



**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

June 1<sup>st</sup>, 2022 through June 30<sup>th</sup>, 2022

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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>fibers 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 Parcel E from June 1st, 2022 through June 30th, 2022 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 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 Bayview Manor - KCASANFR1775 published at Weather Underground ([www.wunderground.com](http://www.wunderground.com)). If the Bayview Manor Station did not have available data, the San Bruno – San Francisco International Airport Station-KCASANFRBR87 was used.

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 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])

### **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> = The Cal/OSHA PEL for particulates not otherwise regulated (respiratory) is used for PM10 comparison.

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

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

fiber/cm<sup>3</sup> = fibers 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

ROC = radionuclide of concern

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**. Meteorological data for Stations 1 and 2 were sourced from the Weather Underground (wunderground.com) station Bayview Manor - KCASANFR1775.

Air Monitoring Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from June 1st, 2022 through June 30th, 2022, during which Gilbane was excavating, grading and maintaining radiological screening yard pads, and transporting excavated material and clean import. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks.

Construction and remediation activities conducted from June 1st, 2022 through June 30th, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from June 1st, 2022 through June 30th, 2022 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 June 1st, 2022 through June 30th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 3** and **Attachment 4**.

TSP results from June 1st, 2022 through June 30th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from June 1st, 2022 through June 30th, 2022 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. It was noted at sample receipt that the laboratory updated the sample nomenclature for filter naming to reflect the change in company name. No data quality issues were noted. The data 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), 1999. 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

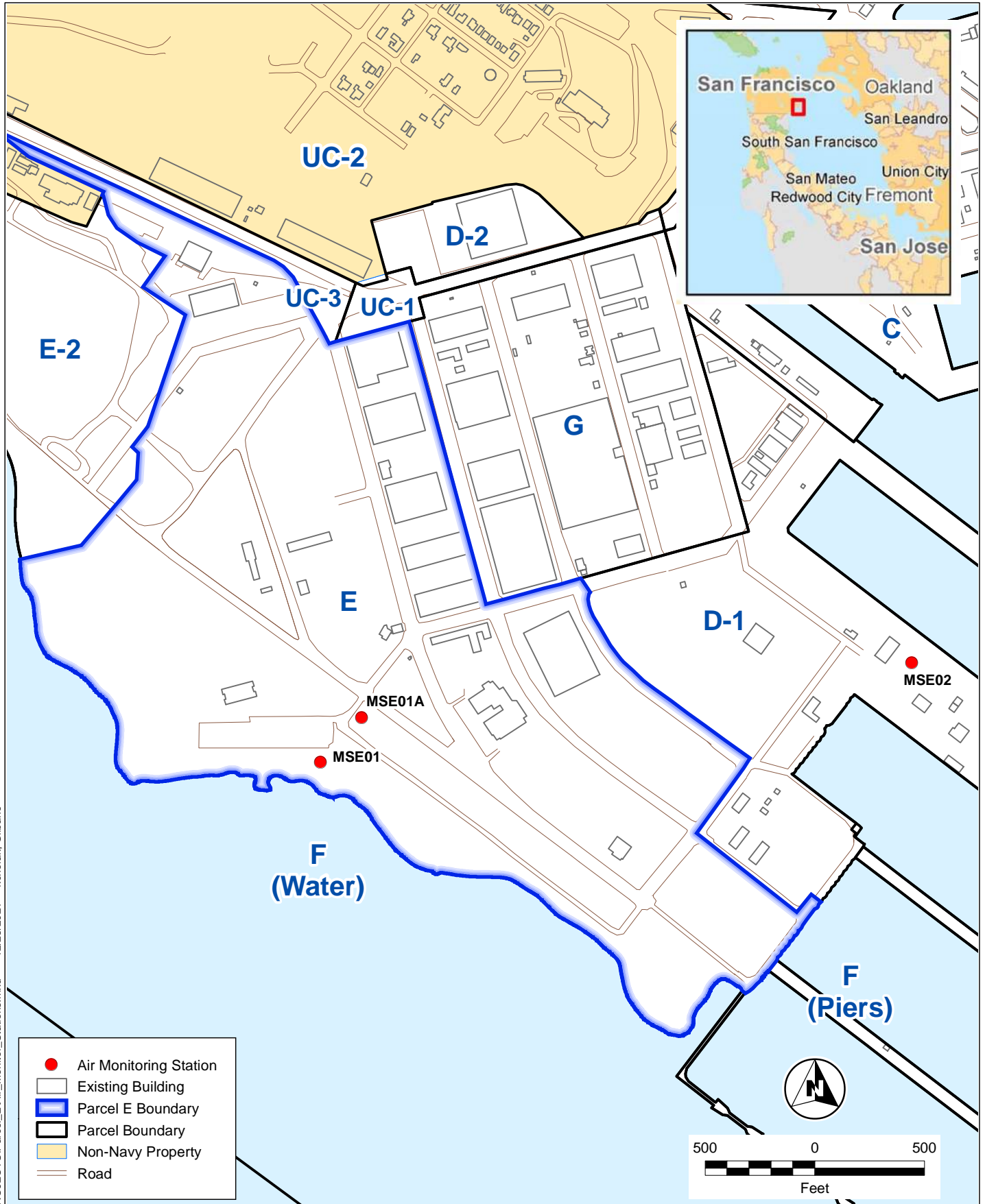
Gilbane Federal, 2019b. Radiological Procedure PR-RP-150 *Radiological Survey and Sampling, Version 01*, October 1.

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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

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
6/1/2022 <sup>1</sup>	29.89	59.81	WSW
6/2/2022 <sup>1</sup>	29.93	63.33	WSW
6/6/2022 <sup>2</sup>	29.95	57.84	WSW
6/7/2022 <sup>2</sup>	29.95	56.38	WSW
6/8/2022 <sup>2</sup>	29.91	56.68	West
6/9/2022 <sup>2</sup>	29.92	62.50	WSW
6/13/2022 <sup>2</sup>	30.00	59.95	WSW
6/14/2022 <sup>2</sup>	29.94	59.10	WSW
6/15/2022 <sup>2</sup>	29.91	56.28	WSW
6/16/2022 <sup>2</sup>	29.89	59.54	West
6/21/2022 <sup>2</sup>	29.85	78.73	NNW
6/22/2022 <sup>2</sup>	29.89	61.87	West
6/23/2022 <sup>2</sup>	29.89	60.28	West
6/27/2022 <sup>2</sup>	30.06	56.41	WSW
6/28/2022 <sup>2</sup>	30.02	58.17	WSW
6/29/2022 <sup>2</sup>	30.03	55.26	WSW
6/30/2022 <sup>2</sup>	30.05	53.40	SW

**Notes:**

<sup>1</sup>Data collected using wunderground.com from San Bruno - San Francisco International Airport Station

<sup>2</sup>Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

# **ATTACHMENT 2**

## **ASBESTOS MONITORING RESULTS**



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## Attachment 2: Asbestos Monitoring Results

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)
MSE01-060122	06/01/22	1	535	1070	4.5	<0.003	No
MSE02-060122	06/01/22	2	540	1080	6.5	0.003	No
MSE01-060222	06/02/22	1	456	912	3.0	<0.003	No
MSE02-060222	06/02/22	2	452	904	6.0	0.003	No
MSE01-060622	06/06/22	1	526	1052	2.5	<0.003	No
MSE02-060622	06/06/22	2	529	1058	3.0	<0.003	No
MSE01-060722	06/07/22	1	540	1080	2.5	<0.002	No
MSE02-060722	06/07/22	2	528	1056	7.5	0.003	No
MSE01-060822	06/08/22	1	503	1006	2.0	<0.003	No
MSE02-060822	06/08/22	2	508	1016	15.5	0.007	No
MSE01-060922	06/09/22	1	423	846	3.5	<0.003	No
MSE02-060922	06/09/22	2	423	846	5.0	<0.003	No
MSE01-061322	06/13/22	1	492	984	12.0	0.006	No
MSE02-061322	06/13/22	2	509	1018	1.5	<0.003	No
MSE01-061422	06/14/22	1	502	1004	12.0	0.006	No
MSE02-061422	06/14/22	2	511	1022	6.0	0.003	No
MSE01-061522	06/15/22	1	495	990	18.5	0.009	No
MSE02-061522	06/15/22	2	500	1000	8.5	0.004	No
MSE01-061622	06/16/22	1	456	912	9.5	0.005	No
MSE02-061622	06/16/22	2	441	882	8.5	0.005	No
MSE01-062122	06/21/22	1	509	1018	2.5	<0.003	No
MSE02-062122	06/21/22	2	518	1036	3.0	<0.003	No
MSE01-062222	06/22/22	1	552	1104	10.5	0.005	No
MSE02-062222	06/22/22	2	493	986	25.0	0.012	No
MSE01-062322	06/23/22	1	534	1068	6.0	0.003	No
MSE02-062322	06/23/22	2	512	1024	11.0	0.005	No
MSE01-062722	06/27/22	1	530	1060	8.5	0.004	No
MSE02-062722	06/27/22	2	548	1096	4.0	<0.002	No
MSE01-062822	06/28/22	1	555	1110	8.0	0.004	No
MSE02-062822	06/28/22	2	569	1138	2.0	<0.002	No
MSE01-062922	06/29/22	1	522	1044	5.0	<0.003	No
MSE02-062922	06/29/22	2	537	1074	2.5	<0.003	No
MSE01-063022	06/30/22	1	406	812	6.5	0.004	No
MSE02-063022	06/30/22	2	408	816	7.5	0.005	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

L = liter

min = minutes

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

< = below detection limit

**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>2</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
GILBANEPM042622-1916	1	6/1/2022	1713.26	0.0340						
GILBANEPM042622-1917	2	6/1/2022	1714.92	0.0290	-0.0050	-5.0	5,000	No	50	No
GILBANEPM042622-1918	1	6/2/2022	1752.00	0.0300						
GILBANEPM042622-1919	2	6/2/2022	1740.82	0.0210	-0.0090	-9.0	5,000	No	50	No
GILBANEPM042622-1920	1	6/2/2022 <sup>2</sup>	543.58	0.0170						
GILBANEPM042622-1921	2	6/2/2022 <sup>2</sup>	540.47	0.0180	0.0010	1.0	5,000	No	50	No
GILBANEPM042622-1922	1	6/7/2022	1721.17	0.031						
GILBANEPM042622-1923	2	6/7/2022	1728.01	0.0170	-0.0140	-14.0	5,000	No	50	No
GILBANEPM051122-1942	1	6/8/2022	1739.32	0.034						
GILBANEPM051122-1943	2	6/8/2022	1737.40	0.029	-0.0050	-5.0	5,000	No	50	No
GILBANEPM051122-1947	1	6/9/2022	1736.78	0.022						
GILBANEPM051122-1948	2	6/9/2022	1724.47	0.017	-0.0050	-5.0	5,000	No	50	No
GILBANEPM051122-1949	1	6/9/2022 <sup>2</sup>	504.48	0.037						
GILBANEPM051122-1950	2	6/9/2022 <sup>2</sup>	500.69	0.040	0.0030	3.0	5,000	No	50	No
GILBANEPM051122-1951	1	6/14/2022	1717.03	0.0330						
GILBANEPM051122-1952	2	6/14/2022	1715.00	0.031	-0.0020	-2.0	5,000	No	50	No
GILBANEPM051122-1953	1	6/15/2022	1731.59	0.051						
GILBANEPM053022-1	2	6/15/2022	1722.50	0.036	-0.0150	-15.0	5,000	No	50	No
GILBANEPM053022-2	1	6/16/2022	1738.54	0.039						
GILBANEPM053022-3	2	6/16/2022	1728.73	0.029	-0.0100	-10.0	5,000	No	50	No
GILBANEPM053022-4	1	6/16/2022 <sup>2</sup>	539.35	0.020						
GILBANEPM053022-5	2	6/16/2022 <sup>2,3</sup>	505.62	0.007	-0.0127	-12.7	5,000	No	50	No
GILBANEPM053022-6	1	6/22/2022 <sup>3</sup>	1771.73	0.0087						
GILBANEPM053022-7	2	6/22/2022	1823.05	0.029	0.0203	20.3	5,000	No	50	No
GILBANEPM053022-8	1	6/23/2022 <sup>3</sup>	1695.20	0.026						
GILBANEPM053022-9	2	6/23/2022	1676.97	0.027	0.0010	1.0	5,000	No	50	No
GILBANEPM053022-10	1	6/23/2022 <sup>2</sup>	473.95	0.043						
GILBANEPM053022-11	2	6/23/2022 <sup>2</sup>	592.21	0.025	-0.0180	-18.0	5,000	No	50	No
GILBANEPM053022-12	1	6/28/2022	1673.23	0.025						
GILBANEPM053022-13	2	6/28/2022	1708.92	0.017	-0.0080	-8.0	5,000	No	50	No
GES_PM053022-14	1	6/29/2022	1710.95	0.032						
GES_PM053022-15	2	6/29/2022	1739.97	0.024	-0.0080	-8.0	5,000	No	50	No
GES_PM053022-16	1	6/30/2022	1739.89	0.021						
GES_PM053022-17	2	6/30/2022	1738.24	0.016	-0.0050	-5.0	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>Generator malfunction

<sup>4</sup>PM10 data is additionally compared to the recommended dust action level of 50 ug/m3 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

J = estimated concentration. See data review report for details.

