



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

**AIR MONITORING SUMMARY REPORT  
FOR PARCEL E REMEDIAL ACTION  
PHASE 2**

HUNTERS POINT NAVAL SHIPYARD, SAN  
FRANCISCO, CALIFORNIA

April 1<sup>st</sup>, 2021 through April 30<sup>th</sup>, 2021

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**DCN: GLBN-0005-4332-0062**





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FRANCISCO, CALIFORNIA**

**April 1<sup>st</sup>, 2021 through April 30<sup>th</sup>, 2021**

**Prepared for:**



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

**Prepared by:**



**Gilbane Federal  
1655 Grant Street, Suite 1200  
Concord, CA 94520**

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## **Table of Contents**

Table of Contents .....	iv
List of Attachments .....	iv
List of Figures .....	v
List of Tables.....	v
Acronyms and Abbreviations .....	vi
1.0 Introduction .....	1-1
2.0 Monitoring Site Locations.....	2-1
3.0 Analytical Methods .....	3-1
3.1 Asbestos .....	3-1
3.2 PM10 .....	3-1
3.3 TSP, Copper, Lead, and Manganese.....	3-1
3.4 Radionuclides of Concern.....	3-1
4.0 Air Monitoring Data Interpretation and Action Levels.....	4-1
5.0 Air Monitoring Results.....	5-1
6.0 References.....	6-1

## **List of Attachments**

Attachment 1: Ambient Pressure, Temperature, and Prevalent Wind Direction Monitoring Results.....	A-1
Attachment 2: Asbestos Monitoring Results.....	B-1
Attachment 3: Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results .....	C-1
Attachment 4: Total Suspended Particulates Monitoring Results.....	D-1
Attachment 5: Copper, Lead, and Manganese Monitoring Results.....	E-1
Attachment 6: Radiological Air Monitoring Results.....	F-1
Attachment 7: Laboratory Reports.....	G-1



## **List of Figures**

Figure 2-1: Air Monitoring Locations

## **List of Tables**

Table 4-1: Air Monitoring Threshold Criteria..... 4-1

## **Acronyms and Abbreviations**

AMSR .....	<i>Air Monitoring Summary Report</i>
Cal/OSHA.....	<i>California Occupational Safety and Health Administration</i>
Cfm.....	<i>cubic feet per minute</i>
CFR.....	<i>Code of Federal Regulations</i>
CTO.....	<i>Contract Task Order</i>
DMCP.....	<i>Dust Monitoring and Control Plan</i>
DTSC.....	<i>State of California Department of Toxic Substances Control</i>
EPA.....	<i>United States Environmental Protection Agency</i>
fiber/cm <sup>3</sup> .....	<i>fiber per cubic centimeter</i>
Gilbane.....	<i>Gilbane Federal</i>
HERO.....	<i>Human and Ecological Risk Office</i>
HPNS.....	<i>Hunters Point Naval Shipyard</i>
L/min.....	<i>liters per minute</i>
mg/m <sup>3</sup> .....	<i>milligrams per cubic meter</i>
Navy.....	<i>U.S. Department of the Navy</i>
NIOSH.....	<i>National Institute for Occupational Safety and Health</i>
PDR.....	<i>personal data-logging real-time</i>
PEL.....	<i>permissible exposure limit</i>
PM <sub>10</sub> .....	<i>particulate matter less than 10 microns in diameter</i>
RAWP.....	<i>Remedial Action Work Plan</i>
TSP.....	<i>total suspended particulates</i>
TWA.....	<i>time-weighted average</i>
µg/m <sup>3</sup> .....	<i>micrograms per cubic meter</i>

## **1.0 Introduction**

This Air Monitoring Summary Report (AMSR) was prepared by Gilbane Federal (Gilbane) as requested by the United States Department of the Navy (Navy) under Radiological Environmental Multiple Award Contract N62473-17-D-0005, Contract Task Order (CTO) N6247317F4332. Gilbane is performing air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Final Dust Monitoring and Control Plan (DMCP), included as Appendix E to *Final Remedial Action Work Plan, Parcel E Remedial Action Phase 2, Hunters Point Naval Shipyard, San Francisco, California* (RAWP; Gilbane, 2019a). The DMCP describes the procedures that minimize dust during work activities and requires air monitoring to ensure these procedures are effective. The DMCP 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 monitoring samples were collected.
- What test methods were used to analyze air monitoring samples.
- How air monitoring data were evaluated.

This AMSR summarizes the air monitoring activities conducted by Gilbane at HPNS from April 1<sup>st</sup>, 2021 through April 30<sup>th</sup>, 2021 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

## **2.0 Monitoring Site Locations**

Air monitoring stations were deployed at one upwind and one downwind location from the work area whenever active soil handling operations were in progress. Based on past meteorological data, the prevalent wind direction at HPNS was from the west or west-southwest. The locations of Parcel E air monitoring stations are presented on Figure 2-1.

Air monitoring was performed to estimate and assess the impact of field activities. The locations of air monitoring stations were determined based on the prevailing wind direction and were modified as needed for accessibility and worker safety considerations. Wind direction was monitored daily using a windsock and confirmed with the prevalent wind direction recorded for the Hunters Point Station (APTIM HPNS - KCASANFR1504, APTIM HPNS - KCASANFR994, or San Francisco International (KSFO)) published at Weather Underground ([www.wunderground.com](http://www.wunderground.com)). Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at [www.wunderground.com](http://www.wunderground.com) (see Attachment 1). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

1. Asbestos
2. Particulate matter less than 10 microns in diameter (PM10)
3. Total suspended particulates (TSP) and Metals (Copper, Lead, and Manganese)
4. Radiological air samplers.

### **3.0 Analytical Methods**

#### **3.1 Asbestos**

Air samples were sampled and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400, from the NIOSH Manual of Analytical Methods (NIOSH, 1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters fitted with conductive cowlings at a sampling rate of between 0.5 liters per minute (L/min) and 16 L/min. Each sample was collected over a period of less than 24 hours.

#### **3.2 PM10**

Filter-based PM10 data are collected to ensure the protection of public health and safety during construction operations. Filter-based PM10 data are generated by sampling with calibrated air monitoring equipment that are operated continuously over a period of time (usually 8 or 24 hours) in accordance with the U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in 40 CFR 50, Subpart J, during which time measurements are taken to precisely calculate the volume of air that has passed through the filter media sample. The period sampled is dependent on the duration of the work activity. The sample is then shipped to a certified analytical laboratory where the sample results are gravimetrically determined, after which the results are validated for quality assurance. In this way the precise amount of PM10 present in each cubic meter of air is determined.

#### **3.3 TSP, Copper, Lead, and Manganese**

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with EPA's reference sampling method for TSP, described in Title 40 Code of Federal Regulations (CFR), Part 50, Subpart B. Each sample was collected on a filter over an approximately 8 to 24-hour period (depending on the duration of the work activity). The filter was then weighed to determine the amount of TSP collected. Once the filter weight was determined, the sample was analyzed for copper and manganese in accordance with one of the IO-3 methods identified in Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air (EPA, 1999), and for lead in accordance with a modified EPA Method 12.

#### **3.4 Radionuclides of Concern**

Radiological air samples were collected with a LV-1 low-volume air sampler. Air filters are counted onsite following a decay period and are compared with public air concentration limits published in 10 CFR Part 20. Radiological air sampling methods and procedures are detailed in Gilbane Radiological Procedure PR-RP-150 *Radiological Survey and Sampling* (Gilbane, 2019b).

The radiological air sample is counted on a Low Background Protean WPC-9950 and analyzed for gross alpha and beta activity. The calculated airborne concentration in microcuries is then compared to the effluent concentration limit specified in Table 2 of Appendix B to 10 CFR 20. The effluent concentration of a given radionuclide in air which, if inhaled continuously over the course of a year, results in an exposure equal to the annual regulatory limit specified in 10 CFR 20.1302. The threshold for radiological effluent air monitoring samples is 10 percent of the effluent

concentration, which ensures work practices are evaluated and modified as necessary to ensure the limit is not reached.

The equipment specifications and sampling procedures have complied with the specifications provided in the regulations for the sampler, filter, accuracy, calibration, and quality assurance.

## 4.0 Air Monitoring Data Interpretation and Action Levels

To facilitate the comparison to project action levels, the delta between the upwind and downwind PM10 and TSP analytical results was calculated for detected values. Negative results indicating that the upwind concentration was greater than the downwind concentration, or instances where no delta was calculated due to non-detected results, are interpreted as acceptable.

The resulting deltas for PM10 and TSP and analytical data from air monitoring metals and radiological samples were compared with the threshold criteria listed in Table 4-1 reproduced from Table 1 of the approved DMCP (Appendix E of the RAWP [Gilbane, 2019a]). The PM10 delta was additionally compared to the criterion taken from the *Technical Memorandum: Draft Dust Action Levels for Parcel E, Hunters Point Shipyard, San Francisco, California* (Department of Toxic Substances Control [DTSC] 2017) of 50 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).

**Table 4-1: Air Monitoring Threshold Criteria**

Test Parameter	Threshold Criterion	Threshold Criteria Reference
Asbestos	0.1 fiber/cm <sup>3</sup>	Cal/OSHA PEL
PM10	5,000 $\mu\text{g}/\text{m}^3$	Cal/OSHA PEL
TSP	0.5 mg/m <sup>3</sup>	Basewide HPNS Level selected to minimize overall permissible dust release from sites
Copper	1.0 mg/m <sup>3</sup>	Cal/OSHA PEL
Lead	0.050 mg/m <sup>3</sup>	Cal/OSHA PEL
Manganese	0.200 mg/m <sup>3</sup>	Cal/OSHA PEL
Radiological	10% of Effluent Concentration Values	Occupational and public air concentration limits for ROCs are published in 10 Code of Federal Regulations Part 20, Appendix B.

**Notes:**

<sup>a</sup> = Cal/OSHA PEL for particulates not otherwise regulated (respiratory) used for PM10.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

Cal/OSHA = California Division of Occupational Safety and Health Administration

fiber/cm<sup>3</sup> = fiber per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m<sup>3</sup> = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter less than 10 microns in diameter

TSP = total suspended particulates

## **5.0 Air Monitoring Results**

Weather information (including ambient pressure and temperature data) is presented in the table included as Attachment 1. Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from April 1<sup>st</sup> to April 30<sup>th</sup>, 2021, during which Gilbane was shoring, extending a crane pad, extending shoreline, breaking rock, removing debris from the shoreline, and preparing site for excavation. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks.

Construction and remediation activities conducted from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 2.

PM10 results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 3.

TSP, lead, manganese, and copper results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachments 4 and 5.

Radiological air sampling results from April 1<sup>st</sup> through April 30<sup>th</sup>, 2021 did not exceed the project-specific screening criteria presented in Table 4-1. The results are presented as Attachment 6.

Analytical laboratory reports are included as Attachment 7 and were subjected to cursory review by the Project Chemist. No data quality issues were noted. The data, as qualified, should be considered usable for their intended purposes.



## **6.0 References**

Department of Toxic Substances Control (DTSC), 2017. Draft Technical Memorandum: Dust Action Levels for Parcel E, Hunters Point. May.

National Institute for Occupational Safety and Health, (NIOSH), 1994. Manual of Analytical Methods.

United States Environmental Protection Agency (EPA), 1998. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.

Gilbane Federal, 2019a. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October

Gilbane Federal, 2019b. Radiological Procedure PR-RP-150 *Radiological Survey and Sampling, Version 01*, October 1.

## FIGURES

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**Parcel E**  
Hunters Point Naval Shipyard  
San Francisco, California

**Figure 2-1**  
Air Monitoring Stations

## **ATTACHMENTS**

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# **ATTACHMENT 1**

## **AMBIENT PRESSURE AND TEMPERATURE MONITORING RESULTS**

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Ambient Pressure, Temperature, and Prevalent Wind Direction Monitoring Results  
 Remedial Action Parcel E, Phase 2  
 Hunters Point Naval Shipyard, San Francisco, California

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
4/1/2021 <sup>1</sup>	29.99	59.05	NW
4/2/2021 <sup>1</sup>	30.18	51.91	W
4/3/2021 <sup>1</sup>	30.23	54.59	WSW
4/5/2021 <sup>1</sup>	30.11	51.04	W
4/6/2021 <sup>1</sup>	30.16	51.19	W
4/7/2021 <sup>1</sup>	30.24	50.67	W
4/8/2021 <sup>1</sup>	30.20	51.87	W
4/9/2021 <sup>1</sup>	30.21	51.52	W
4/12/2021 <sup>1</sup>	29.91	51.00	W
4/13/2021 <sup>1</sup>	29.93	51.51	WSW
4/14/2021 <sup>1</sup>	30.05	52.80	SW
4/15/2021 <sup>1</sup>	30.11	54.60	W
4/19/2021 <sup>2</sup>	30.03	55.43	W
4/20/2021 <sup>1</sup>	29.92	53.03	W
4/21/2021 <sup>3</sup>	29.95	51.95	WNW
4/22/2021 <sup>3</sup>	30.02	54.04	WNW
4/26/2021 <sup>1</sup>	30.01	52.64	W
4/27/2021 <sup>1</sup>	30.13	56.87	WSW
4/28/2021 <sup>1</sup>	30.24	59.33	W
4/29/2021 <sup>3</sup>	30.27	54.28	WNW

**Notes:**

<sup>1</sup>Data collected using wunderground.com from APTIM HPNS - KCASANFR1504.

<sup>2</sup>Data collected using wunderground.com from San Francisco International (KSFO).

<sup>3</sup>Data collected using wunderground.com from Hunters Point - KCASANFR994.

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

**ATTACHMENT 2**  
**ASBESTOS MONITORING RESULTS**

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Attachment 2  
 Asbestos Monitoring Results  
 Remedial Action Parcel E, Phase 2  
 Hunters Point Naval Shipyard, San Francisco, California



Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date <sup>1</sup>	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm <sup>3</sup> )	Exceedance (Yes/No)
MSE01-040121	04/01/21	1	504	1008	14.5	0.007	No
MSE02-040121	04/01/21	2	509	1018	12.0	0.006	No
MSE01-040221	04/02/21	1	459	918	14.0	0.007	No
MSE02-040221	04/02/21	2	481	962	10.0	0.005	No
MSE01-040321	04/03/21	1	410	820	10.0	0.006	No
MSE02-040321	04/03/21	2	423	846	8.0	0.005	No
MSE01-040521	04/05/21	1	528	1056	8.5	0.004	No
MSE02-040521	04/05/21	2	530	1060	10.5	0.005	No
MSE01-040621	04/06/21	1	548	1096	11.5	0.005	No
MSE02-040621	04/06/21	2	564	1128	12.0	0.005	No
MSE01-040721	04/07/21	1	422	844	10.0	0.006	No
MSE02-040721	04/07/21	2	432	864	8.5	0.005	No
MSE01-040821	04/08/21	1	482	964	9.5	0.005	No
MSE02-040821	04/08/21	2	461	922	10.5	0.006	No
MSE01-040921	04/09/21	1	423	846	7.0	0.004	No
MSE02-040921	04/09/21	2	443	886	9.0	0.005	No
MSE01-041221	04/12/21	1	402	804	12.5	0.008	No
MSE02-041221	04/12/21	2	358	716	7.5	0.005	No
MSE01-041321	04/13/21	1	463	926	14.5	0.008	No
MSE02-041321	04/13/21	2	482	964	11.0	0.006	No
MSE01-041421	04/14/21	1	433	866	9.5	0.005	No
MSE02-041421	04/14/21	2	455	910	10.5	0.006	No
MSE01-041521	04/15/21	1	455	910	11.5	0.006	No
MSE02-041521	04/15/21	2	461	922	13.5	0.007	No
MSE01-041921	04/19/21	1	441	882	12.5	0.007	No
MSE02-041921	04/19/21	2	452	904	10.0	0.005	No
MSE01-042021	04/20/21	1	460	920	11.0	0.006	No
MSE02-042021	04/20/21	2	454	908	12.0	0.006	No
MSE01-042121	04/21/21	1	452	904	10.5	0.006	No
MSE02-042121	04/21/21	2	466	932	9.0	0.005	No
MSE01-042221	04/22/21	1	419	838	15.5	0.009	No
MSE02-042221	04/22/21	2	427	854	12.5	0.007	No
MSE01-042621	04/26/21	1	437	874	10.5	0.006	No
MSE02-042621	04/26/21	2	463	926	13.5	0.007	No
MSE01-042721	04/27/21	1	453	906	10.5	0.006	No
MSE02-042721	04/27/21	2	455	910	8.0	0.004	No
MSE01-042821	04/28/21	1	482	964	12.0	0.006	No
MSE02-042821	04/28/21	2	438	876	9.0	0.005	No
MSE01-042921	04/29/21	1	301	602	11.0	0.009	No
MSE02-042921	04/29/21	2	324	648	9.0	0.007	No

Notes:

<sup>1</sup>Sample "start" date indicates the date upon which sample collection began.

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

min = minutes

L = liter

fibers/cm<sup>3</sup> = fibers per cubic centimeter

# **ATTACHMENT 3**

## **PM10 MONITORING RESULTS**

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Sample, Date and Station Information			Sampler Run Information	PM10s						
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (ug/m <sup>3</sup> )	Cal/OSHA PEL (ug/m <sup>3</sup> )	Exceedance (Yes/No)	HERO Action Level <sup>3</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
Q0424254-MSE01	1	4/1/21	1647.67	0.036						
Q0424255-MSE02	2	4/1/21	1669.64	0.018	-0.018	-18.0	5,000	No	50	No
Q0424256-MSE01	1	4/2/21	1608.41	0.035						
Q0424257-MSE02	2	4/2/21	1637.10	0.021	-0.014	-14.0	5,000	No	50	No
Q0424258-MSE01	1	4/3/21	1682.38	0.023						
Q0424259-MSE02	2	4/3/21	1693.99	0.016	-0.007	-7.0	5,000	No	50	No
Q0424260-MSE01	1	4/3/21 <sup>2</sup>	459.89	0.014						
Q0424261-MSE02	2	4/3/21 <sup>2</sup>	490.16	0.0093	-0.005	-4.7	5,000	No	50	No
Q0424262-MSE01	1	4/6/21	1619.35	0.018						
Q0424263-MSE02	2	4/6/21	1637.71	0.014	-0.004	-4.0	5,000	No	50	No
Q0424264-MSE01	1	4/7/21	1632.25	0.025						
Q0424265-MSE02	2	4/7/21	1646.81	0.025	0.000	0.0	5,000	No	50	No
Q0424266-MSE01	1	4/8/21	1639.06	0.035						
Q0424267-MSE02	2	4/8/21	1645.54	0.016	-0.019	-19.0	5,000	No	50	No
Q0424268-MSE01	1	4/9/21	1640.70	0.029						
Q0424269-MSE02	2	4/9/21	1672.96	0.025	-0.004	-4.0	5,000	No	50	No
Q0424270-MSE01	1	4/9/21 <sup>2</sup>	340.99	0.060						
Q0424271-MSE02	2	4/9/21 <sup>2</sup>	368.45	0.024	-0.036	-36.0	5,000	No	50	No
Q0424272-MSE01	1	4/13/21	1679.52	0.044						
Q0424273-MSE02	2	4/13/21	1624.13	0.057	0.013	13.0	5,000	No	50	No
Q0424274-MSE01	1	4/14/21	1774.85	0.045						
Q0424275-MSE02	2	4/14/21	1760.31	0.069	0.024	24.0	5,000	No	50	No
Q0424276-MSE01	1	4/15/21	1731.56	0.043						
Q0424277-MSE02	2	4/15/21	1723.68	0.043	0.000	0.0	5,000	No	50	No
Q0424278-MSE01	1	4/15/21 <sup>2</sup>	535.05	0.047						
Q0424279-MSE02	2	4/15/21 <sup>2</sup>	558.42	0.047	0.000	0.0	5,000	No	50	No

Sample, Date and Station Information			Sampler Run Information	PM10s						
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (ug/m <sup>3</sup> )	Cal/OSHA PEL (ug/m <sup>3</sup> )	Exceedance (Yes/No)	HERO Action Level <sup>3</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
Q0424280-MSE01	1	4/20/21	1713.37	0.021						
Q0424281-MSE02	2	4/20/21	1737.35	0.025	-0.004	-4.0	5,000	No	50	No
Q0424282-MSE01	1	4/21/21	1729.03	0.031						
Q0424283-MSE02	2	4/21/21	1746.56	0.040	0.009	9.0	5,000	No	50	No
Q0424284-MSE01	1	4/22/21	1763.01	0.029						
Q0424285-MSE02	2	4/22/21	1774.05	0.028	-0.001	-1.0	5,000	No	50	No
Q0424286-MSE01	1	4/22/21 <sup>2</sup>	459.43	<0.0022						
Q0424287-MSE02	2	4/22/21 <sup>2</sup>	490.90	<0.0020	0.000	-0.2	5,000	No	50	No
Q0424288-MSE01	1	4/27/21	1739.07	0.014						
Q0424289-MSE02	2	4/27/21	1749.38	0.011	-0.003	-3.0	5,000	No	50	No
Q0424290-MSE01	1	4/28/21	1762.73	0.016						
Q0424291-MSE02	2	4/28/21	1716.16	0.022	0.006	6.0	5,000	No	50	No
Q0424292-MSE01	1	4/29/21	1715.62	0.021						
Q0424293-MSE02 <sup>3</sup>	2	4/29/21	1809.82	0.0090	-0.012	-12.0	5,000	No	50	No
Q0424294-MSE01	1	4/29/21 <sup>2</sup>	384.26	0.0080						
Q0424295-MSE02	2	4/29/21 <sup>c</sup>	378.60	<0.0026	-0.005	-5.4	5,000	No	50	No

## Notes:

<sup>1</sup>Sample "end" date indicates the date upon which sample collection ended.<sup>2</sup>Sample collected in the afternoon<sup>3</sup>Motor malfunction

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

DTSC = Department of Toxic Substances Control

m<sup>3</sup> = cubic meters

mg = milligrams

mg/m<sup>3</sup> = milligrams per cubic meterPM<sub>10</sub>-particulate matter smaller than 10 microns in diameter



# **ATTACHMENT 4**

## **TSP MONITORING RESULTS**

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Attachment 4  
 Total Suspended Particulates Monitoring Results  
 Remedial Action Parcel E, Phase 2  
 Hunters Point Naval Shipyard, San Francisco, California



