



**Naval Facilities Engineering Systems 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**

July 1<sup>st</sup>, 2021 through July 31<sup>st</sup>, 2021

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CALIFORNIA**

July 1<sup>st</sup>, 2021 through July 31<sup>st</sup>, 2021

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Prepared for:



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## Table of Contents

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, Copper, Lead, and Manganese.....	3-1
3.3	TSP.....	3-1
3.4	Radionuclides of Concern .....	3-2
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: Copper, Lead, and Manganese Monitoring Results.....	D-1
Attachment 5: Total Suspended Particulates Monitoring Results.....	E-1
Attachment 6: Air Sample Results – Public Exposure Monitoring.....	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
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## 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>
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>
PEL .....	<i>permissible exposure limit</i>
PM10 .....	<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 Dust Monitoring and Control Plan (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 July 1<sup>st</sup>, 2021 through July 31<sup>st</sup>, 2021 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

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## 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 (Bayview Manor - KCASANFR1775 and APTIM HPNS – KCASANFR1504) 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) and Metals (Copper, Lead, and Manganese)
3. Total suspended particulates (TSP)
4. Radiological air samplers

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## **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. Asbestos results were reviewed for anomalies and compliance with the action levels listed below.

### **3.2 PM10, Copper, Lead, and Manganese**

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 Bayview Manor - KCASANFR1775 and APTIM HPNS – KCASANFR1504 U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in Title 40 Code of Federal Regulations (CFR), Part 50, Subpart J. During the sampling, 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 concentration is gravimetrically determined. The sample results are reviewed for field and laboratory anomalies to provide confidence in the data and compared to air quality criteria to ensure compliance with the action levels listed below. In this way the precise amount of PM10 present in each cubic meter of air is determined.

Once the PM10 concentration was gravimetrically determined, the filter was analyzed for copper, manganese and lead in accordance with EPA Method 6020 (equivalent to IO-3.5 in the 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.

### **3.3 TSP**

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 40 CFR 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. The resulting concentration was compared to the HPNS Basewide level listed below to minimize permissible dust releases from the site.

### 3.4 Radionuclides of Concern

Radiological air samples were collected on filter media with a LV-1 low-volume air sampler. The air filter concentration is 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 concentration 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 concentration in air 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 media, 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. Calculated negative values indicating that the upwind concentration was greater than the downwind concentration and non-detected values where no delta was calculated, 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 Criteria	Threshold Criteria Reference
Asbestos	0.1 fiber/cm <sup>3</sup>	Cal/OSHA PEL
PM10 <sup>a</sup>	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

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## 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 July 1<sup>st</sup> to July 31<sup>st</sup>, 2021, during which Gilbane was preparing the 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. The site was closed from July 16<sup>th</sup> to July 31<sup>st</sup>, 2021.

Construction and remediation activities conducted from July 1<sup>st</sup> to July 31<sup>st</sup>, 2021 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from July 1<sup>st</sup> to July 31<sup>st</sup>, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10, lead, manganese, and copper results from July 1<sup>st</sup> to July 31<sup>st</sup>, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 3** and **Attachment 4**.

TSP results from July 1<sup>st</sup> to July 31<sup>st</sup>, 2021 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from July 1<sup>st</sup> to July 31<sup>st</sup>, 2021 did not exceed the threshold 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.

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## 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.

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# FIGURES

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

**Figure 2-1**  
Air Monitoring Stations

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**ATTACHMENT 1**  
**AMBIENT PRESSURE, TEMPERATURE, AND**  
**PREVALENT WIND DIRECTION MONITORING RESULTS**

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**Attachment 1: Ambient Pressure, Temperature, and Prevalent Wind Direction Monitoring Results**

<b>Start Date</b>	<b>Ambient Pressure (in Hg)</b>	<b>Ambient Temperature (°F)</b>	<b>Prevalent Wind Direction</b>
7/1/2021 <sup>1</sup>	29.93	59.05	SW
7/6/2021 <sup>2</sup>	30.06	57.48	W
7/7/2021 <sup>2</sup>	29.96	56.38	W
7/8/2021 <sup>2</sup>	29.90	62.39	W
7/9/2021 <sup>2</sup>	29.97	67.20	W
7/12/2021 <sup>2</sup>	29.97	54.82	WSW
7/13/2021 <sup>2</sup>	29.98	56.40	WSW
7/14/2021 <sup>2</sup>	30.01	58.20	WSW
7/15/2021 <sup>2</sup>	30.08	56.82	WSW

**Notes:**

<sup>1</sup>Data collected using wunderground.com from Bayview Manor - KCASANFR1775.

<sup>2</sup>Data collected using wunderground.com from APTIM HPNS - KCASANFR1504

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

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# **ATTACHMENT 2**

## **ASBESTOS MONITORING RESULTS**

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## Attachment 2: Asbestos Monitoring Results

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)
MSE01-070121	07/01/21	1	250	500	10.5	0.010	No
MSE02-070121	07/01/21	2	253	506	14.0	0.014	No
MSE01-070621	07/06/21	1	395	790	26.5	0.016	No
MSE02-070621	07/06/21	2	359	718	13.5	0.009	No
MSE01-070721	07/07/21	1	460	920	18.0	0.010	No
MSE02-070721	07/07/21	2	530	1060	11.5	0.005	No
MSE01-070821	07/08/21	1	472	944	11.0	0.006	No
MSE02-070821	07/08/21	2	488	976	11.0	0.006	No
MSE01-070921	07/09/21	1	454	908	16.0	0.019	No
MSE02-070921	07/09/21	2	450	900	11.5	0.006	No
MSE01-071221	07/12/21	1	459	918	11.5	0.006	No
MSE02-071221	07/12/21	2	488	976	9.5	0.005	No
MSE01-071321	07/13/21	1	488	976	12.0	0.006	No
MSE02-071321	07/13/21	2	505	1010	14.5	0.007	No
MSE01-071421	07/14/21	1	513	1026	13.0	0.006	No
MSE02-071421	07/14/21	2	525	1050	14.0	0.007	No
MSE01-071521	07/15/21	1	351	702	11.5	0.008	No
MSE02-071521	07/15/21	2	465	930	8.5	0.004	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

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**ATTACHMENT 3**  
**PARTICULATE MATTER, SMALLER THAN TEN MICRONS**  
**(PM10) MONITORING RESULTS**

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**Attachment 3: Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results**

Sample, Date and Station Information			Sampler Run Information	PM10						
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>4</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANEPM061721-1282	1	7/1/2021	1673.94	0.0054						
GILBANEPM061721-1283	2	7/1/2021	1696.31	0.0058	0.0004	0.4	5,000	No	50	No
GILBANEPM061721-1284	1	7/1/2021 <sup>2</sup>	304.34	0.0062						
GILBANEPM061721-1285	2	7/1/2021 <sup>2</sup>	310.31	0.0064	0.0002	0.2	5,000	No	50	No
GILBANEPM061721-1286	1	7/7/2021	1643.13	0.011						
GILBANEPM061721-1287	2	7/7/2021	1578.70	0.015	0.0040	4.0	5,000	No	50	No
GILBANEPM062921-1288	1	7/8/2021	1744.60	0.02						
GILBANEPM062921-1289	2	7/8/2021	1752.27	0.022	0.0020	2.0	5,000	No	50	No
GILBANEPM062921-1290	1	7/9/2021	1732.86	0.038						
GILBANEPM062921-1291	2	7/9/2021	1780.86	0.027	-0.0110	-11.0	5,000	No	50	No
GILBANEPM062921-1292	1	7/9/2021 <sup>2</sup>	554.45	0.048						
GILBANEPM062921-1293	2	7/9/2021 <sup>2</sup>	553.59	0.03	-0.0180	-18.0	5,000	No	50	No
GILBANEPM062921-1294	1	7/13/2021	1719.82	0.012						
GILBANEPM062921-1295	2	7/13/2021	1738.06	0.012	0.0000	0.0	5,000	No	50	No
GILBANEPM062921-1296	1	7/14/2021	1732.51	0.01						
GILBANEPM062921-1297	2	7/14/2021	1715.05	0.0098	-0.0002	-0.2	5,000	No	50	No

### Attachment 3: Particulate Matter, Smaller than Ten Microns (PM10) Monitoring Results

Sample, Date and Station Information			Sampler Run Information	PM10						
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>4</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANEPM062921-1298	1	7/15/2021	1842.43	0.0087						
GILBANEPM062921-1299	2	7/15/2021 <sup>3</sup>	441.36	0.0023	-0.0064	-6.4	5,000	No	50	No
GILBANEPM062921-1300	1	7/15/2021 <sup>2</sup>	721.80	0.0094						
GILBANEPM062921-1301	2	7/15/2021 <sup>2</sup>	421.64	0.005	-0.0044	-4.4	5,000	No	50	No

**Notes:**

<sup>1</sup>Air sample was not collected on days with rain or when contaminated soil was not disturbed.

<sup>2</sup>Air sample was taken down during the afternoon after field activities ceased.

<sup>3</sup>Motor malfunction

<sup>4</sup>PM10 data is additionally compared to the recommended dust action level of 50 ug/m<sup>3</sup> for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

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

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

PEL = permissible exposure limit

PM<sub>10</sub> = particulate matter smaller than 10 microns in diameter

ug/m<sup>3</sup> = micrograms per cubic meter



# **ATTACHMENT 4**

## **COPPER, LEAD, AND MANGANESE MONITORING RESULTS**

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### Attachment 4: Copper, Lead, and Manganese Monitoring Results

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)
GILBANEPM061721-1282	1	7/1/2021	1673.94	0.00002	No	0.000001	No	0.0000013 J+	No
GILBANEPM061721-1283	2	7/1/2021	1696.31	0.000035	No	0.00000039 J	No	0.0000013 J+	No
GILBANEPM061721-1284	1	7/1/2021 <sup>2</sup>	304.34	0.000027	No	0.0000016 J	No	0.0000026 J	No
GILBANEPM061721-1285	2	7/1/2021 <sup>2</sup>	310.31	0.00004	No	0.0000011 J	No	0.000003 J	No
GILBANEPM061721-1286	1	7/7/2021	1643.13	0.000018	No	0.0000011	No	0.0000022	No
GILBANEPM061721-1287	2	7/7/2021	1578.70	0.00016	No	0.000001	No	0.0000027	No
GILBANEPM062921-1288	1	7/8/2021	1744.60	0.000026	No	0.00000069	No	0.0000018	No
GILBANEPM062921-1289	2	7/8/2021	1752.27	0.00011	No	0.00000046 J	No	0.0000024	No
GILBANEPM062921-1290	1	7/9/2021	1732.86	0.00033	No	0.0000059	No	0.000012	No
GILBANEPM062921-1291	2	7/9/2021	1780.86	0.000075	No	0.0000028	No	0.0000035	No
GILBANEPM062921-1292	1	7/9/2021 <sup>2</sup>	554.45	0.00018	No	0.0000083	No	0.000021	No
GILBANEPM062921-1293	2	7/9/2021 <sup>2</sup>	553.59	0.000036	No	0.0000038	No	0.0000093	No
GILBANEPM062921-1294	1	7/13/2021	1719.82	0.000099	No	0.0000007	No	0.000002	No
GILBANEPM062921-1295	2	7/13/2021	1738.06	0.00013	No	0.00000055 J	No	0.0000025	No
GILBANEPM062921-1296	1	7/14/2021	1732.51	0.000031	No	0.00000058 J	No	0.0000021	No
GILBANEPM062921-1297	2	7/14/2021	1715.05	0.000064	No	0.00000049 J	No	0.0000022	No
GILBANEPM062921-1298	1	7/15/2021	1842.43	0.000013	No	0.0000011 J	No	0.0000031	No
GILBANEPM062921-1299	2	7/15/2021 <sup>3</sup>	721.80	0.00018	No	0.0000028	No	0.0000051	No
GILBANEPM062921-1300	1	7/15/2021 <sup>2</sup>	441.36	0.000034	No	0.0000012	No	0.0000037	No
GILBANEPM062921-1301	2	7/15/2021 <sup>2</sup>	421.64	0.000052	No	0.0000016 J	No	0.000005	No

**Notes:**

<sup>1</sup>Air sample was not collected on days with rain or when contaminated soil was not disturbed.

<sup>2</sup>Air sample was taken down during the afternoon after field activities ceased.

<sup>3</sup>Motor malfunction

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

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

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

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**ATTACHMENT 5**  
**TOTAL SUSPENDED PARTICULATES**  
**MONITORING RESULTS**

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### Attachment 5: Total Suspended Particulates Monitoring Results

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)
GILBANETSP061721-1282	1	7/1/2021	1682.15	0.008501			
GILBANETSP061721-1283	2	7/1/2021	1618.69	0.0069192	-0.002	0.5	No
GILBANETSP061721-1284	1	7/1/2021 <sup>2</sup>	305.62	0.0078529			
GILBANETSP061721-1285	2	7/1/2021 <sup>2</sup>	294.89	0.009156	0.001	0.5	No
GILBANETSP061721-1286	1	7/7/2021	1630.36	0.0240438			
GILBANETSP061721-1287	2	7/7/2021	1512.49	0.0173885	-0.007	0.5	No
GILBANETSP062921-1288	1	7/8/2021	1739.01	0.0280044			
GILBANETSP062921-1289	2	7/8/2021	1669.30	0.0286348	0.001	0.5	No
GILBANETSP062921-1290	1	7/9/2021	1737.20	0.0504835			
GILBANETSP062921-1291	2	7/9/2021	1664.10	0.040691	-0.010	0.5	No
GILBANETSP062921-1292	1	7/9/2021 <sup>2</sup>	554.93	0.0693781			
GILBANETSP062921-1293	2	7/9/2021 <sup>2</sup>	522.32	0.0480548	-0.021	0.5	No
GILBANETSP062921-1294	1	7/13/2021	1727.29	0.0157472			
GILBANETSP062921-1295	2	7/13/2021	1653.98	0.0151755	-0.001	0.5	No
GILBANETSP062921-1296	1	7/14/2021	1736.28	0.0203308			
GILBANETSP062921-1297	2	7/14/2021	1631.21	0.0184526	-0.002	0.5	No
GILBANETSP062921-1298	1	7/15/2021	1872.21	0.019923			

### Attachment 5: Total Suspended Particulates Monitoring Results

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)
GILBANETSP062921-1299	2	7/15/2021 <sup>3</sup>	684.13	0.022218	0.002	0.5	No
GILBANETSP062921-1300	1	7/15/2021 <sup>2</sup>	419.19	0.0045326			
GILBANETSP062921-1301	2	7/15/2021 <sup>2</sup>	407.45	0.0090809	0.005	0.5	No

**Notes:**

<sup>1</sup>Air sample was not collected on days with rain or when contaminated soil was not disturbed.

<sup>2</sup>Air sample was taken down during the afternoon after field activities ceased.