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

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

PEL = permissible exposure limit

PM10 = 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)
GILBANEPM042622-1916	1	6/1/2022	1713.26	0.000029	No	0.00000360	No	0.00000910	No
GILBANEPM042622-1917	2	6/1/2022	1714.92	0.000018	No	0.00000330	No	0.00000740	No
GILBANEPM042622-1918	1	6/2/2022	1752.00	0.000029	No	0.00000540	No	0.00001100	No
GILBANEPM042622-1919	2	6/2/2022	1740.82	0.000008	No	0.00000260	No	0.00000540	No
GILBANEPM042622-1920	1	6/2/2022 <sup>2</sup>	543.58	0.000024	No	0.00000250	No	0.00000580	No
GILBANEPM042622-1921	2	6/2/2022 <sup>2</sup>	540.47	0.000032	No	0.00000670	No	0.00001200	No
GILBANEPM042622-1922	1	6/7/2022	1721.17	0.000029	No	0.0000057	No	0.000011	No
GILBANEPM042622-1923	2	6/7/2022	1728.01	0.000014	No	0.00000270	No	0.000003	No
GILBANEPM051122-1942	1	6/8/2022	1739.32	0.000063	No	0.00000810	No	0.000013	No
GILBANEPM051122-1943	2	6/8/2022	1737.40	0.00004	No	0.00000540	No	0.0000110	No
GILBANEPM051122-1947	1	6/9/2022	1736.78	0.000049	No	0.00000270	No	0.00000670	No
GILBANEPM051122-1948	2	6/9/2022	1724.47	0.000003	No	0.00000130	No	0.00000550	No
GILBANEPM051122-1949	1	6/9/2022 <sup>2</sup>	504.48	0.000100	No	0.00000390	No	0.000012 J+	No
GILBANEPM051122-1950	2	6/9/2022 <sup>2</sup>	500.69	0.000130	No	0.00000600	No	0.00001500	No
GILBANEPM051122-1951	1	6/14/2022	1717.03	0.000065	No	0.00000360	No	0.00000850	No
GILBANEPM051122-1952	2	6/14/2022	1715.00	0.000050	No	0.00000320	No	0.00000670	No
GILBANEPM051122-1953	1	6/15/2022	1731.59	0.000052	No	0.00000640	No	0.00001600	No
GILBANEPM053022-1	2	6/15/2022	1722.50	0.000016	No	0.00000490	No	0.00000950	No
GILBANEPM053022-2	1	6/16/2022	1738.54	0.000051	No	0.00000750	No	0.00001700	No
GILBANEPM053022-3	2	6/16/2022	1728.73	0.000017	No	0.00000490	No	0.00000910	No
GILBANEPM053022-4	1	6/16/2022 <sup>2</sup>	539.35	0.000044	No	0.00000370	No	0.00001000	No
GILBANEPM053022-5	2	6/16/2022 <sup>2,3</sup>	505.62	0.000035	No	0.0000023 J	No	0.00000390	No
GILBANEPM053022-6	1	6/22/2022 <sup>3</sup>	1771.73	0.000130	No	0.00000170	No	0.00000390	No
GILBANEPM053022-7	2	6/22/2022	1823.05	0.000083	No	0.00000340	No	0.00000920	No
GILBANEPM053022-8	1	6/23/2022 <sup>3</sup>	1695.20	0.000074	No	0.00001600	No	0.00002600	No
GILBANEPM053022-9	2	6/23/2022	1676.97	0.000099	No	0.00000900	No	0.00001500	No
GILBANEPM053022-10	1	6/23/2022 <sup>2</sup>	473.95	0.000330	No	0.00000400	No	0.00000960	No
GILBANEPM053022-11	2	6/23/2022 <sup>2</sup>	592.21	0.000025	No	0.00000540	No	0.00001100	No
GILBANEPM053022-12	1	6/28/2022	1673.23	0.000024	No	0.00000610	No	0.00000950	No
GILBANEPM053022-13	2	6/28/2022	1708.92	0.000059	No	0.00000270	No	0.00000580	No
GES_PM053022-14	1	6/29/2022	1710.95	0.000024	No	0.00000330	No	0.00000970	No
GES_PM053022-15	2	6/29/2022	1739.97	0.000021	No	0.00000310	No	0.00000640	No
GES_PM053022-16	1	6/30/2022	1739.89	0.000008	No	0.00000099	No	0.00000390	No
GES_PM053022-17	2	6/30/2022	1738.24	0.000022	No	0.00000120	No	0.0000025	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> Generator 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

J+ = estimated concentration biased high. See data review report for details.