Sample, Date and Station Information			Sampler Run Information	Total Suspended Particulates			
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Basewide HPNS Level (mg/m <sup>3</sup> )	Exceedance (Yes/No)
9894253-MSE01	1	4/1/21	1682.28	0.038			
9894254-MSE02	2	4/1/21	1702.16	0.03	-0.008	0.5	No
9894255-MSE01	1	4/2/21	1604.99	0.045			
9894256-MSE02	2	4/2/21	1669.15	0.03	-0.015	0.5	No
9894257-MSE01	1	4/3/21	1703.93	0.026			
9894258-MSE02	2	4/3/21	1725.78	0.026	0.000	0.5	No
9894259-MSE01	1	4/3/21 <sup>2</sup>	460.30	0.013			
9894260-MSE02	2	4/3/21 <sup>2</sup>	503.13	0.012	-0.001	0.5	No
9894261-MSE01	1	4/6/21	1551.88	0.017			
9894262-MSE02	2	4/6/21	1672.15	0.019	0.002	0.5	No
9894264-MSE01	1	4/7/21	1679.89	0.026			
9894263-MSE02	2	4/7/21	1681.51	0.033	0.007	0.5	No
9894265-MSE01	1	4/8/21	1633.23	0.025			
9894266-MSE02	2	4/8/21	1681.08	0.020	-0.005	0.5	No
9894267-MSE01	1	4/9/21	1640.60	0.023			
9894268-MSE02	2	4/9/21	1701.41	0.022	-0.001	0.5	No
9894269-MSE01	1	4/9/21 <sup>2</sup>	343.78	0.0041			
9894270-MSE02	2	4/9/21 <sup>2</sup>	380.48	<0.0026	-0.002	0.5	No
9894271-MSE01	1	4/13/21	1680.54	0.051			
9894272-MSE02	2	4/13/21	1557.44	0.047	-0.004	0.5	No
9894273-MSE01	1	4/14/21	1778.03	0.054			
9894274-MSE02	2	4/14/21	1688.02	0.056	0.002	0.5	No
9894276-MSE01	1	4/15/21	1729.11	0.038			
9894275-MSE02	2	4/15/21	1662.29	0.053	0.015	0.5	No
9894277-MSE01	1	4/15/21 <sup>2</sup>	534.17	0.045			
9894278-MSE02	2	4/15/21 <sup>2</sup>	541.73	0.034	-0.011	0.5	No
9894279-MSE01	1	4/20/21	1735.25	0.037			
9894280-MSE02	2	4/20/21	1671.03	0.032	-0.005	0.5	No
9894281-MSE01	1	4/21/21	1746.99	0.054			
9894282-MSE02	2	4/21/21	1680.02	0.047	-0.007	0.5	No
9894283-MSE01	1	4/22/21	1744.25	0.042			
9894284-MSE02	2	4/22/21	1704.61	0.038	-0.004	0.5	No
9894285-MSE01	1	4/22/21 <sup>2</sup>	465.34	0.019			
9894286-MSE02	2	4/22/21 <sup>2</sup>	467.15	0.019	0.000	0.5	No
9894287-MSE01	1	4/27/21	1737.42	0.017			
9894288-MSE02	2	4/27/21	1676.76	0.015	-0.002	0.5	No

Attachment 4  
 Total Suspended Particulates Monitoring Results  
 Remedial Action Parcel E, Phase 2  
 Hunters Point Naval Shipyard, San Francisco, California



Sample, Date and Station Information			Sampler Run Information	Total Suspended Particulates			
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Basewide HPNS Level (mg/m <sup>3</sup> )	Exceedance (Yes/No)
9894289-MSE01	1	4/28/21	1722.95	0.034			
9894290-MSE02	2	4/28/21	1651.25	0.024	-0.010	0.5	No
9894291-MSE01	1	4/29/21	1797.38	0.039			
9894292-MSE02	2	4/29/21	1733.71	0.024	-0.015	0.5	No
9894293-MSE01	1	4/29/21 <sup>2</sup>	384.86	0.015			No
9894294-MSE02	2	4/29/21 <sup>2</sup>	311.20	0.0085	-0.007	0.5	No

Notes:

<sup>1</sup>Sample "end" date indicates the date upon which sample collection ended.

<sup>2</sup>Sample collected in the afternoon

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

-- indicates difference was not calculated

< = below detection limit

HPNS = Hunters Point Naval Shipyard

mg = milligrams

mg/m<sup>3</sup> = milligrams per cubic meter

m<sup>3</sup> = cubic meters

NA = not applicable

ug = micrograms

**ATTACHMENT 5**  
**COPPER, LEAD, AND MANGANESE MONITORING RESULTS**

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Attachment 5  
 Copper, Lead, and Manganese Monitoring Results  
 Remedial Action Parcel E, Phase 2  
 Hunters Point Naval Shipyard, San Francisco, California



Sample, Date and Station Information			Sampler Run Information	Copper		Lead		Manganese	
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)
9894253-MSE01	1	4/1/21	1682.28	0.00029	No	<0.000015	No	<0.000031	No
9894254-MSE02	2	4/1/21	1702.16	0.00024	No	<0.000015	No	<0.000015	No
9894255-MSE01	1	4/2/21	1604.99	0.00029	No	0.000016	No	<0.000062	No
9894256-MSE02	2	4/2/21	1669.15	0.000075	No	<0.000015	No	<0.000006	No
9894257-MSE01	1	4/3/21	1703.93	0.000082	No	<0.000015	No	<0.000059	No
9894258-MSE02	2	4/3/21	1725.78	0.0001	No	<0.000014	No	<0.000058	No
9894259-MSE01	1	4/3/21 <sup>2</sup>	460.30	<0.00022	No	<0.000054	No	<0.00022 UJ	No
9894260-MSE02	2	4/3/21 <sup>2</sup>	503.13	<0.0002	No	<0.00005	No	<0.0002	No
9894261-MSE01	1	4/6/21	1551.88	0.000096	No	<0.000016	No	<0.000064	No
9894262-MSE02	2	4/6/21	1672.15	0.00013	No	<0.000015	No	<0.000060	No
9894264-MSE01	1	4/7/21	1679.89	0.000087	No	<0.000015	No	<0.000015	No
9894263-MSE02	2	4/7/21	1681.51	0.000092 J-	No	<0.000015	No	<0.000015 UJ	No
9894265-MSE01	1	4/8/21	1633.23	0.00007	No	<0.000015	No	<0.000015	No
9894266-MSE02	2	4/8/21	1681.08	0.000042	No	<0.000015	No	<0.000015	No
9894267-MSE01	1	4/9/21	1640.60	0.000088	No	<0.000015	No	<0.000015	No
9894268-MSE02	2	4/9/21	1701.41	0.000074	No	<0.000015	No	<0.000015	No
9894269-MSE01	1	4/9/21 <sup>2</sup>	343.78	<0.000073	No	<0.000073	No	<0.000073	No
9894270-MSE02	2	4/9/21 <sup>2</sup>	380.48	<0.000066	No	<0.000066	No	<0.000066	No
9894271-MSE01	1	4/13/21	1680.54	0.00017	No	<0.000015	No	0.000019	No
9894272-MSE02	2	4/13/21	1557.44	0.000074	No	<0.000016	No	0.000017	No
9894273-MSE01	1	4/14/21	1778.03	0.00017	No	<0.000014	No	0.000016	No
9894274-MSE02	2	4/14/21	1688.02	0.00016	No	<0.000015	No	0.000021	No
9894276-MSE01	1	4/15/21	1729.11	0.00014	No	<0.000014	No	<0.000014	No
9894275-MSE02	2	4/15/21	1662.29	0.00016	No	<0.000015	No	0.000028	No
9894277-MSE01	1	4/15/21 <sup>2</sup>	534.17	0.00011	No	<0.000047	No	<0.000047	No
9894278-MSE02	2	4/15/21 <sup>2</sup>	541.73	0.00017	No	<0.000046	No	<0.000046	No
9894279-MSE01	1	4/20/21	1735.25	0.000057	No	<0.000014	No	<0.000014	No
9894280-MSE02	2	4/20/21	1671.03	0.00002	No	<0.000015	No	<0.000015	No
9894281-MSE01	1	4/21/21	1746.99	0.00014	No	<0.000014	No	0.000017	No
9894282-MSE02	2	4/21/21	1680.02	0.00013	No	<0.000015	No	<0.000015	No
9894283-MSE01	1	4/22/21	1744.25	0.0001	No	<0.000014	No	<0.000014	No
9894284-MSE02	2	4/22/21	1704.61	0.00012	No	<0.000015	No	<0.000015	No
9894285-MSE01	1	4/22/21 <sup>2</sup>	465.34	0.00011	No	<0.000054	No	<0.000054	No
9894286-MSE02	2	4/22/21 <sup>2</sup>	467.15	0.00012	No	<0.000054	No	<0.000054	No
9894287-MSE01	1	4/27/21	1737.42	0.00012	No	<0.000014	No	<0.000014	No
9894288-MSE02	2	4/27/21	1676.76	0.000091	No	<0.000015	No	<0.000015	No
9894289-MSE01	1	4/28/21	1722.95	0.000088	No	<0.000015	No	0.000019	No
9894290-MSE02	2	4/28/21	1651.25	0.00026	No	<0.000015	No	0.000042	No
9894291-MSE01	1	4/29/21	1797.38	0.00013	No	<0.000014	No	0.000036	No
9894292-MSE02	2	4/29/21	1733.71	0.00044	No	<0.000014	No	0.000017	No
9894293-MSE01	1	4/29/21 <sup>2</sup>	384.86	0.000067	No	<0.000065	No	<0.000065	No

Attachment 5  
 Copper, Lead, and Manganese Monitoring Results  
 Remedial Action Parcel E, Phase 2  
 Hunters Point Naval Shipyard, San Francisco, California



Sample, Date and Station Information			Sampler Run Information	Copper		Lead		Manganese	
Sample ID	Monitoring Station	Sample End Date <sup>1</sup>	Total Air Volume Monitored (m <sup>3</sup> )	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)	Concentration in Air (mg/m <sup>3</sup> )	Exceedance (Yes/No)
9894294-MSE02	2	4/29/21 <sup>2</sup>	311.20	<0.00008	No	<0.00008	No	<0.00008	No

Notes:

<sup>1</sup>Sample "end" date indicates the date upon which sample collection ended.

<sup>2</sup>Sample collected in the afternoon

Samples analyzed by ALS Environmental

Sample locations are shown on Figure 2-1

mg/m<sup>3</sup> = milligrams per cubic meter

J = estimated value

m<sup>3</sup> = cubic meters

UJ = not detected; associated detection limit estimated



**ATTACHMENT 6**  
**RADIOLOGICAL AIR MONITORING RESULTS**

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## AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information									Effluent Air Concentration				Sampling Period				Color Codes					
Contract / Task Order Number: N62473-17-D-0005 / F4332			Project Title / Location: Parcel E RA HPNS, SF, CA			Gilbane Project Number: J310000400			Radionuclide		Alpha	Beta	Air samples collected between April 1, 2021 and April 30, 2021				Value < MDC < 72 hr decay time		Value < 0.1 x Effluent Conc Value > 0.1 x Effluent Conc			
Information effective as of: 5/18/2021									Effluent Conc (µCi/ml)		9.E-13	6.E-12	Data reviewed				Value > Effluent Conc					
Sample Collection									Count Information								Sample Results				Initials	
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0153	Perimeter	MSC01	PE06	60	4/1/21 6:30	4/1/21 15:55	565	3.4E+07	C	4/7/21	1	cpm	0.300	4.050	0.8	8.1	1.1E-14	1.1E-13	1.2%	1.8%	DVT	BCS
AS-0154	Perimeter	MSC02	PE05	60	4/1/21 6:38	4/1/21 15:40	542	3.3E+07	C	4/7/21	1	cpm	0.100	5.250	0.3	11.5	3.9E-15	1.6E-13	0.4%	2.7%	DVT	BCS
AS-0155	Perimeter	MSC01	PE06	60	4/2/21 6:14	4/2/21 15:30	556	3.3E+07	C	4/7/21	1	cpm	0.100	5.550	0.3	12.4	3.8E-15	1.7E-13	0.4%	2.8%	DVT	BCS
AS-0156	Perimeter	MSC02	PE05	60	4/2/21 6:25	4/2/21 15:45	560	3.4E+07	C	4/7/21	1	cpm	0.000	4.100	0.0	8.2	0.0E+00	1.1E-13	0.0%	1.8%	DVT	BCS
AS-0157	Perimeter	MSC01	PE06	60	4/3/21 7:09	4/3/21 15:18	489	2.9E+07	C	4/7/21	1	cpm	0.350	4.650	1.0	9.8	1.5E-14	1.5E-13	1.7%	2.5%	DVT	BCS
AS-0158	Perimeter	MSC02	PE05	60	4/3/21 7:17	4/3/21 15:24	487	2.9E+07	C	4/7/21	1	cpm	0.050	3.550	0.1	6.7	2.2E-15	1.0E-13	0.2%	1.7%	DVT	BCS
AS-0159	Perimeter	MSC01	PE06	60	4/5/21 6:14	4/5/21 15:45	571	3.4E+07	C	4/13/21	1	cpm	0.350	4.550	1.0	9.5	1.3E-14	1.3E-13	1.4%	2.1%	DVT	BCS
AS-0160	Perimeter	MSC02	PE05	60	4/5/21 6:23	4/5/21 15:53	570	3.4E+07	C	4/13/21	1	cpm	0.100	4.350	0.3	8.9	3.7E-15	1.2E-13	0.4%	2.0%	DVT	BCS
AS-0161	Perimeter	MSC01	PE06	60	4/6/21 6:20	4/6/21 15:50	570	3.4E+07	C	4/13/21	1	cpm	0.050	4.800	0.1	10.2	1.8E-15	1.3E-13	0.2%	2.2%	DVT	BCS
AS-0162	Perimeter	MSC02	PE05	60	4/6/21 5:30	4/6/21 15:30	600	3.6E+07	C	4/13/21	1	cpm	0.100	5.200	0.3	11.4	3.5E-15	1.4E-13	0.4%	2.4%	DVT	BCS
AS-0163	Perimeter	MSC01	PE07	60	4/7/21 6:35	4/7/21 15:00	505	3.0E+07	C	4/13/21	1	cpm	0.100	4.400	0.3	9.1	4.2E-15	1.4E-13	0.5%	2.3%	DVT	BCS
AS-0164	Perimeter	MSC02	PE08	60	4/7/21 6:45	4/7/21 15:05	500	3.0E+07	C	4/13/21	1	cpm	0.300	3.700	0.8	7.1	1.3E-14	1.1E-13	1.4%	1.8%	DVT	BCS
AS-0165	Perimeter	MSC01	PE07	60	4/8/21 6:30	4/8/21 15:00	510	3.1E+07	C	4/13/21	1	cpm	0.150	4.350	0.4	8.9	6.2E-15	1.3E-13	0.7%	2.2%	DVT	BCS
AS-0166	Perimeter	MSC02	PE08	60	4/8/21 5:00	4/8/21 15:20	620	3.7E+07	C	4/13/21	1	cpm	0.350	3.750	1.0	7.2	1.2E-14	8.8E-14	1.3%	1.5%	DVT	BCS
AS-0167	Perimeter	MSC01	PE07	60	4/9/21 5:00	4/9/21 13:29	509	3.1E+07	C	4/13/21	1	cpm	0.000	4.500	0.0	9.4	0.0E+00	1.4E-13	0.0%	2.3%	DVT	BCS
AS-0168	Perimeter	MSC02	PE08	60	4/9/21 5:10	4/9/21 13:18	488	2.9E+07	C	4/13/21	1	cpm	0.100	4.300	0.3	8.8	4.3E-15	1.4E-13	0.5%	2.3%	DVT	BCS
AS-0169	Perimeter	MSC01	PE07	60	4/12/21 7:07	4/12/21 15:45	518	3.1E+07	C	4/19/21	1	cpm	0.000	4.800	0.0	10.2	0.0E+00	1.5E-13	0.0%	2.5%	DVT	BCS
AS-0170	Perimeter	MSC02	PE08	60	4/12/21 7:02	4/12/21 15:30	508	3.0E+07	C	4/19/21	1	cpm	0.150	4.350	0.4	8.9	6.2E-15	1.3E-13	0.7%	2.2%	DVT	BCS
AS-0171	Perimeter	MSC01	PE07	60	4/13/21 5:00	4/13/21 15:45	645	3.9E+07	C	4/19/21	1	cpm	0.200	4.050	0.6	8.1	6.5E-15	9.4E-14	0.7%	1.6%	DVT	BCS
AS-0172	Perimeter	MSC02	PE08	60	4/13/21 5:10	4/13/21 15:35	625	3.7E+07	C	4/19/21	1	cpm	0.300	3.500	0.8	6.5	1.0E-14	7.8E-14	1.1%	1.3%	DVT	BCS
AS-0173	Perimeter	MSC01	PE07	60	4/14/21 4:50	4/14/21 15:30	640	3.8E+07	C	4/19/21	1	cpm	0.300	4.050	0.8	8.1	9.9E-15	9.5E-14	1.1%	1.6%	DVT	BCS
AS-0174	Perimeter	MSC02	PE08	60	4/14/21 5:00	4/14/21 15:20	620	3.7E+07	C	4/19/21	1	cpm	0.300	4.200	0.8	8.5	1.0E-14	1.0E-13	1.1%	1.7%	DVT	BCS
AS-0175	Perimeter	MSC01	PE07	60	4/15/21 4:57	4/15/21 15:20	623	3.7E+07	C	4/19/21	1	cpm	0.300	4.150	0.8	8.4	1.0E-14	1.0E-13	1.1%	1.7%	DVT	BCS
AS-0176	Perimeter	MSC02	PE08	60	4/15/21 5:05	4/15/21 15:30	625	3.8E+07	C	4/19/21	1	cpm	0.250	4.250	0.7	8.7	8.4E-15	1.0E-13	0.9%	1.7%	DVT	BCS
AS-0177	Perimeter	MSC01	PE07	60	4/19/21 6:38	4/19/21 15:38	540	3.2E+07	C	4/26/21	1	cpm	0.200	4.650	0.6	9.8	7.8E-15	1.4E-13	0.9%	2.3%	DVT	BCS
AS-0178	Perimeter	MSC02	PE08	60	4/19/21 6:32	4/19/21 15:32	540	3.2E+07	C	4/26/21	1	cpm	0.200	3.850	0.6	7.5	7.8E-15	1.0E-13	0.9%	1.7%	DVT	BCS
AS-0179	Perimeter	MSC01	PE07	60	4/20/21 4:50	4/20/21 15:15	625	3.7E+07	C	4/26/21	1	cpm	0.050	4.350	0.1	8.9	1.7E-15	1.1E-13	0.2%	1.8%	DVT	BCS
AS-0180	Perimeter	MSC02	PE08	60	4/20/21 5:00	4/20/21 15:00	600	3.6E+07	C	4/26/21	1	cpm	0.200	4.300	0.6	8.8	7.0E-15	1.1E-13	0.8%	1.8%	DVT	BCS



## AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information									Effluent Air Concentration				Sampling Period				Color Codes					
Contract / Task Order Number: N62473-17-D-0005 / F4332			Project Title / Location: Parcel E RA HPNS, SF, CA			Gilbane Project Number: J310000400				Alpha	Beta	Air samples collected between April 1, 2021 and April 30, 2021				Value < MDC < 72 hr decay time		Value < 0.1 x Effluent Conc Value > 0.1 x Effluent Conc				
Information effective as of: 5/18/2021									Effluent Conc (µCi/ml) 9.E-13 6.E-12								Data reviewed		Value > Effluent Conc			
Sample Collection									Count Information						Sample Results				Initials			
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0181	Perimeter	MSC01	PE07	60	4/21/21 4:50	4/21/21 15:15	625	3.7E+07	C	4/26/21	1	cpm	0.150	3.900	0.4	7.7	5.1E-15	9.2E-14	0.6%	1.5%	DVT	BCS
AS-0182	Perimeter	MSC02	PE08	60	4/21/21 5:05	4/21/21 15:30	625	3.8E+07	C	4/26/21	1	cpm	0.200	4.600	0.6	9.7	6.7E-15	1.2E-13	0.7%	1.9%	DVT	BCS
AS-0183	Perimeter	MSC01	PE07	60	4/22/21 4:50	4/22/21 14:30	580	3.5E+07	C	4/26/21	1	cpm	0.100	4.650	0.3	9.8	3.6E-15	1.3E-13	0.4%	2.1%	DVT	BCS
AS-0184	Perimeter	MSC02	PE08	60	4/22/21 5:00	4/22/21 15:00	600	3.6E+07	C	4/26/21	1	cpm	0.300	4.100	0.8	8.2	1.1E-14	1.0E-13	1.2%	1.7%	DVT	BCS
AS-0185	Perimeter	MSC01	PE07	60	4/26/21 6:35	4/26/21 15:30	535	3.2E+07	C	5/3/21	1	cpm	0.100	4.250	0.3	8.7	3.9E-15	1.2E-13	0.4%	2.0%	DVT	BCS
AS-0186	Perimeter	MSC02	PE08	60	4/26/21 6:36	4/26/21 15:34	538	3.2E+07	C	5/3/21	1	cpm	0.050	4.450	0.1	9.2	2.0E-15	1.3E-13	0.2%	2.1%	DVT	BCS
AS-0187	Perimeter	MSC01	PE07	60	4/27/21 4:55	4/27/21 15:06	611	3.7E+07	C	5/3/21	1	cpm	0.100	4.750	0.3	10.1	3.5E-15	1.2E-13	0.4%	2.1%	DVT	BCS
AS-0188	Perimeter	MSC02	PE08	60	4/27/21 5:05	4/27/21 15:14	609	3.7E+07	C	5/3/21	1	cpm	0.150	3.400	0.4	6.3	5.2E-15	7.7E-14	0.6%	1.3%	DVT	BCS
AS-0189	Perimeter	MSC01	PE07	60	4/28/21 4:50	4/28/21 15:20	630	3.8E+07	C	5/3/21	1	cpm	0.100	4.200	0.3	8.5	3.3E-15	1.0E-13	0.4%	1.7%	DVT	BCS
AS-0190	Perimeter	MSC02	PE08	60	4/28/21 5:00	4/28/21 15:40	640	3.8E+07	C	5/3/21	1	cpm	0.200	4.700	0.6	9.9	6.6E-15	1.2E-13	0.7%	1.9%	DVT	BCS
AS-0191	Perimeter	MSC01	PE07	60	4/29/21 4:50	4/29/21 14:00	550	3.3E+07	C	5/3/21	1	cpm	0.100	4.200	0.3	8.5	3.8E-15	1.2E-13	0.4%	1.9%	DVT	BCS
AS-0192	Perimeter	MSC02	PE08	60	4/29/21 5:00	4/29/21 14:10	550	3.3E+07	C	5/3/21	1	cpm	0.050	3.000	0.1	5.1	1.9E-15	7.0E-14	0.2%	1.2%	DVT	BCS

**ATTACHMENT 7**  
**LABORATORY REPORTS**

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12-Apr-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21040210**

Dear Brett,

ALS Environmental received 8 samples on 05-Apr-2021 11:49 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040210

