
Q0398667	40.0	40.0	40.0	7/08/20 07:00	7/08/20 16:50	590	668.4	PM-10	1132.80

SAMPLE NO. **APTIMPM070820-B606DOWNWIND** 7/8/2020 *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				
Q0398668	40.0	40.0	40.0	6/03/20 07:11	6/03/20 16:40	569	644.6	PM-10	1132.80

SAMPLE NO. **PE-TSP070920-B606UPWIND** 7/9/2020 *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				
813	40.0	40.0	40.0	7/09/20 07:15	7/09/20 16:40	565	640.0	TSP	1132.80

SAMPLE NO. **PE-TSP070920-B606DOWNWIND** 7/9/2020 *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				
814	40.0	40.0	40.0	7/09/20 07:25	7/09/20 16:50	565	640.0	TSP	1132.80

SAMPLE NO. **APTIMPM070920-B606UPWIND** 7/9/2020 *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				
Q0398669	40.0	40.0	40.0	7/09/20 07:15	7/09/20 16:40	565	640.0	PM-10	1132.80

SAMPLE NO. **APTIMPM070920-B606DOWNWIND** 7/9/2020 *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				
Q0398670	40.0	40.0	40.0	7/09/20 07:25	7/09/20 16:50	565	640.0	PM-10	1132.80

SAMPLE NO. **PE-TSP071020-B606UPWIND** 7/10/2020 *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				

815	40.0	40.0	40.0	7/10/20 07:25	7/10/20 16:40	555	628.7	TSP	1132.80

SAMPLE NO. **PE-TSP071020-B606DOWNWIND** 7/10/2020 *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				
Q0398671	40.0	40.0	40.0	7/10/20 07:41	7/10/20 16:50	549	621.9	TSP	1132.80

SAMPLE NO. **APTIMPM071020-B606UPWIND** 7/10/2020 *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				
816	40.0	40.0	40.0	7/10/20 07:25	7/10/20 16:40	555	628.7	PM-10	1132.80

SAMPLE NO. **APTIMPM071020-B606DOWNWIND** 7/10/2020 *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				
Q0398672	40.0	40.0	40.0	7/10/20 07:41	7/10/20 16:50	549	621.9	PM-10	1132.80

GLS

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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 #: 549683894

570-33149 Waybill

GARDEN GROVE

S92841A

23478322

ORC CA927-CL0

Print Date: 7/13/2020 2:16 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: 570-33149-1

Login Number: 33149
List Number: 1
Creator: Ramos, Maribel

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	