**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)
GILBANETSP042622-1916	1	6/1/2022	1635.80	0.0484778			
GILBANETSP042622-1917	2	6/1/2022	1720.41	0.0499881	0.002	0.5	No
GILBANETSP042622-1918	1	6/2/2022	1674.60	0.0461006			
GILBANETSP042622-1919	2	6/2/2022	1749.26	0.0367012	-0.009	0.5	No
GILBANETSP042622-1920	1	6/2/2022 <sup>2</sup>	519.83	0.0298174			
GILBANETSP042622-1921	2	6/2/2022 <sup>2</sup>	542.49	0.0425814	0.013	0.5	No
GILBANETSP042622-1922	1	6/7/2022	1646.47	0.0420293			
GILBANETSP042622-1923	2	6/7/2022	1720.06	0.0337198	-0.008	0.5	No
GILBANETSP051122-1942	1	6/8/2022	1661.58	0.045559			
GILBANETSP051122-1943	2	6/8/2022	1735.30	0.040166	-0.005	0.5	No
GILBANETSP051122-1947	1	6/9/2022	1659.16	0.0299549			
GILBANETSP051122-1948	2	6/9/2022	1726.67	0.0369497	0.007	0.5	No
GILBANETSP051122-1949	1	6/9/2022 <sup>2</sup>	483.20	0.0434603			
GILBANETSP051122-1950	2	6/9/2022 <sup>2</sup>	503.55	0.0550094	0.012	0.5	No
GILBANETSP051122-1951	1	6/14/2022 <sup>3</sup>	1642.89	0.0382253			
GILBANETSP051122-1952	2	6/14/2022	1721.47	0.0382231	0.000	0.5	No
GILBANETSP051122-1953	1	6/15/2022	1610.90	0.0728164			
GILBANETSP053022-1	2	6/15/2022	1728.04	0.0595472	-0.013	0.5	No
GILBANETSP053022-2	1	6/16/2022	1673.99	0.0490445			
GILBANETSP053022-3	2	6/16/2022	1732.37	0.0580707	0.009	0.5	No
GILBANETSP053022-4	1	6/16/2022 <sup>2</sup>	516.68	0.0317411			
GILBANETSP053022-5	2	6/16/2022 <sup>2</sup>	509.79	0.0239314	-0.0078	0.5	No
GILBANETSP053022-6	1	6/22/2022	1696.51	0.043619			
GILBANETSP053022-7	2	6/22/2022	1823.17	0.0361458	-0.0075	0.5	No
GILBANETSP053022-10	1	6/23/2022 <sup>3</sup>	1668.50	0.047288			
GILBANETSP053022-11	2	6/23/2022	1688.70	0.047729	0.000	0.5	No
GILBANETSP053022-8	1	6/23/2022 <sup>2</sup>	485.55	0.0438678			
GILBANETSP053022-9	2	6/23/2022 <sup>2</sup>	593.77	0.0474931	0.004	0.5	No
GILBANETSP053022-12	1	6/28/2022	1604.31	0.0238109			
GILBANETSP053022-13	2	6/28/2022	1710.93	0.0248987	0.001	0.5	No
GES_TSP053022-14	1	6/29/2022	1642.47	0.0395745			
GES_TSP053022-15	2	6/29/2022	1738.63	0.0412969	0.002	0.5	No
GES_TSP053022-16	1	6/30/2022	1675.60	0.0275722			
GES_TSP053022-17	2	6/30/2022	1737.33	0.0303339	0.003	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>Generator 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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Project Information									Effluent Air Concentration				Sampling Period				Color Codes					
Contract / Task Order Number:		Project Title / Location:			Gilbane Project Number:						Alpha		Beta		Air samples collected between 01 Jun 2022 and 30 Jun 2022		Value < 0.1 x Effluent Conc (i.e., < 10%)					
N62473-17-D-0005 / F4332		HPNSParcel E Phase 2 RA / San Francisco, CA			J310000400				Radionuclide		Ra-226		Sr-90				Value > 0.1 x Effluent Conc (i.e., > 10%)					
Information effective as of: 21 Jul 2022									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-0571	Perimeter	MSE01	PE11	60	6/1/22 4:00	6/1/22 15:42	702	4.2E+07	E	06/06/22	1	cpm	0.35	5.50	2.2	13.0	2.4E-14	1.4E-13	2.6%	2.3%	BCS	CB
AS-0572	Perimeter	MSE02	PE12	60	6/1/22 3:50	6/1/22 15:31	701	4.2E+07	E	06/06/22	1	cpm	0.10	4.00	0.6	8.5	6.7E-15	9.1E-14	0.7%	1.5%	BCS	CB
AS-0573	Perimeter	MSE01	PE11	60	6/2/22 4:00	6/2/22 14:18	618	3.7E+07	E	06/06/22	1	cpm	0.10	3.80	0.6	7.9	7.6E-15	9.6E-14	0.8%	1.6%	BCS	CB
AS-0574	Perimeter	MSE02	PE12	60	6/2/22 3:50	6/2/22 14:20	630	3.8E+07	E	06/06/22	1	cpm	0.10	4.20	0.6	9.1	7.5E-15	1.1E-13	0.8%	1.8%	BCS	CB
AS-0575	Perimeter	MSE01	PE13	50	6/6/22 6:40	6/6/22 15:47	547	2.7E+07	E	06/13/22	1	cpm	0.35	4.35	2.2	9.5	3.6E-14	1.6E-13	4.0%	2.6%	BCS	CB
AS-0576	Perimeter	MSE02	PE14	60	6/6/22 6:50	6/6/22 15:35	525	3.2E+07	E	06/13/22	1	cpm	0.25	4.80	1.6	10.9	2.2E-14	1.6E-13	2.5%	2.6%	BCS	CB
AS-0577	Perimeter	MSE01	PE13	50	6/7/22 4:00	6/7/22 15:22	682	3.4E+07	E	06/13/22	1	cpm	0.10	4.55	0.6	10.2	8.3E-15	1.3E-13	0.9%	2.2%	BCS	CB
AS-0578	Perimeter	MSE02	PE14	60	6/7/22 3:55	6/7/22 15:17	682	4.1E+07	E	06/13/22	1	cpm	0.15	4.50	0.9	10.0	1.0E-14	1.1E-13	1.2%	1.8%	BCS	CB
AS-0579	Perimeter	MSE01	PE13	50	6/8/22 4:15	6/8/22 15:03	648	3.2E+07	E	06/13/22	1	cpm	0.20	4.15	1.3	8.9	1.7E-14	1.2E-13	1.9%	2.1%	BCS	CB
AS-0580	Perimeter	MSE02	PE14	60	6/8/22 4:05	6/8/22 14:57	652	3.9E+07	E	06/13/22	1	cpm	0.10	3.45	0.6	6.8	7.2E-15	7.9E-14	0.8%	1.3%	BCS	CB
AS-0581	Perimeter	MSE01	PE13	50	6/9/22 4:00	6/9/22 13:39	579	2.9E+07	E	06/13/22	1	cpm	0.10	4.80	0.6	10.9	9.8E-15	1.7E-13	1.1%	2.8%	BCS	CB
AS-0582	Perimeter	MSE02	PE14	60	6/9/22 4:10	6/9/22 13:46	576	3.5E+07	E	06/13/22	1	cpm	0.25	3.55	1.6	7.1	2.0E-14	9.3E-14	2.3%	1.5%	BCS	CB
AS-0583	Perimeter	MSE01	PE13	50	6/13/22 6:40	6/13/22 15:05	505	2.5E+07	E	06/23/22	1	cpm	0.20	3.40	1.3	6.7	2.2E-14	1.2E-13	2.5%	2.0%	BCS	CB
AS-0584	Perimeter	MSE02	PE14	60	6/13/22 6:35	6/13/22 15:17	522	3.1E+07	E	06/23/22	1	cpm	0.45	4.45	2.8	9.8	4.1E-14	1.4E-13	4.5%	2.4%	BCS	CB
AS-0585	Perimeter	MSE01	PE13	50	6/14/22 4:00	6/14/22 15:04	664	3.3E+07	E	06/23/22	1	cpm	0.30	4.45	1.9	9.8	2.6E-14	1.3E-13	2.8%	2.2%	BCS	CB
AS-0586	Perimeter	MSE02	PE14	60	6/14/22 4:10	6/14/22 15:02	652	3.9E+07	E	06/23/22	1	cpm	0.15	3.25	0.9	6.2	1.1E-14	7.2E-14	1.2%	1.2%	BCS	CB
AD-0587	Perimeter	MSE01	PE13	50	6/15/22 4:10	6/15/22 14:44	634	3.2E+07	E	06/23/22	1	cpm	0.10	4.05	0.6	8.6	8.9E-15	1.2E-13	1.0%	2.0%	BCS	CB
AS-0588	Perimeter	MSE02	PE14	60	6/15/22 4:00	6/15/22 14:36	636	3.8E+07	E	06/23/22	1	cpm	0.25	4.95	1.6	11.4	1.9E-14	1.3E-13	2.1%	2.2%	BCS	CB
AS-0589	Perimeter	MSE01	PE13	50	6/16/22 4:10	6/16/22 13:38	568	2.8E+07	E	06/23/22	1	cpm	0.20	4.00	1.3	8.5	2.0E-14	1.3E-13	2.2%	2.2%	BCS	CB
AS-0590	Perimeter	MSE02	PE14	60	6/16/22 4:00	6/16/22 13:12	552	3.3E+07	E	06/23/22	1	cpm	0.05	3.65	0.3	7.4	4.3E-15	1.0E-13	0.5%	1.7%	BCS	CB
AS-0591	Perimeter	MSE01	PE13	50	6/21/22 6:40	6/21/22 15:37	537	2.7E+07	E	06/27/22	1	cpm	0.15	3.20	0.9	6.1	1.6E-14	1.0E-13	1.8%	1.7%	BCS	CB
AS-0592	Perimeter	MSE02	PE14	60	6/21/22 6:45	6/21/22 15:28	523	3.1E+07	E	06/27/22	1	cpm	0.35	4.00	2.2	8.5	3.2E-14	1.2E-13	3.5%	2.0%	BCS	CB
AS-0593	Perimeter	MSE01	PE13	50	6/22/22 5:34	6/22/22 16:02	628	3.1E+07	E	06/27/22	1	cpm	0.10	4.95	0.6	11.4	9.0E-15	1.6E-13	1.0%	2.7%	BCS	CB
AS-0594	Perimeter	MSE02	PE14	60	6/22/22 5:32	6/22/22 15:35	603	3.6E+07	E	06/27/22	1	cpm	0.30	3.40	1.9	6.7	2.3E-14	8.3E-14	2.6%	1.4%	BCS	CB
AS-0595	Perimeter	MSE01	PE13	50	6/23/22 5:36	6/23/22 15:08	572	2.9E+07	E	06/27/22	1	cpm	0.25	4.10	1.6	8.8	2.5E-14	1.4E-13	2.8%	2.3%	BCS	CB
AS-0596	Perimeter	MSE02	PE14	60	6/23/22 5:32	6/23/22 15:03	571	3.4E+07	E	06/27/22	1	cpm	0.80	4.95	5.0	11.4	6.6E-14	1.5E-13	7.4%	2.5%	BCS	CB
AS-0597	Perimeter	MSE01	PE13	50	6/27/22 6:40	6/27/22 15:49	549	2.7E+07	E	07/05/22	1	cpm	0.10	5.65	0.6	13.5	1.0E-14	2.2E-13	1.1%	3.7%	BCS	CB
AS-0598	Perimeter	MSE02	PE14	60	6/27/22 6:45	6/27/22 15:45	540	3.2E+07	E	07/05/22	1	cpm	0.40	4.70	2.5	10.6	3.5E-14	1.5E-13	3.9%	2.5%	BCS	CB
AS-0599	Perimeter	MSE01	PE13	50	6/28/22 4:15	6/28/22 15:52	697	3.5E+07	E	07/05/22	1	cpm	0.25	4.60	1.6	10.3	2.0E-14	1.3E-13	2.3%	2.2%	BCS	CB
AS-0600	Perimeter	MSE02	PE14	60	6/28/22 4:10	6/28/22 15:56	706	4.2E+07	E	07/05/22	1	cpm	0.10	4.95	0.6	11.4	6.7E-15	1.2E-13	0.7%	2.0%	BCS	CB
AS-0601	Perimeter	MSE01	PE13	50	6/29/22 4:10	6/29/22 15:16	666	3.3E+07	E	07/05/22	1	cpm	0.25	4.40	1.6	9.7	2.1E-14	1.3E-13	2.4%	2.2%	BCS	CB
AS-0602	Perimeter	MSE02	PE14	60	6/29/22 4:15	6/29/22 15:20	665	4.0E+07	E	07/05/22	1	cpm	0.00	4.40	0.0	9.7	0.0E+00	1.1E-13	0.0%	1.8%	BCS	CB
AS-0603	Perimeter	MSE01	PE13	50	6/30/22 4:00	6/30/22 13:25	565	2.8E+07	E	07/05/22	1	cpm	0.10	4.40	0.6	9.7	1.0E-14	1.5E-13	1.1%	2.6%	BCS	CB
AS-0604	Perimeter	MSE02	PE14	60	6/30/22 3:55	6/30/22 13:20	565	3.4E+07	E	07/05/22	1	cpm	0.15	3.05	0.9	5.6	1.3E-14	7.4E-14	1.4%	1.2%	BCS	CB

# **ATTACHMENT 7**

## **LABORATORY REPORTS**

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# Laboratory Analysis Report

Job ID : 22060448



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/03/2022 15:37  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-053122	5/31/2022 15:14	Cassette	22060448.01
MSE02-053122	5/31/2022 15:07	Cassette	22060448.02
MSE01-060122	6/1/2022 15:41	Cassette	22060448.03
MSE02-060122	6/1/2022 15:37	Cassette	22060448.04

[REDACTED]  
[REDACTED]  
Title: Vice President Operations

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

6/10/2022



**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 6/10/2022

Job ID : 22060448  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22060448.01	MSE01-053122	05/31/2022	Area	2			493	986	100	4.5	5.732	< 0.003		06/06/22	[REDACTED]
22060448.02	MSE02-053122	05/31/2022	Area	2			516	1032	100	2.0	2.548	< 0.003		06/06/22	[REDACTED]
22060448.03	MSE01-060122	06/01/2022	Area	2			535	1070	100	4.5	5.732	< 0.003		06/06/22	[REDACTED]
22060448.04	MSE02-060122	06/01/2022	Area	2			540	1080	100	6.5	8.280	0.003		06/06/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22060448</b>	Date Received : <b>06/03/2022</b>	Time Received : <b>3:37PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>19.8°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</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.	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"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged 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 with in 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:**

Black Cassettes. No cooler was received; however, samples are received in a box with custody seal. ~JE 06/03/22

Received by : ██████████

Check in by/date : ██████████ / 06/03/2022

ab-s005-0321

Phone : ██████████

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/02/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative: None Container Type: Filter		
MSE01-053122	5/31/2022	1514	NA	NA	1	AA	X		493	01A
MSE02-053122	5/31/2022	1507	NA	NA	1	AA	X		516	02A
MSE01-060122	6/01/2022	1541	NA	NA	1	AA	X		535	03A
MSE02-060122	6/01/2022	1537	NA	NA	1	AA	X		540	04A

Job ID: 22060448



06/03/2022 GES - ASRC Industrial ACH

TP 6/2/22

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7770 1157 0291

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 6/2/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 6/2/22 Time: 1600

Special Instructions: [Redacted] / Gilban FEDEX Fedex 06/03/22 1537

Send Results to: [Redacted]

Turnaround Time: Standard

17.8°C  
105

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 02JUN22  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4490

BILL SENDER

TO

A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: JB1000 400 00 18 04

INV  
PO

DEPT



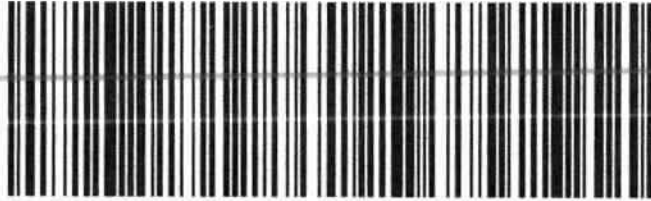
577J2Z7AF FE4A

TRK# 7770 1157 0291  
0201

FRI - 03 JUN 4:30P  
STANDARD OVERNIGHT

UL HBYA

77029  
TX-US IAH



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[www.essvial.com](http://www.essvial.com) 800-233-8425



CUSTODY SEAL

Gilbane

Signature

Date:

6/2/22

# Laboratory Analysis Report

Job ID : 22060956



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/09/2022 14:24  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-060222	6/2/2022 14:30	Cassette	22060956.01
MSE02-060222	6/2/2022 14:15	Cassette	22060956.02
MSE01-060622	6/6/2022 15:53	Cassette	22060956.03
MSE02-060622	6/6/2022 15:35	Cassette	22060956.04

[REDACTED]  
Released By: [REDACTED]  
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

6/16/2022



**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 6/16/2022

Job ID : 22060956  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22060956.01	MSE01-060222	06/02/2022	Area	2			456	912	100	3.0	3.822	< 0.003		06/14/22	[REDACTED]
22060956.02	MSE02-060222	06/02/2022	Area	2			452	904	100	6.0	7.643	0.003		06/14/22	[REDACTED]
22060956.03	MSE01-060622	06/06/2022	Area	2			526	1052	100	2.5	3.185	< 0.003		06/14/22	[REDACTED]
22060956.04	MSE02-060622	06/06/2022	Area	2			529	1058	100	3.0	3.822	< 0.003		06/14/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22060956</b>	Date Received : <b>06/09/2022</b>	Time Received : <b>2:24PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>23.1°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples 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 tagged 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 with in 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

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

Black Cassettes. No cooler was received; however, received in a box with a custody seal. ~JE 06/09/22

Received by : ██████████

Check in by/date : Jedralin / 06/09/2022

ab-s005-0321

Phone : ██████████

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/07/2022  
 Project Manager: [REDACTED] Address: 10100 East Fwy Ste. 100 Contact Name: [REDACTED] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)	
							Asbestos	Preservative:			
MSE01-060222	6/02/2022	1430	NA	NA	1	AA	X	None		456	<i>01A</i>
MSE02-060222	6/02/2022	1415	NA	NA	1	AA	X	None		452	<i>02A</i>
MSE01-060622	6/06/2022	1553	NA	NA	1	AA	X	Filter		526	<i>03A</i>
MSE02-060622	6/06/2022	1535	NA	NA	1	AA	X	Filter		529	<i>04A</i>