<sup>3</sup>Motor malfunction

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

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

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



**ATTACHMENT 6**  
**AIR SAMPLING RESULTS –**  
**PUBLIC EXPOSURE MONITORING**

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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				Alpha	Beta	Air samples collected between 01 Jul 2021 and 15 Jul 2021				Value < 0.1 x Effluent Conc (i.e., < 10%)						
Information effective as of: 07 Aug 2021										Radionuclide	Ra-226	Sr-90					Value > 0.1 x Effluent Conc (i.e., > 10%)					
										Effluent Conc (µCi/ml)	9.E-13	6.E-12					Value > Effluent Conc (i.e., > 100%)					
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-0237	Perimeter	MSE01	PE09	60	7/1/21 4:55	7/1/21 11:18	383	2.3E+07	C	07/06/21	1	cpm	0.10	3.80	0.3	7.4	5.5E-15	1.4E-13	0.6%	2.4%	DVT	BCS
AS-0238	Perimeter	MSE02	PE10	60	7/1/21 4:45	7/1/21 11:34	409	2.5E+07	C	07/06/21	1	cpm	0.20	3.60	0.6	6.8	1.0E-14	1.3E-13	1.1%	2.1%	DVT	BCS
AS-0239	Perimeter	MSE01	PE09	60	7/6/21 8:06	7/6/21 15:00	414	2.5E+07	C	07/13/21	1	cpm	0.25	5.05	0.7	10.9	1.3E-14	2.0E-13	1.4%	3.3%	DVT	BCS
AS-0240	Perimeter	MSE02	PE10	60	7/6/21 8:10	7/6/21 14:55	405	2.4E+07	C	07/13/21	1	cpm	0.15	5.15	0.4	11.2	7.8E-15	2.1E-13	0.9%	3.5%	DVT	BCS
AS-0241	Perimeter	MSE01	PE09	60	7/7/21 5:05	7/7/21 14:16	551	3.3E+07	C	07/13/21	1	cpm	0.25	2.85	0.7	4.7	9.6E-15	6.4E-14	1.1%	1.1%	DVT	BCS
AS-0242	Perimeter	MSE02	PE10	60	7/7/21 4:55	7/7/21 14:01	546	3.3E+07	C	07/13/21	1	cpm	0.25	4.30	0.7	8.8	9.7E-15	1.2E-13	1.1%	2.0%	DVT	BCS
AS-0243	Perimeter	MSE01	PE09	60	7/8/21 5:00	7/8/21 14:10	550	3.3E+07	C	07/13/21	1	cpm	0.10	3.85	0.3	7.5	3.8E-15	1.0E-13	0.4%	1.7%	DVT	BCS
AS-0244	Perimeter	MSE02	PE10	60	7/8/21 4:55	7/8/21 14:15	560	3.4E+07	C	07/13/21	1	cpm	0.15	4.00	0.4	8.0	5.6E-15	1.1E-13	0.6%	1.8%	DVT	BCS
AS-0245	Perimeter	MSE01	PE09	60	7/9/21 5:10	7/9/21 13:40	510	3.1E+07	C	07/13/21	1	cpm	0.20	5.10	0.6	11.1	8.3E-15	1.6E-13	0.9%	2.7%	DVT	BCS
AS-0246	Perimeter	MSE02	PE10	60	7/9/21 5:15	7/9/21 13:30	495	3.0E+07	C	07/13/21	1	cpm	0.05	3.35	0.1	6.1	2.1E-15	9.3E-14	0.2%	1.5%	DVT	BCS
AS-0247	Perimeter	MSE01	PE09	60	7/12/21 6:35	7/12/21 15:35	540	3.2E+07	C	08/05/21	1	cpm	0.05	4.00	0.1	8.0	2.0E-15	1.1E-13	0.2%	1.8%	DVT	CB
AS-0248	Perimeter	MSE02	PE10	60	7/12/21 6:45	7/12/21 15:10	505	3.0E+07	C	08/05/21	1	cpm	0.10	3.85	0.3	7.5	4.2E-15	1.1E-13	0.5%	1.9%	DVT	CB
AS-0249	Perimeter	MSE01	PE09	60	7/13/21 4:45	7/13/21 15:45	660	4.0E+07	C	08/05/21	1	cpm	0.10	4.45	0.3	9.2	3.2E-15	1.1E-13	0.4%	1.8%	DVT	CB
AS-0250	Perimeter	MSE02	PE10	60	7/13/21 4:55	7/13/21 15:35	640	3.8E+07	C	08/05/21	1	cpm	0.10	4.30	0.3	8.8	3.3E-15	1.0E-13	0.4%	1.7%	DVT	CB
AS-0251	Perimeter	MSE01	PE09	60	7/14/21 4:45	7/14/21 15:35	650	3.9E+07	C	08/05/21	1	cpm	0.20	3.55	0.6	6.7	6.5E-15	7.7E-14	0.7%	1.3%	DVT	CB
AS-0252	Perimeter	MSE02	PE10	60	7/14/21 4:55	7/14/21 15:45	650	3.9E+07	C	08/05/21	1	cpm	0.15	3.80	0.4	7.4	4.9E-15	8.5E-14	0.5%	1.4%	DVT	CB
AS-0253	Perimeter	MSE01	PE09	60	7/15/21 4:40	7/15/21 13:30	530	3.2E+07	C	08/05/21	1	cpm	0.35	3.55	1.0	6.7	1.4E-14	9.5E-14	1.5%	1.6%	DVT	CB
AS-0254	Perimeter	MSE02	PE10	60	7/15/21 4:55	7/15/21 13:35	520	3.1E+07	C	08/05/21	1	cpm	0.05	4.15	0.1	8.4	2.0E-15	1.2E-13	0.2%	2.0%	DVT	CB

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# **ATTACHMENT 7**

## **LABORATORY REPORTS**

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# Laboratory Analysis Report

Job ID : 21070695



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: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 07/08/2021 03:41  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-070121	7/1/2021 11:10	Cassette	21070695.01
MSE02-070121	7/1/2021 11:00	Cassette	21070695.02

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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

7/15/2021



**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 7/15/2021

Job ID : 21070695  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane		Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]			
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
21070695.01	MSE01-070121	07/01/2021	Area	2			250	500	100	10.5	13.376	0.010		07/15/21	[REDACTED]
21070695.02	MSE02-070121	07/01/2021	Area	2			253	506	100	14.0	17.834	0.014		07/15/21	[REDACTED]

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





# Sample Condition Checklist

A&B JobID : <b>21070695</b>	Date Received : <b>07/08/2021</b>	Time Received : <b>3:41AM</b>																										
Client Name : <b>Gilbane</b>																												
Temperature : <b>19.8-0.1cf=19.7°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>	<b>Yes</b>	<b>No</b>	<b>N/A</b>																								
<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>																												
Received in box with custody seal.																												

Received by : ██████████

Check in by/date : ██████████ / 07/09/2021

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: 7/06/2021  
 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:		
MSE01-070121	7/01/2021	1110	NA	NA	1	AA	X	None		250
MSE02-070121	7/01/2021	1100	NA	NA	1	AA	X	Filter		253

Job ID: 21070695



Sampled By: [Redacted]

Sampler: [Redacted]

Courier/Airbill No.: FedEx/ 774168705847

Special Instructions: None

Relinquished By/Affiliation: [Redacted]

Date:	Time:	Received By/ Affiliation:	Date:	Time:
7/6/21	1400	FedEx	7/6/21	1400
7-8-21		[Redacted]	7-8-21	154

Send Results to: edawson@gilbaneco.com  
ktom@gilbaneco.com

Turnaround Time: Standard

ORIGIN ID: JCCA  
GILBANE  
200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 06JUL21  
ACTWGT: 1.00 LB  
CAD: 102700259/NET4340

BILL SENDER

TO  
A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J310000400 B.00.0908000

INV. PO DEPT



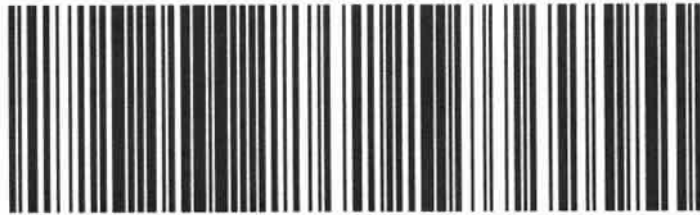
56DJ20265FE4A

TRK# 7741 6870 5847  
0201

WED - 07 JUL 4:30P  
STANDARD OVERNIGHT

UL HBYA

77029  
TX-US IAH



**After printing this label:**

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](http://fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

# Laboratory Analysis Report

Job ID : 21070776



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: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 07/12/2021 08:56  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01 - 070621	7/6/2021 5:13	Cassette	21070776.01
MSE02 - 070621	7/6/2021 5:07	Cassette	21070776.02
MSE01 - 070721	7/7/2021 14:47	Cassette	21070776.03
MSE02 - 070721	7/7/2021 14:52	Cassette	21070776.04

[REDACTED]  
Released By: [REDACTED]

Title: [REDACTED]

Analyst: [REDACTED]

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ab-q210-0321

7/19/2021



**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 7/19/2021

Job ID : 21070776  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane		Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]			
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
21070776.01	MSE01 - 070621	07/06/2021	Area	2			395	790	100	26.5	33.758	0.016		07/19/21	[REDACTED]
21070776.02	MSE02 - 070621	07/06/2021	Area	2			359	718	100	13.5	17.197	0.009		07/19/21	[REDACTED]
21070776.03	MSE01 - 070721	07/07/2021	Area	2			460	920	100	18.0	22.930	0.010		07/19/21	[REDACTED]
21070776.04	MSE02 - 070721	07/07/2021	Area	2			530	1060	100	11.5	14.650	0.005		07/19/21	[REDACTED]

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



# Sample Condition Checklist

A&B JobID : <b>21070776</b>		Date Received : <b>07/12/2021</b>		Time Received : <b>8:56AM</b>								
Client Name : <b>Gilbane</b>												
Temperature : <b>27.0-0.1cf=26.9°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>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>												
No cooler was received, however samples were received in box w/ custody seal. TG 07-12-2021												

Received by : ██████████

Check in by/date : ██████████ 07/12/2021

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: 7/08/2021  
 Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
Houston TX 77029

1A  
2A  
3A  
4A

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:		
MSE01-070621	7/06/2021	1513	NA	NA	1	AA	X	None		395
MSE02-070621	7/06/2021	1507	NA	NA	1	AA	X	None		359
MSE01-070721	7/07/2021	1447	NA	NA	1	AA	X	None		460
MSE02-070721	7/07/2021	1452	NA	NA	1	AA	X	None		530

Job ID: 21070776



Sampled By: [Redacted] Gilbane  
 Special Instructions: NONE  
 Send Results to: edawson@gilbaneco.com  
ktom@gilbaneco.com  
 Turnaround Time: Standard

Sampler: GILBANE - [Redacted] Courier/Airbill No.: FedEx/ 7742 0771 5838  
 Relinquished By/Affiliation: Gilbane [Redacted] Date: 07/08/21 Time: 1600 Received By/ Affiliation: FedEx [Redacted] Date: 7/8/21 Time: 1600  
FEDEx 7-12-21 [Redacted] 7/12/21 0854

TAMP: 27-A-01-21-010 IN: 17091.78

ORIGIN ID: JCCA  
GILBANE  
200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 08JUL21  
ACTWGT: 1.00 LB  
CAD: 102700259/NET4340

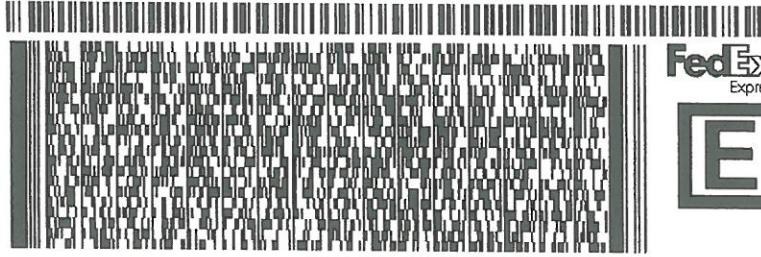
BILL SENDER

TO  
A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J310000400 B.00.0908000

INV:  
PO: DEPT:



56D120265JFE4A

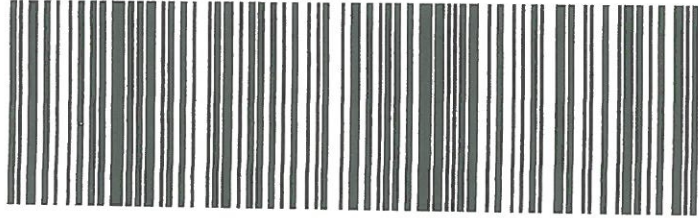
FRI - 09 JUL 4:30P

STANDARD OVERNIGHT

TRK# 7742 0771 5838  
0201

UL HBYA

TX-US 77029 IAH



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CUSTODY SEAL



Calvinio

Date: 5/108/21

Signature:

18 S,

ECURE 31



# Laboratory Analysis Report

Job ID : 21071140



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

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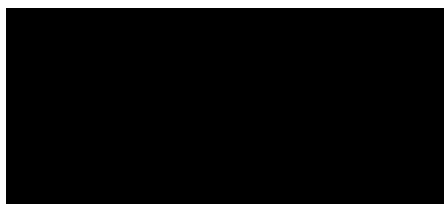
**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 07/14/2021 17:20  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

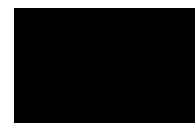
---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-070821	7/8/2021 15:00	Cassette	21071140.01
MSE02-070821	7/8/2021 15:05	Cassette	21071140.02
MSE01-070921	7/9/2021 14:36	Cassette	21071140.03
MSE02-070921	7/9/2021 14:21	Cassette	21071140.04
MSE01-071221	7/12/2021 15:20	Cassette	21071140.05
MSE02-071221	7/12/2021 15:29	Cassette	21071140.06



Analyst:



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ab-q210-0321

7/21/2021



**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 7/21/2021

Job ID : 21071140  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
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
21071140.01	MSE01-070821	07/08/2021	Area	2			472	944	100	11.0	14.013	0.006		07/19/21	[REDACTED]
21071140.02	MSE02-070821	07/08/2021	Area	2			488	976	100	11.0	14.013	0.006		07/19/21	[REDACTED]
21071140.03	MSE01-070921	07/09/2021	Area	2			454	908	100	16.0	20.382	0.019		07/19/21	[REDACTED]
21071140.04	MSE02-070921	07/09/2021	Area	2			450	900	100	11.5	14.650	0.006		07/19/21	[REDACTED]
21071140.05	MSE01-071221	07/12/2021	Area	2			459	918	100	11.5	14.650	0.006		07/19/21	[REDACTED]
21071140.06	MSE02-071221	07/12/2021	Area	2			488	976	100	9.5	12.102	0.005		07/19/21	[REDACTED]

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



# Sample Condition Checklist

A&B JobID : <b>21071140</b>		Date Received : <b>07/14/2021</b>		Time Received : <b>5:20PM</b>								
Client Name : <b>Gilbane</b>												
Temperature : <b>21.3-0.1cf=21.2°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>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 : ██████████

Check in by/date | ██████████ / 07/15/2021



07/14/2021

Gilbane

ACH

# 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: 7/13/2021  
 Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
Houston TX 77029

Analysis:

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)
<i>OIA</i> MSE01-070821	7/08/2021	1500	NA	NA	1	AA	X							472
<i>O2A</i> MSE02-070821	7/08/2021	1505	NA	NA	1	AA	X							488
<i>O3A</i> MSE01-070921	7/09/2021	1436	NA	NA	1	AA	X							454
<i>O4A</i> MSE02-070921	7/09/2021	1421	NA	NA	1	AA	X							450
<i>O5A</i> MSE01-071221	7/12/2021	1520	NA	NA	1	AA	X							459
<i>O6A</i> MSE02-071221	7/12/2021	1529	NA	NA	1	AA	X							488

*OIA*  
*O2A*  
*O3A*  
*O4A*  
*O5A*  
*O6A*

Sampled By: [Redacted] *Gilbane*  
 Special Instructions: none  
 Send Results to: edawson@gilbaneco.com  
ktom@gilbaneco.com  
 Turnaround Time: Standard

Sampler: [Redacted] *Gilbane*  
 Relinquished By/Affiliation: [Redacted] *- Gilbane*  
*FedEx*

Courier/Airbill No.: FedEx/ 7742 3765 6301  
 Received By/ Affiliation: [Redacted] *FedEx*  
 Date: 7/13/21 Time: 1600  
 Date: 7.14.21 Time: 1720

*7.13-0.1 = 21.2 C/m/AUG 21*

ORIGIN ID: ICCA  
GILBANE  
200 FISHER STREET

SHIP DATE: 13JUL21  
ACTWGT: 1.00 LB  
CAD: 102700259INET4340

SAN FRANCISCO, CA 94124  
UNITED STATES US

BILL SENDER

TO [REDACTED]

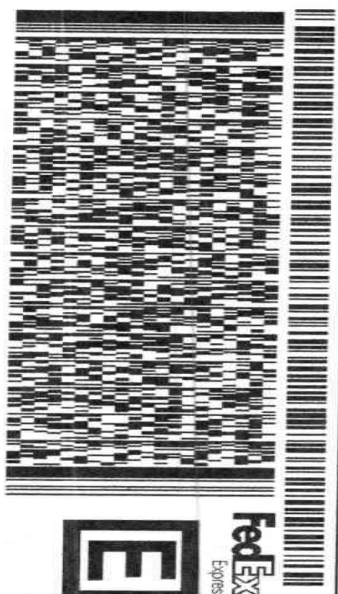
A & B LABS  
10100 EAST FREEMWAY, SUITE 100

HOUSTON TX 77029

REF: 1310003400 B 00 0909000

56DJ210265/FE4A

AV [REDACTED]  
PO [REDACTED]  
DEPT

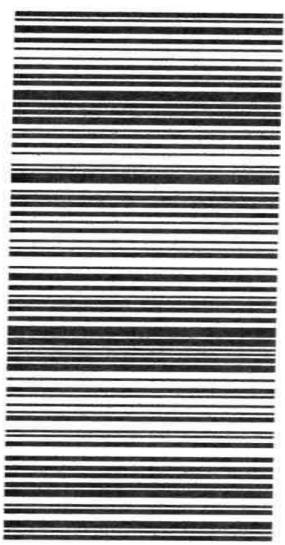


WED - 14 JUL 4:30P

STANDARD OVERNIGHT

TRK# 0201  
7742 3765 6301

ULHBYA  
TX:US IAH  
77029



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# Laboratory Analysis Report

Job ID : 21071407



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

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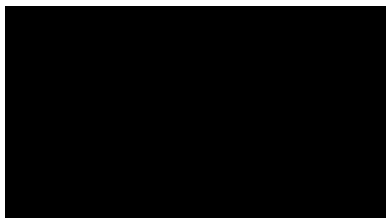
**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 07/16/2021 15:52  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-071321	7/13/2021 15:35	Cassette	21071407.01
MSE02-071321	7/13/2021 15:40	Cassette	21071407.02
MSE01-071421	7/14/2021 15:32	Cassette	21071407.03
MSE02-071421	7/14/2021 15:35	Cassette	21071407.04



Analyst:



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ab-q210-0321

7/26/2021



**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 7/26/2021

Job ID : 21071407  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
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
21071407.01	MSE01-071321	07/13/2021	Area	2			488	976	100	12.0	15.287	0.006		07/26/21	[REDACTED]
21071407.02	MSE02-071321	07/13/2021	Area	2			505	1010	100	14.5	18.471	0.007		07/26/21	[REDACTED]
21071407.03	MSE01-071421	07/14/2021	Area	2			513	1026	100	13.0	16.561	0.006		07/26/21	[REDACTED]
21071407.04	MSE02-071421	07/14/2021	Area	2			525	1050	100	14.0	17.834	0.007		07/26/21	[REDACTED]

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



# Sample Condition Checklist

A&B JobID : <b>21071407</b>	Date Received : <b>07/16/2021</b>	Time Received : <b>3:52PM</b>																										
Client Name : <b>Gilbane</b>																												
Temperature : <b>24.1-0.1cf=24.0°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																										
<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 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 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 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>																												
No cooler was received, however samples were received in a box sealed with a custody seal - ACH																												

Received by : ██████████

Check in by/date : ██████████ / 07/19/2021





07/16/2021

Gilbane

ACH

# 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: 7/15/2021  
 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:		
							None	Filter		
MSE01-071321	7/13/2021	1535	NA	NA	1	AA	X			488
MSE02-071321	7/13/2021	1540	NA	NA	1	AA	X			505
MSE01-071421	7/14/2021	1532	NA	NA	1	AA	X			513
MSE02-071421	7/14/2021	1535	NA	NA	1	AA	X			525

OIA  
O2A  
O3A  
O4A

*[Handwritten signature]*

Sampled By: [Redacted]  
 Special Instructions: None  
 Send Results to: edawson@gilbaneco.com  
ktom@gilbaneco.com  
 Turnaround Time: Standard

Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7742 6279 7338  
 Relinquished By/Affiliation: [Redacted] / Gilbane Date: 7/15/21 Time: 1600  
0 FEDEX 7-16-21 Received By/ Affiliation: [Redacted] Date: 7/15/21 Time: 1600  
[Redacted] Date: 7-16-21 Time: 1542

TEMP: 24.1 ± 0.1 °C = 240 °C ID: 1709629

ORIGIN ID: JCCA  
GILBANE  
200 FISHER STREET

SHIP DATE: 15 JUL 21  
ACTWGT: 1.00 LB  
C/D: 102700259INNET4240

SAN FRANCISCO, CA 94124  
UNITED STATES US

BILL SENDER

TO [REDACTED]

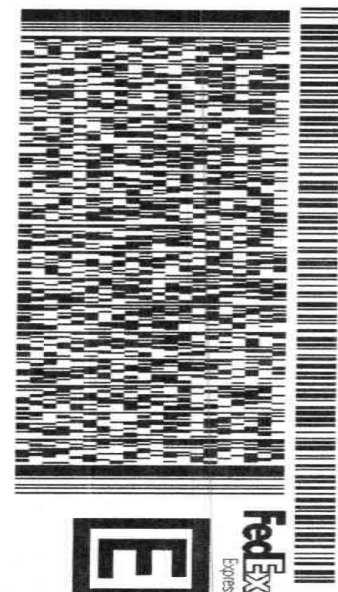
**A & B LABS**  
10100 EAST FREEMWAY, SUITE 100

**HOUSTON TX 77029**

56D.J2.0265/FE4A

REF: 1310000400 B:00:0908000

PO [REDACTED] DEPT [REDACTED]



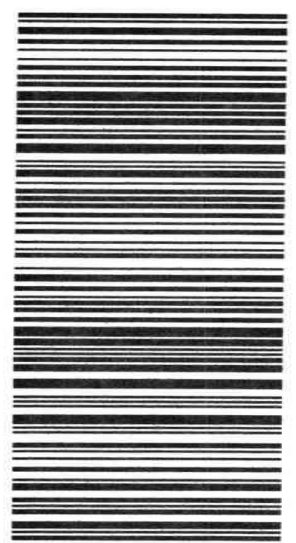
FRI - 16 JUL 4:30P

STANDARD OVERNIGHT

TRK# [0201] 7742 6279 7338

**ULHBYA**

TX-US IAH 77029



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*Gilbane* *Sig*

# Laboratory Analysis Report

Job ID : 21071813



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

---

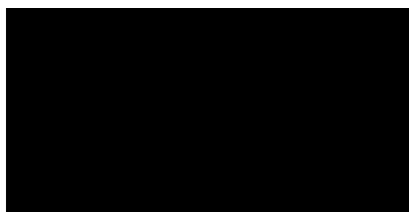
**Client Project Name :**  
**HPNS Parcel E Phase II J310000400**

**Report To :** Client Name: Gilbane Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1655 Grant Street, Suite 1200 Date Received : 07/21/2021 15:04  
City, State, Zip: Concord, California, 94520 Sample Collected By : [REDACTED]

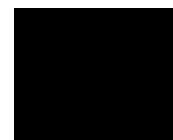
---

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-071521	7/15/2021 13:53	Cassette	21071813.01
MSE02-071521	7/15/2021 15:33	Cassette	21071813.02



Analyst:



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



**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 7/30/2021

Job ID : 21071813  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: Gilbane		Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]			
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
21071813.01	MSE01-071521	07/15/2021	Area	2			351	702	100	11.5	14.650	0.008		07/29/21	[REDACTED]
21071813.02	MSE02-071521	07/15/2021	Area	2			465	930	100	8.5	10.828	0.004		07/29/21	[REDACTED]

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



# Sample Condition Checklist

A&B JobID : <b>21071813</b>	Date Received : <b>07/21/2021</b>	Time Received : <b>3:04PM</b>
Client Name : <b>Gilbane</b>		
Temperature : <b>22.1-0.1cf=22.0°C</b>	Sample pH : <b>N/A</b>	
Thermometer ID : <b>1709629</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:**

No cooler was received, however samples were received in box with custody seal. -CH 07/22/21. Per client email - The sample ID is wrong on the COC and should read "MSE02-071521". - ACH 7/30/2021

Received by : ██████████

Check in by/date : ██████████ / 07/22/2021



# 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: 7/20/2021  
 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:		
MSE01-071521 <i>O1A</i>	7/15/2021	1353	NA	NA	1	AA	X	None		351
MSE02-062921 <i>O2A</i>	7/15/2021	1533	NA	NA	1	AA	X	Filter		465

Job ID: 21071813



07/21/2021 Gilbane ACH

Sampled By: [Redacted]  
 Signature: [Redacted]  
 Special Instructions: None  
 Send Results to: edawson@gilbaneco.com  
ktom@gilbaneco.com  
 Turnaround Time: Standard

Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7742 9478 9770  
 Relinquished By/Affiliation: [Redacted] / Gilbane Date: 7/20/21 Time: 14:00  
FedEx 7.21.21 15:04 Received By/ Affiliation: [Redacted] Date: 7/20/21 Time: 14:00  
7.21.21 15:04

TEMP: 22.1-0.1=22.0.C ID: 1709629

ORIGIN: JCCA  
GILBANE  
200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 20JUL21  
ACTWGT: 1.00 LB  
CAD: 102700259/INET4400

BILL SENDER

TO

**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

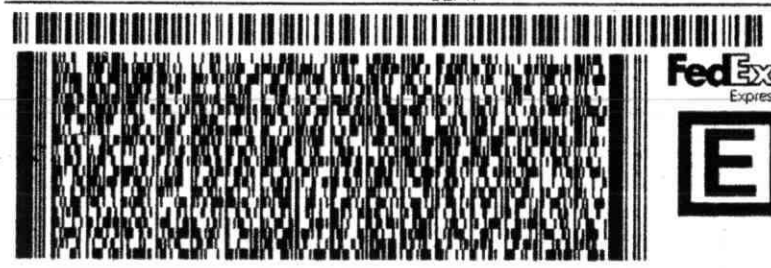
REF: J310000400 B:00 0909000

INV.  
PO:

DEPT.

56D.12.00265FE4A

FedEx Ship Manager - Print Your Label(s)

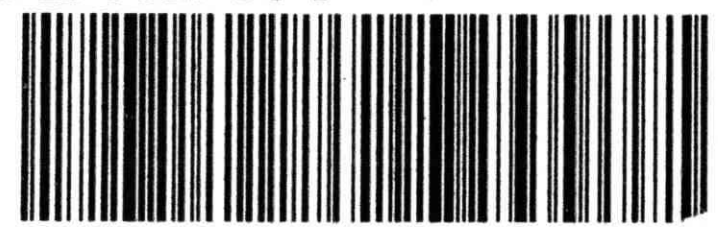


WED - 21 JUL 4:30P  
STANDARD OVERNIGHT

TRK# 7742 9478 9770  
0201

**UL HBYA**

77029  
TX-US IAH



AL

Date: 7/20/21

Signature: [Redacted]

**CUSTODY SEAL**



*Gilbane*

[REDACTED]

**From:** [REDACTED] <alishar@ablabs.com>  
**Sent:** Friday, July 30, 2021 9:56 AM  
**To:** [REDACTED]  
**Cc:** scarpenter@ablabs.com [REDACTED]  
**Subject:** Re: FW: FW: Job ID 21071813 Report, HPNS Parcel E Phase II J310000400  
**Attachments:** 21071813.pdf

[ EXTERNAL ]

Please see attached.

[REDACTED]

[REDACTED]

**A&B Environmental Services, Inc. dba A&B Labs**  
10100 East Freeway, Suite 100  
Houston, Texas 77029  
|  
[REDACTED]  
[REDACTED]  
[alishar@ablabs.com](mailto:alishar@ablabs.com)

On Fri, Jul 30, 2021 at 11:06 AM [REDACTED] <[TBeer@gilbaneco.com](mailto:TBeer@gilbaneco.com)> wrote:

[REDACTED],

Thankyou, but we still need it exactly in the format "MSE02-071521" based on intense scrutiny from the regulatory oversight.

Thanks,

[REDACTED]

[REDACTED] | Environmental | **Gilbane**

1655 Grant Street, Suite 1200, Concord, CA 94520

[REDACTED]



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---

**From:** [REDACTED] <[alishar@ablabs.com](mailto:alishar@ablabs.com)>  
**Sent:** Friday, July 30, 2021 9:00 AM  
**To:** [REDACTED] <[TBeer@GilbaneCo.com](mailto:TBeer@GilbaneCo.com)>  
**Cc:** [REDACTED] <[KTom@GilbaneCo.com](mailto:KTom@GilbaneCo.com)>; [scarpenter@ablabs.com](mailto:scarpenter@ablabs.com)  
**Subject:** Re: FW: Job ID 21071813 Report, HPNS Parcel E Phase II J310000400

[ EXTERNAL ]

Good morning!

Attached is the revised report requested.

[REDACTED]

[REDACTED]

**A&B Environmental Services, Inc. dba A&B Labs**  
10100 East Freeway, Suite 100  
Houston, Texas 77029

[REDACTED]

[REDACTED]  
[alishar@ablabs.com](mailto:alishar@ablabs.com)

On Thu, Jul 29, 2021 at 5:03 PM [REDACTED] <[TBeer@gilbaneco.com](mailto:TBeer@gilbaneco.com)> wrote:

Hi [REDACTED],

I am taking over for Evelyn while she is out until next week. Our QC didn't catch this until [REDACTED] just noticed that one of the sample IDs is wrong on the COC and should read "MSE02-71521". Please change it and re-issue the report.