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21040210-01	Q0424252-MSE01	Air		3/31/2021 07:58	4/5/2021 11:49	<input type="checkbox"/>
21040210-02	9894251-MSE01	Air		3/31/2021 07:58	4/5/2021 11:49	<input type="checkbox"/>
21040210-03	Q0424253-MSE02	Air		3/31/2021 07:30	4/5/2021 11:49	<input type="checkbox"/>
21040210-04	9894252-MSE02	Air		3/31/2021 07:30	4/5/2021 11:49	<input type="checkbox"/>
21040210-05	Q0424254-MSE01	Air		4/1/2021 07:58	4/5/2021 11:49	<input type="checkbox"/>
21040210-06	9894253-MSE01	Air		4/1/2021 07:58	4/5/2021 11:49	<input type="checkbox"/>
21040210-07	Q0424255-MSE02	Air		4/1/2021 07:48	4/5/2021 11:49	<input type="checkbox"/>
21040210-08	9894254-MSE02	Air		4/1/2021 07:48	4/5/2021 11:49	<input type="checkbox"/>



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**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040210

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**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040210

## Analytical Results

**Lab ID:** 21040210-01A  
**Client Sample ID:** Q0424252-MSE01

**Collection Date:** 3/31/2021 7:58:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1569210	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	42	1.0	0.027	

**Lab ID:** 21040210-02A  
**Client Sample ID:** 9894251-MSE01

**Collection Date:** 3/31/2021 7:58:00 AM  
**Matrix:** AIR

### Analyses

TSP 40 CFR 50 APPDX B	Method: TSP		Air Volume (L): 1618470	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	66	1.0	0.041	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 1618470	Analyst: AZ
Date Analyzed: 4/12/2021 14:12	µg/sample	Reporting Limit µg/sample	mg/m3	
Copper	710	25	0.00044	
Lead	ND	25	<0.000015	
Manganese	50	25	0.000031	

**Lab ID:** 21040210-03A  
**Client Sample ID:** Q0424253-MSE02

**Collection Date:** 3/31/2021 7:30:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1675090	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	31	1.0	0.019	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040210

**Analytical Results**

**Lab ID:** 21040210-04A  
**Client Sample ID:** 9894252-MSE02

**Collection Date:** 3/31/2021 7:30:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1710930</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>49</b>	<b>1.0</b>	<b>0.029</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1710930</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 14:15		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>470</b>	<b>25</b>	<b>0.00028</b>	
<b>Lead</b>	<b>26</b>	<b>25</b>	<b>0.000015</b>	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040210-05A  
**Client Sample ID:** Q0424254-MSE01

**Collection Date:** 4/1/2021 7:58:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1647670</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>59</b>	<b>1.0</b>	<b>0.036</b>	

**Lab ID:** 21040210-06A  
**Client Sample ID:** 9894253-MSE01

**Collection Date:** 4/1/2021 7:58:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1682280</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>65</b>	<b>1.0</b>	<b>0.038</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1682280</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 14:19		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>490</b>	<b>25</b>	<b>0.00029</b>	
Lead	ND	25	<0.000015	
<b>Manganese</b>	<b>52</b>	<b>25</b>	<b>0.000031</b>	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040210

## Analytical Results

**Lab ID:** 21040210-07A  
**Client Sample ID:** Q0424255-MSE02

**Collection Date:** 4/1/2021 7:48:00 AM  
**Matrix:** AIR

### Analyses

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1669640</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>31</b>	<b>1.0</b>	<b>0.018</b>	

**Lab ID:** 21040210-08A  
**Client Sample ID:** 9894254-MSE02

**Collection Date:** 4/1/2021 7:48:00 AM  
**Matrix:** AIR

### Analyses

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1702160</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>51</b>	<b>1.0</b>	<b>0.030</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1702160</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 14:23		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>410</b>	<b>25</b>	<b>0.00024</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000015</b>	
<b>Manganese</b>	<b>26</b>	<b>25</b>	<b>0.000015</b>	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21040210  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R190607** Instrument ID: **BAL2** Method: **TSP**

DUP		Sample ID: <b>21040210-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID: <b>9894251-MSE01</b>		Run ID: <b>BAL2_210409A</b>				SeqNo: <b>2436628</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	65.27	1.0	0	0	0		65.85	0.885	20	

DUP		Sample ID: <b>21040375-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID:		Run ID: <b>BAL2_210409A</b>				SeqNo: <b>2436633</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	71.55	1.0	0	0	0		71.52	0.0419	20	

The following samples were analyzed in this batch:

21040210-02A	21040210-04A	21040210-06A
21040210-08A		

**Client:** Gilbane Company  
**Work Order:** 21040210  
**Project:** HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **R190608**      Instrument ID: **BAL2**      Method: **PM10**

DUP		Sample ID: <b>21040210-01A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID: <b>Q0424252-MSE01</b>		Run ID: <b>BAL2_210409B</b>				SeqNo: <b>2436656</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	41.94	1.0	0	0	0		42.15	0.499	20	

DUP		Sample ID: <b>21040375-01A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID:		Run ID: <b>BAL2_210409B</b>				SeqNo: <b>2436661</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	57.28	1.0	0	0	0		56.58	1.23	20	

The following samples were analyzed in this batch:

21040210-01A	21040210-03A	21040210-05A
21040210-07A		

Client: Gilbane Company  
 Work Order: 21040210  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **73772** Instrument ID: **ICP3** Method: **E12**

MBLK		Sample ID: <b>MBLK-73772-73772</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/12/2021 02:00 PM</b>			
Client ID:		Run ID: <b>ICP3_210412A</b>				SeqNo: <b>2438001</b>		Prep Date: <b>4/12/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	ND	100									
Lead	ND	25									
Manganese	ND	100									

LCS		Sample ID: <b>LCS-73772-73772</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/12/2021 02:04 PM</b>			
Client ID:		Run ID: <b>ICP3_210412A</b>				SeqNo: <b>2438002</b>		Prep Date: <b>4/12/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	355.8	100	450	0	79.1	75-125	0				
Lead	431.5	25	450	0	95.9	75-125	0				
Manganese	342.9	100	450	0	76.2	75-125	0				

LCSD		Sample ID: <b>LCSD-73772-73772</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/12/2021 02:08 PM</b>			
Client ID:		Run ID: <b>ICP3_210412A</b>				SeqNo: <b>2438003</b>		Prep Date: <b>4/12/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	356.1	100	450	0	79.1	75-125	355.8	0.0759	20		
Lead	435.7	25	450	0	96.8	75-125	431.5	0.965	20		
Manganese	344.8	100	450	0	76.6	75-125	342.9	0.563	20		

MS		Sample ID: <b>21040375-10A MS</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/12/2021 03:02 PM</b>			
Client ID:		Run ID: <b>ICP3_210412A</b>				SeqNo: <b>2438013</b>		Prep Date: <b>4/12/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	390.2	100	450	41.5	77.5	75-125	0				
Lead	440.2	25	450	0	97.8	75-125	0				
Manganese	346.1	100	450	0	76.9	75-125	0				

MSD		Sample ID: <b>21040375-10A MSD</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/12/2021 03:06 PM</b>			
Client ID:		Run ID: <b>ICP3_210412A</b>				SeqNo: <b>2438014</b>		Prep Date: <b>4/12/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	373.3	100	450	41.5	73.7	75-125	390.2	4.43	20	S	
Lead	442.1	25	450	0	98.2	75-125	440.2	0.428	20		
Manganese	334.7	100	450	0	74.4	75-125	346.1	3.34	20	S	

The following samples were analyzed in this batch:

21040210-02A	21040210-04A	21040210-06A
21040210-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21040210

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	



Sample Receipt Checklist

Client Name: **GILBANE-WALNUTCREEK**

Date/Time Received: **05-Apr-21 11:49**

Work Order: **21040210**

Received by: **SMS**

Checklist completed by: Jan Wilcox 06-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 09-Apr-21  
eSignature Date

Matrices: air  
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:  
Contacted By: Regarding:

Comments:

CorrectiveAction:

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

21040210

**COC # KT-040121**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: ALS Laboratory Group, Cincinnati, OH	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC: [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	<b>Analytical Test Method</b>	Code	Matrix
		A	Air
<b>Equipment:</b>	CAAIR - Air PM10 E12 - Air Pb Mn Cu N0500 - Air TSP	Code	Container/Preservative
		1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																	
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	Q0424252-MSE01	A	03/31/2021	0758	KT	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1569.21
2	9894251-MSE01	A	03/31/2021	0758	KT		X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1618.47
3	Q0424253-MSE02	A	03/31/2021	0730	KT	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1675.09
4	9894252-MSE02	A	03/31/2021	0730	KT		X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1710.93
5	Q0424254-MSE01	A	04/01/2021	0758	KT	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1647.67
6	9894253-MSE01	A	04/01/2021	0758	KT		X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1682.28
7	Q0424255-MSE02	A	04/01/2021	0748	KT	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1669.64
8	9894254-MSE02	A	04/01/2021	0748	KT		X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1702.16

**Turnaround Time: 5 Days**

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	4/2/21	1000	Red Gx	4/2/21	1000	Shipping Date: 4/1/2021 7733 2047 2174
				4/5/21	1149	<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>



13-Apr-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21040375**

Dear Brett,

ALS Environmental received 16 samples on 07-Apr-2021 11:03 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040375

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21040375-01	Q0424256-MSE01	Air		4/2/2021 07:45	4/7/2021 11:03	<input type="checkbox"/>
21040375-02	9894255-MSE01	Air		4/2/2021 07:45	4/7/2021 11:03	<input type="checkbox"/>
21040375-03	Q0424257-MSE02	Air		4/2/2021 07:34	4/7/2021 11:03	<input type="checkbox"/>
21040375-04	9894256-MSE02	Air		4/2/2021 07:34	4/7/2021 11:03	<input type="checkbox"/>
21040375-05	Q0424258-MSE01	Air		4/3/2021 08:38	4/7/2021 11:03	<input type="checkbox"/>
21040375-06	9894257-MSE01	Air		4/3/2021 08:38	4/7/2021 11:03	<input type="checkbox"/>
21040375-07	Q0424259-MSE02	Air		4/3/2021 08:20	4/7/2021 11:03	<input type="checkbox"/>
21040375-08	9894258-MSE02	Air		4/3/2021 08:20	4/7/2021 11:03	<input type="checkbox"/>
21040375-09	Q0424260-MSE01	Air		4/3/2021 15:35	4/7/2021 11:03	<input type="checkbox"/>
21040375-10	9894259-MSE01	Air		4/3/2021 15:35	4/7/2021 11:03	<input type="checkbox"/>
21040375-11	Q0424261-MSE02	Air		4/3/2021 15:25	4/7/2021 11:03	<input type="checkbox"/>
21040375-12	9894260-MSE02	Air		4/3/2021 15:25	4/7/2021 11:03	<input type="checkbox"/>
21040375-13	Q0424262-MSE01	Air		4/6/2021 07:43	4/7/2021 11:03	<input type="checkbox"/>
21040375-14	9894261-MSE01	Air		4/6/2021 07:43	4/7/2021 11:03	<input type="checkbox"/>
21040375-15	Q0424263-MSE02	Air		4/6/2021 07:30	4/7/2021 11:03	<input type="checkbox"/>
21040375-16	9894262-MSE02	Air		4/6/2021 07:30	4/7/2021 11:03	<input type="checkbox"/>

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**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040375

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**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040375

## Analytical Results

**Lab ID:** 21040375-01A  
**Client Sample ID:** Q0424256-MSE01

**Collection Date:** 4/2/2021 7:45:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1608410	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	57	1.0	0.035	

**Lab ID:** 21040375-02A  
**Client Sample ID:** 9894255-MSE01

**Collection Date:** 4/2/2021 7:45:00 AM  
**Matrix:** AIR

### Analyses

TSP 40 CFR 50 APPDX B	Method: TSP		Air Volume (L): 1604990	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	72	1.0	0.045	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 1604990	Analyst: AZ
Date Analyzed: 4/12/2021 14:27	µg/sample	Reporting Limit µg/sample	mg/m3	
Copper	460	100	0.00029	
Lead	26	25	0.000016	
Manganese	ND	100	<0.000062	

**Lab ID:** 21040375-03A  
**Client Sample ID:** Q0424257-MSE02

**Collection Date:** 4/2/2021 7:34:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1637100	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	35	1.0	0.021	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040375

**Analytical Results**

**Lab ID:** 21040375-04A  
**Client Sample ID:** 9894256-MSE02

**Collection Date:** 4/2/2021 7:34:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1669150</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>50</b>	<b>1.0</b>	<b>0.030</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1669150</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 14:31		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>130</b>	<b>100</b>	<b>0.000075</b>	
Lead	ND	25	<0.000015	
Manganese	ND	100	<0.000060	

**Lab ID:** 21040375-05A  
**Client Sample ID:** Q0424258-MSE01

**Collection Date:** 4/3/2021 8:38:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1682380</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>39</b>	<b>1.0</b>	<b>0.023</b>	

**Lab ID:** 21040375-06A  
**Client Sample ID:** 9894257-MSE01

**Collection Date:** 4/3/2021 8:38:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1703930</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>44</b>	<b>1.0</b>	<b>0.026</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1703930</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 14:51		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>140</b>	<b>100</b>	<b>0.000082</b>	
Lead	ND	25	<0.000015	
Manganese	ND	100	<0.000059	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040375

**Analytical Results**

**Lab ID:** 21040375-07A  
**Client Sample ID:** Q0424259-MSE02

**Collection Date:** 4/3/2021 8:20:00 AM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1693990	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>28</b>	<b>1.0</b>	<b>0.016</b>	

**Lab ID:** 21040375-08A  
**Client Sample ID:** 9894258-MSE02

**Collection Date:** 4/3/2021 8:20:00 AM  
**Matrix:** AIR

**Analyses**

TSP 40 CFR 50 APPDIX B	Method: TSP		Air Volume (L): 1725780	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>44</b>	<b>1.0</b>	<b>0.026</b>	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 1725780	Analyst: AZ
Date Analyzed: 4/12/2021 14:55	µg/sample	Reporting Limit µg/sample	mg/m3	
<b>Copper</b>	<b>180</b>	<b>100</b>	<b>0.00010</b>	
Lead	ND	25	<0.000014	
Manganese	ND	100	<0.000058	

**Lab ID:** 21040375-09A  
**Client Sample ID:** Q0424260-MSE01

**Collection Date:** 4/3/2021 3:35:00 PM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 459890	Analyst: SRL
Date Analyzed: 4/9/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>6.3</b>	<b>1.0</b>	<b>0.014</b>	

**Note:**



**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040375

**Analytical Results**

**Lab ID:** 21040375-10A  
**Client Sample ID:** 9894259-MSE01

**Collection Date:** 4/3/2021 3:35:00 PM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>460300</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>5.9</b>	<b>1.0</b>	<b>0.013</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>460300</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 14:58		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	ND	100	<0.00022	
Lead	ND	25	<0.000054	
Manganese	ND	100	<0.00022	

**Lab ID:** 21040375-11A  
**Client Sample ID:** Q0424261-MSE02

**Collection Date:** 4/3/2021 3:25:00 PM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>490160</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>4.6</b>	<b>1.0</b>	<b>0.0093</b>	

**Lab ID:** 21040375-12A  
**Client Sample ID:** 9894260-MSE02

**Collection Date:** 4/3/2021 3:25:00 PM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>503130</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>5.9</b>	<b>1.0</b>	<b>0.012</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>503130</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 15:10		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	ND	100	<0.00020	
Lead	ND	25	<0.000050	
Manganese	ND	100	<0.00020	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040375

**Analytical Results**

**Lab ID:** 21040375-13A  
**Client Sample ID:** Q0424262-MSE01

**Collection Date:** 4/6/2021 7:43:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1619350</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>30</b>	<b>1.0</b>	<b>0.018</b>	

**Lab ID:** 21040375-14A  
**Client Sample ID:** 9894261-MSE01

**Collection Date:** 4/6/2021 7:43:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1551880</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>27</b>	<b>1.0</b>	<b>0.017</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1551880</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 15:13		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>150</b>	<b>100</b>	<b>0.000096</b>	
Lead	ND	25	<0.000016	
Manganese	ND	100	<0.000064	

**Lab ID:** 21040375-15A  
**Client Sample ID:** Q0424263-MSE02

**Collection Date:** 4/6/2021 7:30:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1637710</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>23</b>	<b>1.0</b>	<b>0.014</b>	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040375

**Analytical Results**

**Lab ID:** 21040375-16A  
**Client Sample ID:** 9894262-MSE02

**Collection Date:** 4/6/2021 7:30:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>		Air Volume (L): <b>1672150</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/9/2021		Reporting Limit			
	mg/sample	mg/sample		mg/m3	
<b>Total suspended particulate</b>	<b>32</b>	<b>1.0</b>		<b>0.019</b>	
<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>		Air Volume (L): <b>1672150</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/12/2021 15:17		Reporting Limit			
	µg/sample	µg/sample		mg/m3	
<b>Copper</b>	<b>220</b>	<b>100</b>		<b>0.00013</b>	
Lead	ND	25		<0.000015	
Manganese	ND	100		<0.000060	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21040375  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R190607** Instrument ID: **BAL2** Method: **TSP**

DUP		Sample ID: <b>21040210-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID:		Run ID: <b>BAL2_210409A</b>			SeqNo: <b>2436628</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	65.27	1.0	0	0	0		65.85	0.885	20	

DUP		Sample ID: <b>21040375-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID: <b>9894255-MSE01</b>		Run ID: <b>BAL2_210409A</b>			SeqNo: <b>2436633</b>		Prep Date:		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	71.55	1.0	0	0	0		71.52	0.0419	20	

The following samples were analyzed in this batch:

21040375-02A	21040375-04A	21040375-06A
21040375-08A	21040375-10A	21040375-12A
21040375-14A	21040375-16A	

**Client:** Gilbane Company  
**Work Order:** 21040375  
**Project:** HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **R190608**      Instrument ID: **BAL2**      Method: **PM10**

DUP		Sample ID: <b>21040210-01A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID:		Run ID: <b>BAL2_210409B</b>		SeqNo: <b>2436656</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	41.94	1.0	0	0	0		42.15	0.499	20	

DUP		Sample ID: <b>21040375-01A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/9/2021</b>		
Client ID: <b>Q0424256-MSE01</b>		Run ID: <b>BAL2_210409B</b>		SeqNo: <b>2436661</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	57.28	1.0	0	0	0		56.58	1.23	20	

The following samples were analyzed in this batch:

21040375-01A	21040375-03A	21040375-05A
21040375-07A	21040375-09A	21040375-11A
21040375-13A	21040375-15A	

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gilbane Company  
 Work Order: 21040375  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: 73772 Instrument ID: ICP3 Method: E12

MBLK		Sample ID: MBLK-73772-73772				Units: µg/sample		Analysis Date: 4/12/2021 02:00 PM			
Client ID:		Run ID: ICP3_210412A				SeqNo: 2438001		Prep Date: 4/12/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	ND	100									
Lead	ND	25									
Manganese	ND	100									

LCS		Sample ID: LCS-73772-73772				Units: µg/sample		Analysis Date: 4/12/2021 02:04 PM			
Client ID:		Run ID: ICP3_210412A				SeqNo: 2438002		Prep Date: 4/12/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	355.8	100	450	0	79.1	75-125	0				
Lead	431.5	25	450	0	95.9	75-125	0				
Manganese	342.9	100	450	0	76.2	75-125	0				

LCSD		Sample ID: LCSD-73772-73772				Units: µg/sample		Analysis Date: 4/12/2021 02:08 PM			
Client ID:		Run ID: ICP3_210412A				SeqNo: 2438003		Prep Date: 4/12/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	356.1	100	450	0	79.1	75-125	355.8	0.0759	20		
Lead	435.7	25	450	0	96.8	75-125	431.5	0.965	20		
Manganese	344.8	100	450	0	76.6	75-125	342.9	0.563	20		

MS		Sample ID: 21040375-10A MS				Units: µg/sample		Analysis Date: 4/12/2021 03:02 PM			
Client ID: 9894259-MSE01		Run ID: ICP3_210412A				SeqNo: 2438013		Prep Date: 4/12/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	390.2	100	450	41.5	77.5	75-125	0				
Lead	440.2	25	450	0	97.8	75-125	0				
Manganese	346.1	100	450	0	76.9	75-125	0				

MSD		Sample ID: 21040375-10A MSD				Units: µg/sample		Analysis Date: 4/12/2021 03:06 PM			
Client ID: 9894259-MSE01		Run ID: ICP3_210412A				SeqNo: 2438014		Prep Date: 4/12/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	373.3	100	450	41.5	73.7	75-125	390.2	4.43	20	S	
Lead	442.1	25	450	0	98.2	75-125	440.2	0.428	20		
Manganese	334.7	100	450	0	74.4	75-125	346.1	3.34	20	S	

The following samples were analyzed in this batch:

21040375-02A	21040375-04A	21040375-06A
21040375-08A	21040375-10A	21040375-12A
21040375-14A	21040375-16A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21040375

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: **GILBANE-WALNUTCREEK**

Date/Time Received: **07-Apr-21 11:03**

Work Order: **21040375**

Received by: **JNW**

Checklist completed by: Rob Nieman 12-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 12-Apr-21  
eSignature Date

Matrices:

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:





**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

**COC # KT040621**



21040375

<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> ALS Laboratory Group, Cincinnati, OH	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	<b>POC:</b> [Redacted]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 4388 Glendale Milford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP														<b>Code</b> Matrix
																		A Air
<b>Equipment:</b>																		<b>Code</b> Container/Preservative
																		1 1x 250-mL Plastic, 4 Degrees C
																		1 1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																			
Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																Top	Bottom		
12 9894260-MSE02	A	04/03/2021	1525	KT		X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 503.13
13 Q0424262-MSE01	A	04/06/2021	0743	KT	X									AMSE1	N1	0.00	0.00	1	VOLUME: 1619.35
14 9894261-MSE01	A	04/06/2021	0743	KT		X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1551.88
15 Q0424263-MSE02	A	04/06/2021	0730	KT	X									AMSE2	N1	0.00	0.00	1	VOLUME: 1637.71
16 9894262-MSE02	A	04/06/2021	0730	KT		X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1672.15
17																			
18																			

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Signature]	4/6/21	1200	FedEx	4/6/21	1200	Shipping Date: 4/6/2021/FedEx 773364958806
			[Signature]	4/7/21	1100	
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

# Laboratory Analysis Report

Job ID : 21040543



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 04/08/2021 11:30  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kimberly Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-040121	4/1/2021 16:32	Cassette	21040543.01
MSE02-040121	4/1/2021 16:22	Cassette	21040543.02
MSE01-040221	4/2/2021 15:30	Cassette	21040543.03
MSE02-040221	4/2/2021 15:40	Cassette	21040543.04
MSE01-040321	4/3/2021 15:25	Cassette	21040543.05
MSE02-040321	4/3/2021 15:30	Cassette	21040543.06
MSE01-040521	4/5/2021 16:38	Cassette	21040543.07
MSE02-040521	4/5/2021 16:30	Cassette	21040543.08