Job ID: 22060956



06/09/2022 GES - ASRC Industrial ACH

*N A*

Sampled By Label Signature: <u>[REDACTED]</u>	Sampler: <u>[REDACTED]</u>	Courier/Airbill No.: FedEx/ 7770 4821 4886				
Special Instructions: _____	Relinquished By/Affiliation: <u>[REDACTED]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
	<u>[REDACTED] / Gilbane</u>	<u>6/7/22</u>	<u>1600</u>	<u>Fedex</u>	<u>6/7/22</u>	<u>1600</u>
	<u>FCDEX</u>	<u>6-9-22</u>		<u>[REDACTED]</u>	<u>6-9-22</u>	<u>1424</u>
Send Results to: <u>[REDACTED]</u>						
Turnaround Time: <u>Standard</u>						

*TEMP: 23.1°C FR3*

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 07JUN22  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4490

BILL SENDER

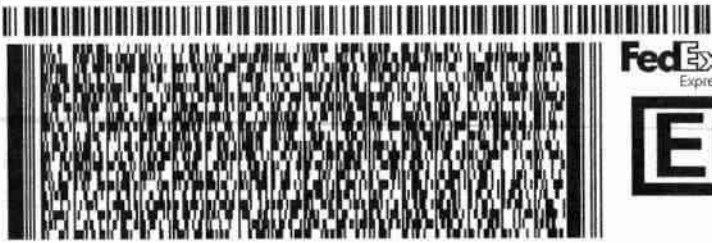
TO [REDACTED]

A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J3100040001804

INV PC DEPT



577.0274FEE4A

TRK# 7770 4821 4886  
0201

WED - 08 JUN 4:30P  
STANDARD OVERNIGHT

UL HBYA

77029 TX-US IAH



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CUS  
CUSTODY  
SEAL

# Laboratory Analysis Report

Job ID : 22061083



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/10/2022 14:50  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-060722	6/7/2022 15:55	Cassette	22061083.01
MSE02-060722	6/7/2022 15:30	Cassette	22061083.02
MSE01-060822	6/8/2022 15:15	Cassette	22061083.03
MSE02-060822	6/8/2022 15:10	Cassette	22061083.04

[REDACTED]  
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

6/17/2022



**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 6/17/2022

Job ID : 22061083  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22061083.01	MSE01-060722	06/07/2022	Area	2			540	1080	100	2.5	3.185	< 0.002		06/14/22	[REDACTED]
22061083.02	MSE02-060722	06/07/2022	Area	2			528	1056	100	7.5	9.554	0.003		06/14/22	[REDACTED]
22061083.03	MSE01-060822	06/08/2022	Area	2			503	1006	100	2.0	2.548	< 0.003		06/14/22	[REDACTED]
22061083.04	MSE02-060822	06/08/2022	Area	2			508	1016	100	15.5	19.745	0.007		06/14/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22061083</b>	Date Received : <b>06/10/2022</b>	Time Received : <b>2:50PM</b>																								
Client Name : <b>GES - ASRC Industrial</b>																										
Temperature : <b>23.0°C</b>	Sample pH : <b>NA</b>																									
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</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.	Matrix: <table style="display: inline-table; border: none; margin-left: 10px;"> <tr> <td style="padding: 0 5px;">Water</td> <td style="padding: 0 5px;">Soil</td> <td style="padding: 0 5px;">Liquid</td> <td style="padding: 0 5px;">Sludge</td> <td style="padding: 0 5px;">Solid</td> <td style="padding: 0 5px;">Cassette</td> <td style="padding: 0 5px;">Tube</td> <td style="padding: 0 5px;">Bulk</td> <td style="padding: 0 5px;">Badge</td> <td style="padding: 0 5px;">Food</td> <td style="padding: 0 5px;">Other</td> </tr> <tr> <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>	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"/>			
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.	Samples were received in appropriate container(s)	X																								
10.	Sample(s) were received with Proper preservative			X																						
11.	All samples were tagged 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 with in 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:**  
 Black Cassettes. No cooler was received; however, samples are received in cooler with custody seal. ~JE 06/10/22

Received by | ████████ ████████ ████████



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/09/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-060722	6/07/2022	1555	NA	NA	1	AA	X	None		540 01A
MSE02-060722	6/07/2022	1530	NA	NA	1	AA	X	None		528 02A
MSE01-060822	6/08/2022	1515	NA	NA	1	AA	X	None		503 03A
MSE02-060822	6/08/2022	1510	NA	NA	1	AA	X	None		508 04A

**Job ID:22061083**



06/10/2022 GES - ASRC Industrial ACH

N A

Sampled By: <u>[Redacted]</u>	Sampler: <u>GA</u>	Courier/Airbill No.: FedEx/ 7770 7463 3217			
Signature: <u>[Redacted]</u>	Rel: <u>[Redacted]</u>	Date: <u>6/9/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>FedEx</u>	Date: <u>6/10/22</u> Time: <u>1450</u>
Special Instructions: _____	<u>FEDEX</u>		<u>[Redacted]</u>		
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					

23.0  
10.5

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 09JUN22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4490

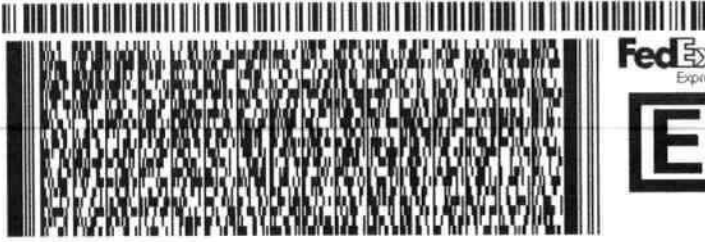
BILL SENDER

TO [REDACTED]  
**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF: J31000400001804

PO DEPT



577.02274F/E4A

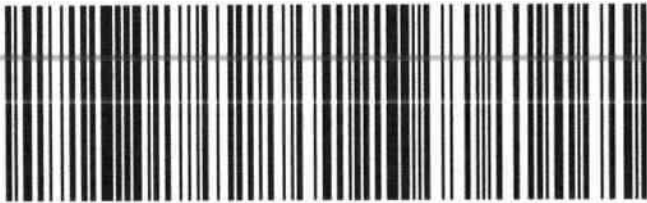
2202274F/E4A

**FRI - 10 JUN 4:30P**  
**STANDARD OVERNIGHT**

TRK# 7770 7463 3217  
0201

**UL HBYA**

77029  
TX-US IAH



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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. 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 ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**GEL Laboratories, LLC**  
Person Collecting Sample  
Date Collected 6/9/22  
**CUSTODY SEAL**  
Time Collected 16:30  
Sample No. [REDACTED]  
843-556-8171 • [www.gel.com](http://www.gel.com)

# Laboratory Analysis Report

Job ID : 22061463



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/15/2022 16:24  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-060922	6/7/2022 13:49	Cassette	22061463.01
MSE02-060922	6/7/2022 13:37	Cassette	22061463.02
MSE01-061322	6/13/2022 15:17	Cassette	22061463.03
MSE02-061322	6/13/2022 15:12	Cassette	22061463.04

[REDACTED]  
Released By: [REDACTED]  
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

6/22/2022





**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 6/22/2022

Job ID : 22061463  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22061463.01	MSE01-060922	06/07/2022	Area	2			423	846	100	3.5	4.459	< 0.003		06/22/22	[REDACTED]
22061463.02	MSE02-060922	06/07/2022	Area	2			423	846	100	5	6.369	< 0.003		06/22/22	[REDACTED]
22061463.03	MSE01-061322	06/13/2022	Area	2			492	984	100	12.0	15.287	0.006		06/22/22	[REDACTED]
22061463.04	MSE02-061322	06/13/2022	Area	2			509	1018	100	1.5	1.911	< 0.003		06/22/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



# Sample Condition Checklist

A&B JobID : <b>22061463</b>	Date Received : <b>06/15/2022</b>	Time Received : <b>4:24PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>22.8°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples 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 tagged 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 with in 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

**Comments : Include actions taken to resolve discrepancies/problem:**  
 Received samples in black cassettes. No cooler was received, however samples are received in a box with a custody seal. ~EV 6/15/2022

Received by : ██████████

Check in by/date : ██████████ / 06/15/2022

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/14/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
							None	Filter		
01A MSE01-060922	6/07/2022	1349	NA	NA	1	AA	X			423
02A MSE02-060922	6/07/2022	1337	NA	NA	1	AA	X			423
03A MSE01-061322	6/13/2022	1517	NA	NA	1	AA	X			492
04A MSE02-061322	6/13/2022	1512	NA	NA	1	AA	X			509

Job ID: 22061463



06/15/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sample: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7771 1190 0575				
Signature: <u>[Redacted]</u>	Relinquished By/Amiration: <u>[Redacted]</u>	Date: <u>06/14/22</u>	Time: <u>16:00</u>	Received By/ Affiliation: <u>FEDEX</u>	Date: <u>06/14/22</u>	Time: <u>16:00</u>
Special Instructions: _____	<u>Fedex</u>	<u>6/15/22</u>	<u>15:46</u>	<u>[Redacted]</u>	<u>6/15/22</u>	<u>15:46</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

22.8  
IR3  
W

UNITED STATES US  
 TO [REDACTED]  
**A & B LABS**  
 10100 EAST FREEWAY, SUITE 100  
 HOUSTON TX 77029  
 REF: J31000.400.00.18.04,  
 INVT. PO: DEPT:

577.0274FE4A



TRK# 7771 1190 0575  
 0201  
 WED - 15 JUN 4:30P  
 STANDARD OVERNIGHT

**UL HBYA**  
 77029  
 TX-US IAH

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Date Collected 06/14/2022  
 Person Collecting Sample [REDACTED]

**CUSTODY SEAL**  
 Sample No. [REDACTED]

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- About FedEx
- Our Portfolio
- Investor Relations
- Careers
- FedEx Blog
- Corporate Responsibility

# Laboratory Analysis Report

Job ID : 22061769



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/20/2022 08:49  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-061422	6/14/2022 15:10	Cassette	22061769.01
MSE02-061422	6/14/2022 15:05	Cassette	22061769.02
MSE01-061522	6/15/2022 14:54	Cassette	22061769.03
MSE02-061522	6/15/2022 14:48	Cassette	22061769.04

[REDACTED]  
Released By: [REDACTED]  
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

6/27/2022



**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 6/27/2022

Job ID : 22061769  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22061769.01	MSE01-061422	06/14/2022	Area	2			502	1004	100	12.0	15.287	0.006		06/22/22	[REDACTED]
22061769.02	MSE02-061422	06/14/2022	Area	2			511	1022	100	6.0	7.643	0.003		06/22/22	[REDACTED]
22061769.03	MSE01-061522	06/15/2022	Area	2			495	990	100	18.5	23.567	0.009		06/22/22	[REDACTED]
22061769.04	MSE02-061522	06/15/2022	Area	2			500	1000	100	8.5	10.828	0.004		06/22/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22061769</b>	Date Received : <b>06/20/2022</b>	Time Received : <b>8:49AM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>17.3°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>		X	
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples 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 tagged 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 with in 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

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

No cooler was received, however samples are received in a box with a custody seal. Received samples in black cassettes. COC was not signed by client. ~EV 6/20/2022

Received by : ██████████

Check in by/date : ██████████ / 06/20/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/16/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative: None Container Type: Filter		
01A MSE01-061422	6/14/2022	1510	NA	NA	1	AA	X		502	
02A MSE02-061422	6/14/2022	1505	NA	NA	1	AA	X		511	
03A MSE01-061522	6/15/2022	1454	NA	NA	1	AA	X		495	
04A MSE02-061522	6/15/2022	1448	NA	NA	1	AA	X		500	

**Job ID:22061769**



06/20/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted]  
 Signature: [Redacted]  
 Special Instructions: \_\_\_\_\_  
 Send Results to: [Redacted]  
 Turnaround Time: Standard