Thanks,

[REDACTED]

[REDACTED] | Environmental | **Gilbane**

1655 Grant Street, Suite 1200, Concord, CA 94520

[REDACTED]

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---

**From:** [REDACTED] <[KTom@GilbaneCo.com](mailto:KTom@GilbaneCo.com)>

**Sent:** Thursday, July 29, 2021 2:46 PM

**To:** [REDACTED] <[TBeer@GilbaneCo.com](mailto:TBeer@GilbaneCo.com)>

**Subject:** FW: Job ID 21071813 Report, HPNS Parcel E Phase II J310000400

[REDACTED]

[REDACTED] | Federal Division

**Gilbane Building Company** | Celebrating 150 Years

1655 Grant Street, Suite 1200 | Concord, CA 94520

[REDACTED]

---

**From:** A & B Labs <[info@ablabs.com](mailto:info@ablabs.com)>

**Sent:** Thursday, July 29, 2021 2:43 PM

**To:** [REDACTED] <[EDawson@GilbaneCo.com](mailto:EDawson@GilbaneCo.com)>; [REDACTED] <[KTom@GilbaneCo.com](mailto:KTom@GilbaneCo.com)>; [REDACTED] <[COsorio@GilbaneCo.com](mailto:COsorio@GilbaneCo.com)>; [REDACTED] <[RWeekly@GilbaneCo.com](mailto:RWeekly@GilbaneCo.com)>

**Subject:** Job ID 21071813 Report, HPNS Parcel E Phase II J310000400

Date : 7/29/2021 4:47:37 PM  
From : **A & B Labs** <[info@ablabs.com](mailto:info@ablabs.com)>  
Subject : A&B Job ID 21071813,  
Project Name : Report, HPNS Parcel E Phase II J310000400  
Date Received : 7/21/2021  
To : [EDawson@gilbaneco.com](mailto:EDawson@gilbaneco.com)

Attached please find your final report for A&B Job ID 21071813.  
If you have questions regarding your laboratory report or other request, please contact any of the following:

[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

*We appreciate your business and would like to be your valued business partner. Please help us improve our service by participating in this "One Minute Survey" below:*

*One Minute Survey*

In appreciation of your participation in the survey your name will be included in monthly lottery drawing for a \$100 visa gift card.

[REDACTED]  
Thank you for choosing A&B Labs.

[REDACTED]  
[REDACTED]  
[www.ablabs.com](http://www.ablabs.com)

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## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-75720-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	8
QC Association Summary . . . . .	9
Lab Chronicle . . . . .	10
Certification Summary . . . . .	12
Method Summary . . . . .	13
Sample Summary . . . . .	14
Chain of Custody . . . . .	15
Receipt Checklists . . . . .	16



# Definitions/Glossary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

## Qualifiers

### Metals

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

## Glossary

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

# Case Narrative

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

---

**Job ID: 320-75720-1**

---

**Laboratory: Eurofins TestAmerica, Sacramento**

---

**Narrative**

**Job Narrative**  
**320-75720-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/2/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.1° C.

**Metals**

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

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

# Detection Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

## Client Sample ID: GILBANEPM061721-1280

## Lab Sample ID: 320-75720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.033	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0038	B	0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	18		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1280

## Lab Sample ID: 320-75720-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.6776		0.2817	0.2817	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM061721-1281

## Lab Sample ID: 320-75720-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00072		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.046	B	0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025	B	0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1281

## Lab Sample ID: 320-75720-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	18.8841		0.2960	0.2960	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM061721-1282

## Lab Sample ID: 320-75720-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0010		0.00072	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.020	B	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0013	B	0.00072	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.4		0.30	0.30	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1282

## Lab Sample ID: 320-75720-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	8.5010		0.2972	0.2972	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM061721-1283

## Lab Sample ID: 320-75720-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00039	J	0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.035	B	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0013	B	0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.8		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1283

## Lab Sample ID: 320-75720-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	6.9192		0.3089	0.3089	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

## Client Sample ID: GILBANEPM061721-1280

## Lab Sample ID: 320-75720-1

Date Collected: 06/30/21 07:49

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016		0.00068	0.00010	ug/m3 (Air)		07/12/21 07:00	07/12/21 14:59	1
Copper	0.033	B	0.0014	0.00010	ug/m3 (Air)		07/12/21 07:00	07/12/21 14:59	1
Manganese	0.0038	B	0.00068	0.000095	ug/m3 (Air)		07/12/21 07:00	07/12/21 14:59	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18		0.28	0.28	ug/m3			07/07/21 13:00	1

## Client Sample ID: GILBANETSP061721-1280

## Lab Sample ID: 320-75720-2

Date Collected: 06/30/21 07:49

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.6776		0.2817	0.2817	ug/m3 (Air)			07/07/21 13:00	1

## Client Sample ID: GILBANEPM061721-1281

## Lab Sample ID: 320-75720-3

Date Collected: 06/30/21 07:25

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00072		0.00067	0.00010	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:09	1
Copper	0.046	B	0.0013	0.00010	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:09	1
Manganese	0.0025	B	0.00067	0.000094	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:09	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.28	0.28	ug/m3			07/07/21 13:00	1

## Client Sample ID: GILBANETSP061721-1281

## Lab Sample ID: 320-75720-4

Date Collected: 06/30/21 07:25

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.8841		0.2960	0.2960	ug/m3 (Air)			07/07/21 13:00	1

## Client Sample ID: GILBANEPM061721-1282

## Lab Sample ID: 320-75720-5

Date Collected: 07/01/21 06:55

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0010		0.00072	0.00011	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:12	1
Copper	0.020	B	0.0014	0.00011	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:12	1
Manganese	0.0013	B	0.00072	0.00010	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:12	1

Euofins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

**Client Sample ID: GILBANEPM061721-1282**

**Lab Sample ID: 320-75720-5**

Date Collected: 07/01/21 06:55

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	5.4		0.30	0.30	ug/m3			07/07/21 13:00	1

**Client Sample ID: GILBANETSP061721-1282**

**Lab Sample ID: 320-75720-6**

Date Collected: 07/01/21 06:55

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	8.5010		0.2972	0.2972	ug/m3 (Air)			07/07/21 13:00	1

**Client Sample ID: GILBANEPM061721-1283**

**Lab Sample ID: 320-75720-7**

Date Collected: 07/01/21 06:42

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00039	J	0.00071	0.00011	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:15	1
Copper	0.035	B	0.0014	0.00011	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:15	1
Manganese	0.0013	B	0.00071	0.000099	ug/m3 (Air)		07/12/21 07:00	07/12/21 15:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	5.8		0.29	0.29	ug/m3			07/07/21 13:00	1

**Client Sample ID: GILBANETSP061721-1283**

**Lab Sample ID: 320-75720-8**

Date Collected: 07/01/21 06:42

Matrix: Air

Date Received: 07/02/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	6.9192		0.3089	0.3089	ug/m3 (Air)			07/07/21 13:00	1

# QC Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-505719/1-B**  
**Matrix: Air**  
**Analysis Batch: 505973**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 505720**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/12/21 07:00	07/12/21 14:56	1
Copper	0.000191	J	0.0024	0.00018	ug/m3 (Air)		07/12/21 07:00	07/12/21 14:56	1
Manganese	0.000703	J	0.0012	0.00017	ug/m3 (Air)		07/12/21 07:00	07/12/21 14:56	1

**Lab Sample ID: LCS 320-505719/2-B**  
**Matrix: Air**  
**Analysis Batch: 505973**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 505720**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.251		ug/m3 (Air)		105	85 - 110
Manganese	0.240	0.237		ug/m3 (Air)		99	88 - 110

**Lab Sample ID: LCSD 320-505719/3-B**  
**Matrix: Air**  
**Analysis Batch: 505973**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 505720**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Lead	0.240	0.231		ug/m3 (Air)		96	86 - 111	6	15
Copper	0.240	0.247		ug/m3 (Air)		103	85 - 110	2	15
Manganese	0.240	0.226		ug/m3 (Air)		94	88 - 110	5	15

# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

## Metals

### Pre Prep Batch: 505719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75720-1	GILBANEPM061721-1280	Total/NA	Air	Filter to Air	
320-75720-3	GILBANEPM061721-1281	Total/NA	Air	Filter to Air	
320-75720-5	GILBANEPM061721-1282	Total/NA	Air	Filter to Air	
320-75720-7	GILBANEPM061721-1283	Total/NA	Air	Filter to Air	
MB 320-505719/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-505719/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-505719/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 505720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75720-1	GILBANEPM061721-1280	Total/NA	Air	3050B	505719
320-75720-3	GILBANEPM061721-1281	Total/NA	Air	3050B	505719
320-75720-5	GILBANEPM061721-1282	Total/NA	Air	3050B	505719
320-75720-7	GILBANEPM061721-1283	Total/NA	Air	3050B	505719
MB 320-505719/1-B	Method Blank	Total/NA	Air	3050B	505719
LCS 320-505719/2-B	Lab Control Sample	Total/NA	Air	3050B	505719
LCSD 320-505719/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	505719

### Analysis Batch: 505973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75720-1	GILBANEPM061721-1280	Total/NA	Air	6020	505720
320-75720-3	GILBANEPM061721-1281	Total/NA	Air	6020	505720
320-75720-5	GILBANEPM061721-1282	Total/NA	Air	6020	505720
320-75720-7	GILBANEPM061721-1283	Total/NA	Air	6020	505720
MB 320-505719/1-B	Method Blank	Total/NA	Air	6020	505720
LCS 320-505719/2-B	Lab Control Sample	Total/NA	Air	6020	505720
LCSD 320-505719/3-B	Lab Control Sample Dup	Total/NA	Air	6020	505720

## General Chemistry

### Pre Prep Batch: 504779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75720-2	GILBANETSP061721-1280	Total/NA	Air	Filter to Air	
320-75720-4	GILBANETSP061721-1281	Total/NA	Air	Filter to Air	
320-75720-6	GILBANETSP061721-1282	Total/NA	Air	Filter to Air	
320-75720-8	GILBANETSP061721-1283	Total/NA	Air	Filter to Air	

### Analysis Batch: 505853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75720-1	GILBANEPM061721-1280	Total/NA	Air	PM10	
320-75720-3	GILBANEPM061721-1281	Total/NA	Air	PM10	
320-75720-5	GILBANEPM061721-1282	Total/NA	Air	PM10	
320-75720-7	GILBANEPM061721-1283	Total/NA	Air	PM10	

### Analysis Batch: 505854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75720-2	GILBANETSP061721-1280	Total/NA	Air	40CFR50 App B	504779
320-75720-4	GILBANETSP061721-1281	Total/NA	Air	40CFR50 App B	504779
320-75720-6	GILBANETSP061721-1282	Total/NA	Air	40CFR50 App B	504779
320-75720-8	GILBANETSP061721-1283	Total/NA	Air	40CFR50 App B	504779

Eurofins TestAmerica, Sacramento

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

**Client Sample ID: GILBANEPM061721-1280**

**Lab Sample ID: 320-75720-1**

**Date Collected: 06/30/21 07:49**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					505719	07/12/21 06:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	505720	07/12/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			505973	07/12/21 14:59	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0319 g	505853	07/07/21 13:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP061721-1280**

**Lab Sample ID: 320-75720-2**

**Date Collected: 06/30/21 07:49**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			505854	07/07/21 13:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM061721-1281**

**Lab Sample ID: 320-75720-3**

**Date Collected: 06/30/21 07:25**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					505719	07/12/21 06:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	505720	07/12/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			505973	07/12/21 15:09	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0293 g	505853	07/07/21 13:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP061721-1281**

**Lab Sample ID: 320-75720-4**

**Date Collected: 06/30/21 07:25**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			505854	07/07/21 13:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM061721-1282**

**Lab Sample ID: 320-75720-5**

**Date Collected: 07/01/21 06:55**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					505719	07/12/21 06:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	505720	07/12/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			505973	07/12/21 15:12	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0090 g	505853	07/07/21 13:00	DPM	TAL SAC

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

**Client Sample ID: GILBANETSP061721-1282**

**Lab Sample ID: 320-75720-6**

**Date Collected: 07/01/21 06:55**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			505854	07/07/21 13:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

**Client Sample ID: GILBANEPM061721-1283**

**Lab Sample ID: 320-75720-7**

**Date Collected: 07/01/21 06:42**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					505719	07/12/21 06:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	505720	07/12/21 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			505973	07/12/21 15:15	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0099 g	505853	07/07/21 13:00	DPM	TAL SAC

**Client Sample ID: GILBANETSP061721-1283**

**Lab Sample ID: 320-75720-8**

**Date Collected: 07/01/21 06:42**

**Matrix: Air**

**Date Received: 07/02/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			505854	07/07/21 13:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					504779	07/07/21 13:29	DPM	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

## Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



# Method Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600





# Sample Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75720-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-75720-1	GILBANEPM061721-1280	Air	06/30/21 07:49	07/02/21 09:30	
320-75720-2	GILBANETSP061721-1280	Air	06/30/21 07:49	07/02/21 09:30	
320-75720-3	GILBANEPM061721-1281	Air	06/30/21 07:25	07/02/21 09:30	
320-75720-4	GILBANETSP061721-1281	Air	06/30/21 07:25	07/02/21 09:30	
320-75720-5	GILBANEPM061721-1282	Air	07/01/21 06:55	07/02/21 09:30	
320-75720-6	GILBANETSP061721-1282	Air	07/01/21 06:55	07/02/21 09:30	
320-75720-7	GILBANEPM061721-1283	Air	07/01/21 06:42	07/02/21 09:30	
320-75720-8	GILBANETSP061721-1283	Air	07/01/21 06:42	07/02/21 09:30	

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520  
bwomack@gilbaneco.com

**COC # KT070121AIR**



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Code	Matrix
					A	Air
Equipment:					Code	Container/Preservative
					1	1x 250-mL Plastic, 4 Degrees C
					1	1x Envelope, None



Page 15 of 16

Event: Parcel E Phase 2 Air Monitoring	1	1	1										
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	Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
																			Top
1	GILBANEPM061721-1280	A	06/30/2021	0749	KT	X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1774.36
2	GILBANETSP061721-1280	A	06/30/2021	0749	KT		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1774.89
3	GILBANEPM061721-1281	A	06/30/2021	0725	KT	X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1778.96
4	GILBANETSP061721-1281	A	06/30/2021	0725	KT		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1689.25
5	GILBANEPM061721-1282	A	07/01/2021	0655	KT	X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1673.94
6	GILBANETSP061721-1282	A	07/01/2021	0655	KT		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1682.15
7	GILBANEPM061721-1283	A	07/01/2021	0642	KT	X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1696.31
8	GILBANETSP061721-1283	A	07/01/2021	0642	KT		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1618.69
9																			
10																			

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]			[Redacted]			Shipping Date: 7/1/2021 / FedEx 7741 5561 9564
						Received by Laboratory: (Signature, Date, Time) & condition

7/13/2021



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-75720-1

**Login Number: 75720**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-75840-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

A [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	7
QC Association Summary . . . . .	8
Lab Chronicle . . . . .	9
Certification Summary . . . . .	10
Method Summary . . . . .	11
Sample Summary . . . . .	12
Chain of Custody . . . . .	13
Receipt Checklists . . . . .	14



# Definitions/Glossary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Case Narrative

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

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**Job ID: 320-75840-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative  
320-75840-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/7/2021 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.2° C.