*Alisha Hughes*

Released By: Alisha Hughes

Title: Project Manager

Analyst:

*Kimberly Tom*

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

4/13/2021



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
SAMPLING PERFORMED BY CLIENT  
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 300080**

Date 4/13/2021

Job ID : 21040543  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21040543.01	MSE01-040121	04/01/2021	Area	2			504	1008	100	14.5	18.471	0.007		04/13/21	Habedi
21040543.02	MSE02-040121	04/01/2021	Area	2			509	1018	100	12.0	15.287	0.006		04/13/21	Habedi
21040543.03	MSE01-040221	04/02/2021	Area	2			459	918	100	14.0	17.834	0.007		04/13/21	Habedi
21040543.04	MSE02-040221	04/02/2021	Area	2			481	962	100	10.0	12.739	0.005		04/13/21	Habedi
21040543.05	MSE01-040321	04/03/2021	Area	2			410	820	100	10.0	12.739	0.006		04/13/21	Habedi
21040543.06	MSE02-040321	04/03/2021	Area	2			423	846	100	8	10.191	0.005		04/13/21	Habedi
21040543.07	MSE01-040521	04/05/2021	Area	2			528	1056	100	8.5	10.828	0.004		04/13/21	Habedi
21040543.08	MSE02-040521	04/05/2021	Area	2			530	1060	100	10.5	13.376	0.005		04/13/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21040543</b>		Date Received : <b>04/08/2021</b>		Time Received : <b>11:30AM</b>								
Client Name : <b>Gilbane</b>												
Temperature : <b>21.9°C</b>		Sample pH : <b>N/A</b>										
Thermometer ID : <b>102002320</b>		pH Paper ID : <b>N/A</b>										
Perservative :												
	<b>Check Points</b>					<b>Yes</b>	<b>No</b>	<b>N/A</b>				
<b>1.</b>	<b>Cooler seal present and signed.</b>					X						
<b>2.</b>	<b>Sample(s) in a cooler.</b>						X					
<b>3.</b>	<b>If yes, ice in cooler.</b>							X				
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>					X						
<b>5.</b>	<b>C-O-C signed and dated.</b>					X						
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>						X					
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>					X						
<b>8.</b>	<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>					X						
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>							X				
<b>11.</b>	<b>All samples were logged or labeled.</b>					X						
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>						X					
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>					X						
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>					X						
<b>15.</b>	<b>Samples were received within the hold time.</b>					X						
<b>16.</b>	<b>VOA vials completely filled.</b>							X				
<b>17.</b>	<b>Sample accepted.</b>					X						
<b>18.</b>	<b>Has client been contacted about sub-out</b>							X				
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>												
Samples received in box with C/S. JM 4-8-21; 05, 06= same sx ID labeled by C/T. -VH 04-12-21												

Received by : JMontemayor

Check in by/date : JMontemayor / 04/08/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 4/6/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Analysis:

**\* Job ID:21040543**



Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-040121	01A	4/01/2021	1632	NA	NA	1	AA	X		504
MSE02-040121	02A	4/01/2021	1622	NA	NA	1	AA	X		509
MSE01-040221	03A	4/02/2021	1530	NA	NA	1	AA	X		459
MSE02-040221	04A	4/02/2021	1540	NA	NA	1	AA	X		481
MSE01-040321	05A	4/03/2021	1525	NA	NA	1	AA	X		410
MSE02-040321	06A	4/03/2021	1530	NA	NA	1	AA	X		423
MSE01-040521	07A	4/05/2021	1638	NA	NA	1	AA	X		528
MSE02-040521	08A	4/05/2021	1630	NA	NA	1	AA	X		530

Sampled By: Kimberly [Signature]  
 Signature: [Signature]  
 Special Instructions: none  
 Send Results to: [Redacted]  
 Turnaround Time: Standard

Sampler: Kimberly [Signature] Courier/Airbill No.: FedEx/ 7733 5786 4807  
 Relinquished By/Affiliation: Kimberly [Signature] / Gilbane Date: 4/6/21 Time: 1200 Received By/ Affiliation: [Signature] Date: 4/6/21 Time: 1130  
 [Handwritten notes: 1-8-21, 1130, NC 21.9' < 10200520 < 1/5]





16-Apr-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21040568**

Dear Brett,

ALS Environmental received 8 samples on 09-Apr-2021 11:36 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040568

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21040568-01	Q0424264-MSE01	Air		4/7/2021 07:45	4/9/2021 11:36	<input type="checkbox"/>
21040568-02	9894264-MSE01	Air		4/7/2021 07:45	4/9/2021 11:36	<input type="checkbox"/>
21040568-03	Q0424265-MSE02	Air		4/7/2021 07:32	4/9/2021 11:36	<input type="checkbox"/>
21040568-04	9894263-MSE02	Air		4/7/2021 07:32	4/9/2021 11:36	<input type="checkbox"/>
21040568-05	Q0424266-MSE01	Air		4/8/2021 08:00	4/9/2021 11:36	<input type="checkbox"/>
21040568-06	9894265-MSE01	Air		4/8/2021 08:00	4/9/2021 11:36	<input type="checkbox"/>
21040568-07	Q0424267-MSE02	Air		4/8/2021 07:35	4/9/2021 11:36	<input type="checkbox"/>
21040568-08	9894266-MSE02	Air		4/8/2021 07:35	4/9/2021 11:36	<input type="checkbox"/>



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**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040568

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**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040568

## Analytical Results

**Lab ID:** 21040568-01A  
**Client Sample ID:** Q0424264-MSE01

**Collection Date:** 4/7/2021 7:45:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1632250	Analyst: SRL
Date Analyzed: 4/14/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	42	1.0	0.025	

**Lab ID:** 21040568-02A  
**Client Sample ID:** 9894264-MSE01

**Collection Date:** 4/7/2021 7:45:00 AM  
**Matrix:** AIR

### Analyses

TSP 40 CFR 50 APPDX B	Method: TSP		Air Volume (L): 1679890	Analyst: SRL
Date Analyzed: 4/14/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	44	1.0	0.026	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 1679890	Analyst: AZ
Date Analyzed: 4/15/2021 22:01	µg/sample	Reporting Limit µg/sample	mg/m3	
Copper	150	25	0.000087	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040568-03A  
**Client Sample ID:** Q0424265-MSE02

**Collection Date:** 4/7/2021 7:32:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1646810	Analyst: SRL
Date Analyzed: 4/14/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	42	1.0	0.025	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040568

**Analytical Results**

**Lab ID:** 21040568-04A  
**Client Sample ID:** 9894263-MSE02

**Collection Date:** 4/7/2021 7:32:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1681510</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>56</b>	<b>1.0</b>	<b>0.033</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1681510</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/15/2021 22:04		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>150</b>	<b>25</b>	<b>0.000092</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040568-05A  
**Client Sample ID:** Q0424266-MSE01

**Collection Date:** 4/8/2021 8:00:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1639060</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>58</b>	<b>1.0</b>	<b>0.035</b>	

**Lab ID:** 21040568-06A  
**Client Sample ID:** 9894265-MSE01

**Collection Date:** 4/8/2021 8:00:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1633230</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>41</b>	<b>1.0</b>	<b>0.025</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1633230</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/15/2021 22:16		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>110</b>	<b>25</b>	<b>0.000070</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040568

**Analytical Results**

**Lab ID:** 21040568-07A  
**Client Sample ID:** Q0424267-MSE02

**Collection Date:** 4/8/2021 7:35:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1645540</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>26</b>	<b>1.0</b>	<b>0.016</b>	

**Lab ID:** 21040568-08A  
**Client Sample ID:** 9894266-MSE02

**Collection Date:** 4/8/2021 7:35:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1681080</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/14/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>33</b>	<b>1.0</b>	<b>0.020</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1681080</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/15/2021 22:20		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>71</b>	<b>25</b>	<b>0.000042</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Note:**

ALS Environmental

Date: 16-Apr-21

**Client:** Gilbane Company  
**Work Order:** 21040568  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R190753** Instrument ID: **BAL2** Method: **TSP**

<b>DUP</b>	Sample ID: <b>21040568-04A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/14/2021</b>			
Client ID: <b>9894263-MSE02</b>	Run ID: <b>BAL2_210414A</b>			SeqNo: <b>2439594</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	55.22	1.0	0	0	0		55.71	0.883	20	

The following samples were analyzed in this batch:

21040568-02A	21040568-04A	21040568-06A
21040568-08A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Work Order:** 21040568  
**Project:** HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **R190754**      Instrument ID: **BAL2**      Method: **PM10**

DUP		Sample ID: <b>21040568-01A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/14/2021</b>		
Client ID: <b>Q0424264-MSE01</b>		Run ID: <b>BAL2_210414B</b>		SeqNo: <b>2439598</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	41.35	1.0	0	0	0		41.57	0.531	20	

The following samples were analyzed in this batch:

21040568-01A	21040568-03A	21040568-05A
21040568-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gilbane Company  
 Work Order: 21040568  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **73886** Instrument ID: **ICP1** Method: **E12**

MBLK		Sample ID: <b>MBLK-73886-73886</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/15/2021 09:49 PM</b>			
Client ID:		Run ID: <b>ICP1_210415B</b>				SeqNo: <b>2441858</b>		Prep Date: <b>4/15/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	ND	100									
Lead	ND	25									
Manganese	ND	100									

LCS		Sample ID: <b>LCS-73886-73886</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/15/2021 09:53 PM</b>			
Client ID:		Run ID: <b>ICP1_210415B</b>				SeqNo: <b>2441859</b>		Prep Date: <b>4/15/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	346	100	450	0	76.9	75-125	0				
Lead	373	25	450	0	82.9	75-125	0				
Manganese	339.9	100	450	0	75.5	75-125	0				

LCSD		Sample ID: <b>LCSD-73886-73886</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/15/2021 09:57 PM</b>			
Client ID:		Run ID: <b>ICP1_210415B</b>				SeqNo: <b>2441860</b>		Prep Date: <b>4/15/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	355.1	100	450	0	78.9	75-125	346	2.62	20		
Lead	378.8	25	450	0	84.2	75-125	373	1.56	20		
Manganese	347.8	100	450	0	77.3	75-125	339.9	2.3	20		

MS		Sample ID: <b>21040568-04A MS</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/15/2021 10:08 PM</b>			
Client ID: <b>9894263-MSE02</b>		Run ID: <b>ICP1_210415B</b>				SeqNo: <b>2441863</b>		Prep Date: <b>4/15/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	487.4	100	450	154	74.1	75-125	0			S	
Lead	368.2	25	450	4.016	80.9	75-125	0				
Manganese	335.9	100	450	14.26	71.5	75-125	0			S	

MSD		Sample ID: <b>21040568-04A MSD</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/15/2021 10:12 PM</b>			
Client ID: <b>9894263-MSE02</b>		Run ID: <b>ICP1_210415B</b>				SeqNo: <b>2441864</b>		Prep Date: <b>4/15/2021</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	522	100	450	154	81.8	75-125	487.4	6.87	20		
Lead	380.2	25	450	4.016	83.6	75-125	368.2	3.21	20		
Manganese	350.7	100	450	14.26	74.8	75-125	335.9	4.3	20	S	

The following samples were analyzed in this batch:

21040568-02A	21040568-04A	21040568-06A
21040568-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21040568

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	



Sample Receipt Checklist

Client Name: **GILBANE-WALNUTCREEK**

Date/Time Received: **09-Apr-21 11:36**

Work Order: **21040568**

Received by: **SMS**

Checklist completed by: Stephanie Harrington 12-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 13-Apr-21  
eSignature Date

Matrices:

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

21040568

COC # KT040821



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: ALS Laboratory Group, Cincinnati, OH	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [REDACTED]	
WBS Code: J310000400-016	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242	

Comments:	Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP														Code	Matrix
																		A	Air
Equipment:																		Code	Container/Preservative
																		1	1x 250-mL Plastic, 4 Degrees C
																		1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																			
Sample ID	Matrix	Date	Time	Samp Int.										Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	Q0424264-MSE01	A	04/07/2021	0745	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1632.25
2	9894264-MSE01	A	04/07/2021	0745	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1679.89
3	Q0424265-MSE02	A	04/07/2021	0732	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1646.81
4	9894263-MSE02	A	04/07/2021	0732	KT		X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1681.51
5	Q0424266-MSE01	A	04/08/2021	0800	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1639.06
6	9894265-MSE01	A	04/08/2021	0800	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1633.23
7	Q0424267-MSE02	A	04/08/2021	0735	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1645.54
8	9894266-MSE02	A	04/08/2021	0735	KT		X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1681.08
9																			
10																			

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	4/8/21	1300	FedEx	4/8/21	1300	Shipping Date: 4/8/2021 / FedEx 7733 9042 7708
				4/9/21	1136	
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>
						<b>DELIVERY METHOD:</b> US MAIL UPS DHL CLIENT DROP BOX <b>COOLING METHOD:</b> NONE COOLER WET ICE ICE PACK <b>CUSTODY SEALS:</b> NONE <b>COOLER:</b> <del>COOLING</del> <b>PACKAGING:</b> <del>COOLING</del> <b>SAMPLES:</b> <del>COOLING</del> <b>COOLER TEMP:</b> _____ °C <b>IR#:</b> 119059

# Laboratory Analysis Report

Job ID : 21040786



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 04/12/2021 10:00  
City, State, Zip: Concord, California, 94520 Sample Collected By : K. Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-040621	4/6/2021 16:52	Cassette	21040786.01
MSE02-040621	4/6/2021 16:56	Cassette	21040786.02
MSE01-040721	4/7/2021 14:52	Cassette	21040786.03
MSE02-040721	4/7/2021 14:50	Cassette	21040786.04

A handwritten signature in black ink, appearing to read 'S. Sevukan'.

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'K. Tom'.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

4/15/2021



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
SAMPLING PERFORMED BY CLIENT  
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 300080**

Date 4/15/2021

Job ID : 21040786  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21040786.01	MSE01-040621	04/06/2021	Area	2			548	1096	100	11.5	14.650	0.005		04/15/21	Habedi
21040786.02	MSE02-040621	04/06/2021	Area	2			564	1128	100	12.0	15.287	0.005		04/15/21	Habedi
21040786.03	MSE01-040721	04/07/2021	Area	2			422	844	100	10.0	12.739	0.006		04/15/21	Habedi
21040786.04	MSE02-040721	04/07/2021	Area	2			432	864	100	8.5	10.828	0.005		04/15/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21040786</b>		Date Received : <b>04/12/2021</b>		Time Received : <b>10:00AM</b>								
Client Name : <b>Gilbane</b>												
Temperature : <b>23.1°C</b>		Sample pH : <b>N/A</b>										
Thermometer ID : <b>102002320</b>		pH Paper ID : <b>N/A</b>										
Perservative :												
	<b>Check Points</b>					<b>Yes</b>	<b>No</b>	<b>N/A</b>				
<b>1.</b>	<b>Cooler seal present and signed.</b>					X						
<b>2.</b>	<b>Sample(s) in a cooler.</b>						X					
<b>3.</b>	<b>If yes, ice in cooler.</b>							X				
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>					X						
<b>5.</b>	<b>C-O-C signed and dated.</b>					X						
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>						X					
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>					X						
<b>8.</b>	<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>					X						
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>							X				
<b>11.</b>	<b>All samples were logged or labeled.</b>					X						
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>					X						
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>					X						
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>					X						
<b>15.</b>	<b>Samples were received within the hold time.</b>					X						
<b>16.</b>	<b>VOA vials completely filled.</b>							X				
<b>17.</b>	<b>Sample accepted.</b>					X						
<b>18.</b>	<b>Has client been contacted about sub-out</b>							X				
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>												
C/S on box. JM 4-12-21												

Received by : JMontemayor

Check in by/date : JMontemayor / 04/12/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400  
 Project Manager: [Redacted]  
 Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: A&B Labs Date: 4/8/2021  
 Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
Houston TX 77029

Analysis:

**\* Job ID:21040786**



Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Preservative:	None		
MSE01-040621	01A	4/06/2021	1652	NA	1	AA	X		548	
MSE02-040621	02A	4/06/2021	1656	NA	1	AA	X		564	
MSE01-040721	03A	4/07/2021	1452	NA	1	AA	X		422	
MSE02-040721	04A	4/07/2021	1450	NA	1	AA	X		432	

Sampled By: K. Ton  
 Signature: [Signature]  
 Special Instructions: None  
 Send Results to: [Redacted]  
 Turnaround Time: Standard

Sampler: K. Ton Courier/Airbill No.: FedEx/ 7733 9038 4046  
 Relinquished By/Affiliation: K. Ton / Gilbane Date: 4/8/21 Time: 1300  
Fabk  
 Received By/ Affiliation: FedEx Date: 4/8/21 Time: 1300  
+1221  
 23.1°C 10800320



21-Apr-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21040856**

Dear Brett,

ALS Environmental received 12 samples on 14-Apr-2021 11:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040856

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21040856-01	Q0424268-MSE01	Air		4/9/2021 08:13	4/14/2021 11:45	<input type="checkbox"/>
21040856-02	9894267-MSE01	Air		4/9/2021 08:13	4/14/2021 11:45	<input type="checkbox"/>
21040856-03	Q0424269-MSE02	Air		4/9/2021 08:03	4/14/2021 11:45	<input type="checkbox"/>
21040856-04	9894268-MSE02	Air		4/9/2021 08:03	4/14/2021 11:45	<input type="checkbox"/>
21040856-05	Q0424270-MSE01	Air		4/9/2021 13:18	4/14/2021 11:45	<input type="checkbox"/>
21040856-06	9894269-MSE01	Air		4/9/2021 13:18	4/14/2021 11:45	<input type="checkbox"/>
21040856-07	Q0424271-MSE02	Air		4/9/2021 13:30	4/14/2021 11:45	<input type="checkbox"/>
21040856-08	9894270-MSE02	Air		4/9/2021 13:30	4/14/2021 11:45	<input type="checkbox"/>
21040856-09	Q0424272-MSE01	Air		4/13/2021 07:55	4/14/2021 11:45	<input type="checkbox"/>
21040856-10	9894271-MSE01	Air		4/13/2021 07:55	4/14/2021 11:45	<input type="checkbox"/>
21040856-11	Q0424273-MSE02	Air		4/13/2021 07:41	4/14/2021 11:45	<input type="checkbox"/>
21040856-12	9894272-MSE02	Air		4/13/2021 07:41	4/14/2021 11:45	<input type="checkbox"/>



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**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21040856

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**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040856

**Analytical Results**

**Lab ID:** 21040856-01A  
**Client Sample ID:** Q0424268-MSE01

**Collection Date:** 4/9/2021 8:13:00 AM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1640700	Analyst: SRL
Date Analyzed: 4/21/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	47	1.0	0.029	

**Lab ID:** 21040856-02A  
**Client Sample ID:** 9894267-MSE01

**Collection Date:** 4/9/2021 8:13:00 AM  
**Matrix:** AIR

**Analyses**

TSP 40 CFR 50 APPDX B	Method: TSP		Air Volume (L): 1640600	Analyst: SRL
Date Analyzed: 4/21/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	38	1.0	0.023	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 1640600	Analyst: AZ
Date Analyzed: 4/21/2021 14:46	µg/sample	Reporting Limit µg/sample	mg/m3	
Copper	140	25	0.000088	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040856-03A  
**Client Sample ID:** Q0424269-MSE02

**Collection Date:** 4/9/2021 8:03:00 AM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1672960	Analyst: SRL
Date Analyzed: 4/21/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	42	1.0	0.025	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040856

**Analytical Results**

**Lab ID:** 21040856-04A  
**Client Sample ID:** 9894268-MSE02

**Collection Date:** 4/9/2021 8:03:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1701410</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>37</b>	<b>1.0</b>	<b>0.022</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1701410</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/21/2021 14:58		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>130</b>	<b>25</b>	<b>0.000074</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21040856-05A  
**Client Sample ID:** Q0424270-MSE01

**Collection Date:** 4/9/2021 1:18:00 PM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>340990</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>20</b>	<b>1.0</b>	<b>0.060</b>	

**Lab ID:** 21040856-06A  
**Client Sample ID:** 9894269-MSE01

**Collection Date:** 4/9/2021 1:18:00 PM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>343780</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/21/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>1.4</b>	<b>1.0</b>	<b>0.0041</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>343780</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/21/2021 15:02		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	ND	25	<0.000073	
Lead	ND	25	<0.000073	
Manganese	ND	25	<0.000073	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040856

**Analytical Results**

**Lab ID:** 21040856-07A  
**Client Sample ID:** Q0424271-MSE02

**Collection Date:** 4/9/2021 1:30:00 PM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 368450	Analyst: SRL
Date Analyzed: 4/21/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	9.0	1.0	0.024	

**Lab ID:** 21040856-08A  
**Client Sample ID:** 9894270-MSE02

**Collection Date:** 4/9/2021 1:30:00 PM  
**Matrix:** AIR

**Analyses**

TSP 40 CFR 50 APPDX B	Method: TSP		Air Volume (L): 380480	Analyst: SRL
Date Analyzed: 4/21/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	ND	1.0	<0.0026	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 380480	Analyst: AZ
Date Analyzed: 4/21/2021 15:05	µg/sample	Reporting Limit µg/sample	mg/m3	
Copper	ND	25	<0.000066	
Lead	ND	25	<0.000066	
Manganese	ND	25	<0.000066	

**Lab ID:** 21040856-09A  
**Client Sample ID:** Q0424272-MSE01

**Collection Date:** 4/13/2021 7:55:00 AM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1679520	Analyst: SRL
Date Analyzed: 4/21/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	73	1.0	0.044	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21040856

**Analytical Results**

**Lab ID:** 21040856-10A  
**Client Sample ID:** 9894271-MSE01

**Collection Date:** 4/13/2021 7:55:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1680540</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/21/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>86</b>	<b>1.0</b>	<b>0.051</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1680540</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/21/2021 15:17		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>290</b>	<b>25</b>	<b>0.00017</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000015</b>	
<b>Manganese</b>	<b>33</b>	<b>25</b>	<b>0.000019</b>	

**Lab ID:** 21040856-11A  
**Client Sample ID:** Q0424273-MSE02

**Collection Date:** 4/13/2021 7:41:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1624130</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/21/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>93</b>	<b>1.0</b>	<b>0.057</b>	

**Lab ID:** 21040856-12A  
**Client Sample ID:** 9894272-MSE02

**Collection Date:** 4/13/2021 7:41:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1557440</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/21/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>73</b>	<b>1.0</b>	<b>0.047</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1557440</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/21/2021 15:21		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>110</b>	<b>25</b>	<b>0.000074</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000016</b>	
<b>Manganese</b>	<b>26</b>	<b>25</b>	<b>0.000017</b>	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21040856  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R190988** Instrument ID: **BAL2** Method: **TSP**