Sampler: [Redacted] Relinquish: [Redacted] Date: 6/16/22 Time: 1600 Received By/ Affiliation: FEDEX Date: 6/16/22 Time: 1600  
 Courier/Airbill No.: FedEx/ 7771 3757 3352  
FedEx 6/20/22 8:49 [Redacted] 6/20/22 8:49

17.3<sup>CO</sup> IR3 1m



ORIGIN ID: JCCA

SHIP DATE: 16JUN22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4490

200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

BILL SENDER

TO [REDACTED]

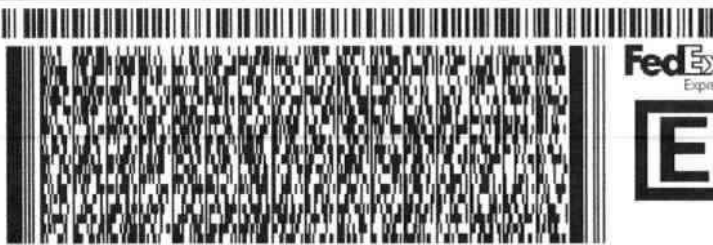
**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF: J31000.400.00.18.04

INV  
PO

DEPT



581.02/274F/FE4A

FedEx Ship Manager - Print Your Label(s)

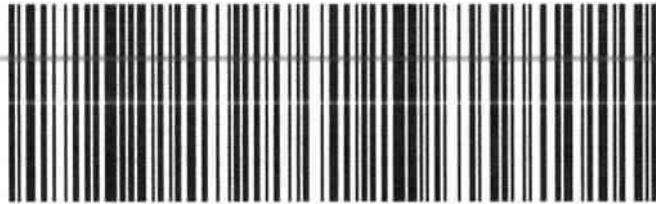
**FRI - 17 JUN 4:30P**

**STANDARD OVERNIGHT**

TRK# 7771 3757 3352  
0201

**UL HBYA**

77029  
TX-US IAH



**CUSTODY SEAL**

Person Collecting Sample [REDACTED] Sample  
(signature)

Date Collected 06/16/2022 Time Collected

**After printing this label:**

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning:** Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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# Laboratory Analysis Report

Job ID : 22062272



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/23/2022 15:17  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-061622	6/16/2022 14:16	Cassette	22062272.01
MSE02-061622	6/16/2022 13:47	Cassette	22062272.02

[REDACTED]  
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

6/30/2022



**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 6/30/2022

Job ID : 22062272  
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22062272.01	MSE01-061622	06/16/2022	Area	2			456	912	100	9.5	12.102	0.005		06/28/22	[REDACTED]
22062272.02	MSE02-061622	06/16/2022	Area	2			441	882	100	8.5	10.828	0.005		06/28/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22062272</b>	Date Received : <b>06/23/2022</b>	Time Received : <b>3:17PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>25.7°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples 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 tagged 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 with in 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

**Comments : Include actions taken to resolve discrepancies/problem:**  
 Black Cassettes. No cooler was received; however, samples are received in a box with custody seal. ~JE 06/23/22

Received by : ██████████

Check in by/date : ██████████ 06/23/2022

ab-s005-0321

Phone : ██████████

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs 6/21/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)	
							Asbestos	Preservative:			
MSE01-061622	6/16/2022	1416	NA	NA	1	AA	X	None		456	OIA
MSE02-061622	6/16/2022	1347	NA	NA	1	AA	X	Container Type: Filter		441	OIA

**Job ID:22062272**



06/23/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7771 8609 5454				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>[Redacted]</u>	<u>[Redacted]</u>	<u>06/23/22</u>	<u>1600</u>	<u>FEDEX</u>	<u>06/23/22</u>	<u>1517</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

ORIGINATOR [REDACTED]

200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 21JUN22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET4490

BILL SENDER

TO [REDACTED]

A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF. J31000.400.00 18.04

INV PO DEPT



561.0274FE4A

TRK# 7771 8609 5454  
0201

WED - 22 JUN 4:30P  
STANDARD OVERNIGHT

UL HBYA

77029 IAH  
TX-US



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CUSTODY SEAL

ing Sample [REDACTED] Sample No. \_\_\_\_\_  
 06/21/2022 Time Collected \_\_\_\_\_

# Laboratory Analysis Report

Job ID : 22062399



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/24/2022 15:34  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-062122	6/21/2022 15:27	Cassette	22062399.01
MSE02-062122	6/21/2022 15:15	Cassette	22062399.02
MSE01-062222	6/22/2022 16:05	Cassette	22062399.03
MSE02-062222	6/22/2022 15:59	Cassette	22062399.04

[REDACTED]  
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

7/1/2022



**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 7/1/2022

Job ID : 22062399  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22062399.01	MSE01-062122	06/21/2022	Area	2			509	1018	100	2.5	3.185	< 0.003		06/28/22	[REDACTED]
22062399.02	MSE02-062122	06/21/2022	Area	2			518	1036	100	3	3.822	< 0.003		06/28/22	[REDACTED]
22062399.03	MSE01-062222	06/22/2022	Area	2			552	1104	100	10.5	13.376	0.005		06/28/22	[REDACTED]
22062399.04	MSE02-062222	06/22/2022	Area	2			493	986	100	25.0	31.847	0.012		06/28/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts





# Sample Condition Checklist

A&B JobID : <b>22062399</b>	Date Received : <b>06/24/2022</b>	Time Received : <b>3:34PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>22.8°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</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.	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"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged 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 with in 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 are received in a box with a custody seal. Samples received in black cassettes. ~EV 6/24/2022

Received by |               

ab-s005-0321

Phone :

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/23/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

O1A  
O2A  
O3A  
O4A

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:		
MSE01-062122	6/21/2022	1527	NA	NA	1	AA	X	None		509
MSE02-062122	6/21/2022	1515	NA	NA	1	AA	X	None		518
MSE01-062222	6/22/2022	1605	NA	NA	1	AA	X	None		552
MSE02-062222	6/22/2022	1559	NA	NA	1	AA	X	None		493

Job ID: 22062399



06/24/2022 GES - ASRC Industrial ACH

N A

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7772 0005 0581

Signature: [Redacted] Date: 6/23/22 Time: 1600 Received By/ Affiliation: Fed Ex Date: 6/23/22 Time: 1600

Special Instruct: [Redacted] Fedex Date: 6/24/22 Time: 15:34 [Redacted] Date: 6/24/22 Time: 15:34

Send Results to: [Redacted]

Turnaround Time: Standard

22.8  
IR3  
9/

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

TO

A & B LABS  
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J310004001804

INV PO DEPT



581.027474FE4A

FRI - 24 JUN 4:30P

STANDARD OVERNIGHT

TRK# 7772 0005 0581  
0201

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**CUSTODY SEAL** 843-556-1

Sample No. [REDACTED]

Time Collected [REDACTED]

(signature)

13/22

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# Laboratory Analysis Report

Job ID : 22062837



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/29/2022 17:00  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-062322	6/23/2022 15:18	Cassette	22062837.01
MSE02-062322	6/23/2022 15:06	Cassette	22062837.02
MSE01-062722	6/27/2022 15:53	Cassette	22062837.03
MSE02-062722	6/27/2022 15:47	Cassette	22062837.04

[REDACTED]  
Released By: [REDACTED]  
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

7/7/2022



**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 7/7/2022

Job ID : 22062837  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22062837.01	MSE01-062322	06/23/2022	Area	2			534	1068	100	6.0	7.643	0.003		07/05/22	[REDACTED]
22062837.02	MSE02-062322	06/23/2022	Area	2			512	1024	100	11.0	14.013	0.005		07/05/22	[REDACTED]
22062837.03	MSE01-062722	06/27/2022	Area	2			530	1060	100	8.5	10.828	0.004		07/05/22	[REDACTED]
22062837.04	MSE02-062722	06/27/2022	Area	2			548	1096	100	4.0	5.096	< 0.002		07/05/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22062837</b>	Date Received : <b>06/29/2022</b>	Time Received : <b>5:00PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>19.8°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples 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 tagged 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 with in 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

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

Black Cassettes. No cooler was received; however, samples are received in a box with custody seal. ~JE 07/01/22

Received by : ██████████

Check in by/date : ██████████ / 07/01/2022

ab-s005-0321

Phone : ██████████

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# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/28/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

01A  
02A  
03A  
04A

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:		
MSE01-062322	6/23/2022	1518	NA	NA	1	AA	X	None		534
MSE02-062322	6/23/2022	1506	NA	NA	1	AA	X	None		512
MSE01-062722	6/27/2022	1553	NA	NA	1	AA	X	None		530
MSE02-062722	6/27/2022	1547	NA	NA	1	AA	X	None		548

Job ID: 22062837



06/29/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Date: <u>6/28/22</u> Time: <u>1600</u>		Courier/Airbill No.: <u>FedEx/ 7772 4000 0661</u>
Signature: <u>[Redacted]</u>	<u>[Redacted]</u>	Date: <u>6/28/22</u> Time: <u>1600</u>		Received By/ Affiliation: <u>FEDEX</u>
Special Instructions: _____	<u>FedEx</u>	Date: <u>6/28/22</u> Time: <u>1700</u>		<u>[Redacted]</u>
Send Results to: <u>[Redacted]</u>		Date: <u>6/28/22</u> Time: <u>1700</u>		<u>[Redacted]</u>
Turnaround Time: <u>Standard</u>				

19.8° IR3 JM

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET  
SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 28JUN22  
ACTWGT: 1.00 LB  
CAD: 254128867/NET4490

BILL SENDER

TO [REDACTED]  
**A & B LABS**  
10100 EAST FREEWAY, SUITE 100

**HOUSTON TX 77029**

REF: J31000.400 00.18.04

INV. PO DEPT.



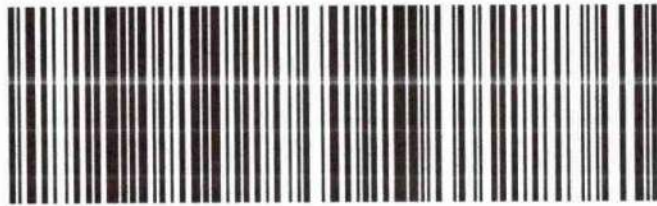
581.02074F/FE4A

WED - 29 JUN 4:30P  
STANDARD OVERNIGHT

TRK# 7772 4000 0661  
0201

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# Laboratory Analysis Report

Job ID : 22070108



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: GES - ASRC Industrial Total Number of Pages: 5  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 07/01/2022 15:50  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-062822	6/28/2022 15:57	Cassette	22070108.01
MSE02-062822	6/28/2022 15:52	Cassette	22070108.02
MSE01-062922	6/29/2022 15:19	Cassette	22070108.03
MSE02-062922	6/29/2022 15:25	Cassette	22070108.04

[REDACTED]  
Released By: [REDACTED]

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

7/11/2022



**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 7/11/2022

Job ID : 22070108  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22070108.01	MSE01-062822	06/28/2022	Area	2			555	1110	100	8	10.191	0.004		07/05/22	[REDACTED]
22070108.02	MSE02-062822	06/28/2022	Area	2			569	1138	100	2.0	2.548	< 0.002		07/05/22	[REDACTED]
22070108.03	MSE01-062922	06/29/2022	Area	2			522	1044	100	5	6.369	< 0.003		07/05/22	[REDACTED]
22070108.04	MSE02-062922	06/29/2022	Area	2			537	1074	100	2.5	3.185	< 0.003		07/05/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22070108</b>	Date Received : <b>07/01/2022</b>	Time Received : <b>3:50PM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>20.0°C</b>	Sample pH : <b>NA</b>			
Thermometer ID : <b>IR3</b>	pH Paper ID : <b>NA</b>			
Perservative :				
	<b>Check Points</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>1.</b>	<b>Cooler Seal present and signed.</b>	X		
<b>2.</b>	<b>Sample(s) in a cooler.</b>		X	
<b>3.</b>	<b>If yes, ice in cooler.</b>			X
<b>4.</b>	<b>Sample(s) received with chain-of-custody.</b>	X		
<b>5.</b>	<b>C-O-C signed and dated.</b>	X		
<b>6.</b>	<b>Sample(s) received with signed sample custody seal.</b>		X	
<b>7.</b>	<b>Sample containers arrived intact. (If No comment)</b>	X		
<b>8.</b>	<b>Matrix:</b> <b>Water</b> <b>Soil</b> <b>Liquid</b> <b>Sludge</b> <b>Solid</b> <b>Cassette</b> <b>Tube</b> <b>Bulk</b> <b>Badge</b> <b>Food</b> <b>Other</b> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples 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 tagged 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 with in 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