**Metals**

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

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

# Detection Summary

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

## Client Sample ID: GILBANEPM061721-1284

## Lab Sample ID: 320-75840-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016	J	0.0039	0.00059	ug/m3 (Air)	1		6020	Total/NA
Copper	0.027		0.0079	0.00059	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0026	J	0.0039	0.00055	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.2		1.6	1.6	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1284

## Lab Sample ID: 320-75840-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	7.8529		1.6360	1.6360	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM061721-1285

## Lab Sample ID: 320-75840-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011	J	0.0039	0.00058	ug/m3 (Air)	1		6020	Total/NA
Copper	0.040		0.0077	0.00058	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0030	J	0.0039	0.00054	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.4		1.6	1.6	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1285

## Lab Sample ID: 320-75840-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	9.1560		1.6955	1.6955	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

## Client Sample ID: GILBANEPM061721-1284

## Lab Sample ID: 320-75840-1

Date Collected: 07/01/21 11:11

Matrix: Air

Date Received: 07/07/21 11:00

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016	J	0.0039	0.00059	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:39	1
Copper	0.027		0.0079	0.00059	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:39	1
Manganese	0.0026	J	0.0039	0.00055	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:39	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.2		1.6	1.6	ug/m3			07/11/21 10:30	1

## Client Sample ID: GILBANETSP061721-1284

## Lab Sample ID: 320-75840-2

Date Collected: 07/01/21 11:11

Matrix: Air

Date Received: 07/07/21 11:00

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	7.8529		1.6360	1.6360	ug/m3 (Air)			07/11/21 10:30	1

## Client Sample ID: GILBANEPM061721-1285

## Lab Sample ID: 320-75840-3

Date Collected: 07/01/21 11:01

Matrix: Air

Date Received: 07/07/21 11:00

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011	J	0.0039	0.00058	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:01	1
Copper	0.040		0.0077	0.00058	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:01	1
Manganese	0.0030	J	0.0039	0.00054	ug/m3 (Air)		07/13/21 08:00	07/14/21 11:04	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.4		1.6	1.6	ug/m3			07/11/21 10:30	1

## Client Sample ID: GILBANETSP061721-1285

## Lab Sample ID: 320-75840-4

Date Collected: 07/01/21 11:01

Matrix: Air

Date Received: 07/07/21 11:00

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	9.1560		1.6955	1.6955	ug/m3 (Air)			07/11/21 10:30	1

# QC Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-506039/1-B**  
**Matrix: Air**  
**Analysis Batch: 506447**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 506040**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:30	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:30	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:30	1

**Lab Sample ID: LCS 320-506039/2-B**  
**Matrix: Air**  
**Analysis Batch: 506447**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506040**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.216		ug/m3 (Air)		90	86 - 111
Copper	0.240	0.220		ug/m3 (Air)		92	85 - 110
Manganese	0.240	0.217		ug/m3 (Air)		90	88 - 110

**Lab Sample ID: LCSD 320-506039/3-B**  
**Matrix: Air**  
**Analysis Batch: 506447**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 506040**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.230		ug/m3 (Air)		96	86 - 111	6	15
Copper	0.240	0.233		ug/m3 (Air)		97	85 - 110	6	15
Manganese	0.240	0.236		ug/m3 (Air)		98	88 - 110	8	15

# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

## Metals

### Pre Prep Batch: 506039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75840-1	GILBANEPM061721-1284	Total/NA	Air	Filter to Air	
320-75840-3	GILBANEPM061721-1285	Total/NA	Air	Filter to Air	
MB 320-506039/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-506039/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-506039/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 506040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75840-1	GILBANEPM061721-1284	Total/NA	Air	3050B	506039
320-75840-3	GILBANEPM061721-1285	Total/NA	Air	3050B	506039
MB 320-506039/1-B	Method Blank	Total/NA	Air	3050B	506039
LCS 320-506039/2-B	Lab Control Sample	Total/NA	Air	3050B	506039
LCSD 320-506039/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	506039

### Analysis Batch: 506447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75840-1	GILBANEPM061721-1284	Total/NA	Air	6020	506040
320-75840-3	GILBANEPM061721-1285	Total/NA	Air	6020	506040
MB 320-506039/1-B	Method Blank	Total/NA	Air	6020	506040
LCS 320-506039/2-B	Lab Control Sample	Total/NA	Air	6020	506040
LCSD 320-506039/3-B	Lab Control Sample Dup	Total/NA	Air	6020	506040

### Analysis Batch: 506746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75840-3	GILBANEPM061721-1285	Total/NA	Air	6020	506040

## General Chemistry

### Pre Prep Batch: 505852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75840-2	GILBANETSP061721-1284	Total/NA	Air	Filter to Air	
320-75840-4	GILBANETSP061721-1285	Total/NA	Air	Filter to Air	

### Analysis Batch: 506224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75840-2	GILBANETSP061721-1284	Total/NA	Air	40CFR50 App B	505852
320-75840-4	GILBANETSP061721-1285	Total/NA	Air	40CFR50 App B	505852

### Analysis Batch: 506238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75840-1	GILBANEPM061721-1284	Total/NA	Air	PM10	
320-75840-3	GILBANEPM061721-1285	Total/NA	Air	PM10	

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

**Client Sample ID: GILBANEPM061721-1284**

**Lab Sample ID: 320-75840-1**

**Date Collected: 07/01/21 11:11**

**Matrix: Air**

**Date Received: 07/07/21 11:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506447	07/13/21 16:39	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0019 g	506238	07/11/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP061721-1284**

**Lab Sample ID: 320-75840-2**

**Date Collected: 07/01/21 11:11**

**Matrix: Air**

**Date Received: 07/07/21 11:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			506224	07/11/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					505852	07/12/21 13:12	DPM	TAL SAC

**Client Sample ID: GILBANEPM061721-1285**

**Lab Sample ID: 320-75840-3**

**Date Collected: 07/01/21 11:01**

**Matrix: Air**

**Date Received: 07/07/21 11:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506447	07/13/21 17:01	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506746	07/14/21 11:04	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0020 g	506238	07/11/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP061721-1285**

**Lab Sample ID: 320-75840-4**

**Date Collected: 07/01/21 11:01**

**Matrix: Air**

**Date Received: 07/07/21 11:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			506224	07/11/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					505852	07/12/21 13:12	DPM	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

## Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



# Method Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75840-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-75840-1	GILBANEPM061721-1284	Air	07/01/21 11:11	07/07/21 11:00	
320-75840-2	GILBANETSP061721-1284	Air	07/01/21 11:11	07/07/21 11:00	
320-75840-3	GILBANEPM061721-1285	Air	07/01/21 11:01	07/07/21 11:00	
320-75840-4	GILBANETSP061721-1285	Air	07/01/21 11:01	07/07/21 11:00	

- 1
- 2
- 3
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- 14

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520  
bwomack@gilbaneco.com

**COC # KT070621AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC [REDACTED]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	<b>Code</b> Matrix	A Air
			<b>Code</b> Container/Preservative	1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None
<b>Equipment:</b>				

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	GILBANEPM061721-1284	A	07/01/2021	1111	KT	X	X				AMSE1	N2	0.00 0.00	1	VOLUME: 304.34
2	GILBANETSP061721-1284	A	07/01/2021	1111	KT		X				AMSE1	N2	0.00 0.00	1	VOLUME: 305.62
3	GILBANEPM061721-1285	A	07/01/2021	1101	KT	X	X				AMSE2	N2	0.00 0.00	1	VOLUME: 310.31
4	GILBANETSP061721-1285	A	07/01/2021	1101	KT		X				AMSE2	N2	0.00 0.00	1	VOLUME: 294.89
5															
6															

Turnaround Time: 5 days



320-75840 Chain of Custody

<b>Relinquished by:</b> (Signature)	<b>Date</b>	<b>Time</b>	<b>Received by:</b> (Signature)	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Shipping Date: 7/6/2021/FedEx 7741 6868 9620
<b>Received by Laboratory:</b> (Signature, Date, Time) & condition						



Page 13 of 14

7/14/2021

19.2°C



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-75840-1

**Login Number: 75840**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-75995-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	8
QC Association Summary . . . . .	9
Lab Chronicle . . . . .	11
Certification Summary . . . . .	13
Method Summary . . . . .	14
Sample Summary . . . . .	15
Chain of Custody . . . . .	16
Receipt Checklists . . . . .	17

# Definitions/Glossary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Case Narrative

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

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**Job ID: 320-75995-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative  
320-75995-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/9/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.9° C.

**Metals**

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

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- 2
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- 5
- 6
- 7
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- 11
- 12
- 13
- 14

# Detection Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

## Client Sample ID: GILBANEPM061721-1286

## Lab Sample ID: 320-75995-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00073	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.018		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0022		0.00073	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.30	0.30	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1286

## Lab Sample ID: 320-75995-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.0438		0.3067	0.3067	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM061721-1287

## Lab Sample ID: 320-75995-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0010		0.00076	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.16		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0027		0.00076	0.00011	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.32	0.32	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP061721-1287

## Lab Sample ID: 320-75995-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	17.3885		0.3306	0.3306	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1288

## Lab Sample ID: 320-75995-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00069		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.026		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0018		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1288

## Lab Sample ID: 320-75995-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	28.0044		0.2875	0.2875	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1289

## Lab Sample ID: 320-75995-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00046	J	0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0024		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1289

## Lab Sample ID: 320-75995-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	28.6348		0.2995	0.2995	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

## Client Sample ID: GILBANEPM061721-1286

## Lab Sample ID: 320-75995-1

Date Collected: 07/07/21 07:00

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00073	0.00011	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:04	1
Copper	0.018		0.0015	0.00011	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:04	1
Manganese	0.0022		0.00073	0.00010	ug/m3 (Air)		07/13/21 08:00	07/14/21 11:07	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.30	0.30	ug/m3			07/11/21 10:30	1

## Client Sample ID: GILBANETSP061721-1286

## Lab Sample ID: 320-75995-2

Date Collected: 07/07/21 07:00

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.0438		0.3067	0.3067	ug/m3 (Air)			07/11/21 10:30	1

## Client Sample ID: GILBANEPM061721-1287

## Lab Sample ID: 320-75995-3

Date Collected: 07/07/21 06:47

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0010		0.00076	0.00011	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:07	1
Copper	0.16		0.0015	0.00011	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:07	1
Manganese	0.0027		0.00076	0.00011	ug/m3 (Air)		07/13/21 08:00	07/14/21 11:10	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.32	0.32	ug/m3			07/11/21 10:30	1

## Client Sample ID: GILBANETSP061721-1287

## Lab Sample ID: 320-75995-4

Date Collected: 07/07/21 06:47

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.3885		0.3306	0.3306	ug/m3 (Air)			07/11/21 10:30	1

## Client Sample ID: GILBANEPM062921-1288

## Lab Sample ID: 320-75995-5

Date Collected: 07/08/21 07:05

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

### Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00069		0.00069	0.00010	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:10	1
Copper	0.026		0.0014	0.00010	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:10	1
Manganese	0.0018		0.00069	0.000096	ug/m3 (Air)		07/13/21 08:00	07/14/21 11:13	1

Euofins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

**Client Sample ID: GILBANEPM062921-1288**

**Lab Sample ID: 320-75995-5**

Date Collected: 07/08/21 07:05

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.29	0.29	ug/m3			07/11/21 10:30	1

**Client Sample ID: GILBANETSP062921-1288**

**Lab Sample ID: 320-75995-6**

Date Collected: 07/08/21 07:05

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	28.0044		0.2875	0.2875	ug/m3 (Air)			07/11/21 10:30	1

**Client Sample ID: GILBANEPM062921-1289**

**Lab Sample ID: 320-75995-7**

Date Collected: 07/08/21 06:53

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00046	J	0.00068	0.00010	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:14	1
Copper	0.11		0.0014	0.00010	ug/m3 (Air)		07/13/21 08:00	07/13/21 17:14	1
Manganese	0.0024		0.00068	0.000096	ug/m3 (Air)		07/13/21 08:00	07/14/21 11:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.29	0.29	ug/m3			07/11/21 10:30	1

**Client Sample ID: GILBANETSP062921-1289**

**Lab Sample ID: 320-75995-8**

Date Collected: 07/08/21 06:53

Matrix: Air

Date Received: 07/09/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	28.6348		0.2995	0.2995	ug/m3 (Air)			07/11/21 10:30	1



# QC Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-506039/1-B**  
**Matrix: Air**  
**Analysis Batch: 506447**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 506040**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:30	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:30	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/13/21 08:00	07/13/21 16:30	1

**Lab Sample ID: LCS 320-506039/2-B**  
**Matrix: Air**  
**Analysis Batch: 506447**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506040**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.216		ug/m3 (Air)		90	86 - 111
Copper	0.240	0.220		ug/m3 (Air)		92	85 - 110
Manganese	0.240	0.217		ug/m3 (Air)		90	88 - 110

**Lab Sample ID: LCSD 320-506039/3-B**  
**Matrix: Air**  
**Analysis Batch: 506447**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 506040**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.230		ug/m3 (Air)		96	86 - 111	6	15
Copper	0.240	0.233		ug/m3 (Air)		97	85 - 110	6	15
Manganese	0.240	0.236		ug/m3 (Air)		98	88 - 110	8	15

# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

## Metals

### Pre Prep Batch: 506039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75995-1	GILBANEPM061721-1286	Total/NA	Air	Filter to Air	
320-75995-3	GILBANEPM061721-1287	Total/NA	Air	Filter to Air	
320-75995-5	GILBANEPM062921-1288	Total/NA	Air	Filter to Air	
320-75995-7	GILBANEPM062921-1289	Total/NA	Air	Filter to Air	
MB 320-506039/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-506039/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-506039/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 506040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75995-1	GILBANEPM061721-1286	Total/NA	Air	3050B	506039
320-75995-3	GILBANEPM061721-1287	Total/NA	Air	3050B	506039
320-75995-5	GILBANEPM062921-1288	Total/NA	Air	3050B	506039
320-75995-7	GILBANEPM062921-1289	Total/NA	Air	3050B	506039
MB 320-506039/1-B	Method Blank	Total/NA	Air	3050B	506039
LCS 320-506039/2-B	Lab Control Sample	Total/NA	Air	3050B	506039
LCSD 320-506039/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	506039

### Analysis Batch: 506447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75995-1	GILBANEPM061721-1286	Total/NA	Air	6020	506040
320-75995-3	GILBANEPM061721-1287	Total/NA	Air	6020	506040
320-75995-5	GILBANEPM062921-1288	Total/NA	Air	6020	506040
320-75995-7	GILBANEPM062921-1289	Total/NA	Air	6020	506040
MB 320-506039/1-B	Method Blank	Total/NA	Air	6020	506040
LCS 320-506039/2-B	Lab Control Sample	Total/NA	Air	6020	506040
LCSD 320-506039/3-B	Lab Control Sample Dup	Total/NA	Air	6020	506040