<b>DUP</b>	Sample ID: <b>21040856-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/21/2021</b>			
Client ID: <b>9894267-MSE01</b>	Run ID: <b>BAL2_210421A</b>			SeqNo: <b>2446223</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	37.07	1.0	0	0	0		37.99	2.45	20	

The following samples were analyzed in this batch:

21040856-02A	21040856-04A	21040856-06A
21040856-08A	21040856-10A	21040856-12A

**Client:** Gilbane Company  
**Work Order:** 21040856  
**Project:** HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **R190989**      Instrument ID: **BAL2**      Method: **PM10**

DUP		Sample ID: <b>21040856-11A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/21/2021</b>		
Client ID: <b>Q0424273-MSE02</b>		Run ID: <b>BAL2_210421B</b>		SeqNo: <b>2446235</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	92.77	1.0	0	0	0		92.76	0.0108	20	

The following samples were analyzed in this batch:

21040856-01A	21040856-03A	21040856-05A
21040856-07A	21040856-09A	21040856-11A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gilbane Company  
 Work Order: 21040856  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **74013** Instrument ID: **ICP3** Method: **E12**

MBLK		Sample ID: <b>MBLK-74013-74013</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/21/2021 02:35 PM</b>		
Client ID:		Run ID: <b>ICP3_210421B</b>				SeqNo: <b>2446630</b>		Prep Date: <b>4/21/2021</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	100								
Lead	ND	25								
Manganese	ND	100								

LCS		Sample ID: <b>LCS-74013-74013</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/21/2021 02:39 PM</b>		
Client ID:		Run ID: <b>ICP3_210421B</b>				SeqNo: <b>2446631</b>		Prep Date: <b>4/21/2021</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	361.5	100	450	0	80.3	75-125	0			
Lead	395.3	25	450	0	87.8	75-125	0			
Manganese	365.6	100	450	0	81.2	75-125	0			

LCSD		Sample ID: <b>LCSD-74013-74013</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/21/2021 02:43 PM</b>		
Client ID:		Run ID: <b>ICP3_210421B</b>				SeqNo: <b>2446632</b>		Prep Date: <b>4/21/2021</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	380.7	100	450	0	84.6	75-125	361.5	5.17	20	
Lead	402.8	25	450	0	89.5	75-125	395.3	1.86	20	
Manganese	382.8	100	450	0	85.1	75-125	365.6	4.61	20	

MS		Sample ID: <b>21040856-02A MS</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/21/2021 02:50 PM</b>		
Client ID: <b>9894267-MSE01</b>		Run ID: <b>ICP3_210421B</b>				SeqNo: <b>2446634</b>		Prep Date: <b>4/21/2021</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	516.2	100	450	143.8	82.7	75-125	0			
Lead	406.8	25	450	11.72	87.8	75-125	0			
Manganese	398.1	100	450	15.18	85.1	75-125	0			

MSD		Sample ID: <b>21040856-02A MSD</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/21/2021 02:54 PM</b>		
Client ID: <b>9894267-MSE01</b>		Run ID: <b>ICP3_210421B</b>				SeqNo: <b>2446635</b>		Prep Date: <b>4/21/2021</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	496.4	100	450	143.8	78.3	75-125	516.2	3.91	20	
Lead	397.5	25	450	11.72	85.7	75-125	406.8	2.29	20	
Manganese	368.9	100	450	15.18	78.6	75-125	398.1	7.6	20	

The following samples were analyzed in this batch:

21040856-02A	21040856-04A	21040856-06A
21040856-08A	21040856-10A	21040856-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21040856

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: **GILBANE-WALNUTCREEK**

Date/Time Received: **14-Apr-21 11:45**

Work Order: **21040856**

Received by: **SNH**

Checklist completed by: Stephanie Harrington 14-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 16-Apr-21  
eSignature Date

Matrices:

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

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Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

21040856

COC # KT041321



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> ALS Laboratory Group, Cincinnati, OH	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	<b>POC:</b> [REDACTED]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 4388 Glendale Milford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10 E12 - Air Pb Mn Cu N0500 - Air TSP	<b>Code</b>	<b>Matrix</b>
			A	Air
<b>Equipment:</b>			<b>Code</b>	<b>Container/Preservative</b>
			1	1x 250-mL Plastic, 4 Degrees C
			1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																			
Sample ID	Matrix	Date	Time	Samp Int.	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																Top	Bottom		
1	Q0424268-MSE01	A	04/09/2021	0813	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1640.70
2	9894267-MSE01	A	04/09/2021	0813	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1640.60
3	Q0424269-MSE02	A	04/09/2021	0803	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1672.96
4	9894268-MSE02	A	04/09/2021	0803	KT		X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1701.41
5	Q0424270-MSE01	A	04/09/2021	1318	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 340.99
6	9894269-MSE01	A	04/09/2021	1318	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 343.78
7	Q0424271-MSE02	A	04/09/2021	1330	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 368.45
8	9894270-MSE02	A	04/09/2021	1330	KT		X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 380.48
9	Q0424272-MSE01	A	04/13/2021	0755	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1679.52
10	9894271-MSE01	A	04/13/2021	0755	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1680.54
11	Q0424273-MSE02	A	04/13/2021	0741	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1624.13

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	4/13/21	1400	FedEx	4/13/21	1400	Shipping Date: 4/13/2021 / FedEx 7734 2953 1453
				4-14-21	1145	<b>Fedex - Custody Seal</b>
						Received by Laboratory: (Signature, Date, Time) & condition

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

21040856

COC # KT041321



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: ALS Laboratory Group, Cincinnati, OH	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC: [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 4388 Glendale Millford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP														<b>Code</b> Matrix
																		A Air
<b>Equipment:</b>																		<b>Code</b> Container/Preservative
																		1 1x 250-mL Plastic, 4 Degrees C
																		1 1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																		
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
														Top	Bottom			
12 9894272-MSE02	A	04/13/2021	0741	KT		X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1557.44	
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	4/13/21	1400		4/13/21	1400	Shipping Date: 4/13/2021 / FedEx 7734 2953 1453
				4-14-21	1145	
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>



26-Apr-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21041053**

Dear Brett,

ALS Environmental received 8 samples on 16-Apr-2021 10:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041053

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21041053-01	Q0424274-MSE01	Air		4/14/2021 08:15	4/15/2021 13:00	<input type="checkbox"/>
21041053-02	9894273-MSE01	Air		4/14/2021 08:15	4/15/2021 13:00	<input type="checkbox"/>
21041053-03	Q0424275-MSE02	Air		4/14/2021 07:53	4/15/2021 13:00	<input type="checkbox"/>
21041053-04	9894274-MSE02	Air		4/14/2021 07:53	4/15/2021 13:00	<input type="checkbox"/>
21041053-05	Q0424276-MSE01	Air		4/15/2021 07:55	4/15/2021 13:00	<input type="checkbox"/>
21041053-06	9894276-MSE01	Air		4/15/2021 07:55	4/15/2021 13:00	<input type="checkbox"/>
21041053-07	Q0424277-MSE02	Air		4/15/2021 07:41	4/15/2021 13:00	<input type="checkbox"/>
21041053-08	9894275-MSE02	Air		4/15/2021 07:41	4/15/2021 13:00	<input type="checkbox"/>

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**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041053

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**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041053

## Analytical Results

**Lab ID:** 21041053-01A  
**Client Sample ID:** Q0424274-MSE01

**Collection Date:** 4/14/2021 8:15:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1774850	Analyst: SRL
Date Analyzed: 4/23/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	80	1.0	0.045	

**Lab ID:** 21041053-02A  
**Client Sample ID:** 9894273-MSE01

**Collection Date:** 4/14/2021 8:15:00 AM  
**Matrix:** AIR

### Analyses

TSP 40 CFR 50 APPDX B	Method: TSP		Air Volume (L): 1778030	Analyst: SRL
Date Analyzed: 4/23/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	96	1.0	0.054	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 1778030	Analyst: SRL
Date Analyzed: 4/26/2021 13:38	µg/sample	Reporting Limit µg/sample	mg/m3	
Copper	300	25	0.00017	
Lead	ND	25	<0.000014	
Manganese	28	25	0.000016	

**Lab ID:** 21041053-03A  
**Client Sample ID:** Q0424275-MSE02

**Collection Date:** 4/14/2021 7:53:00 AM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 1760310	Analyst: SRL
Date Analyzed: 4/23/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	120	1.0	0.069	

**Note:**



**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041053

**Analytical Results**

**Lab ID:** 21041053-04A  
**Client Sample ID:** 9894274-MSE02

**Collection Date:** 4/14/2021 7:53:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1688020</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>94</b>	<b>1.0</b>	<b>0.056</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1688020</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/26/2021 13:58		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>270</b>	<b>25</b>	<b>0.00016</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000015</b>	
<b>Manganese</b>	<b>36</b>	<b>25</b>	<b>0.000021</b>	

**Lab ID:** 21041053-05A  
**Client Sample ID:** Q0424276-MSE01

**Collection Date:** 4/15/2021 7:55:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1731560</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>74</b>	<b>1.0</b>	<b>0.043</b>	

**Lab ID:** 21041053-06A  
**Client Sample ID:** 9894276-MSE01

**Collection Date:** 4/15/2021 7:55:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1729110</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>66</b>	<b>1.0</b>	<b>0.038</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1729110</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/26/2021 14:02		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>240</b>	<b>25</b>	<b>0.00014</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000014</b>	
<b>Manganese</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000014</b>	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041053

## Analytical Results

**Lab ID:** 21041053-07A  
**Client Sample ID:** Q0424277-MSE02

**Collection Date:** 4/15/2021 7:41:00 AM  
**Matrix:** AIR

### Analyses

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1723680</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>74</b>	<b>1.0</b>	<b>0.043</b>	

**Lab ID:** 21041053-08A  
**Client Sample ID:** 9894275-MSE02

**Collection Date:** 4/15/2021 7:41:00 AM  
**Matrix:** AIR

### Analyses

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1662290</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>89</b>	<b>1.0</b>	<b>0.053</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1662290</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/26/2021 14:05		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>270</b>	<b>25</b>	<b>0.00016</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000015</b>	
<b>Manganese</b>	<b>47</b>	<b>25</b>	<b>0.000028</b>	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21041053  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R191090** Instrument ID: **BAL2** Method: **TSP**

<b>DUP</b>	Sample ID: <b>21041053-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/23/2021</b>			
Client ID: <b>9894273-MSE01</b>	Run ID: <b>BAL2_210423A</b>			SeqNo: <b>2448497</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	98.62	1.0	0	0	0		96.32	2.36	20	

The following samples were analyzed in this batch:

21041053-02A	21041053-04A	21041053-06A
21041053-08A		

**Client:** Gilbane Company  
**Work Order:** 21041053  
**Project:** HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **R191091**      Instrument ID: **BAL2**      Method: **PM10**

DUP		Sample ID: <b>21041278-07A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/23/2021</b>		
Client ID:		Run ID: <b>BAL2_210423B</b>		SeqNo: <b>2448513</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	43.42	1.0	0	0	0		43.19	0.531	20	

The following samples were analyzed in this batch:

21041053-01A	21041053-03A	21041053-05A
21041053-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gilbane Company  
 Work Order: 21041053  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: 74084 Instrument ID: ICP3 Method: E12

MBLK		Sample ID: MBLK-74084-74084				Units: µg/sample		Analysis Date: 4/26/2021 01:27 PM			
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449794		Prep Date: 4/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	ND	100									
Lead	ND	25									
Manganese	ND	100									

LCS		Sample ID: LCS-74084-74084				Units: µg/sample		Analysis Date: 4/26/2021 01:31 PM			
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449795		Prep Date: 4/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	392.1	100	450	0	87.1	75-125	0				
Lead	410.3	25	450	0	91.2	75-125	0				
Manganese	393.1	100	450	0	87.4	75-125	0				

LCSD		Sample ID: LCSD-74084-74084				Units: µg/sample		Analysis Date: 4/26/2021 01:35 PM			
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449796		Prep Date: 4/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	418.1	100	450	0	92.9	75-125	392.1	6.42	20		
Lead	440.4	25	450	0	97.9	75-125	410.3	7.08	20		
Manganese	416.5	100	450	0	92.6	75-125	393.1	5.79	20		

MS		Sample ID: 21041053-02A MS				Units: µg/sample		Analysis Date: 4/26/2021 01:50 PM			
Client ID: 9894273-MSE01		Run ID: ICP3_210426A				SeqNo: 2449798		Prep Date: 4/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	699.3	100	450	302.2	88.2	75-125	0				
Lead	432	25	450	17.29	92.2	75-125	0				
Manganese	422.8	100	450	28.34	87.7	75-125	0				

MSD		Sample ID: 21041053-02A MSD				Units: µg/sample		Analysis Date: 4/26/2021 01:54 PM			
Client ID: 9894273-MSE01		Run ID: ICP3_210426A				SeqNo: 2449799		Prep Date: 4/23/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	707.8	100	450	302.2	90.1	75-125	699.3	1.22	20		
Lead	446.5	25	450	17.29	95.4	75-125	432	3.3	20		
Manganese	433.8	100	450	28.34	90.1	75-125	422.8	2.56	20		

The following samples were analyzed in this batch:

21041053-02A	21041053-04A	21041053-06A
21041053-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21041053

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK

Date/Time Received: 16-Apr-21 10:20

Work Order: 21041053

Received by: SNH

Checklist completed by: Stephanie Harrington 17-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 20-Apr-21  
eSignature Date

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

COC # KT041521



21041053

<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: ALS Laboratory Group, Cincinnati, OH	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC: [Redacted]	
<b>WBS Code:</b> J310000400-016	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	Et2 - Air Pb Mn Cu	N0500 - Air TSP														<b>Code</b> Matrix
																		A Air
<b>Equipment:</b>																		<b>Code</b> Container/Preservative
																		1 1x 250-mL Plastic, 4 Degrees C
																		1 1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																			
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																Top	Bottom		
1	Q0424274-MSE01	A	04/14/2021	0815	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1774.85
2	9894273-MSE01	A	04/14/2021	0815	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1778.03
3	Q0424275-MSE02	A	04/14/2021	0753	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1760.31
4	9894274-MSE02	A	04/14/2021	0753	KT		X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1688.02
5	Q0424276-MSE01	A	04/15/2021	0755	KT	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1731.56
6	9894276-MSE01	A	04/15/2021	0755	KT		X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1729.11
7	Q0424277-MSE02	A	04/15/2021	0741	KT	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1723.68
8	9894275-MSE02	A	04/15/2021	0741	KT		X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1662.29
9																			
10																			

Turnaround Time: 5 days

<b>Relinquished by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
	4/15/21	1300	FedEx	4/15/21	1300	Shipping Date: 4/15/2021 / FedEx 7734 5604 3321
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>
						4-16-21 1020

fedex - Custody Seal Page 1 of 1



# Laboratory Analysis Report

Job ID : 21041069



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 04/14/2021 17:15  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kimberly Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-040821	4/8/2021 15:42	Cassette	21041069.01
MSE02-040821	4/8/2021 15:41	Cassette	21041069.02
MSE01-040921	4/9/2021 15:20	Cassette	21041069.03
MSE02-040921	4/9/2021 15:30	Cassette	21041069.04
MSE01-041221	4/12/2021 15:30	Cassette	21041069.05
MSE02-041221	4/12/2021 15:20	Cassette	21041069.06

A handwritten signature in black ink, appearing to read 'S. C. W. K.', written over a horizontal line.

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'K. Tom', written over a horizontal line.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

4/21/2021



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
 SAMPLING PERFORMED BY CLIENT  
 ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
 AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 30080**

Date 4/21/2021

Job ID : 21041069  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21041069.01	MSE01-040821	04/08/2021	Area	2			482	964	100	9.5	12.102	0.005		04/20/21	Habedi
21041069.02	MSE02-040821	04/08/2021	Area	2			461	922	100	10.5	13.376	0.006		04/20/21	Habedi
21041069.03	MSE01-040921	04/09/2021	Area	2			423	846	100	7	8.917	0.004		04/20/21	Habedi
21041069.04	MSE02-040921	04/09/2021	Area	2			443	886	100	9	11.465	0.005		04/20/21	Habedi
21041069.05	MSE01-041221	04/12/2021	Area	2			402	804	100	12.5	15.924	0.008		04/20/21	Habedi
21041069.06	MSE02-041221	04/12/2021	Area	2			358	716	100	7.5	9.554	0.005		04/20/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21041069</b>	Date Received : <b>04/14/2021</b>	Time Received : <b>5:15PM</b>
Client Name : <b>Gilbane</b>		
Temperature : <b>21.8°C</b>	Sample pH : <b>N/A</b>	
Thermometer ID : <b>102002320</b>	pH Paper ID : <b>N/A</b>	
Perservative :		

	Check Points	Yes	No	N/A																								
1.	Cooler seal present and signed.		X																									
2.	Sample(s) in a cooler.	X																										
3.	If yes, ice in cooler.	X																										
4.	Sample(s) received with chain-of-custody.	X																										
5.	C-O-C signed and dated.	X																										
6.	Sample(s) received with signed sample custody seal.		X																									
7.	Sample containers arrived intact. (If no comment).	X																										
8.	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
9.	Sample(s) were received in appropriate container(s).	X																										
10.	Sample(s) were received with proper preservative			X																								
11.	All samples were logged or labeled.	X																										
12.	Sample ID labels match C-O-C ID's	X																										
13.	Bottle count on C-O-C matches bottles found.	X																										
14.	Sample volume is sufficient for analyses requested.	X																										
15.	Samples were received within the hold time.	X																										
16.	VOA vials completely filled.			X																								
17.	Sample accepted.	X																										
18.	Has client been contacted about sub-out			X																								

**Comments : Include actions taken to resolve discrepancies/problem:**

Received by : JMontemayor

Check in by/date : JMontemayor / 04/14/2021



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400  
 Project Manager: [Redacted]  
 Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: A&B Labs Date: 4/13/2021  
 Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-040821	01A 4/08/2021	1542	NA	NA	1	AA	X	None		482
MSE02-040821	02A 4/08/2021	1541	NA	NA	1	AA	X	None		461
MSE01-040921	03A 4/09/2021	1520	NA	NA	1	AA	X	Filter		423
MSE02-040921	04A 4/09/2021	1530	NA	NA	1	AA	X			443
MSE01-041221	05A 4/12/2021	1530	NA	NA	1	AA	X			402
MSE02-041221	06A 4/12/2021	1520	NA	NA	1	AA	X			358

**\* Job ID:21041069**

Sampled By: Kimberly Tom  
 Signature: [Signature]  
 Special Instructions: None  
21.8°C 10200320  
 Send Results to: [Redacted]  
 Turnaround Time: Standard

Sampler: Kimberly Tom  
 Relinquished By/Affiliation: Kimberly / Gilbane Date: 4/13/21 Time: 1400  
~~FedEx~~ FedEx  
 Courier/Airbill No.: FedEx/ 7733 9038 4046  
 Received By/ Affiliation: Amanda Opalle Date: 4/13/21 Time: 1715



28-Apr-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21041278**

Dear Brett,

ALS Environmental received 8 samples on 21-Apr-2021 02:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041278

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21041278-01	Q0424278-MSE01	Air		4/15/2021 15:22	4/20/2021 14:00	<input type="checkbox"/>
21041278-02	9894277-MSE01	Air		4/15/2021 15:22	4/20/2021 14:00	<input type="checkbox"/>
21041278-03	Q0424279-MSE02	Air		4/15/2021 15:30	4/20/2021 14:00	<input type="checkbox"/>
21041278-04	9894278-MSE02	Air		4/15/2021 15:30	4/20/2021 14:00	<input type="checkbox"/>
21041278-05	Q0424280-MSE01	Air		4/20/2021 07:56	4/20/2021 14:00	<input type="checkbox"/>
21041278-06	9894279-MSE01	Air		4/20/2021 07:56	4/20/2021 14:00	<input type="checkbox"/>
21041278-07	Q0424281-MSE02	Air		4/20/2021 07:46	4/20/2021 14:00	<input type="checkbox"/>
21041278-08	9894280-MSE02	Air		4/20/2021 07:46	4/20/2021 14:00	<input type="checkbox"/>

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**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041278

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**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041278

## Analytical Results

**Lab ID:** 21041278-01A  
**Client Sample ID:** Q0424278-MSE01

**Collection Date:** 4/15/2021 3:22:00 PM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 535050	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	25	1.0	0.047	

**Lab ID:** 21041278-02A  
**Client Sample ID:** 9894277-MSE01

**Collection Date:** 4/15/2021 3:22:00 PM  
**Matrix:** AIR

### Analyses

TSP 40 CFR 50 APPDX B		Method: TSP	Air Volume (L): 534170	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Total suspended particulate	24	1.0	0.045	

METALS BY EPA METHOD 12 MOD.		Method: E12	Air Volume (L): 534170	Analyst: SRL
Date Analyzed: 4/26/2021 14:09		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
Copper	57	25	0.00011	
Lead	ND	25	<0.000047	
Manganese	ND	25	<0.000047	

**Lab ID:** 21041278-03A  
**Client Sample ID:** Q0424279-MSE02

**Collection Date:** 4/15/2021 3:30:00 PM  
**Matrix:** AIR

### Analyses

PM : PM10 40CFR 50 APPDIX J		Method: PM10	Air Volume (L): 558420	Analyst: SRL
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	26	1.0	0.047	

**Note:**



**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041278

**Analytical Results**

**Lab ID:** 21041278-04A  
**Client Sample ID:** 9894278-MSE02

**Collection Date:** 4/15/2021 3:30:00 PM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>541730</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>18</b>	<b>1.0</b>	<b>0.034</b>	
<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>541730</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/26/2021 14:13		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>91</b>	<b>25</b>	<b>0.00017</b>	
Lead	ND	25	<0.000046	
Manganese	ND	25	<0.000046	

**Lab ID:** 21041278-05A  
**Client Sample ID:** Q0424280-MSE01

**Collection Date:** 4/20/2021 7:56:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1713370</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>36</b>	<b>1.0</b>	<b>0.021</b>	

**Lab ID:** 21041278-06A  
**Client Sample ID:** 9894279-MSE01

**Collection Date:** 4/20/2021 7:56:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1735250</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>64</b>	<b>1.0</b>	<b>0.037</b>	
<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1735250</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/26/2021 14:17		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>98</b>	<b>25</b>	<b>0.000057</b>	
Lead	ND	25	<0.000014	
Manganese	ND	25	<0.000014	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041278

## Analytical Results

**Lab ID:** 21041278-07A  
**Client Sample ID:** Q0424281-MSE02

**Collection Date:** 4/20/2021 7:46:00 AM  
**Matrix:** AIR

### Analyses

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1737350</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>43</b>	<b>1.0</b>	<b>0.025</b>	