**Comments : Include actions taken to resolve discrepancies/problem:**  
 Black Cassettes. No cooler was received; however, samples are received in a box with custody seal. ~JE 07/01/22

Received by : ██████████

Check in by/date : ██████████ / 07/01/2022

ab-s005-0321



# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 6/30/2022  
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1  
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

## Job ID: 22070108



06/29/2022 GES - ASRC Industrial ACH

Analysis:

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Preservative: None	Container Type: Filter		
MSE01-062822	6/28/2022	1557	NA	NA	1	AA	X		555	01A
MSE02-062822	6/28/2022	1552	NA	NA	1	AA	X		569	02A
MSE01-062922	6/29/2022	1519	NA	NA	1	AA	X		522	03A
MSE02-062922	6/29/2022	1525	NA	NA	1	AA	X		537	04A
<i>NA</i>										

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7772 6318 5892	
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date: <u>6/30/22</u> Time: <u>1600</u>	Received By/ Affiliation: <u>[Redacted]</u> Date: <u>6/30/22</u> Time: <u>1600</u>
Special Instructions: <u>NONE</u>	<u>FEDEx</u>		<u>07/01/22 1550</u>
Send Results to: <u>[Redacted]</u>			<u>20.0°C</u> <u>12.3</u>
Turnaround Time: <u>Standard</u>			

ORIGIN ID: JCCA [REDACTED]

200 FISHER STREET

SAN FRANCISCO, CA 94124  
UNITED STATES US

SHIP DATE: 30JUN22  
ACTWGT: 1.00 LB  
CAD: 254128867/INET-4490

BILL SENDER

TO [REDACTED]

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

**HOUSTON TX 77029**

REF: J31000.400 00 18 04

PO DEPT.



581.02274FE54A

FRI - 01 JUL 4:30P

STANDARD OVERNIGHT

TRK# 7772 6318 5892  
0201

**UL HBYA**

77029 IAH  
TX-US



**After printing this label:**

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Time Collected [REDACTED]

Sample No. [REDACTED]

Date Collected [REDACTED]

Person Collecting Sample [REDACTED]

# Laboratory Analysis Report

Job ID : 22070715



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: GES - ASRC Industrial Total Number of Pages: 4  
Attn: [REDACTED] P.O.#. : J310000400-0015  
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 07/11/2022 07:37  
City, State, Zip: Tempe, Arizona, 85282 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
MSE01-063022	6/30/2022 13:27	Cassette	22070715.01
MSE02-063022	6/30/2022 13:18	Cassette	22070715.02

[REDACTED]  
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

7/18/2022



**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 7/18/2022

Job ID : 22070715  
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			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
22070715.01	MSE01-063022	06/30/2022	Area	2			406	812	100	6.5	8.280	0.004		07/15/22	[REDACTED]
22070715.02	MSE02-063022	06/30/2022	Area	2			408	816	100	7.5	9.554	0.005		07/15/22	[REDACTED]

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

Sr Value

(Fiber Range\*; Sr Value): (5-20; Sr = 0.06), (20-50; Sr = 0.05), (50-100; Sr = 0.04), (>100; Sr = 0.04)

\*Fiber Range = # of Fibers / 100 Counts



## Sample Condition Checklist

A&B JobID : <b>22070715</b>	Date Received : <b>07/11/2022</b>	Time Received : <b>7:37AM</b>		
Client Name : <b>GES - ASRC Industrial</b>				
Temperature : <b>20.3°C</b>	Sample pH : <b>N/A</b>			
Thermometer ID : <b>IR3</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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>9.</b>	<b>Samples 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 tagged 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 with in 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

**Comments : Include actions taken to resolve discrepancies/problem:**  
 No cooler was received, however samples are received in a box with a custody seal. ~TN

Received by : ██████████

Check in by/date : ██████████ / 07/11/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Event ID: Air Monitoring

Job ID: 22070715

COC# KT063022AAIR



07/11/2022 GES - ASRC Industrial ACH

# Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400  
Project Manager: [Redacted]  
Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: A&D Labs 7/07/2022  
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		
MSE01-063022	6/30/2022	1327	NA	NA	1	AA	X			406
MSE02-063022	6/30/2022	1318	NA	NA	1	AA	X			408
<i>48 7/12</i>										

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7773 1684 8243

Signature: [Redacted] Relinquished By/Amiation: [Redacted] Date: 7/7/22 Time: 1400 Received By/ Affiliation: Fed Ex Date: 7/7/22 Time: 1600

Special Instructions: NONE [Redacted] Gilbane [Redacted] Date: 7/1/22 Time: 0757

Send Results to: [Redacted]

Turnaround Time: Standard

*20.30 SR3 AN*

## ANALYTICAL REPORT

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

Laboratory Job ID: 320-88583-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:  
GES-AIS, LLC

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

Authorized for release by:  
6/14/2022 4:14:55 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



Have a Question?



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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.

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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

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**Job ID: 320-88583-1**

---

**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-88583-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/3/2022 10:45 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 20.5° C.

A revised COC was provided on June 6, 2022 via email correcting the volume for sample GILBANETSP042622-1918 from 1674.00 m3 to 1674.60m3. Copies of both COCs and the accompanying email are included in the report.

**Metals**

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

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# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

## Client Sample ID: GILBANEPM042622-1916

## Lab Sample ID: 320-88583-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0036		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0091		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1916

## Lab Sample ID: 320-88583-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	48.4778		0.3057	0.3057	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM042622-1917

## Lab Sample ID: 320-88583-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.018		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0074		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1917

## Lab Sample ID: 320-88583-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	49.9881		0.2906	0.2906	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM042622-1918

## Lab Sample ID: 320-88583-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0054		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	30		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1918

## Lab Sample ID: 320-88583-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.1006		0.2986	0.2986	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM042622-1919

## Lab Sample ID: 320-88583-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0081		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0054		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1919

## Lab Sample ID: 320-88583-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.7012		0.2858	0.2858	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

## Client Sample ID: GILBANEPM042622-1916

Lab Sample ID: 320-88583-1

Date Collected: 06/01/22 06:47

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036		0.00070	0.00011	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:16	1
Copper	0.029		0.0014	0.00011	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:16	1
Manganese	0.0091		0.00070	0.000098	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:16	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		0.29	0.29	ug/m3			06/07/22 09:00	1

## Client Sample ID: GILBANETSP042622-1916

Lab Sample ID: 320-88583-2

Date Collected: 06/01/22 06:47

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.4778		0.3057	0.3057	ug/m3 (Air)			06/07/22 09:00	1

## Client Sample ID: GILBANEPM042622-1917

Lab Sample ID: 320-88583-3

Date Collected: 06/01/22 06:38

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.00070	0.00010	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:25	1
Copper	0.018		0.0014	0.00010	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:25	1
Manganese	0.0074		0.00070	0.000098	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:25	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.29	0.29	ug/m3			06/07/22 09:00	1

## Client Sample ID: GILBANETSP042622-1917

Lab Sample ID: 320-88583-4

Date Collected: 06/01/22 06:38

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.9881		0.2906	0.2906	ug/m3 (Air)			06/07/22 09:00	1

## Client Sample ID: GILBANEPM042622-1918

Lab Sample ID: 320-88583-5

Date Collected: 06/02/22 06:55

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054		0.00068	0.00010	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:28	1
Copper	0.029		0.0014	0.00010	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:28	1
Manganese	0.011		0.00068	0.000096	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:28	1

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

**Client Sample ID: GILBANEPM042622-1918**

**Lab Sample ID: 320-88583-5**

Date Collected: 06/02/22 06:55

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	30		0.29	0.29	ug/m3			06/07/22 09:00	1

**Client Sample ID: GILBANETSP042622-1918**

**Lab Sample ID: 320-88583-6**

Date Collected: 06/02/22 06:55

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.1006		0.2986	0.2986	ug/m3 (Air)			06/07/22 09:00	1

**Client Sample ID: GILBANEPM042622-1919**

**Lab Sample ID: 320-88583-7**

Date Collected: 06/02/22 06:45

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00069	0.00010	ug/m3 (Air)		06/09/22 06:30	06/12/22 15:59	1
Copper	0.0081		0.0014	0.00010	ug/m3 (Air)		06/09/22 06:30	06/12/22 15:59	1
Manganese	0.0054		0.00069	0.000097	ug/m3 (Air)		06/09/22 06:30	06/12/22 15:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.29	0.29	ug/m3			06/07/22 09:00	1

**Client Sample ID: GILBANETSP042622-1919**

**Lab Sample ID: 320-88583-8**

Date Collected: 06/02/22 06:45

Matrix: Air

Date Received: 06/03/22 10:45

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.7012		0.2858	0.2858	ug/m3 (Air)			06/07/22 09:00	1



# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

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

**Lab Sample ID: MB 320-593982/1-B**  
**Matrix: Air**  
**Analysis Batch: 594538**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 593983**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:06	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:06	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/09/22 06:30	06/09/22 12:06	1

**Lab Sample ID: LCS 320-593982/2-B**  
**Matrix: Air**  
**Analysis Batch: 594538**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 593983**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.235		ug/m3 (Air)		98	86 - 111
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110
Manganese	0.240	0.244		ug/m3 (Air)		102	88 - 110

**Lab Sample ID: LCSD 320-593982/3-B**  
**Matrix: Air**  
**Analysis Batch: 594538**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 593983**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.227		ug/m3 (Air)		95	86 - 111	3	15
Copper	0.240	0.236		ug/m3 (Air)		98	85 - 110	2	15
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110	2	15

# QC Association Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

## Metals

### Pre Prep Batch: 593982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-1	GILBANEPM042622-1916	Total/NA	Air	Filter to Air	
320-88583-3	GILBANEPM042622-1917	Total/NA	Air	Filter to Air	
320-88583-5	GILBANEPM042622-1918	Total/NA	Air	Filter to Air	
320-88583-7	GILBANEPM042622-1919	Total/NA	Air	Filter to Air	
MB 320-593982/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-593982/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-593982/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 593983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-1	GILBANEPM042622-1916	Total/NA	Air	3050B	593982
320-88583-3	GILBANEPM042622-1917	Total/NA	Air	3050B	593982
320-88583-5	GILBANEPM042622-1918	Total/NA	Air	3050B	593982
320-88583-7	GILBANEPM042622-1919	Total/NA	Air	3050B	593982
MB 320-593982/1-B	Method Blank	Total/NA	Air	3050B	593982
LCS 320-593982/2-B	Lab Control Sample	Total/NA	Air	3050B	593982
LCSD 320-593982/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	593982

### Analysis Batch: 594538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-1	GILBANEPM042622-1916	Total/NA	Air	6020	593983
320-88583-3	GILBANEPM042622-1917	Total/NA	Air	6020	593983
320-88583-5	GILBANEPM042622-1918	Total/NA	Air	6020	593983
MB 320-593982/1-B	Method Blank	Total/NA	Air	6020	593983
LCS 320-593982/2-B	Lab Control Sample	Total/NA	Air	6020	593983
LCSD 320-593982/3-B	Lab Control Sample Dup	Total/NA	Air	6020	593983

### Analysis Batch: 595117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-7	GILBANEPM042622-1919	Total/NA	Air	6020	593983

## General Chemistry

### Pre Prep Batch: 594206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-2	GILBANETSP042622-1916	Total/NA	Air	Filter to Air	
320-88583-4	GILBANETSP042622-1917	Total/NA	Air	Filter to Air	
320-88583-6	GILBANETSP042622-1918	Total/NA	Air	Filter to Air	
320-88583-8	GILBANETSP042622-1919	Total/NA	Air	Filter to Air	