### Analysis Batch: 506746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75995-1	GILBANEPM061721-1286	Total/NA	Air	6020	506040
320-75995-3	GILBANEPM061721-1287	Total/NA	Air	6020	506040
320-75995-5	GILBANEPM062921-1288	Total/NA	Air	6020	506040
320-75995-7	GILBANEPM062921-1289	Total/NA	Air	6020	506040

## General Chemistry

### Pre Prep Batch: 505852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75995-2	GILBANETSP061721-1286	Total/NA	Air	Filter to Air	
320-75995-4	GILBANETSP061721-1287	Total/NA	Air	Filter to Air	
320-75995-6	GILBANETSP062921-1288	Total/NA	Air	Filter to Air	
320-75995-8	GILBANETSP062921-1289	Total/NA	Air	Filter to Air	

### Analysis Batch: 506224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75995-2	GILBANETSP061721-1286	Total/NA	Air	40CFR50 App B	505852
320-75995-4	GILBANETSP061721-1287	Total/NA	Air	40CFR50 App B	505852
320-75995-6	GILBANETSP062921-1288	Total/NA	Air	40CFR50 App B	505852
320-75995-8	GILBANETSP062921-1289	Total/NA	Air	40CFR50 App B	505852

Eurofins TestAmerica, Sacramento

# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

## General Chemistry

### Analysis Batch: 506238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-75995-1	GILBANEPM061721-1286	Total/NA	Air	PM10	
320-75995-3	GILBANEPM061721-1287	Total/NA	Air	PM10	
320-75995-5	GILBANEPM062921-1288	Total/NA	Air	PM10	
320-75995-7	GILBANEPM062921-1289	Total/NA	Air	PM10	

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# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

**Client Sample ID: GILBANEPM061721-1286**

**Lab Sample ID: 320-75995-1**

**Date Collected: 07/07/21 07:00**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506447	07/13/21 17:04	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506746	07/14/21 11:07	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0178 g	506238	07/11/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP061721-1286**

**Lab Sample ID: 320-75995-2**

**Date Collected: 07/07/21 07:00**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			506224	07/11/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					505852	07/12/21 13:12	DPM	TAL SAC

**Client Sample ID: GILBANEPM061721-1287**

**Lab Sample ID: 320-75995-3**

**Date Collected: 07/07/21 06:47**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506447	07/13/21 17:07	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506746	07/14/21 11:10	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0229 g	506238	07/11/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP061721-1287**

**Lab Sample ID: 320-75995-4**

**Date Collected: 07/07/21 06:47**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			506224	07/11/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					505852	07/12/21 13:12	DPM	TAL SAC

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

**Client Sample ID: GILBANEPM062921-1288**

**Lab Sample ID: 320-75995-5**

**Date Collected: 07/08/21 07:05**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506447	07/13/21 17:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506746	07/14/21 11:13	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0353 g	506238	07/11/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1288**

**Lab Sample ID: 320-75995-6**

**Date Collected: 07/08/21 07:05**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			506224	07/11/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					505852	07/12/21 13:12	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1289**

**Lab Sample ID: 320-75995-7**

**Date Collected: 07/08/21 06:53**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506447	07/13/21 17:14	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					506039	07/13/21 07:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	506040	07/13/21 08:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			506746	07/14/21 11:16	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0378 g	506238	07/11/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1289**

**Lab Sample ID: 320-75995-8**

**Date Collected: 07/08/21 06:53**

**Matrix: Air**

**Date Received: 07/09/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			506224	07/11/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					505852	07/12/21 13:12	DPM	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

## Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



# Method Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-75995-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-75995-1	GILBANEPM061721-1286	Air	07/07/21 07:00	07/09/21 09:45	
320-75995-2	GILBANETSP061721-1286	Air	07/07/21 07:00	07/09/21 09:45	
320-75995-3	GILBANEPM061721-1287	Air	07/07/21 06:47	07/09/21 09:45	
320-75995-4	GILBANETSP061721-1287	Air	07/07/21 06:47	07/09/21 09:45	
320-75995-5	GILBANEPM062921-1288	Air	07/08/21 07:05	07/09/21 09:45	
320-75995-6	GILBANETSP062921-1288	Air	07/08/21 07:05	07/09/21 09:45	
320-75995-7	GILBANEPM062921-1289	Air	07/08/21 06:53	07/09/21 09:45	
320-75995-8	GILBANETSP062921-1289	Air	07/08/21 06:53	07/09/21 09:45	



**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
1655 Grant Street, Suite 1200, Concord, CA 94520  
bwomack@gilbaneco.com

**COC # KT070821AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC [REDACTED]	
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>  None	<b>Analytical Test Method</b>	Code	Matrix
		A	Air
<b>Equipment:</b>	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	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.							Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GILBANEPM061721-1286	A	07/07/2021	0700	KT	X	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1643.13
2	GILBANETSP061721-1286	A	07/07/2021	0700	KT		X				AMSE1	N1	0.00 0.00	1	VOLUME: 1630.36
3	GILBANEPM061721-1287	A	07/07/2021	0647	KT	X	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1578.70
4	GILBANETSP061721-1287	A	07/07/2021	0647	KT		X				AMSE2	N1	0.00 0.00	1	VOLUME: 1512.49
5	GILBANEPM062921-1288	A	07/08/2021	0705	KT	X	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1744.60
6	GILBANETSP062921-1288	A	07/08/2021	0705	KT		X				AMSE1	N1	0.00 0.00	1	VOLUME: 1739.01
7	GILBANEPM062921-1289	A	07/08/2021	0653	KT	X	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1752.27
8	GILBANETSP062921-1289	A	07/08/2021	0653	KT		X				AMSE2	N1	0.00 0.00	1	VOLUME: 1669.30
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>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Shipping Date: 7/8/2021/FedEx 7742 0775 3600 M 7-9-21 09:45
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>



Page 16 of 17

7/16/2021

18.92

# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-75995-1

**Login Number: 75995**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-76173-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	7
QC Sample Results . . . . .	10
QC Association Summary . . . . .	11
Lab Chronicle . . . . .	13
Certification Summary . . . . .	16
Method Summary . . . . .	17
Sample Summary . . . . .	18
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	21

# Definitions/Glossary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Case Narrative

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

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**Job ID: 320-76173-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative**  
**320-76173-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/14/2021 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.1° C.

**Metals**

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

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

# Detection Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

## Client Sample ID: GILBANEPM062921-1290

## Lab Sample ID: 320-76173-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0059		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.33		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	38		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1290

## Lab Sample ID: 320-76173-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	50.4835		0.2878	0.2878	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1291

## Lab Sample ID: 320-76173-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.075		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0035		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1291

## Lab Sample ID: 320-76173-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.6910		0.3041	0.3041	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1292

## Lab Sample ID: 320-76173-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0083		0.0022	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.18		0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.021		0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	48		0.90	0.90	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1292

## Lab Sample ID: 320-76173-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	69.3781		0.9010	0.9010	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1293

## Lab Sample ID: 320-76173-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0038		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.036		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0093		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	30		0.93	0.93	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1293

## Lab Sample ID: 320-76173-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	48.0548		0.9573	0.9573	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1294

## Lab Sample ID: 320-76173-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00070		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.099		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0020		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Detection Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

## Client Sample ID: GILBANEPM062921-1294 (Continued)

Lab Sample ID: 320-76173-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	12		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1294

Lab Sample ID: 320-76173-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	15.7472		0.2895	0.2895	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1295

Lab Sample ID: 320-76173-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00055	J	0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	12		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1295

Lab Sample ID: 320-76173-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	15.1755		0.3023	0.3023	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

**Client Sample ID: GILBANEPM062921-1290**

**Lab Sample ID: 320-76173-1**

Date Collected: 07/09/21 06:58

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0059		0.00069	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:28	1
Copper	0.33		0.0014	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:28	1
Manganese	0.012		0.00069	0.000097	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	38		0.29	0.29	ug/m3			07/15/21 15:45	1

**Client Sample ID: GILBANETSP062921-1290**

**Lab Sample ID: 320-76173-2**

Date Collected: 07/09/21 06:58

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	50.4835		0.2878	0.2878	ug/m3 (Air)			07/15/21 15:45	1

**Client Sample ID: GILBANEPM062921-1291**

**Lab Sample ID: 320-76173-3**

Date Collected: 07/09/21 06:46

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.00067	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:38	1
Copper	0.075		0.0013	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:38	1
Manganese	0.0035		0.00067	0.000094	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	27		0.28	0.28	ug/m3			07/15/21 15:45	1

**Client Sample ID: GILBANETSP062921-1291**

**Lab Sample ID: 320-76173-4**

Date Collected: 07/09/21 06:46

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.6910		0.3041	0.3041	ug/m3 (Air)			07/15/21 15:45	1

**Client Sample ID: GILBANEPM062921-1292**

**Lab Sample ID: 320-76173-5**

Date Collected: 07/09/21 14:37

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0083		0.0022	0.00032	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:41	1
Copper	0.18		0.0043	0.00032	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:41	1
Manganese	0.021		0.0022	0.00030	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:41	1

Euofins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

**Client Sample ID: GILBANEPM062921-1292**

**Lab Sample ID: 320-76173-5**

Date Collected: 07/09/21 14:37

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	48		0.90	0.90	ug/m3			07/15/21 15:45	1

**Client Sample ID: GILBANETSP062921-1292**

**Lab Sample ID: 320-76173-6**

Date Collected: 07/09/21 14:37

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	69.3781		0.9010	0.9010	ug/m3 (Air)			07/15/21 15:45	1

**Client Sample ID: GILBANEPM062921-1293**

**Lab Sample ID: 320-76173-7**

Date Collected: 07/09/21 14:19

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0038		0.0022	0.00033	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:44	1
Copper	0.036		0.0044	0.00033	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:44	1
Manganese	0.0093		0.0022	0.00031	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	30		0.93	0.93	ug/m3			07/15/21 15:45	1

**Client Sample ID: GILBANETSP062921-1293**

**Lab Sample ID: 320-76173-8**

Date Collected: 07/09/21 14:19

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.0548		0.9573	0.9573	ug/m3 (Air)			07/15/21 15:45	1

**Client Sample ID: GILBANEPM062921-1294**

**Lab Sample ID: 320-76173-9**

Date Collected: 07/13/21 07:23

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00070		0.00070	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:48	1
Copper	0.099		0.0014	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:48	1
Manganese	0.0020		0.00070	0.000098	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.29	0.29	ug/m3			07/15/21 15:45	1

Eurolins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

Client Sample ID: GILBANETSP062921-1294

Lab Sample ID: 320-76173-10

Date Collected: 07/13/21 07:23

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.7472		0.2895	0.2895	ug/m3 (Air)			07/15/21 15:45	1

Client Sample ID: GILBANEPM062921-1295

Lab Sample ID: 320-76173-11

Date Collected: 07/13/21 07:11

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

## Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00055	J	0.00069	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:51	1
Copper	0.13		0.0014	0.00010	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:51	1
Manganese	0.0025		0.00069	0.000097	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:51	1

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.29	0.29	ug/m3			07/15/21 15:45	1

Client Sample ID: GILBANETSP062921-1295

Lab Sample ID: 320-76173-12

Date Collected: 07/13/21 07:11

Matrix: Air

Date Received: 07/14/21 09:45

Sample Container: Folder/Filter

## General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.1755		0.3023	0.3023	ug/m3 (Air)			07/15/21 15:45	1

# QC Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-507937/1-B**  
**Matrix: Air**  
**Analysis Batch: 508299**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 507980**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:06	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:06	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/19/21 10:03	07/19/21 18:06	1

**Lab Sample ID: LCS 320-507937/2-B**  
**Matrix: Air**  
**Analysis Batch: 508299**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 507980**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.225		ug/m3 (Air)		94	86 - 111
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

**Lab Sample ID: LCSD 320-507937/3-B**  
**Matrix: Air**  
**Analysis Batch: 508299**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 507980**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.221		ug/m3 (Air)		92	86 - 111	2	15
Copper	0.240	0.249		ug/m3 (Air)		104	85 - 110	2	15
Manganese	0.240	0.248		ug/m3 (Air)		103	88 - 110	3	15

# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

## Metals

### Pre Prep Batch: 507937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76173-1	GILBANEPM062921-1290	Total/NA	Air	Filter to Air	
320-76173-3	GILBANEPM062921-1291	Total/NA	Air	Filter to Air	
320-76173-5	GILBANEPM062921-1292	Total/NA	Air	Filter to Air	
320-76173-7	GILBANEPM062921-1293	Total/NA	Air	Filter to Air	
320-76173-9	GILBANEPM062921-1294	Total/NA	Air	Filter to Air	
320-76173-11	GILBANEPM062921-1295	Total/NA	Air	Filter to Air	
MB 320-507937/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-507937/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-507937/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 507980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76173-1	GILBANEPM062921-1290	Total/NA	Air	3050B	507937
320-76173-3	GILBANEPM062921-1291	Total/NA	Air	3050B	507937
320-76173-5	GILBANEPM062921-1292	Total/NA	Air	3050B	507937
320-76173-7	GILBANEPM062921-1293	Total/NA	Air	3050B	507937
320-76173-9	GILBANEPM062921-1294	Total/NA	Air	3050B	507937
320-76173-11	GILBANEPM062921-1295	Total/NA	Air	3050B	507937
MB 320-507937/1-B	Method Blank	Total/NA	Air	3050B	507937
LCS 320-507937/2-B	Lab Control Sample	Total/NA	Air	3050B	507937
LCSD 320-507937/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	507937

### Analysis Batch: 508299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76173-1	GILBANEPM062921-1290	Total/NA	Air	6020	507980
320-76173-3	GILBANEPM062921-1291	Total/NA	Air	6020	507980
320-76173-5	GILBANEPM062921-1292	Total/NA	Air	6020	507980
320-76173-7	GILBANEPM062921-1293	Total/NA	Air	6020	507980
320-76173-9	GILBANEPM062921-1294	Total/NA	Air	6020	507980
320-76173-11	GILBANEPM062921-1295	Total/NA	Air	6020	507980
MB 320-507937/1-B	Method Blank	Total/NA	Air	6020	507980
LCS 320-507937/2-B	Lab Control Sample	Total/NA	Air	6020	507980
LCSD 320-507937/3-B	Lab Control Sample Dup	Total/NA	Air	6020	507980

## General Chemistry

### Pre Prep Batch: 508018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76173-2	GILBANETSP062921-1290	Total/NA	Air	Filter to Air	
320-76173-4	GILBANETSP062921-1291	Total/NA	Air	Filter to Air	
320-76173-6	GILBANETSP062921-1292	Total/NA	Air	Filter to Air	
320-76173-8	GILBANETSP062921-1293	Total/NA	Air	Filter to Air	
320-76173-10	GILBANETSP062921-1294	Total/NA	Air	Filter to Air	
320-76173-12	GILBANETSP062921-1295	Total/NA	Air	Filter to Air	