**Lab ID:** 21041278-08A  
**Client Sample ID:** 9894280-MSE02

**Collection Date:** 4/20/2021 7:46:00 AM  
**Matrix:** AIR

### Analyses

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1671030</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/23/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>54</b>	<b>1.0</b>	<b>0.032</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1671030</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/26/2021 14:21		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>34</b>	<b>25</b>	<b>0.000020</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21041278  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R191090** Instrument ID: **BAL2** Method: **TSP**

<b>DUP</b>	Sample ID: <b>21041053-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/23/2021</b>			
Client ID:	Run ID: <b>BAL2_210423A</b>			SeqNo: <b>2448497</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	98.62	1.0	0	0	0		96.32	2.36	20	

The following samples were analyzed in this batch:

21041278-02A	21041278-04A	21041278-06A
21041278-08A		

**Client:** Gilbane Company  
**Work Order:** 21041278  
**Project:** HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **R191091**      Instrument ID: **BAL2**      Method: **PM10**

<b>DUP</b>		Sample ID: <b>21041278-07A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/23/2021</b>		
Client ID: <b>Q0424281-MSE02</b>		Run ID: <b>BAL2_210423B</b>		SeqNo: <b>2448513</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	43.42	1.0	0	0	0		43.19	0.531	20	

**The following samples were analyzed in this batch:**

21041278-01A	21041278-03A	21041278-05A
21041278-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gilbane Company  
 Work Order: 21041278  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: 74084 Instrument ID: ICP3 Method: E12

MBLK		Sample ID: MBLK-74084-74084				Units: µg/sample		Analysis Date: 4/26/2021 01:27 PM		
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449794		Prep Date: 4/23/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	100								
Lead	ND	25								
Manganese	ND	100								

LCS		Sample ID: LCS-74084-74084				Units: µg/sample		Analysis Date: 4/26/2021 01:31 PM		
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449795		Prep Date: 4/23/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	392.1	100	450	0	87.1	75-125	0			
Lead	410.3	25	450	0	91.2	75-125	0			
Manganese	393.1	100	450	0	87.4	75-125	0			

LCSD		Sample ID: LCSD-74084-74084				Units: µg/sample		Analysis Date: 4/26/2021 01:35 PM		
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449796		Prep Date: 4/23/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	418.1	100	450	0	92.9	75-125	392.1	6.42	20	
Lead	440.4	25	450	0	97.9	75-125	410.3	7.08	20	
Manganese	416.5	100	450	0	92.6	75-125	393.1	5.79	20	

MS		Sample ID: 21041053-02A MS				Units: µg/sample		Analysis Date: 4/26/2021 01:50 PM		
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449798		Prep Date: 4/23/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	699.3	100	450	302.2	88.2	75-125	0			
Lead	432	25	450	17.29	92.2	75-125	0			
Manganese	422.8	100	450	28.34	87.7	75-125	0			

MSD		Sample ID: 21041053-02A MSD				Units: µg/sample		Analysis Date: 4/26/2021 01:54 PM		
Client ID:		Run ID: ICP3_210426A				SeqNo: 2449799		Prep Date: 4/23/2021		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	707.8	100	450	302.2	90.1	75-125	699.3	1.22	20	
Lead	446.5	25	450	17.29	95.4	75-125	432	3.3	20	
Manganese	433.8	100	450	28.34	90.1	75-125	422.8	2.56	20	

The following samples were analyzed in this batch:

21041278-02A	21041278-04A	21041278-06A
21041278-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21041278

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: **GILBANE-WALNUTCREEK**

Date/Time Received: **21-Apr-21 14:00**

Work Order: **21041278**

Received by: **SNH**

Checklist completed by: Stephanie Harrington 22-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 23-Apr-21  
eSignature Date

Matrices:

Carrier name: **FedEx**

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No
- Sample(s) received on ice? Yes  No
- Temperature(s)/Thermometer(s):
- Cooler(s)/Kit(s):
- Date/Time sample(s) sent to storage:
- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted
- Water - pH acceptable upon receipt? Yes  No  N/A
- pH adjusted? Yes  No  N/A
- pH adjusted by:

Login Notes:

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Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

**CHAIN-OF-CUSTODY RECORD**

Gilbane Federal  
 1655 Grant Street, Suite 1200, Concord, CA 94520

**COC # KT042021**



21041278

<b>Project Name:</b> Hunters Point Shipyards, Parcel E RA Phase 2	<b>Laboratory:</b> ALS Laboratory Group, Cincinnati, OH	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	<b>POC:</b> [Redacted]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 4388 Glendale Millford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP														<b>Code</b> Matrix
																		A Air
<b>Equipment:</b>																		<b>Code</b> Container/Preservative
																		1 1x 250-mL Plastic, 4 Degrees C
																		1 1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																					
Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
																	Top	Bottom			
1	Q0424278-MSE01	A	04/15/2021	1522	KT	X									AMSE1	N2	0.00	0.00	1	VOLUME: 535.05	
2	9894277-MSE01	A	04/15/2021	1522	KT		X	X							AMSE1	N2	0.00	0.00	1	VOLUME: 534.17	
3	Q0424279-MSE02	A	04/15/2021	1530	KT	X									AMSE2	N2	0.00	0.00	1	VOLUME: 558.42	
4	9894278-MSE02	A	04/15/2021	1530	KT		X	X							AMSE2	N2	0.00	0.00	1	VOLUME: 541.73	
5	Q0424280-MSE01	A	04/20/2021	0756	KT	X									AMSE1	N1	0.00	0.00	1	VOLUME: 1713.37	
6	9894279-MSE01	A	04/20/2021	0756	KT		X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1735.25	
7	Q0424281-MSE02	A	04/20/2021	0746	KT	X									AMSE2	N1	0.00	0.00	1	VOLUME: 1737.35	
8	9894280-MSE02	A	04/20/2021	0746	KT		X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1671.03	
9																					
10																					

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	4/20/21	1400	FedEx	4/20/21	1400	Shipping Date: 4/20/2021 / FedEx 7734 9713 7351
						Received by Laboratory: (Signature, Date, Time) & condition
						4-21-21 1405



# Laboratory Analysis Report

Job ID : 21041289



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 04/16/2021 15:50  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kimberly Tom

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**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-041321	4/13/2021 15:42	Cassette	21041289.01
MSE02-041321	4/13/2021 15:46	Cassette	21041289.02
MSE01-041421	4/14/2021 15:30	Cassette	21041289.03
MSE02-041421	4/14/2021 15:38	Cassette	21041289.04

A handwritten signature in black ink, appearing to read 'S. C. W.' with a horizontal line underneath.

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'K. Tom' with a horizontal line underneath.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

4/21/2021



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
SAMPLING PERFORMED BY CLIENT  
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 300080**

Date 4/21/2021

Job ID : 21041289  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21041289.01	MSE01-041321	04/13/2021	Area	2			463	926	100	14.5	18.471	0.008		04/21/21	Habedi
21041289.02	MSE02-041321	04/13/2021	Area	2			482	964	100	11.0	14.013	0.006		04/21/21	Habedi
21041289.03	MSE01-041421	04/14/2021	Area	2			433	866	100	9.5	12.102	0.005		04/21/21	Habedi
21041289.04	MSE02-041421	04/14/2021	Area	2			455	910	100	10.5	13.376	0.006		04/21/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21041289</b>	Date Received : <b>04/16/2021</b>	Time Received : <b>3:50PM</b>																										
Client Name : <b>Gilbane</b>																												
Temperature : <b>20.3°C</b>	Sample pH : <b>N/A</b>																											
Thermometer ID : <b>102002320</b>	pH Paper ID : <b>N/A</b>																											
Perservative :																												
<b>Check Points</b>																												
<b>1.</b>	<b>Cooler seal present and signed.</b>	X																										
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X																									
<b>3.</b>	<b>If yes, ice in cooler.</b>			X																								
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X																										
<b>5.</b>	<b>C-O-C signed and dated.</b>	X																										
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X																									
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>	X																										
<b>8.</b>	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;">Matrix</td> <td style="width: 10%;">Water</td> <td style="width: 10%;">Soil</td> <td style="width: 10%;">Liquid</td> <td style="width: 10%;">Sludge</td> <td style="width: 10%;">Solid</td> <td style="width: 10%;">Cassette</td> <td style="width: 10%;">Tube</td> <td style="width: 10%;">Bulk</td> <td style="width: 10%;">Badge</td> <td style="width: 10%;">Food</td> <td style="width: 10%;">Other</td> </tr> <tr> <td>:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Matrix	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>	X																										
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>			X																								
<b>11.</b>	<b>All samples were logged or labeled.</b>	X																										
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>	X																										
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X																										
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X																										
<b>15.</b>	<b>Samples were received within the hold time.</b>	X																										
<b>16.</b>	<b>VOA vials completely filled.</b>			X																								
<b>17.</b>	<b>Sample accepted.</b>	X																										
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X																								
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>																												
Samples received in box with Custody Seal.																												

Received by : JMontemayor

Check in by/date : JMontemayor / 04/16/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs Date: 4/15/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)	
							Asbestos	Preservative:			
MSE01-041321	4/13/2021	1542	NA	NA	1	AA	X	None		463	0A
MSE02-041321	4/13/2021	1546	NA	NA	1	AA	X	None		482	0A
MSE01-041421	4/14/2021	1530	NA	NA	1	AA	X	Filter		433	03A
MSE02-041421	4/14/2021	1538	NA	NA	1	AA	X	Filter		455	04A

**\* Job ID:21041289**



Sampled By: <u>Kimberly To</u>	Sampler: <u>Kimberly To</u>	Courier/Airbill No.: FedEx/ 7734 5599 0483			
Signature: <u>[Signature]</u>	Relinquished By/Affiliation: <u>Kimberly To/Gilbane</u>	Date: <u>4/15/21</u>	Time: <u>1300</u>	Received By/ Affiliation: <u>FedEx</u>	Date: <u>4/15/21</u>
Special Instructions: <u>None</u>	<u>FedEx</u>			<u>[Signature]</u>	<u>1550</u>
Send Results to: <u>[Redacted]</u>				<u>203c</u>	<u>10201304</u>
Turnaround Time: <u>Standard</u>					



30-Apr-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21041476**

Dear Brett,

ALS Environmental received 8 samples on 23-Apr-2021 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041476

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21041476-01	Q0424282-MSE01	Air		4/21/2021 07:55	4/23/2021 10:15	<input type="checkbox"/>
21041476-02	9894281-MSE01	Air		4/21/2021 07:55	4/23/2021 10:15	<input type="checkbox"/>
21041476-03	Q0424283-MSE02	Air		4/21/2021 08:05	4/23/2021 10:15	<input type="checkbox"/>
21041476-04	9894282-MSE02	Air		4/21/2021 08:05	4/23/2021 10:15	<input type="checkbox"/>
21041476-05	Q0424284-MSE01	Air		4/22/2021 08:20	4/23/2021 10:15	<input type="checkbox"/>
21041476-06	9894283-MSE01	Air		4/22/2021 08:20	4/23/2021 10:15	<input type="checkbox"/>
21041476-07	Q0424285-MSE02	Air		4/22/2021 08:08	4/23/2021 10:15	<input type="checkbox"/>
21041476-08	9894284-MSE02	Air		4/22/2021 08:08	4/23/2021 10:15	<input type="checkbox"/>

---

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041476

---

**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041476

## Analytical Results

**Lab ID:** 21041476-01A  
**Client Sample ID:** Q0424282-MSE01

**Collection Date:** 4/21/2021 7:55:00 AM  
**Matrix:** AIR

### Analyses

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1729030</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>53</b>	<b>1.0</b>	<b>0.031</b>	

**Lab ID:** 21041476-02A  
**Client Sample ID:** 9894281-MSE01

**Collection Date:** 4/21/2021 7:55:00 AM  
**Matrix:** AIR

### Analyses

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1746990</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>95</b>	<b>1.0</b>	<b>0.054</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1746990</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/30/2021 12:36		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>250</b>	<b>25</b>	<b>0.00014</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000014</b>	
<b>Manganese</b>	<b>30</b>	<b>25</b>	<b>0.000017</b>	

**Lab ID:** 21041476-03A  
**Client Sample ID:** Q0424283-MSE02

**Collection Date:** 4/21/2021 8:05:00 AM  
**Matrix:** AIR

### Analyses

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1746560</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>69</b>	<b>1.0</b>	<b>0.040</b>	

**Note:**



**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041476

**Analytical Results**

**Lab ID:** 21041476-04A  
**Client Sample ID:** 9894282-MSE02

**Collection Date:** 4/21/2021 8:05:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1680020</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>80</b>	<b>1.0</b>	<b>0.047</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1680020</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/30/2021 12:54		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>210</b>	<b>25</b>	<b>0.00013</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Lab ID:** 21041476-05A  
**Client Sample ID:** Q0424284-MSE01

**Collection Date:** 4/22/2021 8:20:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1763010</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>51</b>	<b>1.0</b>	<b>0.029</b>	

**Lab ID:** 21041476-06A  
**Client Sample ID:** 9894283-MSE01

**Collection Date:** 4/22/2021 8:20:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1744250</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>73</b>	<b>1.0</b>	<b>0.042</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1744250</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/30/2021 12:58		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>170</b>	<b>25</b>	<b>0.00010</b>	
Lead	ND	25	<0.000014	
Manganese	ND	25	<0.000014	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041476

## Analytical Results

**Lab ID:** 21041476-07A  
**Client Sample ID:** Q0424285-MSE02

**Collection Date:** 4/22/2021 8:08:00 AM  
**Matrix:** AIR

### Analyses

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1774050</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>50</b>	<b>1.0</b>	<b>0.028</b>	

**Lab ID:** 21041476-08A  
**Client Sample ID:** 9894284-MSE02

**Collection Date:** 4/22/2021 8:08:00 AM  
**Matrix:** AIR

### Analyses

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1704610</b>	Analyst: <b>SRL</b>
Date Analyzed: 4/29/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>65</b>	<b>1.0</b>	<b>0.038</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1704610</b>	Analyst: <b>AZ</b>
Date Analyzed: 4/30/2021 13:02		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>200</b>	<b>25</b>	<b>0.00012</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21041476  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R191324** Instrument ID: **BAL2** Method: **TSP**

<b>DUP</b>	Sample ID: <b>21041476-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/29/2021</b>			
Client ID: <b>9894281-MSE01</b>	Run ID: <b>BAL2_210429A</b>			SeqNo: <b>2453154</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	96.36	1.0	0	0	0		95.02	1.4	20	

The following samples were analyzed in this batch:

21041476-02A	21041476-04A	21041476-06A
21041476-08A		

**Client:** Gilbane Company  
**Work Order:** 21041476  
**Project:** HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **R191325**      Instrument ID: **BAL2**      Method: **PM10**

<b>DUP</b>		Sample ID: <b>21041476-07A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>4/29/2021</b>		
Client ID: <b>Q0424285-MSE02</b>		Run ID: <b>BAL2_210429B</b>		SeqNo: <b>2453162</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	51.12	1.0	0	0	0		50.48	1.26	20	

The following samples were analyzed in this batch:

21041476-01A	21041476-03A	21041476-05A
21041476-07A		

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Gilbane Company  
 Work Order: 21041476  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: **74222** Instrument ID: **ICP1** Method: **E12**

MBLK		Sample ID: <b>MBLK-74222-74222</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/30/2021 12:24 PM</b>		
Client ID:		Run ID: <b>ICP1_210430A</b>		SeqNo: <b>2454376</b>		Prep Date: <b>4/30/2021</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	100								
Lead	ND	25								
Manganese	ND	100								

LCS		Sample ID: <b>LCS-74222-74222</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/30/2021 12:28 PM</b>		
Client ID:		Run ID: <b>ICP1_210430A</b>		SeqNo: <b>2454377</b>		Prep Date: <b>4/30/2021</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	411.8	100	450	0	91.5	75-125	0			
Lead	446.4	25	450	0	99.2	75-125	0			
Manganese	394.6	100	450	0	87.7	75-125	0			

LCSD		Sample ID: <b>LCSD-74222-74222</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/30/2021 12:32 PM</b>		
Client ID:		Run ID: <b>ICP1_210430A</b>		SeqNo: <b>2454378</b>		Prep Date: <b>4/30/2021</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	407.1	100	450	0	90.5	75-125	411.8	1.16	20	
Lead	446	25	450	0	99.1	75-125	446.4	0.0908	20	
Manganese	393.8	100	450	0	87.5	75-125	394.6	0.217	20	

MS		Sample ID: <b>21041476-02A MS</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/30/2021 12:47 PM</b>		
Client ID: <b>9894281-MSE01</b>		Run ID: <b>ICP1_210430A</b>		SeqNo: <b>2454380</b>		Prep Date: <b>4/30/2021</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	634.5	100	450	248.2	85.8	75-125	0			
Lead	458.1	25	450	17.84	97.8	75-125	0			
Manganese	423.3	100	450	30.48	87.3	75-125	0			

MSD		Sample ID: <b>21041476-02A MSD</b>				Units: <b>µg/sample</b>		Analysis Date: <b>4/30/2021 12:51 PM</b>		
Client ID: <b>9894281-MSE01</b>		Run ID: <b>ICP1_210430A</b>		SeqNo: <b>2454381</b>		Prep Date: <b>4/30/2021</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	623.2	100	450	248.2	83.4	75-125	634.5	1.79	20	
Lead	459	25	450	17.84	98	75-125	458.1	0.196	20	
Manganese	417.4	100	450	30.48	86	75-125	423.3	1.39	20	

The following samples were analyzed in this batch:

21041476-02A	21041476-04A	21041476-06A
21041476-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21041476

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK

Date/Time Received: 23-Apr-21 10:15

Work Order: 21041476

Received by: RDN

Checklist completed by: Stephanie Harrington 23-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 27-Apr-21  
eSignature Date

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal

1655 Grant Street, Suite 1200, Concord, CA 94520

21041476

COC # KT042221



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: ALS Laboratory Group, Cincinnati, OH	Event: Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC: [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	Analytical Test Method	Code	Matrix
		A	Air
<b>Equipment:</b>	CAAIR - Air PM10 E12 - Air Pb Mn Cu N0500 - Air TSP	Code	Container/Preservative
		1	1x 250-mL Plastic, 4 Degrees C
		1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																						
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
																		Top	Bottom			
1	Q0424282-MSE01	01	A	04/21/2021	0755	KT	X									AMSE1	N1	0.00	0.00	1	VOLUME: 1729.03	
2	9894281-MSE01	02	A	04/21/2021	0755	KT		X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1746.99	
3	Q0424283-MSE02	03	A	04/21/2021	0805	KT	X									AMSE2	N1	0.00	0.00	1	VOLUME: 1746.56	
4	9894282-MSE02	04	A	04/21/2021	0805	KT		X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1680.02	
5	Q0424284-MSE01	05	A	04/22/2021	0820	KT	X									AMSE1	N1	0.00	0.00	1	VOLUME: 1763.01	
6	9894283-MSE01	06	A	04/22/2021	0820	KT		X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1744.25	
7	Q0424285-MSE02	07	A	04/22/2021	0808	KT	X									AMSE2	N1	0.00	0.00	1	VOLUME: 1774.05	
8	9894284-MSE02	08	A	04/22/2021	0808	KT		X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1704.61	
9																						
10																						

Turnaround Time: 5 days

<b>Relinquished by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
	4/22/21	1400		4/22/21	1400	Shipping Date: 4/22/2021 / FedEx 7735 2227 6573
				4/23/21	10:15	<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>
			✓ Custody Seal			



# Laboratory Analysis Report

Job ID : 21041601



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 04/21/2021 12:50  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kimberly Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-041521	4/15/2021 15:30	Cassette	21041601.01
MSE02-041521	4/15/2021 15:20	Cassette	21041601.02
MSE01-041921	4/19/2021 15:40	Cassette	21041601.03
MSE02-041921	4/19/2021 15:32	Cassette	21041601.04

A handwritten signature in black ink, appearing to read 'S. C. W. K.', written over a horizontal line.