### Analysis Batch: 595171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-1	GILBANEPM042622-1916	Total/NA	Air	PM10	
320-88583-3	GILBANEPM042622-1917	Total/NA	Air	PM10	
320-88583-5	GILBANEPM042622-1918	Total/NA	Air	PM10	
320-88583-7	GILBANEPM042622-1919	Total/NA	Air	PM10	

### Analysis Batch: 595182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-2	GILBANETSP042622-1916	Total/NA	Air	40CFR50 App B	594206
320-88583-4	GILBANETSP042622-1917	Total/NA	Air	40CFR50 App B	594206

Eurofins Sacramento

# QC Association Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

## General Chemistry (Continued)

### Analysis Batch: 595182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88583-6	GILBANETSP042622-1918	Total/NA	Air	40CFR50 App B	594206
320-88583-8	GILBANETSP042622-1919	Total/NA	Air	40CFR50 App B	594206

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# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

**Client Sample ID: GILBANEPM042622-1916**

**Lab Sample ID: 320-88583-1**

Date Collected: 06/01/22 06:47

Matrix: Air

Date Received: 06/03/22 10:45

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					593982	06/09/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	593983	06/09/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			594538	06/09/22 12:16	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0585 g	595171	06/07/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP042622-1916**

**Lab Sample ID: 320-88583-2**

Date Collected: 06/01/22 06:47

Matrix: Air

Date Received: 06/03/22 10:45

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			595182	06/07/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	JMD	TAL SAC

**Client Sample ID: GILBANEPM042622-1917**

**Lab Sample ID: 320-88583-3**

Date Collected: 06/01/22 06:38

Matrix: Air

Date Received: 06/03/22 10:45

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					593982	06/09/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	593983	06/09/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			594538	06/09/22 12:25	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0503 g	595171	06/07/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP042622-1917**

**Lab Sample ID: 320-88583-4**

Date Collected: 06/01/22 06:38

Matrix: Air

Date Received: 06/03/22 10:45

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			595182	06/07/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	JMD	TAL SAC

**Client Sample ID: GILBANEPM042622-1918**

**Lab Sample ID: 320-88583-5**

Date Collected: 06/02/22 06:55

Matrix: Air

Date Received: 06/03/22 10:45

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					593982	06/09/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	593983	06/09/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			594538	06/09/22 12:28	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0521 g	595171	06/07/22 09:00	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

**Client Sample ID: GILBANETSP042622-1918**

**Lab Sample ID: 320-88583-6**

Date Collected: 06/02/22 06:55

Matrix: Air

Date Received: 06/03/22 10:45

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			595182	06/07/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	JMD	TAL SAC

**Client Sample ID: GILBANEPM042622-1919**

**Lab Sample ID: 320-88583-7**

Date Collected: 06/02/22 06:45

Matrix: Air

Date Received: 06/03/22 10:45

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					593982	06/09/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	593983	06/09/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			595117	06/12/22 15:59	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0368 g	595171	06/07/22 09:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP042622-1919**

**Lab Sample ID: 320-88583-8**

Date Collected: 06/02/22 06:45

Matrix: Air

Date Received: 06/03/22 10:45

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			595182	06/07/22 09:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	JMD	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

## Laboratory: Eurofins 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	01-29-23

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

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# Method Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88583-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88583-1	GILBANEPM042622-1916	Air	06/01/22 06:47	06/03/22 10:45
320-88583-2	GILBANETSP042622-1916	Air	06/01/22 06:47	06/03/22 10:45
320-88583-3	GILBANEPM042622-1917	Air	06/01/22 06:38	06/03/22 10:45
320-88583-4	GILBANETSP042622-1917	Air	06/01/22 06:38	06/03/22 10:45
320-88583-5	GILBANEPM042622-1918	Air	06/02/22 06:55	06/03/22 10:45
320-88583-6	GILBANETSP042622-1918	Air	06/02/22 06:55	06/03/22 10:45
320-88583-7	GILBANEPM042622-1919	Air	06/02/22 06:45	06/03/22 10:45
320-88583-8	GILBANETSP042622-1919	Air	06/02/22 06:45	06/03/22 10:45

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**CHAIN-OF-CUSTODY RECORD**

Gilbane Federal  
 2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # **KT060222AIR**



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring June 2022
Project Number: J310000400	POC: [REDACTED]	
WBS Code: J310000400-016	Ship to: [REDACTED]	

Comments:  <b>1. 1674.60 KJ 6/6/22</b>	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	



Event: Parcel E Phase 2 Air Monitoring June 2022																	
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	GILBANEPM042622-1916	A	06/01/2022	0647	KT	X		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1713.26 (M3)
2	GILBANETSP042622-1916	A	06/01/2022	0647	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1635.80 (M3)
3	GILBANEPM042622-1917	A	06/01/2022	0638	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1714.92 (M3)
4	GILBANETSP042622-1917	A	06/01/2022	0638	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1720.41 (M3)
5	GILBANEPM042622-1918	A	06/02/2022	0655	KT	X		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1752.00 (M3)
6	GILBANETSP042622-1918	A	06/02/2022	0655	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: <del>1674.00</del> (M3)
7	GILBANEPM042622-1919	A	06/02/2022	0645	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1740.82 (M3)
8	GILBANETSP042622-1919	A	06/02/2022	0645	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1749.26 (M3)
9																	
10																	

TP 6/2/22

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[REDACTED]	6/2/22	1600	Fedex	6/2/22	1600	Shipping Date: 6/2/2022 / FedEx 7770 1160 9560
			[REDACTED]	6-3-22	1045	
						Received by Laboratory: (Signature, Date, Time) & condition

20.5




**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT060222AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	<b>Event:</b> Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400		
<b>WBS Code:</b> J310000400-016		

<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>		 320-88583 Chain of Custody	

Event: Parcel E Phase 2 Air Monitoring June 2022																				
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																	Top	Bottom		
1	GILBANETSP042622-1916	A	06/01/2022	0647	KT	X		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1713.26 (M3)
2	GILBANETSP042622-1916	A	06/01/2022	0647	KT		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1635.80 (M3)
3	GILBANETSP042622-1917	A	06/01/2022	0638	KT	X		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1714.92 (M3)
4	GILBANETSP042622-1917	A	06/01/2022	0638	KT		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1720.41 (M3)
5	GILBANETSP042622-1918	A	06/02/2022	0655	KT	X		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1752.00 (M3)
6	GILBANETSP042622-1918	A	06/02/2022	0655	KT		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1674.00 (M3)
7	GILBANETSP042622-1919	A	06/02/2022	0645	KT	X		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1740.82 (M3)
8	GILBANETSP042622-1919	A	06/02/2022	0645	KT		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1749.26 (M3)
9																				
10																				

Turnaround Time: 5 days

	<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>	<b>Date</b>	<b>Time</b>	<b>Shipping Date / Carrier / Airbill Number</b>
	6/2/22	1600	Fedex	6/2/22	1600	Shipping Date: 6/2/2022 / FedEx 7770 1160 9560
				6-3-22	1645	
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

20.5

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6/14/2022



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88583-1

**Login Number: 88583**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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[Redacted]

**From:** [Redacted] >  
**Sent:** Monday, June 6, 2022 11:38 AM  
**To:** [Redacted]  
**Cc:** [Redacted]  
**Subject:** Updated COC 320-88583-1 (KT060222AIR) Hunters Point, Parcel E, Phase 2  
**Attachments:** COC 320-88583 (202206032243) (002).pdf

EXTERNAL EMAIL\*

Hi [Redacted]

Attached is the updated COC for 320-88583-1 Hunters Point, Parcel E, Phase 2 (KT060222AIR).

Error: The volume for GILBANETSP042622-1918 should be 1674.60 and not 1674.00.

Please let me know if you have any questions.

Thank you,

[Redacted]  
GES - ASRC Industrial | [Redacted]  
Denver, CO  
[Redacted]

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



---

**From:** [Redacted]  
[Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

**CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.**

Hello,

Attached please find the sample confirmation files for job 320-88583-1; Hunters Point, Parcel E, Phase 2

Please feel free to contact me or your PM [REDACTED] if you have any questions.

Thank you.

[REDACTED]  
Project Manager Assistant

Eurofins Sacramento

[REDACTED]  
[REDACTED] [v](#)



Reference: [320-448410]  
Attachments: 2

\* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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## ANALYTICAL REPORT

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

Laboratory Job ID: 320-88848-1

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

For:

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

Authorized for release by:  
6/16/2022 5:29:49 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



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.



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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

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**Job ID: 320-88848-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-88848-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/9/2022 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 20.4° C.

**Metals**

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

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# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

## Client Sample ID: GILBANEPM042622-1920

## Lab Sample ID: 320-88848-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0058		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	17		0.92	0.92	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1920

## Lab Sample ID: 320-88848-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.8174		0.9619	0.9619	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM042622-1921

## Lab Sample ID: 320-88848-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0067		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.032		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	18		0.93	0.93	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1921

## Lab Sample ID: 320-88848-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.5814		0.9217	0.9217	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM042622-1922

## Lab Sample ID: 320-88848-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0057		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1922

## Lab Sample ID: 320-88848-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.0293		0.3037	0.3037	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM042622-1923

## Lab Sample ID: 320-88848-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.014		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0031		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	17		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP042622-1923

## Lab Sample ID: 320-88848-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	33.7198		0.2907	0.2907	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

## Client Sample ID: GILBANEPM042622-1920

Lab Sample ID: 320-88848-1

Date Collected: 06/02/22 14:27

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025		0.0022	0.00033	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:07	1
Copper	0.024		0.0044	0.00033	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:07	1
Manganese	0.0058		0.0022	0.00031	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:07	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	17		0.92	0.92	ug/m3			06/10/22 15:30	1

## Client Sample ID: GILBANETSP042622-1920

Lab Sample ID: 320-88848-2

Date Collected: 06/02/22 14:27

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.8174		0.9619	0.9619	ug/m3 (Air)			06/10/22 15:30	1

## Client Sample ID: GILBANEPM042622-1921

Lab Sample ID: 320-88848-3

Date Collected: 06/02/22 14:16

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0067		0.0022	0.00033	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:16	1
Copper	0.032		0.0044	0.00033	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:16	1
Manganese	0.012		0.0022	0.00031	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:16	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18		0.93	0.93	ug/m3			06/10/22 15:30	1

## Client Sample ID: GILBANETSP042622-1921

Lab Sample ID: 320-88848-4

Date Collected: 06/02/22 14:16

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.5814		0.9217	0.9217	ug/m3 (Air)			06/10/22 15:30	1

## Client Sample ID: GILBANEPM042622-1922

Lab Sample ID: 320-88848-5

Date Collected: 06/07/22 06:56

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0057		0.00070	0.00010	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:20	1
Copper	0.029		0.0014	0.00010	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:20	1
Manganese	0.011		0.00070	0.000098	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:20	1

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# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

**Client Sample ID: GILBANEPM042622-1922**

**Lab Sample ID: 320-88848-5**

Date Collected: 06/07/22 06:56

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			06/10/22 15:30	1

**Client Sample ID: GILBANETSP042622-1922**

**Lab Sample ID: 320-88848-6**

Date Collected: 06/07/22 06:56

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.0293		0.3037	0.3037	ug/m3 (Air)			06/10/22 15:30	1

**Client Sample ID: GILBANEPM042622-1923**

**Lab Sample ID: 320-88848-7**

Date Collected: 06/07/22 06:44

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:23	1
Copper	0.014		0.0014	0.00010	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:23	1
Manganese	0.0031		0.00069	0.000097	ug/m3 (Air)		06/14/22 06:00	06/14/22 12:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	17		0.29	0.29	ug/m3			06/10/22 15:30	1

**Client Sample ID: GILBANETSP042622-1923**

**Lab Sample ID: 320-88848-8**

Date Collected: 06/07/22 06:44

Matrix: Air

Date Received: 06/09/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.7198		0.2907	0.2907	ug/m3 (Air)			06/10/22 15:30	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

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

**Lab Sample ID: MB 320-595254/1-B**  
**Matrix: Air**  
**Analysis Batch: 595365**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 595257**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/14/22 06:00	06/14/22 11:57	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/14/22 06:00	06/14/22 11:57	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/14/22 06:00	06/14/22 11:57	1