### Analysis Batch: 508021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76173-1	GILBANEPM062921-1290	Total/NA	Air	PM10	
320-76173-3	GILBANEPM062921-1291	Total/NA	Air	PM10	
320-76173-5	GILBANEPM062921-1292	Total/NA	Air	PM10	
320-76173-7	GILBANEPM062921-1293	Total/NA	Air	PM10	

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# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

## General Chemistry (Continued)

### Analysis Batch: 508021 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76173-9	GILBANEPM062921-1294	Total/NA	Air	PM10	
320-76173-11	GILBANEPM062921-1295	Total/NA	Air	PM10	

### Analysis Batch: 508059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76173-2	GILBANETSP062921-1290	Total/NA	Air	40CFR50 App B	508018
320-76173-4	GILBANETSP062921-1291	Total/NA	Air	40CFR50 App B	508018
320-76173-6	GILBANETSP062921-1292	Total/NA	Air	40CFR50 App B	508018
320-76173-8	GILBANETSP062921-1293	Total/NA	Air	40CFR50 App B	508018
320-76173-10	GILBANETSP062921-1294	Total/NA	Air	40CFR50 App B	508018
320-76173-12	GILBANETSP062921-1295	Total/NA	Air	40CFR50 App B	508018

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

**Client Sample ID: GILBANEPM062921-1290**

**Lab Sample ID: 320-76173-1**

**Date Collected: 07/09/21 06:58**

**Matrix: Air**

**Date Received: 07/14/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					507937	07/19/21 09:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	507980	07/19/21 10:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			508299	07/19/21 18:28	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0664 g	508021	07/15/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1290**

**Lab Sample ID: 320-76173-2**

**Date Collected: 07/09/21 06:58**

**Matrix: Air**

**Date Received: 07/14/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			508059	07/15/21 15:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1291**

**Lab Sample ID: 320-76173-3**

**Date Collected: 07/09/21 06:46**

**Matrix: Air**

**Date Received: 07/14/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					507937	07/19/21 09:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	507980	07/19/21 10:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			508299	07/19/21 18:38	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0484 g	508021	07/15/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1291**

**Lab Sample ID: 320-76173-4**

**Date Collected: 07/09/21 06:46**

**Matrix: Air**

**Date Received: 07/14/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			508059	07/15/21 15:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1292**

**Lab Sample ID: 320-76173-5**

**Date Collected: 07/09/21 14:37**

**Matrix: Air**

**Date Received: 07/14/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					507937	07/19/21 09:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	507980	07/19/21 10:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			508299	07/19/21 18:41	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0266 g	508021	07/15/21 15:45	DPM	TAL SAC

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

**Client Sample ID: GILBANETSP062921-1292**

**Lab Sample ID: 320-76173-6**

Date Collected: 07/09/21 14:37

Matrix: Air

Date Received: 07/14/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			508059	07/15/21 15:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1293**

**Lab Sample ID: 320-76173-7**

Date Collected: 07/09/21 14:19

Matrix: Air

Date Received: 07/14/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					507937	07/19/21 09:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	507980	07/19/21 10:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			508299	07/19/21 18:44	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0161 g	508021	07/15/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1293**

**Lab Sample ID: 320-76173-8**

Date Collected: 07/09/21 14:19

Matrix: Air

Date Received: 07/14/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			508059	07/15/21 15:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1294**

**Lab Sample ID: 320-76173-9**

Date Collected: 07/13/21 07:23

Matrix: Air

Date Received: 07/14/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					507937	07/19/21 09:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	507980	07/19/21 10:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			508299	07/19/21 18:48	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0204 g	508021	07/15/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1294**

**Lab Sample ID: 320-76173-10**

Date Collected: 07/13/21 07:23

Matrix: Air

Date Received: 07/14/21 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			508059	07/15/21 15:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC



# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

**Client Sample ID: GILBANEPM062921-1295**

**Lab Sample ID: 320-76173-11**

**Date Collected: 07/13/21 07:11**

**Matrix: Air**

**Date Received: 07/14/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					507937	07/19/21 09:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	507980	07/19/21 10:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			508299	07/19/21 18:51	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0213 g	508021	07/15/21 15:45	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1295**

**Lab Sample ID: 320-76173-12**

**Date Collected: 07/13/21 07:11**

**Matrix: Air**

**Date Received: 07/14/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			508059	07/15/21 15:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Accreditation/Certification Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

## Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



# Method Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

**Protocol References:**

- 40CFR50J = 40 CFR Part 50 Appendix J
- EPA = US Environmental Protection Agency
- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

- TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76173-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-76173-1	GILBANEPM062921-1290	Air	07/09/21 06:58	07/14/21 09:45	
320-76173-2	GILBANETSP062921-1290	Air	07/09/21 06:58	07/14/21 09:45	
320-76173-3	GILBANEPM062921-1291	Air	07/09/21 06:46	07/14/21 09:45	
320-76173-4	GILBANETSP062921-1291	Air	07/09/21 06:46	07/14/21 09:45	
320-76173-5	GILBANEPM062921-1292	Air	07/09/21 14:37	07/14/21 09:45	
320-76173-6	GILBANETSP062921-1292	Air	07/09/21 14:37	07/14/21 09:45	
320-76173-7	GILBANEPM062921-1293	Air	07/09/21 14:19	07/14/21 09:45	
320-76173-8	GILBANETSP062921-1293	Air	07/09/21 14:19	07/14/21 09:45	
320-76173-9	GILBANEPM062921-1294	Air	07/13/21 07:23	07/14/21 09:45	
320-76173-10	GILBANETSP062921-1294	Air	07/13/21 07:23	07/14/21 09:45	
320-76173-11	GILBANEPM062921-1295	Air	07/13/21 07:11	07/14/21 09:45	
320-76173-12	GILBANETSP062921-1295	Air	07/13/21 07:11	07/14/21 09:45	


**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

**COC # KT071321AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC [REDACTED]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	<b>Code</b> Matrix	A Air
			<b>Code</b> Container/Preservative	1 1x 250-mL Plastic, 4 Degrees C 1 1x Envelope, None
<b>Equipment:</b>	 320-76173 Chain of Custody			

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	GILBANEPM062921-1290	A	07/09/2021	0658	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1732.86
2	GILBANETSP062921-1290	A	07/09/2021	0658	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1737.20
3	GILBANEPM062921-1291	A	07/09/2021	0646	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1780.86
4	GILBANETSP062921-1291	A	07/09/2021	0646	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1664.10
5	GILBANEPM062921-1292	A	07/09/2021	1437	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 554.45
6	GILBANETSP062921-1292	A	07/09/2021	1437	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 554.93
7	GILBANEPM062921-1293	A	07/09/2021	1419	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 553.59
8	GILBANETSP062921-1293	A	07/09/2021	1419	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 522.32
9	GILBANEPM062921-1294	A	07/13/2021	0723	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1719.82
10	GILBANETSP062921-1294	A	07/13/2021	0723	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1727.29
11	GILBANEPM062921-1295	A	07/13/2021	0711	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1738.06

<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>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Shipping Date: 7/13/2021/FedEx 7742 3770 3150
<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>						20.1°C

Page 19 of 21

7/20/2021



# CHAIN-OF-CUSTODY RECORD

Gilbane Federal  
 1655 Grant Street, Suite 1200, Concord, CA 94520  
 bwomack@gilbaneco.com

COC # KT071321AIR



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC: [Redacted]	
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>  <b>Equipment:</b>	<b>Analytical Test Method</b> CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Code</td><td>Matrix</td></tr> <tr><td>A</td><td>Air</td></tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Code</td><td>Container/Preservative</td></tr> <tr><td>1</td><td>1x 250-mL Plastic, 4 Degrees C</td></tr> <tr><td>1</td><td>1x Envelope, None</td></tr> </table>	Code	Matrix	A	Air	Code	Container/Preservative	1	1x 250-mL Plastic, 4 Degrees C	1	1x Envelope, None	
Code	Matrix												
A	Air												
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	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
								Top	Bottom		
GILBANETSP062921-1295	A	07/13/2021	0711	KT	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1653.98

Turnaround Time: 5 days

<b>Relinquished by:</b> (Signature)	Date	Time	<b>Received by:</b> (Signature)	Date	Time	<b>Shipping Date / Carrier / Airbill Number</b>
<div style="background-color: black; width: 100%; height: 100%;"></div>						Shipping Date: 7/13/2021/FedEx 7742 3770 3150
						<b>Received by Laboratory:</b> (Signature, Date, Time) & condition
						07/13/21 20.1 °C



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-76173-1

**Login Number: 76173**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-76327-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	8
QC Association Summary . . . . .	9
Lab Chronicle . . . . .	10
Certification Summary . . . . .	12
Method Summary . . . . .	13
Sample Summary . . . . .	14
Chain of Custody . . . . .	15
Receipt Checklists . . . . .	16



# Definitions/Glossary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Case Narrative

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

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**Job ID: 320-76327-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

## Narrative

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**Job Narrative**  
**320-76327-1**

## Comments

No additional comments.

## Receipt

The samples were received on 7/16/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.9° C.

## Metals

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

- 1
- 2
- 3
- 4
- 5
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- 11
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- 13
- 14

# Detection Summary

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

## Client Sample ID: GILBANEPM062921-1296

## Lab Sample ID: 320-76327-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00058	J	0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.031		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0021		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	10		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1296

## Lab Sample ID: 320-76327-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.3308		0.2880	0.2880	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1297

## Lab Sample ID: 320-76327-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00049	J	0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.064		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0022		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.8		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1297

## Lab Sample ID: 320-76327-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	18.4526		0.3065	0.3065	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1298

## Lab Sample ID: 320-76327-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012		0.00065	0.000098	ug/m3 (Air)	1		6020	Total/NA
Copper	0.034		0.0013	0.000098	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0037		0.00065	0.000091	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.7		0.27	0.27	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1298

## Lab Sample ID: 320-76327-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	19.9230		0.2671	0.2671	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1299

## Lab Sample ID: 320-76327-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.0017	0.00025	ug/m3 (Air)	1		6020	Total/NA
Copper	0.18		0.0033	0.00025	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0051		0.0017	0.00023	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.4		0.69	0.69	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1299

## Lab Sample ID: 320-76327-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	22.2180		0.7309	0.7309	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

**Client Sample ID: GILBANEPM062921-1296**

**Lab Sample ID: 320-76327-1**

Date Collected: 07/14/21 06:56

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00058	J	0.00069	0.00010	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:28	1
Copper	0.031		0.0014	0.00010	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:28	1
Manganese	0.0021		0.00069	0.000097	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	10		0.29	0.29	ug/m3			07/19/21 10:30	1

**Client Sample ID: GILBANETSP062921-1296**

**Lab Sample ID: 320-76327-2**

Date Collected: 07/14/21 06:56

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.3308		0.2880	0.2880	ug/m3 (Air)			07/19/21 10:30	1

**Client Sample ID: GILBANEPM062921-1297**

**Lab Sample ID: 320-76327-3**

Date Collected: 07/14/21 06:45

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00049	J	0.00070	0.00010	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:38	1
Copper	0.064		0.0014	0.00010	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:38	1
Manganese	0.0022		0.00070	0.000098	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.8		0.29	0.29	ug/m3			07/19/21 10:30	1

**Client Sample ID: GILBANETSP062921-1297**

**Lab Sample ID: 320-76327-4**

Date Collected: 07/14/21 06:45

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.4526		0.3065	0.3065	ug/m3 (Air)			07/19/21 10:30	1

**Client Sample ID: GILBANEPM062921-1298**

**Lab Sample ID: 320-76327-5**

Date Collected: 07/15/21 07:58

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012		0.00065	0.000098	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:41	1
Copper	0.034		0.0013	0.000098	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:41	1
Manganese	0.0037		0.00065	0.000091	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:41	1

Euofins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

**Client Sample ID: GILBANEPM062921-1298**

**Lab Sample ID: 320-76327-5**

Date Collected: 07/15/21 07:58

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.7		0.27	0.27	ug/m3			07/19/21 10:30	1

**Client Sample ID: GILBANETSP062921-1298**

**Lab Sample ID: 320-76327-6**

Date Collected: 07/15/21 07:58

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	19.9230		0.2671	0.2671	ug/m3 (Air)			07/19/21 10:30	1

**Client Sample ID: GILBANEPM062921-1299**

**Lab Sample ID: 320-76327-7**

Date Collected: 07/15/21 07:40

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.0017	0.00025	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:44	1
Copper	0.18		0.0033	0.00025	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:44	1
Manganese	0.0051		0.0017	0.00023	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.4		0.69	0.69	ug/m3			07/19/21 10:30	1

**Client Sample ID: GILBANETSP062921-1299**

**Lab Sample ID: 320-76327-8**

Date Collected: 07/15/21 07:40

Matrix: Air

Date Received: 07/16/21 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.2180		0.7309	0.7309	ug/m3 (Air)			07/19/21 10:30	1

# QC Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-509195/1-B**  
**Matrix: Air**  
**Analysis Batch: 509543**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 509219**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:02	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:02	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/22/21 10:00	07/22/21 17:02	1

**Lab Sample ID: LCS 320-509195/2-B**  
**Matrix: Air**  
**Analysis Batch: 509543**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 509219**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.237		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110

**Lab Sample ID: LCSD 320-509195/3-B**  
**Matrix: Air**  
**Analysis Batch: 509543**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 509219**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.225		ug/m3 (Air)		94	86 - 111	5	15
Copper	0.240	0.237		ug/m3 (Air)		99	85 - 110	1	15
Manganese	0.240	0.234		ug/m3 (Air)		97	88 - 110	2	15

# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

## Metals

### Pre Prep Batch: 509195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76327-1	GILBANEPM062921-1296	Total/NA	Air	Filter to Air	
320-76327-3	GILBANEPM062921-1297	Total/NA	Air	Filter to Air	
320-76327-5	GILBANEPM062921-1298	Total/NA	Air	Filter to Air	
320-76327-7	GILBANEPM062921-1299	Total/NA	Air	Filter to Air	
MB 320-509195/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-509195/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-509195/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 509219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76327-1	GILBANEPM062921-1296	Total/NA	Air	3050B	509195
320-76327-3	GILBANEPM062921-1297	Total/NA	Air	3050B	509195
320-76327-5	GILBANEPM062921-1298	Total/NA	Air	3050B	509195
320-76327-7	GILBANEPM062921-1299	Total/NA	Air	3050B	509195
MB 320-509195/1-B	Method Blank	Total/NA	Air	3050B	509195
LCS 320-509195/2-B	Lab Control Sample	Total/NA	Air	3050B	509195
LCSD 320-509195/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	509195

### Analysis Batch: 509543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76327-1	GILBANEPM062921-1296	Total/NA	Air	6020	509219
320-76327-3	GILBANEPM062921-1297	Total/NA	Air	6020	509219
320-76327-5	GILBANEPM062921-1298	Total/NA	Air	6020	509219
320-76327-7	GILBANEPM062921-1299	Total/NA	Air	6020	509219
MB 320-509195/1-B	Method Blank	Total/NA	Air	6020	509219
LCS 320-509195/2-B	Lab Control Sample	Total/NA	Air	6020	509219
LCSD 320-509195/3-B	Lab Control Sample Dup	Total/NA	Air	6020	509219