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'K. Tom', written over a horizontal line.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

4/27/2021



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
 SAMPLING PERFORMED BY CLIENT  
 ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
 AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 300080**

Date 4/27/2021

Job ID : 21041601  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21041601.01	MSE01-041521	04/15/2021	Area	2			455	910	100	11.5	14.650	0.006		04/27/21	Habedi
21041601.02	MSE02-041521	04/15/2021	Area	2			461	922	100	13.5	17.197	0.007		04/27/21	Habedi
21041601.03	MSE01-041921	04/19/2021	Area	2			441	882	100	12.5	15.924	0.007		04/27/21	Habedi
21041601.04	MSE02-041921	04/19/2021	Area	2			452	904	100	10.0	12.739	0.005		04/27/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21041601</b>		Date Received : <b>04/21/2021</b>		Time Received : <b>12:50PM</b>								
Client Name : <b>Gilbane</b>												
Temperature : <b>17.8°C</b>		Sample pH : <b>na</b>										
Thermometer ID : <b>102002320</b>		pH Paper ID : <b>na</b>										
Perservative :												
	<b>Check Points</b>					<b>Yes</b>	<b>No</b>	<b>N/A</b>				
<b>1.</b>	<b>Cooler seal present and signed.</b>					X						
<b>2.</b>	<b>Sample(s) in a cooler.</b>						X					
<b>3.</b>	<b>If yes, ice in cooler.</b>							X				
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>					X						
<b>5.</b>	<b>C-O-C signed and dated.</b>					X						
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>						X					
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>					X						
<b>8.</b>	<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>					X						
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>							X				
<b>11.</b>	<b>All samples were logged or labeled.</b>					X						
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>					X						
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>					X						
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>					X						
<b>15.</b>	<b>Samples were received within the hold time.</b>					X						
<b>16.</b>	<b>VOA vials completely filled.</b>							X				
<b>17.</b>	<b>Sample accepted.</b>					X						
<b>18.</b>	<b>Has client been contacted about sub-out</b>							X				
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>												
Received in box with custody seal. -AO 4/21/21												

Received by : AOballe

Check in by/date : AOballe / 04/21/2021

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 13100000400

Laboratory Name: A&B Labs

Date: 4/20/2021

Project Manager: [Redacted]

Address: 10100 East Fwy Ste. 100

Contact Name: [Redacted]

Page: 1 of 1

Site Location: Hunters Point, San Francisco, CA 94124

Houston TX 77029

Analysis:

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
						Asbestos	Preservative:		
MSE01-041521	4/15/2021	1530	NA	NA	1	AA	X	455	
MSE02-041521	4/15/2021	1520	NA	NA	1	AA	X	461	
MSE01-041921	4/19/2021	1540	NA	NA	1	AA	X	441	
MSE02-041921	4/19/2021	1532	NA	NA	1	AA	X	452	

Job ID: 21041601

[Signature]

Sampled By: Kimberly Tor

Sampler: Kimberly Tor

Courier/Airbill No.: FedEx/ 7734 9711 4085

Signature: [Signature]

Relinquished By/Affiliation: [Signature]

Date: 4/20/21

Received By/ Affiliation: FedEx

Date: 4/20/21

Special Instructions: NSM

Kimberly Tor

4/20/21 1300

FedEx

4/20/21 1350

1782 102008320

Send Results to: [Redacted]

FedEx

Amanda Oballe

4/21/21 1250

Turnaround Time: Standard



11-May-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21041778**

Dear Brett,

ALS Environmental received 8 samples on 28-Apr-2021 10:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041778

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21041778-01	Q0424286-MSE01	Air		4/22/2021 15:23	4/28/2021 10:30	<input type="checkbox"/>
21041778-02	9894285-MSE01	Air		4/22/2021 15:23	4/28/2021 10:30	<input type="checkbox"/>
21041778-03	Q0424287-MSE02	Air		4/22/2021 15:27	4/28/2021 10:30	<input type="checkbox"/>
21041778-04	9894286-MSE02	Air		4/22/2021 15:27	4/28/2021 10:30	<input type="checkbox"/>
21041778-05	Q0424288-MSE01	Air		4/27/2021 08:20	4/28/2021 10:30	<input type="checkbox"/>
21041778-06	9894287-MSE01	Air		4/27/2021 08:20	4/28/2021 10:30	<input type="checkbox"/>
21041778-07	Q0424289-MSE02	Air		4/27/2021 08:07	4/28/2021 10:30	<input type="checkbox"/>
21041778-08	9894288-MSE02	Air		4/27/2021 08:07	4/28/2021 10:30	<input type="checkbox"/>

---

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041778

---

**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041778

**Analytical Results**

**Lab ID:** 21041778-01A  
**Client Sample ID:** Q0424286-MSE01

**Collection Date:** 4/22/2021 3:23:00 PM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>	Method: <b>PM10</b>		Air Volume (L): <b>459430</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	ND	1.0	<0.0022	

**Lab ID:** 21041778-02A  
**Client Sample ID:** 9894285-MSE01

**Collection Date:** 4/22/2021 3:23:00 PM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>	Method: <b>TSP</b>		Air Volume (L): <b>465340</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>8.6</b>	<b>1.0</b>	<b>0.019</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>	Method: <b>E12</b>		Air Volume (L): <b>465340</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 11:53		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>53</b>	<b>25</b>	<b>0.00011</b>	
Lead	ND	25	<0.000054	
Manganese	ND	25	<0.000054	

**Lab ID:** 21041778-03A  
**Client Sample ID:** Q0424287-MSE02

**Collection Date:** 4/22/2021 3:27:00 PM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>	Method: <b>PM10</b>		Air Volume (L): <b>490900</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
Particulate as PM10	ND	1.0	<0.0020	

**Note:**



**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041778

**Analytical Results**

**Lab ID:** 21041778-04A  
**Client Sample ID:** 9894286-MSE02

**Collection Date:** 4/22/2021 3:27:00 PM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>467150</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>9.0</b>	<b>1.0</b>	<b>0.019</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>467150</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 12:05		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>58</b>	<b>25</b>	<b>0.00012</b>	
Lead	ND	25	<0.000054	
Manganese	ND	25	<0.000054	

**Lab ID:** 21041778-05A  
**Client Sample ID:** Q0424288-MSE01

**Collection Date:** 4/27/2021 8:20:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1739070</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>24</b>	<b>1.0</b>	<b>0.014</b>	

**Lab ID:** 21041778-06A  
**Client Sample ID:** 9894287-MSE01

**Collection Date:** 4/27/2021 8:20:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1737420</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>30</b>	<b>1.0</b>	<b>0.017</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1737420</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 12:09		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>210</b>	<b>25</b>	<b>0.00012</b>	
Lead	ND	25	<0.000014	
Manganese	ND	25	<0.000014	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041778

**Analytical Results**

**Lab ID:** 21041778-07A  
**Client Sample ID:** Q0424289-MSE02

**Collection Date:** 4/27/2021 8:07:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1749380</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Particulate as PM10</b>	<b>20</b>	<b>1.0</b>	<b>0.011</b>	

**Lab ID:** 21041778-08A  
**Client Sample ID:** 9894288-MSE02

**Collection Date:** 4/27/2021 8:07:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1676760</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	mg/sample	mg/sample	mg/m3	
<b>Total suspended particulate</b>	<b>26</b>	<b>1.0</b>	<b>0.015</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1676760</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 12:13		Reporting Limit		
	µg/sample	µg/sample	mg/m3	
<b>Copper</b>	<b>150</b>	<b>25</b>	<b>0.000091</b>	
Lead	ND	25	<0.000015	
Manganese	ND	25	<0.000015	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21041778  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R191694** Instrument ID: **BAL2** Method: **TSP**

DUP		Sample ID: <b>21041778-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>5/4/2021</b>		
Client ID: <b>9894285-MSE01</b>		Run ID: <b>BAL2_210504A</b>				SeqNo: <b>2463334</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	8.66	1.0	0	0	0		8.61	0.579	20	

DUP		Sample ID: <b>21041900-07A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>5/4/2021</b>		
Client ID:		Run ID: <b>BAL2_210504A</b>				SeqNo: <b>2463350</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	16.68	1.0	0	0	0		16.29	2.37	20	

The following samples were analyzed in this batch:

21041778-01A	21041778-02A	21041778-03A
21041778-04A	21041778-05A	21041778-06A
21041778-07A	21041778-08A	

Client: Gilbane Company  
 Work Order: 21041778  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: 74355 Instrument ID: ICP1 Method: E12

MBLK		Sample ID: MBLK-74355-74355				Units: µg/sample		Analysis Date: 5/6/2021 11:42 AM		
Client ID:		Run ID: ICP1_210506A		SeqNo: 2459757		Prep Date: 5/5/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	100								
Lead	ND	25								
Manganese	ND	100								

LCS		Sample ID: LCS-74355-74355				Units: µg/sample		Analysis Date: 5/6/2021 11:46 AM		
Client ID:		Run ID: ICP1_210506A		SeqNo: 2459758		Prep Date: 5/5/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	383.5	100	450	0	85.2	75-125	0			
Lead	429.9	25	450	0	95.5	75-125	0			
Manganese	390.9	100	450	0	86.9	75-125	0			

LCSD		Sample ID: LCSD-74355-74355				Units: µg/sample		Analysis Date: 5/6/2021 11:49 AM		
Client ID:		Run ID: ICP1_210506A		SeqNo: 2459759		Prep Date: 5/5/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	401.4	100	450	0	89.2	75-125	383.5	4.56	20	
Lead	446.7	25	450	0	99.3	75-125	429.9	3.84	20	
Manganese	407.3	100	450	0	90.5	75-125	390.9	4.1	20	

MS		Sample ID: 21041778-02A MS				Units: µg/sample		Analysis Date: 5/6/2021 11:57 AM		
Client ID: 9894285-MSE01		Run ID: ICP1_210506A		SeqNo: 2459761		Prep Date: 5/5/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	460.8	100	450	53.46	90.5	75-125	0			
Lead	482.4	25	450	4.376	106	75-125	0			
Manganese	414.9	100	450	5.823	90.9	75-125	0			

MSD		Sample ID: 21041778-02A MSD				Units: µg/sample		Analysis Date: 5/6/2021 12:01 PM		
Client ID: 9894285-MSE01		Run ID: ICP1_210506A		SeqNo: 2459762		Prep Date: 5/5/2021		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	462.6	100	450	53.46	90.9	75-125	460.8	0.39	20	
Lead	464.8	25	450	4.376	102	75-125	482.4	3.71	20	
Manganese	416.6	100	450	5.823	91.3	75-125	414.9	0.422	20	

The following samples were analyzed in this batch:

21041778-02A	21041778-04A	21041778-06A
21041778-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21041778

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: GILBANE-WALNUTCREEK

Date/Time Received: 28-Apr-21 10:30

Work Order: 21041778

Received by: RDN

Checklist completed by: Rob Nieman 29-Apr-21  
eSignature Date

Reviewed by: Rob Nieman 30-Apr-21  
eSignature Date

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

-----

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

# CHAIN-OF-CUSTODY RECORD

Gilbane Federal

1655 Grant Street, Suite 1200, Concord, CA 94520

21041778

COC # KT042721



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> ALS Laboratory Group, Cincinnati, OH	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	<b>POC:</b> [Redacted]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 4388 Glendale Millford Rd., Blue Ash, OH 45242	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP														<b>Code</b> Matrix
																		A Air
<b>Equipment:</b>																		<b>Code</b> Container/Preservative
																		1 1x 250-mL Plastic, 4 Degrees C
																		1 1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																		
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
														Top	Bottom			
1	Q0424286-MSE01	01	A	04/22/2021	1523	KT	X						AMSE1	N2	0.00	0.00	1	VOLUME: 459.43
2	9894285-MSE01	02	A	04/22/2021	1523	KT		X	X				AMSE1	N2	0.00	0.00	1	VOLUME: 465.34
3	Q0424287-MSE02	03	A	04/22/2021	1527	KT	X						AMSE2	N2	0.00	0.00	1	VOLUME: 490.90
4	9894286-MSE02	04	A	04/22/2021	1527	KT		X	X				AMSE2	N2	0.00	0.00	1	VOLUME: 467.15
5	Q0424288-MSE01	05	A	04/27/2021	0820	KT	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1739.07
6	9894287-MSE01	06	A	04/27/2021	0820	KT		X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1737.42
7	Q0424289-MSE02	07	A	04/27/2021	0807	KT	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1749.38
8	9894288-MSE02	08	A	04/27/2021	0807	KT		X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1676.76
9																		
10																		

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	4/27/21	1500	FedEx	4/27/21	1500	Shipping Date: 4/27/2021 / FedEx 7735 6311 6299
				4/28/21	1030	<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>
			✓ Custody Seal			

# Laboratory Analysis Report

Job ID : 21041871



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

---

**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: Brett Womack P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 04/23/2021 16:13  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kimberly Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01 - 042021	4/20/2021 15:43	Cassette	21041871.01
MSE02 - 042021	4/20/2021 15:24	Cassette	21041871.02
MSE01 - 042121	4/21/2021 15:34	Cassette	21041871.03
MSE02 - 042121	4/21/2021 15:36	Cassette	21041871.04

A handwritten signature in black ink, appearing to read 'S. C. W. K.' with a horizontal line underneath.

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'K. Tom' with a horizontal line underneath.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

4/27/2021





**ANALYSIS OF AIRBORNE FIBER SAMPLING  
SAMPLING PERFORMED BY CLIENT  
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 300080**

Date 4/27/2021

Job ID : 21041871  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21041871.01	MSE01 - 042021	04/20/2021	Area	2			460	920	100	11.0	14.013	0.006		04/27/21	Habedi
21041871.02	MSE02 - 042021	04/20/2021	Area	2			454	908	100	12	15.287	0.006		04/27/21	Habedi
21041871.03	MSE01 - 042121	04/21/2021	Area	2			452	904	100	10.5	13.376	0.006		04/27/21	Habedi
21041871.04	MSE02 - 042121	04/21/2021	Area	2			466	932	100	9	11.465	0.005		04/27/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21041871</b>	Date Received : <b>04/23/2021</b>	Time Received : <b>4:13PM</b>																										
Client Name : <b>Gilbane</b>																												
Temperature : <b>20.1°C</b>	Sample pH : <b>n/a</b>																											
Thermometer ID : <b>102002320</b>	pH Paper ID : <b>n/a</b>																											
Perservative :																												
<b>Check Points</b>																												
<b>1.</b>	<b>Cooler seal present and signed.</b>	X		N/A																								
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X																									
<b>3.</b>	<b>If yes, ice in cooler.</b>			X																								
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X																										
<b>5.</b>	<b>C-O-C signed and dated.</b>	X																										
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X																									
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>	X																										
<b>8.</b>	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;"><b>Matrix</b></td> <td style="text-align: right;"><b>Water</b></td> <td style="text-align: right;"><b>Soil</b></td> <td style="text-align: right;"><b>Liquid</b></td> <td style="text-align: right;"><b>Sludge</b></td> <td style="text-align: right;"><b>Solid</b></td> <td style="text-align: right;"><b>Cassette</b></td> <td style="text-align: right;"><b>Tube</b></td> <td style="text-align: right;"><b>Bulk</b></td> <td style="text-align: right;"><b>Badge</b></td> <td style="text-align: right;"><b>Food</b></td> <td style="text-align: right;"><b>Other</b></td> </tr> <tr> <td style="text-align: right;">:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>	X																										
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>			X																								
<b>11.</b>	<b>All samples were logged or labeled.</b>	X																										
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>	X																										
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X																										
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X																										
<b>15.</b>	<b>Samples were received within the hold time.</b>	X																										
<b>16.</b>	<b>VOA vials completely filled.</b>			X																								
<b>17.</b>	<b>Sample accepted.</b>	X																										
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X																								
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>																												

Received by : CHendrix

Check in by/date : VHernandez / 04/24/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs Date: 4/22/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

**Job ID: 21041871**



Analysis:

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos	Preservative:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
								None	Filter		
MSE01-042021	4/20/2021	1543	NA	NA	1	AA	X				460 01A
MSE02-042021	4/20/2021	1524	NA	NA	1	AA	X				454 02A
MSE01-042121	4/21/2021	1534	NA	NA	1	AA	X				452 03A
MSE02-042121	4/21/2021	1536	NA	NA	1	AA	X				466 04A

Sampled By: <u>Kimberly [Signature]</u>	Sampler: <u>Kimberly [Signature]</u>	Courier/Airbill No.: FedEx/ 7735 2229 3245			
Signature: <u>[Signature]</u>	Relinquished By/Affiliation: <u>Kimberly [Signature] / Gilbane</u>	Date: <u>4/22/21</u>	Time: <u>1400</u>	Received By/ Affiliation: <u>FedEx</u>	Date: <u>4/22/21</u>
Special Instructions: <u>None</u>	<u>[Signature] / Fedex</u>	<u>4/23/21</u>		<u>Conley [Signature]</u>	<u>1613</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					

ORIGIN ID: JCCA (925) 250-8097  
KIMBERLY TOM  
GILBANE  
200 FISHER STREET

SHIP DATE: 22APR21  
ACTWGT: 1.00 LB  
CAD: 102700259NNE14340

SAN FRANCISCO, CA 94124  
UNITED STATES US

BILL SENDER

TO  
**ALISHA HUGHES**  
**A & B LABS**  
**10100 EAST FREEWAY, SUITE 100**

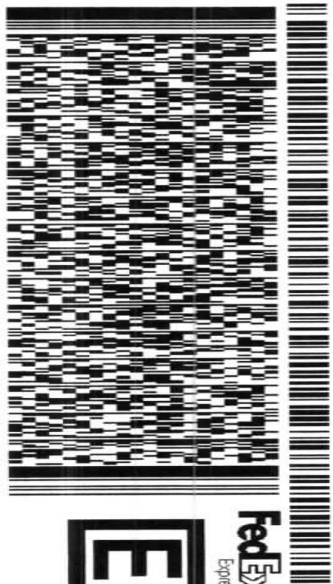
**HOUSTON TX 77029**

56DJ3/F9A6/FE4A

(713) 453-6060

REF: J10000400 E:00 0900000

PO DEPT



**FRI - 23 APR 4:30P**

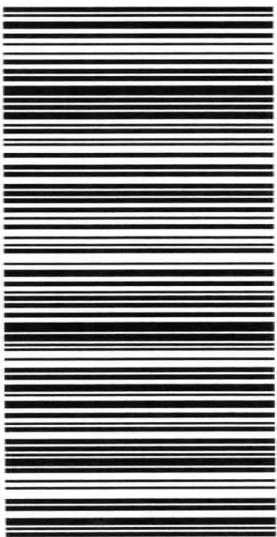
**STANDARD OVERNIGHT**

TRK# 7735 2229 3245  
0201

77029

**UH HBYA**

TX:US IAH



**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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11-May-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21041900**

Dear Brett,

ALS Environmental received 8 samples on 30-Apr-2021 09:41 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041900

**Work Order Sample Summary**

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21041900-01	Q0424290-MSE01	Air		4/28/2021 07:51	4/30/2021 09:41	<input type="checkbox"/>
21041900-02	9894289-MSE01	Air		4/28/2021 07:51	4/30/2021 09:41	<input type="checkbox"/>
21041900-03	Q0424291-MSE02	Air		4/28/2021 07:31	4/30/2021 09:41	<input type="checkbox"/>
21041900-04	9894290-MSE02	Air		4/28/2021 07:31	4/30/2021 09:41	<input type="checkbox"/>
21041900-05	Q0424292-MSE01	Air		4/29/2021 08:14	4/30/2021 09:41	<input type="checkbox"/>
21041900-06	9894291-MSE01	Air		4/29/2021 08:14	4/30/2021 09:41	<input type="checkbox"/>
21041900-07	Q0424293-MSE02	Air		4/29/2021 08:00	4/30/2021 09:41	<input type="checkbox"/>
21041900-08	9894292-MSE02	Air		4/29/2021 08:00	4/30/2021 09:41	<input type="checkbox"/>

---

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21041900

---

**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041900

**Analytical Results**

**Lab ID:** 21041900-01A  
**Client Sample ID:** Q0424290-MSE01

**Collection Date:** 4/28/2021 7:51:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1762730</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>28</b>	<b>1.0</b>	<b>0.016</b>	

**Lab ID:** 21041900-02A  
**Client Sample ID:** 9894289-MSE01

**Collection Date:** 4/28/2021 7:51:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1722950</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>59</b>	<b>1.0</b>	<b>0.034</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1722950</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 12:24		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>150</b>	<b>25</b>	<b>0.000088</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000015</b>	
<b>Manganese</b>	<b>32</b>	<b>25</b>	<b>0.000019</b>	

**Lab ID:** 21041900-03A  
**Client Sample ID:** Q0424291-MSE02

**Collection Date:** 4/28/2021 7:31:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1716160</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>38</b>	<b>1.0</b>	<b>0.022</b>	

**Note:**



**ALS Environmental**

Date: 11-May-21

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041900

**Analytical Results**

**Lab ID:** 21041900-04A  
**Client Sample ID:** 9894290-MSE02

**Collection Date:** 4/28/2021 7:31:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1651250</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>40</b>	<b>1.0</b>	<b>0.024</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1651250</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 12:28		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>430</b>	<b>25</b>	<b>0.00026</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000015</b>	
<b>Manganese</b>	<b>70</b>	<b>25</b>	<b>0.000042</b>	

**Lab ID:** 21041900-05A  
**Client Sample ID:** Q0424292-MSE01

**Collection Date:** 4/29/2021 8:14:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1715620</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>36</b>	<b>1.0</b>	<b>0.021</b>	

**Lab ID:** 21041900-06A  
**Client Sample ID:** 9894291-MSE01

**Collection Date:** 4/29/2021 8:14:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1797380</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>70</b>	<b>1.0</b>	<b>0.039</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1797380</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 12:32		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>230</b>	<b>25</b>	<b>0.00013</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000014</b>	
<b>Manganese</b>	<b>65</b>	<b>25</b>	<b>0.000036</b>	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21041900

**Analytical Results**

**Lab ID:** 21041900-07A  
**Client Sample ID:** Q0424293-MSE02

**Collection Date:** 4/29/2021 8:00:00 AM  
**Matrix:** AIR

**Analyses**

<b>PM : PM10 40CFR 50 APPDIX J</b>		Method: <b>PM10</b>	Air Volume (L): <b>1809820</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Particulate as PM10</b>	<b>16</b>	<b>1.0</b>	<b>0.0090</b>	

**Lab ID:** 21041900-08A  
**Client Sample ID:** 9894292-MSE02

**Collection Date:** 4/29/2021 8:00:00 AM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>	Air Volume (L): <b>1733710</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/4/2021		Reporting Limit		
	<b>mg/sample</b>	<b>mg/sample</b>	<b>mg/m3</b>	
<b>Total suspended particulate</b>	<b>41</b>	<b>1.0</b>	<b>0.024</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>	Air Volume (L): <b>1733710</b>	Analyst: <b>AZ</b>
Date Analyzed: 5/6/2021 12:35		Reporting Limit		
	<b>µg/sample</b>	<b>µg/sample</b>	<b>mg/m3</b>	
<b>Copper</b>	<b>770</b>	<b>25</b>	<b>0.00044</b>	
<b>Lead</b>	<b>ND</b>	<b>25</b>	<b>&lt;0.000014</b>	
<b>Manganese</b>	<b>29</b>	<b>25</b>	<b>0.000017</b>	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21041900  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R191694** Instrument ID: **BAL2** Method: **TSP**

DUP		Sample ID: <b>21041778-02A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>5/4/2021</b>		
Client ID:		Run ID: <b>BAL2_210504A</b>				SeqNo: <b>2463334</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	8.66	1.0	0	0	0		8.61	0.579	20	

DUP		Sample ID: <b>21041900-07A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>5/4/2021</b>		
Client ID: <b>Q0424293-MSE02</b>		Run ID: <b>BAL2_210504A</b>				SeqNo: <b>2463350</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	16.68	1.0	0	0	0		16.29	2.37	20	

The following samples were analyzed in this batch:

21041900-01A	21041900-02A	21041900-03A
21041900-04A	21041900-05A	21041900-06A
21041900-07A	21041900-08A	

Client: Gilbane Company  
 Work Order: 21041900  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: 74355 Instrument ID: ICP1 Method: E12

MBLK		Sample ID: MBLK-74355-74355				Units: µg/sample		Analysis Date: 5/6/2021 11:42 AM		
Client ID:		Run ID: ICP1_210506A			SeqNo: 2459757		Prep Date: 5/5/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	ND	100								
Lead	ND	25								
Manganese	ND	100								

LCS		Sample ID: LCS-74355-74355				Units: µg/sample		Analysis Date: 5/6/2021 11:46 AM		
Client ID:		Run ID: ICP1_210506A			SeqNo: 2459758		Prep Date: 5/5/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	383.5	100	450	0	85.2	75-125	0			
Lead	429.9	25	450	0	95.5	75-125	0			
Manganese	390.9	100	450	0	86.9	75-125	0			

LCSD		Sample ID: LCSD-74355-74355				Units: µg/sample		Analysis Date: 5/6/2021 11:49 AM		
Client ID:		Run ID: ICP1_210506A			SeqNo: 2459759		Prep Date: 5/5/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	401.4	100	450	0	89.2	75-125	383.5	4.56	20	
Lead	446.7	25	450	0	99.3	75-125	429.9	3.84	20	
Manganese	407.3	100	450	0	90.5	75-125	390.9	4.1	20	

MS		Sample ID: 21041778-02A MS				Units: µg/sample		Analysis Date: 5/6/2021 11:57 AM		
Client ID:		Run ID: ICP1_210506A			SeqNo: 2459761		Prep Date: 5/5/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	460.8	100	450	53.46	90.5	75-125	0			
Lead	482.4	25	450	4.376	106	75-125	0			
Manganese	414.9	100	450	5.823	90.9	75-125	0			

MSD		Sample ID: 21041778-02A MSD				Units: µg/sample		Analysis Date: 5/6/2021 12:01 PM		
Client ID:		Run ID: ICP1_210506A			SeqNo: 2459762		Prep Date: 5/5/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Copper	462.6	100	450	53.46	90.9	75-125	460.8	0.39	20	
Lead	464.8	25	450	4.376	102	75-125	482.4	3.71	20	
Manganese	416.6	100	450	5.823	91.3	75-125	414.9	0.422	20	

The following samples were analyzed in this batch:

21041900-02A	21041900-04A	21041900-06A
21041900-08A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21041900

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: **GILBANE-WALNUTCREEK**

Date/Time Received: **30-Apr-21 09:41**

Work Order: **21041900**

Received by: **SNH**

Checklist completed by: Stephanie Harrington | 30-Apr-21  
eSignature | Date

Reviewed by: Rob Nieman | 04-May-21  
eSignature | Date

Matrices:

Carrier name: **FedEx**

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

-----

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



# Laboratory Analysis Report

Job ID : 21042143



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 04/28/2021 16:00  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kimberly Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-042221	4/22/2021 15:22	Cassette	21042143.01
MSE02-042221	4/22/2021 15:19	Cassette	21042143.02
MSE01-042621	4/26/2021 15:42	Cassette	21042143.03
MSE02-042621	4/26/2021 15:50	Cassette	21042143.04

A handwritten signature in black ink, appearing to read 'S. Sevukan'.

Released By: Senthikumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'K. Tom'.

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ab-q210-0321

5/3/2021





**ANALYSIS OF AIRBORNE FIBER SAMPLING  
 SAMPLING PERFORMED BY CLIENT  
 ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
 AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 300080**

Date 5/3/2021

Job ID : 21042143  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21042143.01	MSE01-042221	04/22/2021	Area	2			419	838	100	15.5	19.745	0.009		05/03/21	Habedi
21042143.02	MSE02-042221	04/22/2021	Area	2			427	854	100	12.5	15.924	0.007		05/03/21	Habedi
21042143.03	MSE01-042621	04/26/2021	Area	2			437	874	100	10.5	13.376	0.006		05/03/21	Habedi
21042143.04	MSE02-042621	04/26/2021	Area	2			463	926	100	13.5	17.197	0.007		05/03/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21042143</b>		Date Received : <b>04/28/2021</b>		Time Received : <b>4:00PM</b>								
Client Name : <b>Gilbane</b>												
Temperature : <b>21.4°C</b>		Sample pH : <b>N/A</b>										
Thermometer ID : <b>102002320</b>		pH Paper ID : <b>N/A</b>										
Perservative :												
	<b>Check Points</b>					<b>Yes</b>	<b>No</b>	<b>N/A</b>				
<b>1.</b>	<b>Cooler seal present and signed.</b>					X						
<b>2.</b>	<b>Sample(s) in a cooler.</b>						X					
<b>3.</b>	<b>If yes, ice in cooler.</b>							X				
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>					X						
<b>5.</b>	<b>C-O-C signed and dated.</b>					X						
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>						X					
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>					X						
<b>8.</b>	<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>					X						
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>							X				
<b>11.</b>	<b>All samples were logged or labeled.</b>					X						
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>					X						
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>					X						
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>					X						
<b>15.</b>	<b>Samples were received within the hold time.</b>					X						
<b>16.</b>	<b>VOA vials completely filled.</b>							X				
<b>17.</b>	<b>Sample accepted.</b>					X						
<b>18.</b>	<b>Has client been contacted about sub-out</b>							X				
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>												
C/S on box.												

Received by : JMontemayor

Check in by/date : JMontemayor / 04/28/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400  
 Project Manager: [Redacted]  
 Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: A&B Labs Date: 4/27/2021  
 Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
Houston TX 77029

Analysis:

**\* Job ID:21042143**



Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos	Preservative:	None	Container Type:	Filter	Flow Rate = 2 L/min	Special Instructions/Comments	Total Time (min)
MSE01-042221	01A 4/22/2021	1522	NA	NA	1	AA	X							419
MSE02-042221	02A 4/22/2021	1519	NA	NA	1	AA	X							427
MSE01-042621	03A 4/26/2021	1542	NA	NA	1	AA	X							437
MSE02-042621	04A 4/26/2021	1550	NA	NA	1	AA	X							463

Sampled By: K. Ton  
 Signature: [Signature]  
 Special Instructions: None  
 Send Results to: [Redacted]  
 Turnaround Time: Standard

Sampler: K. Ton  
 Relinquished By/Affiliation: Kimberly Ton / Gilbane FedEx  
 Date: 4/27/21 Time: 1500  
 Received By/ Affiliation: FedEx  
 Date: 4/27/21 Time: 1500  
 Date: 4-28-21 Time: 1600  
 Courier/Airbill No.: FedEx/ 7735 6307 8560  
21.9°C 10200/300

# Laboratory Analysis Report

Job ID : 21050040



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

---

**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 05/03/2021 14:20  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kimberly Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-042721	4/27/2021 15:54	Cassette	21050040.01
MSE02-042721	4/27/2021 15:42	Cassette	21050040.02
MSE01-042821	4/28/2021 15:37	Cassette	21050040.03
MSE02-042821	4/28/2021 15:12	Cassette	21050040.04

A handwritten signature in black ink, appearing to read 'S. Sevukan'.

Released By: Senthikumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'K. Tom'.

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ab-q210-0321

5/4/2021



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
 SAMPLING PERFORMED BY CLIENT  
 ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
 AIHA Lab Accreditation # 101470      TDH PLM/PCM Lab License # 30080**

Date 5/4/2021

Job ID : 21050040  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21050040.01	MSE01-042721	04/27/2021	Area	2			453	906	100	10.5	13.376	0.006		05/04/21	Habedi
21050040.02	MSE02-042721	04/27/2021	Area	2			455	910	100	8	10.191	0.004		05/04/21	Habedi
21050040.03	MSE01-042821	04/28/2021	Area	2			482	964	100	12	15.287	0.006		05/04/21	Habedi
21050040.04	MSE02-042821	04/28/2021	Area	2			438	876	100	9.0	11.465	0.005		05/04/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21050040</b>		Date Received : <b>05/03/2021</b>		Time Received : <b>2:20PM</b>								
Client Name : <b>Gilbane</b>												
Temperature : <b>23.1°C</b>		Sample pH : <b>N/A</b>										
Thermometer ID : <b>102002320</b>		pH Paper ID : <b>N/A</b>										
Perservative :												
	<b>Check Points</b>					<b>Yes</b>	<b>No</b>	<b>N/A</b>				
<b>1.</b>	<b>Cooler seal present and signed.</b>					X						
<b>2.</b>	<b>Sample(s) in a cooler.</b>						X					
<b>3.</b>	<b>If yes, ice in cooler.</b>							X				
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>					X						
<b>5.</b>	<b>C-O-C signed and dated.</b>					X						
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>						X					
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>					X						
<b>8.</b>	<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>					X						
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>							X				
<b>11.</b>	<b>All samples were logged or labeled.</b>					X						
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>					X						
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>					X						
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>					X						
<b>15.</b>	<b>Samples were received within the hold time.</b>					X						
<b>16.</b>	<b>VOA vials completely filled.</b>							X				
<b>17.</b>	<b>Sample accepted.</b>					X						
<b>18.</b>	<b>Has client been contacted about sub-out</b>							X				
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>												

Received by : JMontemayor

Check in by/date : JMontemayor / 05/03/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 4/29/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Analysis:

**\* Job ID: 21050040**



Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos	Preservative:	Container Type:	Flow Rate = 2 L/min	Special Instructions/Comments
MSE01-042721	01A 4/27/2021	1554	NA	NA	1	AA	X	None	Filter		453
MSE02-042721	02A 4/27/2021	1542	NA	NA	1	AA	X				455
MSE01-042821	03A 4/28/2021	1537	NA	NA	1	AA	X				482
MSE02-042821	04A 4/28/2021	1512	NA	NA	1	AA	X				438

Sampled By: <u>K. Larson</u> Signature: <u>[Signature]</u> Special Instructions: <u>None</u> Send Results to: <u>[Redacted]</u> Turnaround Time: <u>Standard</u>	Sampler: <u>Kimberly [Signature]</u> Relinquished By/Affiliation: <u>Kimberly Larson/Gilbane</u> <u>FedEx</u>	Courier/Airbill No.: <u>FedEx/ 7735 8757 6958</u> Date: <u>4/29/21</u> Time: <u>1400</u> Received By/ Affiliation: <u>FedEx</u> <u>[Signature]</u> Date: <u>4/29/21</u> Time: <u>1400</u> <u>5-3-21</u> <u>1420</u> 10250630 23.1°C
--	---	---



12-May-2021

Brett Womack  
Gilbane Company  
2730 Shadelands Drive  
Walnut Creek, CA 94598

Re: **HPNS Parcel E; J310000400-016**

Work Order: **21050206**

Dear Brett,

ALS Environmental received 4 samples on 05-May-2021 11:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Rob Nieman**

Electronically approved by: Rob Nieman

Rob Nieman  
Project Manager

## Report of Laboratory Analysis

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS RIGHT PARTNER



**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21050206

**Work Order Sample Summary**

---

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
21050206-01	Q0424294-MSE01	Air		4/29/2021 13:41	5/5/2021 11:45	<input type="checkbox"/>
21050206-02	9894293-MSE01	Air		4/29/2021 13:41	5/5/2021 11:45	<input type="checkbox"/>
21050206-03	Q0424295-MSE02	Air		4/29/2021 13:56	5/5/2021 11:45	<input type="checkbox"/>
21050206-04	9894294-MSE02	Air		4/29/2021 13:56	5/5/2021 11:45	<input type="checkbox"/>

---

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**Work Order:** 21050206

---

**Case Narrative**

The sample condition upon receipt was acceptable except where noted.

Results relate only to the items tested and are not blank corrected unless indicated.

ALS is an EPA recognized NLLAP laboratory for lead paint, soil, and dust wipe analyses under its AIHA-LAP accreditation.

All sampling information was provided by the client.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21050206

**Analytical Results**

**Lab ID:** 21050206-01A  
**Client Sample ID:** Q0424294-MSE01

**Collection Date:** 4/29/2021 1:41:00 PM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 384260	Analyst: SRL
Date Analyzed: 5/11/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	3.1	1.0	0.0080	

**Lab ID:** 21050206-02A  
**Client Sample ID:** 9894293-MSE01

**Collection Date:** 4/29/2021 1:41:00 PM  
**Matrix:** AIR

**Analyses**

TSP 40 CFR 50 APPDX B	Method: TSP		Air Volume (L): 384860	Analyst: SRL
Date Analyzed: 5/11/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Total suspended particulate	5.9	1.0	0.015	

METALS BY EPA METHOD 12 MOD.	Method: E12		Air Volume (L): 384860	Analyst: SRL
Date Analyzed: 5/12/2021 12:08	µg/sample	Reporting Limit µg/sample	mg/m3	
Copper	26	25	0.000067	
Lead	ND	25	<0.000065	
Manganese	ND	25	<0.000065	

**Lab ID:** 21050206-03A  
**Client Sample ID:** Q0424295-MSE02

**Collection Date:** 4/29/2021 1:56:00 PM  
**Matrix:** AIR

**Analyses**

PM : PM10 40CFR 50 APPDIX J	Method: PM10		Air Volume (L): 378600	Analyst: SRL
Date Analyzed: 5/11/2021	mg/sample	Reporting Limit mg/sample	mg/m3	
Particulate as PM10	ND	1.0	<0.0026	

**Note:**

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016

**Work Order:** 21050206

**Analytical Results**

**Lab ID:** 21050206-04A  
**Client Sample ID:** 9894294-MSE02

**Collection Date:** 4/29/2021 1:56:00 PM  
**Matrix:** AIR

**Analyses**

<b>TSP 40 CFR 50 APPDX B</b>		Method: <b>TSP</b>		Air Volume (L): <b>311200</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/11/2021		Reporting Limit			
	mg/sample	mg/sample		mg/m3	
<b>Total suspended particulate</b>	<b>2.7</b>	<b>1.0</b>		<b>0.0085</b>	

<b>METALS BY EPA METHOD 12 MOD.</b>		Method: <b>E12</b>		Air Volume (L): <b>311200</b>	Analyst: <b>SRL</b>
Date Analyzed: 5/12/2021 12:20		Reporting Limit			
	µg/sample	µg/sample		mg/m3	
Copper	ND	25		<0.000080	
Lead	ND	25		<0.000080	
Manganese	ND	25		<0.000080	

**Note:**

**Client:** Gilbane Company  
**Work Order:** 21050206  
**Project:** HPNS Parcel E; J310000400-016

**QC BATCH REPORT**

Batch ID: **R191739** Instrument ID: **BAL2** Method: **PM10**

DUP		Sample ID: <b>21050206-01A DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>5/11/2021</b>		
Client ID: <b>Q0424294-MSE01</b>		Run ID: <b>BAL2_210511A</b>				SeqNo: <b>2464217</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Particulate as PM10	3.03	1.0	0	0	0		3.08	1.64	20	

DUP		Sample ID: <b>21050206-02a DUP</b>				Units: <b>mg/sample</b>		Analysis Date: <b>5/11/2021</b>		
Client ID: <b>9894293-MSE01</b>		Run ID: <b>BAL2_210511A</b>				SeqNo: <b>2464232</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total suspended particulate	6.11	1.0	0	0	0		5.93	2.99	20	

The following samples were analyzed in this batch:

21050206-01A	21050206-02a	21050206-03A
21050206-04A		

Client: Gilbane Company  
 Work Order: 21050206  
 Project: HPNS Parcel E; J310000400-016

# QC BATCH REPORT

Batch ID: 74495 Instrument ID: ICP1 Method: E12

MBLK		Sample ID: MBLK-74495-74495				Units: µg/sample		Analysis Date: 5/12/2021 11:57 AM			
Client ID:		Run ID: ICP1_210512A				SeqNo: 2464238		Prep Date: 5/11/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	ND	100									
Lead	ND	25									
Manganese	ND	100									

LCS		Sample ID: LCS-74495-74495				Units: µg/sample		Analysis Date: 5/12/2021 12:01 PM			
Client ID:		Run ID: ICP1_210512A				SeqNo: 2464239		Prep Date: 5/11/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	420.3	100	450	0	93.4	75-125	0				
Lead	424.2	25	450	0	94.3	75-125	0				
Manganese	418.9	100	450	0	93.1	75-125	0				

LCSD		Sample ID: LCSD-74495-74495				Units: µg/sample		Analysis Date: 5/12/2021 12:05 PM			
Client ID:		Run ID: ICP1_210512A				SeqNo: 2464240		Prep Date: 5/11/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	434.8	100	450	0	96.6	75-125	420.3	3.38	20		
Lead	439.5	25	450	0	97.7	75-125	424.2	3.53	20		
Manganese	435.2	100	450	0	96.7	75-125	418.9	3.81	20		

MS		Sample ID: 21050206-02A MS				Units: µg/sample		Analysis Date: 5/12/2021 12:12 PM			
Client ID: 9894293-MSE01		Run ID: ICP1_210512A				SeqNo: 2464242		Prep Date: 5/11/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	439.3	100	450	25.95	91.9	75-125	0				
Lead	435.9	25	450	3.882	96	75-125	0				
Manganese	422.6	100	450	6.588	92.5	75-125	0				

MSD		Sample ID: 21050206-02A MSD				Units: µg/sample		Analysis Date: 5/12/2021 12:16 PM			
Client ID: 9894293-MSE01		Run ID: ICP1_210512A				SeqNo: 2464243		Prep Date: 5/11/2021		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Copper	438.9	100	450	25.95	91.8	75-125	439.3	0.0922	20		
Lead	428	25	450	3.882	94.2	75-125	435.9	1.83	20		
Manganese	416.6	100	450	6.588	91.1	75-125	422.6	1.45	20		

The following samples were analyzed in this batch: 21050206-02A 21050206-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Gilbane Company  
**Project:** HPNS Parcel E; J310000400-016  
**WorkOrder:** 21050206

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	
mg/sample	

Sample Receipt Checklist

Client Name: **GILBANE-WALNUTCREEK**

Date/Time Received: **05-May-21 11:45**

Work Order: **21050206**

Received by: **RDN**

Checklist completed by: Jan Wilcox 06-May-21  
eSignature Date

Reviewed by: Rob Nieman 07-May-21  
eSignature Date

Matrices: air  
 Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text"/>		
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

-----

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520

21050206

COC # KT050421



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: ALS Laboratory Group, Cincinnati, OH	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 4388 Glendale Milford Rd., Blue Ash, OH 45242	

Comments:	Analytical Test Method	CAAIR - Air PM10	E12 - Air Pb Mn Cu	N0500 - Air TSP	Code	Matrix
					A	Air
Equipment:					Code	Container/Preservative
					1	1x 250-mL Plastic, 4 Degrees C
					1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring																				
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																	Top	Bottom		
1	Q0424294-MSE01	A	04/29/2021	1341	KT	X									AMSE1	N2	0.00	0.00	1	VOLUME: 384.26
2	9894293-MSE01	A	04/29/2021	1341	KT		X	X							AMSE1	N2	0.00	0.00	1	VOLUME: 384.86
3	Q0424295-MSE02	A	04/29/2021	1356	KT	X									AMSE2	N2	0.00	0.00	1	VOLUME: 378.60
4	9894294-MSE02	A	04/29/2021	1356	KT		X	X							AMSE2	N2	0.00	0.00	1	VOLUME: 311.20
5																				
6																				
7																				
8																				
9																				
10																				

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	5/4/21	1500	Ked Gx	5/4/21	1500	Shipping Date: 5/4/2021 / 7736 2666 8828
				5/5/21	11:45	Received by Laboratory: (Signature, Date, Time) & condition
			✓ Custody Seal			

# Laboratory Analysis Report

Job ID : 21050430



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

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**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 4  
Attn: Brett Womack P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 05/06/2021 12:30  
City, State, Zip: Concord, California, 94520 Sample Collected By : Kim Tom

---

**A&B Labs has analyzed the following samples...**

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-042921	4/29/2021 13:22	Cassette	21050430.01
MSE02-042921	4/29/2021 13:27	Cassette	21050430.02

A handwritten signature in black ink, appearing to read 'S. C. W.' with a horizontal line underneath.

Released By: Senthilkumar Sevukan

Title: Vice President Operations

Analyst:

A handwritten signature in black ink, appearing to read 'B. Womack'.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Any TWA calculations are based on client supplied data not lab observation.

ab-q210-0321

5/11/2021



**ANALYSIS OF AIRBORNE FIBER SAMPLING  
SAMPLING PERFORMED BY CLIENT  
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.  
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 5/11/2021

Job ID : 21050430  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: Brett Womack		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
21050430.01	MSE01-042921	04/29/2021	Area	2			301	602	100	11.0	14.013	0.009		05/11/21	Habedi
21050430.02	MSE02-042921	04/29/2021	Area	2			324	648	100	9.0	11.465	0.007		05/11/21	Habedi

Detection limit of this method is estimated at 7 f/mm2 (5.5 fibers per 100 fields)



# Sample Condition Checklist

A&B JobID : <b>21050430</b>	Date Received : <b>05/06/2021</b>	Time Received : <b>12:30PM</b>																										
Client Name : <b>Gilbane</b>																												
Temperature : <b>20.2-0.1cf=20.1°C</b>	Sample pH : <b>N/A</b>																											
Thermometer ID : <b>1709629</b>	pH Paper ID : <b>N/A</b>																											
Perservative :																												
<b>Check Points</b>																												
<b>1.</b>	<b>Cooler seal present and signed.</b>	X		N/A																								
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X																									
<b>3.</b>	<b>If yes, ice in cooler.</b>	X																										
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X																										
<b>5.</b>	<b>C-O-C signed and dated.</b>	X																										
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X																									
<b>7.</b>	<b>Sample containers arrived intact. (If no comment).</b>	X																										
<b>8.</b>	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right;"><b>Matrix</b></td> <td style="text-align: right;"><b>Water</b></td> <td style="text-align: right;"><b>Soil</b></td> <td style="text-align: right;"><b>Liquid</b></td> <td style="text-align: right;"><b>Sludge</b></td> <td style="text-align: right;"><b>Solid</b></td> <td style="text-align: right;"><b>Cassette</b></td> <td style="text-align: right;"><b>Tube</b></td> <td style="text-align: right;"><b>Bulk</b></td> <td style="text-align: right;"><b>Badge</b></td> <td style="text-align: right;"><b>Food</b></td> <td style="text-align: right;"><b>Other</b></td> </tr> <tr> <td style="text-align: right;">:</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table>	<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>	:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<b>Matrix</b>	<b>Water</b>	<b>Soil</b>	<b>Liquid</b>	<b>Sludge</b>	<b>Solid</b>	<b>Cassette</b>	<b>Tube</b>	<b>Bulk</b>	<b>Badge</b>	<b>Food</b>	<b>Other</b>																	
:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																	
<b>9.</b>	<b>Sample(s) were received in appropriate container(s).</b>	X																										
<b>10.</b>	<b>Sample(s) were received with proper preservative</b>			X																								
<b>11.</b>	<b>All samples were logged or labeled.</b>	X																										
<b>12.</b>	<b>Sample ID labels match C-O-C ID's</b>	X																										
<b>13.</b>	<b>Bottle count on C-O-C matches bottles found.</b>	X																										
<b>14.</b>	<b>Sample volume is sufficient for analyses requested.</b>	X																										
<b>15.</b>	<b>Samples were received within the hold time.</b>	X																										
<b>16.</b>	<b>VOA vials completely filled.</b>			X																								
<b>17.</b>	<b>Sample accepted.</b>	X																										
<b>18.</b>	<b>Has client been contacted about sub-out</b>			X																								
<b>Comments : Include actions taken to resolve discrepancies/problem:</b>																												
C/S on box. JM 5-6-21																												

Received by : JMontemayor

Check in by/date : JMontemayor / 05/06/2021

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 5/4/2021  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-042921 <i>OVA</i>	4/29/2021	1322	NA	NA	1	AA	X	None		301
MSE02-042921 <i>OVA</i>	4/29/2021	1327	NA	NA	1	AA	X	Filter		324

**\* Job ID: 21050430**

Sampled By: *K. Tom*  
 Signature: *AB*  
 Special Instructions: None  
 Send Results to: [Redacted]  
 Turnaround Time: Standard

Sampler: *K. Tom* Courier/Airbill No.: FedEx/ 7736 2700 3441  
 Relinquished By/Affiliation: *Kimberly Tom/Gilbane* Date: *5/4/21* Time: *1500*  
*FedEx* *5-6-21* *1230* Received By/ Affiliation: *FedEx* Date: *5/4/21* Time: *1500*  
*[Signature]* *5-6-21* *1230*