## General Chemistry

### Pre Prep Batch: 508018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76327-2	GILBANETSP062921-1296	Total/NA	Air	Filter to Air	
320-76327-4	GILBANETSP062921-1297	Total/NA	Air	Filter to Air	
320-76327-6	GILBANETSP062921-1298	Total/NA	Air	Filter to Air	
320-76327-8	GILBANETSP062921-1299	Total/NA	Air	Filter to Air	

### Analysis Batch: 509458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76327-2	GILBANETSP062921-1296	Total/NA	Air	40CFR50 App B	508018
320-76327-4	GILBANETSP062921-1297	Total/NA	Air	40CFR50 App B	508018
320-76327-6	GILBANETSP062921-1298	Total/NA	Air	40CFR50 App B	508018
320-76327-8	GILBANETSP062921-1299	Total/NA	Air	40CFR50 App B	508018

### Analysis Batch: 509459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76327-1	GILBANEPM062921-1296	Total/NA	Air	PM10	
320-76327-3	GILBANEPM062921-1297	Total/NA	Air	PM10	
320-76327-5	GILBANEPM062921-1298	Total/NA	Air	PM10	
320-76327-7	GILBANEPM062921-1299	Total/NA	Air	PM10	



# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

**Client Sample ID: GILBANEPM062921-1296**

**Lab Sample ID: 320-76327-1**

**Date Collected: 07/14/21 06:56**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					509195	07/22/21 09:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	509219	07/22/21 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			509543	07/22/21 17:28	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0174 g	509459	07/19/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1296**

**Lab Sample ID: 320-76327-2**

**Date Collected: 07/14/21 06:56**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			509458	07/19/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1297**

**Lab Sample ID: 320-76327-3**

**Date Collected: 07/14/21 06:45**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					509195	07/22/21 09:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	509219	07/22/21 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			509543	07/22/21 17:38	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0168 g	509459	07/19/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1297**

**Lab Sample ID: 320-76327-4**

**Date Collected: 07/14/21 06:45**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			509458	07/19/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1298**

**Lab Sample ID: 320-76327-5**

**Date Collected: 07/15/21 07:58**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					509195	07/22/21 09:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	509219	07/22/21 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			509543	07/22/21 17:41	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0161 g	509459	07/19/21 10:30	DPM	TAL SAC

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

**Client Sample ID: GILBANETSP062921-1298**

**Lab Sample ID: 320-76327-6**

**Date Collected: 07/15/21 07:58**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			509458	07/19/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1299**

**Lab Sample ID: 320-76327-7**

**Date Collected: 07/15/21 07:40**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					509195	07/22/21 09:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	509219	07/22/21 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			509543	07/22/21 17:44	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0068 g	509459	07/19/21 10:30	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1299**

**Lab Sample ID: 320-76327-8**

**Date Collected: 07/15/21 07:40**

**Matrix: Air**

**Date Received: 07/16/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			509458	07/19/21 10:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					508018	07/19/21 11:24	DPM	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

## Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



# Method Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76327-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-76327-1	GILBANEPM062921-1296	Air	07/14/21 06:56	07/16/21 09:30
320-76327-2	GILBANETSP062921-1296	Air	07/14/21 06:56	07/16/21 09:30
320-76327-3	GILBANEPM062921-1297	Air	07/14/21 06:45	07/16/21 09:30
320-76327-4	GILBANETSP062921-1297	Air	07/14/21 06:45	07/16/21 09:30
320-76327-5	GILBANEPM062921-1298	Air	07/15/21 07:58	07/16/21 09:30
320-76327-6	GILBANETSP062921-1298	Air	07/15/21 07:58	07/16/21 09:30
320-76327-7	GILBANEPM062921-1299	Air	07/15/21 07:40	07/16/21 09:30
320-76327-8	GILBANETSP062921-1299	Air	07/15/21 07:40	07/16/21 09:30

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**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal

1655 Grant Street, Suite 1200, Concord, CA 94520  
bwomack@gilbaneco.com

**COC # KT071521AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<b>Event:</b> Parcel E Phase 2 Air Monitoring
<b>Project Number:</b> J310000400	POC [REDACTED]	
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu														Code	Matrix
																		A	Air
<b>Equipment:</b>																		Code	Container/Preservative
																		1	1x 250-mL Plastic, 4 Degrees C
																		1	1x Envelope, None



Page 15 of 16

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	GILBANEPM062921-1296	A	07/14/2021	0656	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1732.51	
2	GILBANETSP062921-1296	A	07/14/2021	0656	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1736.28	
3	GILBANEPM062921-1297	A	07/14/2021	0645	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1715.05	
4	GILBANETSP062921-1297	A	07/14/2021	0645	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1631.21	
5	GILBANEPM062921-1298	A	07/15/2021	0758	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1842.43	
6	GILBANETSP062921-1298	A	07/15/2021	0758	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1872.21	
7	GILBANEPM062921-1299	A	07/15/2021	0740	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 721.80	
8	GILBANETSP062921-1299	A	07/15/2021	0740	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 684.13	
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>
[REDACTED]			[REDACTED]			Shipping Date: 7/15/2021/FedEx 7742 6284 3400
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

7/23/2021

10.9



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-76327-1

**Login Number: 76327**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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



## ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-76507-1

Client Project/Site: Hunters Point, Parcel E, Phase 2

**For:**

Gilbane Federal  
2355 E. Camelback Road  
Suite 850  
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

---

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*





# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	6
QC Sample Results . . . . .	7
QC Association Summary . . . . .	8
Lab Chronicle . . . . .	9
Certification Summary . . . . .	10
Method Summary . . . . .	11
Sample Summary . . . . .	12
Chain of Custody . . . . .	13
Receipt Checklists . . . . .	14

# Definitions/Glossary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Case Narrative

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

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**Job ID: 320-76507-1**

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**Laboratory: Eurofins TestAmerica, Sacramento**

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**Narrative**

**Job Narrative**  
**320-76507-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 7/21/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.3° C.

**Metals**

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

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

# Detection Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

## Client Sample ID: GILBANEPM062921-1300

## Lab Sample ID: 320-76507-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011	J	0.0027	0.00041	ug/m3 (Air)	1		6020	Total/NA
Copper	0.013		0.0054	0.00041	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0031		0.0027	0.00038	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	2.3		1.1	1.1	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1300

## Lab Sample ID: 320-76507-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	4.5326		1.1928	1.1928	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM062921-1301

## Lab Sample ID: 320-76507-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016	J	0.0028	0.00043	ug/m3 (Air)	1		6020	Total/NA
Copper	0.052		0.0057	0.00043	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0050		0.0028	0.00040	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.0		1.2	1.2	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP062921-1301

## Lab Sample ID: 320-76507-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	9.0809		1.2271	1.2271	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

**Client Sample ID: GILBANEPM062921-1300**

**Lab Sample ID: 320-76507-1**

Date Collected: 07/15/21 13:55

Matrix: Air

Date Received: 07/21/21 09:50

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011	J	0.0027	0.00041	ug/m3 (Air)		07/27/21 09:00	07/27/21 18:38	1
Copper	0.013		0.0054	0.00041	ug/m3 (Air)		07/27/21 09:00	07/27/21 18:38	1
Manganese	0.0031		0.0027	0.00038	ug/m3 (Air)		07/27/21 09:00	07/28/21 12:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	2.3		1.1	1.1	ug/m3			07/25/21 12:40	1

**Client Sample ID: GILBANETSP062921-1300**

**Lab Sample ID: 320-76507-2**

Date Collected: 07/15/21 13:55

Matrix: Air

Date Received: 07/21/21 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	4.5326		1.1928	1.1928	ug/m3 (Air)			07/25/21 12:40	1

**Client Sample ID: GILBANEPM062921-1301**

**Lab Sample ID: 320-76507-3**

Date Collected: 07/15/21 13:34

Matrix: Air

Date Received: 07/21/21 09:50

Sample Container: Folder/Filter

**Method: 6020 - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016	J	0.0028	0.00043	ug/m3 (Air)		07/27/21 09:00	07/27/21 18:48	1
Copper	0.052		0.0057	0.00043	ug/m3 (Air)		07/27/21 09:00	07/27/21 18:48	1
Manganese	0.0050		0.0028	0.00040	ug/m3 (Air)		07/27/21 09:00	07/28/21 12:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	5.0		1.2	1.2	ug/m3			07/25/21 12:40	1

**Client Sample ID: GILBANETSP062921-1301**

**Lab Sample ID: 320-76507-4**

Date Collected: 07/15/21 13:34

Matrix: Air

Date Received: 07/21/21 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	9.0809		1.2271	1.2271	ug/m3 (Air)			07/25/21 12:40	1

# QC Sample Results

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

## Method: 6020 - Metals (ICP/MS)

**Lab Sample ID: MB 320-510566/1-B**  
**Matrix: Air**  
**Analysis Batch: 510908**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 510624**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/27/21 09:00	07/27/21 18:06	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/27/21 09:00	07/27/21 18:06	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/27/21 09:00	07/27/21 18:06	1

**Lab Sample ID: LCS 320-510566/2-B**  
**Matrix: Air**  
**Analysis Batch: 510908**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510624**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.245		ug/m3 (Air)		102	86 - 111
Copper	0.240	0.262		ug/m3 (Air)		109	85 - 110
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110

**Lab Sample ID: LCSD 320-510566/3-B**  
**Matrix: Air**  
**Analysis Batch: 510908**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 510624**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.256		ug/m3 (Air)		107	86 - 111	5	15
Copper	0.240	0.264		ug/m3 (Air)		110	85 - 110	1	15
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110	0	15

# QC Association Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

## Metals

### Pre Prep Batch: 510566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76507-1	GILBANEPM062921-1300	Total/NA	Air	Filter to Air	
320-76507-3	GILBANEPM062921-1301	Total/NA	Air	Filter to Air	
MB 320-510566/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-510566/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-510566/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 510624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76507-1	GILBANEPM062921-1300	Total/NA	Air	3050B	510566
320-76507-3	GILBANEPM062921-1301	Total/NA	Air	3050B	510566
MB 320-510566/1-B	Method Blank	Total/NA	Air	3050B	510566
LCS 320-510566/2-B	Lab Control Sample	Total/NA	Air	3050B	510566
LCSD 320-510566/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	510566

### Analysis Batch: 510908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76507-1	GILBANEPM062921-1300	Total/NA	Air	6020	510624
320-76507-3	GILBANEPM062921-1301	Total/NA	Air	6020	510624
MB 320-510566/1-B	Method Blank	Total/NA	Air	6020	510624
LCS 320-510566/2-B	Lab Control Sample	Total/NA	Air	6020	510624
LCSD 320-510566/3-B	Lab Control Sample Dup	Total/NA	Air	6020	510624

### Analysis Batch: 511093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76507-1	GILBANEPM062921-1300	Total/NA	Air	6020	510624
320-76507-3	GILBANEPM062921-1301	Total/NA	Air	6020	510624

## General Chemistry

### Pre Prep Batch: 510690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76507-2	GILBANETSP062921-1300	Total/NA	Air	Filter to Air	
320-76507-4	GILBANETSP062921-1301	Total/NA	Air	Filter to Air	

### Analysis Batch: 510693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76507-1	GILBANEPM062921-1300	Total/NA	Air	PM10	
320-76507-3	GILBANEPM062921-1301	Total/NA	Air	PM10	

### Analysis Batch: 510715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-76507-2	GILBANETSP062921-1300	Total/NA	Air	40CFR50 App B	510690
320-76507-4	GILBANETSP062921-1301	Total/NA	Air	40CFR50 App B	510690

# Lab Chronicle

Client: Gilbane Federal  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

**Client Sample ID: GILBANEPM062921-1300**

**Lab Sample ID: 320-76507-1**

**Date Collected: 07/15/21 13:55**

**Matrix: Air**

**Date Received: 07/21/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					510566	07/27/21 08:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	510624	07/27/21 09:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			510908	07/27/21 18:38	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					510566	07/27/21 08:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	510624	07/27/21 09:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			511093	07/28/21 12:33	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0010 g	510693	07/25/21 12:40	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1300**

**Lab Sample ID: 320-76507-2**

**Date Collected: 07/15/21 13:55**

**Matrix: Air**

**Date Received: 07/21/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			510715	07/25/21 12:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					510690	07/27/21 12:11	DPM	TAL SAC

**Client Sample ID: GILBANEPM062921-1301**

**Lab Sample ID: 320-76507-3**

**Date Collected: 07/15/21 13:34**

**Matrix: Air**

**Date Received: 07/21/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					510566	07/27/21 08:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	510624	07/27/21 09:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			510908	07/27/21 18:48	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					510566	07/27/21 08:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	510624	07/27/21 09:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			511093	07/28/21 12:42	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0021 g	510693	07/25/21 12:40	DPM	TAL SAC

**Client Sample ID: GILBANETSP062921-1301**

**Lab Sample ID: 320-76507-4**

**Date Collected: 07/15/21 13:34**

**Matrix: Air**

**Date Received: 07/21/21 09:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			510715	07/25/21 12:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					510690	07/27/21 12:11	DPM	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Accreditation/Certification Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

## Laboratory: Eurofins TestAmerica, Sacramento

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
40CFR50 App B		Air	Total Suspended Particulates
PM10		Air	Particulate Matter as PM 10



# Method Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	TAL SAC
PM10	Particulate Matter	40CFR50J	TAL SAC
3050B	Preparation, Metals	SW846	TAL SAC
Filter to Air	Filter to Air volume ratio	None	TAL SAC

#### Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: Gilbane Federal  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-76507-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-76507-1	GILBANEPM062921-1300	Air	07/15/21 13:55	07/21/21 09:50
320-76507-2	GILBANETSP062921-1300	Air	07/15/21 13:55	07/21/21 09:50
320-76507-3	GILBANEPM062921-1301	Air	07/15/21 13:34	07/21/21 09:50
320-76507-4	GILBANETSP062921-1301	Air	07/15/21 13:34	07/21/21 09:50

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

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
Brett Womack  
1655 Grant Street, Suite 1200, Concord, CA 94520  
bwomack@gilbaneco.com

**COC # KT072021AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	<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> 880 Riverside Parkway, West Sacramento, CA 95805	

<b>Comments:</b>	<b>Analytical Test Method</b>	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu														<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	GILBANEPM062921-1300	A	07/15/2021	1355	KT	X	X					AMSE1	N2	0.00	0.00	1	VOLUME: 441.36
2	GILBANETSP062921-1300	A	07/15/2021	1355	KT		X					AMSE1	N2	0.00	0.00	1	VOLUME: 419.19
3	GILBANEPM062921-1301	A	07/15/2021	1334	KT	X	X					AMSE2	N2	0.00	0.00	1	VOLUME: 421.64
4	GILBANETSP062921-1301	A	07/15/2021	1334	KT		X					AMSE2	N2	0.00	0.00	1	VOLUME: 407.45
5																	
6																	

**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>
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	Shipping Date: 7/20/2021/FedEx 7742 9488 8445
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

Page 13 of 14

7/28/2021

20.3



# Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-76507-1

**Login Number: 76507**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

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