**Lab Sample ID: LCS 320-595254/2-B**  
**Matrix: Air**  
**Analysis Batch: 595365**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 595257**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.236		ug/m3 (Air)		98	86 - 111
Copper	0.240	0.248		ug/m3 (Air)		103	85 - 110
Manganese	0.240	0.254		ug/m3 (Air)		106	88 - 110

**Lab Sample ID: LCSD 320-595254/3-B**  
**Matrix: Air**  
**Analysis Batch: 595365**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 595257**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.241		ug/m3 (Air)		101	86 - 111	2	15
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	2	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	3	15

# QC Association Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

## Metals

### Pre Prep Batch: 595254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88848-1	GILBANEPM042622-1920	Total/NA	Air	Filter to Air	
320-88848-3	GILBANEPM042622-1921	Total/NA	Air	Filter to Air	
320-88848-5	GILBANEPM042622-1922	Total/NA	Air	Filter to Air	
320-88848-7	GILBANEPM042622-1923	Total/NA	Air	Filter to Air	
MB 320-595254/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-595254/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-595254/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 595257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88848-1	GILBANEPM042622-1920	Total/NA	Air	3050B	595254
320-88848-3	GILBANEPM042622-1921	Total/NA	Air	3050B	595254
320-88848-5	GILBANEPM042622-1922	Total/NA	Air	3050B	595254
320-88848-7	GILBANEPM042622-1923	Total/NA	Air	3050B	595254
MB 320-595254/1-B	Method Blank	Total/NA	Air	3050B	595254
LCS 320-595254/2-B	Lab Control Sample	Total/NA	Air	3050B	595254
LCSD 320-595254/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	595254

### Analysis Batch: 595365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88848-1	GILBANEPM042622-1920	Total/NA	Air	6020	595257
320-88848-3	GILBANEPM042622-1921	Total/NA	Air	6020	595257
320-88848-5	GILBANEPM042622-1922	Total/NA	Air	6020	595257
320-88848-7	GILBANEPM042622-1923	Total/NA	Air	6020	595257
MB 320-595254/1-B	Method Blank	Total/NA	Air	6020	595257
LCS 320-595254/2-B	Lab Control Sample	Total/NA	Air	6020	595257
LCSD 320-595254/3-B	Lab Control Sample Dup	Total/NA	Air	6020	595257

## General Chemistry

### Pre Prep Batch: 595934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88848-2	GILBANETSP042622-1920	Total/NA	Air	Filter to Air	
320-88848-4	GILBANETSP042622-1921	Total/NA	Air	Filter to Air	
320-88848-6	GILBANETSP042622-1922	Total/NA	Air	Filter to Air	
320-88848-8	GILBANETSP042622-1923	Total/NA	Air	Filter to Air	

### Analysis Batch: 596051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88848-1	GILBANEPM042622-1920	Total/NA	Air	PM10	
320-88848-3	GILBANEPM042622-1921	Total/NA	Air	PM10	
320-88848-5	GILBANEPM042622-1922	Total/NA	Air	PM10	
320-88848-7	GILBANEPM042622-1923	Total/NA	Air	PM10	

### Analysis Batch: 596059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88848-2	GILBANETSP042622-1920	Total/NA	Air	40CFR50 App B	595934
320-88848-4	GILBANETSP042622-1921	Total/NA	Air	40CFR50 App B	595934
320-88848-6	GILBANETSP042622-1922	Total/NA	Air	40CFR50 App B	595934
320-88848-8	GILBANETSP042622-1923	Total/NA	Air	40CFR50 App B	595934

Eurofins Sacramento

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

**Client Sample ID: GILBANEPM042622-1920**

**Lab Sample ID: 320-88848-1**

Date Collected: 06/02/22 14:27

Matrix: Air

Date Received: 06/09/22 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					595254	06/14/22 05:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	595257	06/14/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			595365	06/14/22 12:07	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0095 g	596051	06/10/22 15:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP042622-1920**

**Lab Sample ID: 320-88848-2**

Date Collected: 06/02/22 14:27

Matrix: Air

Date Received: 06/09/22 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			596059	06/10/22 15:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM042622-1921**

**Lab Sample ID: 320-88848-3**

Date Collected: 06/02/22 14:16

Matrix: Air

Date Received: 06/09/22 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					595254	06/14/22 05:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	595257	06/14/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			595365	06/14/22 12:16	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0098 g	596051	06/10/22 15:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP042622-1921**

**Lab Sample ID: 320-88848-4**

Date Collected: 06/02/22 14:16

Matrix: Air

Date Received: 06/09/22 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			596059	06/10/22 15:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM042622-1922**

**Lab Sample ID: 320-88848-5**

Date Collected: 06/07/22 06:56

Matrix: Air

Date Received: 06/09/22 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					595254	06/14/22 05:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	595257	06/14/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			595365	06/14/22 12:20	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0537 g	596051	06/10/22 15:30	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

**Client Sample ID: GILBANETSP042622-1922**

**Lab Sample ID: 320-88848-6**

Date Collected: 06/07/22 06:56

Matrix: Air

Date Received: 06/09/22 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			596059	06/10/22 15:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM042622-1923**

**Lab Sample ID: 320-88848-7**

Date Collected: 06/07/22 06:44

Matrix: Air

Date Received: 06/09/22 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					595254	06/14/22 05:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	595257	06/14/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			595365	06/14/22 12:23	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0287 g	596051	06/10/22 15:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP042622-1923**

**Lab Sample ID: 320-88848-8**

Date Collected: 06/07/22 06:44

Matrix: Air

Date Received: 06/09/22 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			596059	06/10/22 15:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Laboratory References:**

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



# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

## Laboratory: Eurofins 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	01-29-23

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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88848-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88848-1	GILBANEPM042622-1920	Air	06/02/22 14:27	06/09/22 09:30
320-88848-2	GILBANETSP042622-1920	Air	06/02/22 14:27	06/09/22 09:30
320-88848-3	GILBANEPM042622-1921	Air	06/02/22 14:16	06/09/22 09:30
320-88848-4	GILBANETSP042622-1921	Air	06/02/22 14:16	06/09/22 09:30
320-88848-5	GILBANEPM042622-1922	Air	06/07/22 06:56	06/09/22 09:30
320-88848-6	GILBANETSP042622-1922	Air	06/07/22 06:56	06/09/22 09:30
320-88848-7	GILBANEPM042622-1923	Air	06/07/22 06:44	06/09/22 09:30
320-88848-8	GILBANETSP042622-1923	Air	06/07/22 06:44	06/09/22 09:30

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**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
 2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT060722AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	<b>Event:</b> Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400		
<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>			 320-88848 Chain of Custody	

Event: Parcel E Phase 2 Air Monitoring June 2022																				
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																	Top	Bottom		
1	GILBANEPM042622-1920	A	06/02/2022	1427	KT	X		X							AMSE1	N2	0.00	0.00	1	VOLUME: 543.58 (M3)
2	GILBANETSP042622-1920	A	06/02/2022	1427	KT		X								AMSE1	N2	0.00	0.00	1	VOLUME: 519.83 (M3)
3	GILBANEPM042622-1921	A	06/02/2022	1416	KT	X		X							AMSE2	N2	0.00	0.00	1	VOLUME: 540.47 (M3)
4	GILBANETSP042622-1921	A	06/02/2022	1416	KT		X								AMSE2	N2	0.00	0.00	1	VOLUME: 542.49 (M3)
5	GILBANEPM042622-1922	A	06/07/2022	0656	KT	X		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1721.17 (M3)
6	GILBANETSP042622-1922	A	06/07/2022	0656	KT		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1646.47 (M3)
7	GILBANEPM042622-1923	A	06/07/2022	0644	KT	X		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1728.01 (M3)
8	GILBANETSP042622-1923	A	06/07/2022	0644	KT		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1720.06 (M3)
9																				
10																				

**Turnaround Time: 5 days**

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	6/7/22	16:00	Fed Ex	6/7/22	16:00	Shipping Date: 6/7/2022/ FedEx 7770 4826 1962
			EE150	6-9-22	09:35	
						Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy\_COC\_Field  
June 07, 2022

20.4°C



## Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88848-1

**Login Number: 88848**

**List Source: Eurofins Sacramento**

**List Number: 1**

**Creator:** ██████████

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

Laboratory Job ID: 320-88934-1

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

[REDACTED]

Authorized for release by:  
6/17/2022 5:28:32 PM

[REDACTED]

### LINKS

Review your project  
results through



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.

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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

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**Job ID: 320-88934-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-88934-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/10/2022 9:10 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 19.8° C.

**Metals**

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

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# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

## Client Sample ID: GILBANEPM051122-1942

## Lab Sample ID: 320-88934-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0081		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.063		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1942

## Lab Sample ID: 320-88934-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	45.5590		0.3009	0.3009	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM051122-1943

## Lab Sample ID: 320-88934-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0054		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.037		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1943

## Lab Sample ID: 320-88934-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.1660		0.2881	0.2881	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM051122-1947

## Lab Sample ID: 320-88934-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.049		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0067		0.00069	0.000097	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: GILBANETSP051122-1947

## Lab Sample ID: 320-88934-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.9549		0.3014	0.3014	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM051122-1948

## Lab Sample ID: 320-88934-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0013		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0033		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0055		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	17		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1948

## Lab Sample ID: 320-88934-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.9497		0.2896	0.2896	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

## Client Sample ID: GILBANEPM051122-1942

## Lab Sample ID: 320-88934-1

Date Collected: 06/08/22 06:53

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0081		0.00069	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:33	1
Copper	0.063		0.0014	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:33	1
Manganese	0.013		0.00069	0.000097	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:33	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		0.29	0.29	ug/m3			06/14/22 10:30	1

## Client Sample ID: GILBANETSP051122-1942

## Lab Sample ID: 320-88934-2

Date Collected: 06/08/22 06:53

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.5590		0.3009	0.3009	ug/m3 (Air)			06/14/22 10:30	1

## Client Sample ID: GILBANEPM051122-1943

## Lab Sample ID: 320-88934-3

Date Collected: 06/08/22 06:42

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054		0.00069	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:43	1
Copper	0.037		0.0014	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:43	1
Manganese	0.011		0.00069	0.000097	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:43	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.29	0.29	ug/m3			06/14/22 10:30	1

## Client Sample ID: GILBANETSP051122-1943

## Lab Sample ID: 320-88934-4

Date Collected: 06/08/22 06:42

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.1660		0.2881	0.2881	ug/m3 (Air)			06/14/22 10:30	1

## Client Sample ID: GILBANEPM051122-1947

## Lab Sample ID: 320-88934-5

Date Collected: 06/09/22 06:47

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:46	1
Copper	0.049		0.0014	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:46	1
Manganese	0.0067		0.00069	0.000097	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:46	1

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# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

**Client Sample ID: GILBANEPM051122-1947**

**Lab Sample ID: 320-88934-5**

Date Collected: 06/09/22 06:47

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

**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			06/14/22 10:30	1

**Client Sample ID: GILBANETSP051122-1947**

**Lab Sample ID: 320-88934-6**

Date Collected: 06/09/22 06:47

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.9549		0.3014	0.3014	ug/m3 (Air)			06/14/22 10:30	1

**Client Sample ID: GILBANEPM051122-1948**

**Lab Sample ID: 320-88934-7**

Date Collected: 06/09/22 06:35

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0013		0.00070	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:49	1
Copper	0.0033		0.0014	0.00010	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:49	1
Manganese	0.0055		0.00070	0.000097	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	17		0.29	0.29	ug/m3			06/14/22 10:30	1

**Client Sample ID: GILBANETSP051122-1948**

**Lab Sample ID: 320-88934-8**

Date Collected: 06/09/22 06:35

Matrix: Air

Date Received: 06/10/22 09:10

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.9497		0.2896	0.2896	ug/m3 (Air)			06/14/22 10:30	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

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

**Lab Sample ID: MB 320-596177/1-B**  
**Matrix: Air**  
**Analysis Batch: 596313**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 596185**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:24	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:24	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/17/22 06:40	06/17/22 12:24	1

**Lab Sample ID: LCS 320-596177/2-B**  
**Matrix: Air**  
**Analysis Batch: 596313**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 596185**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.227		ug/m3 (Air)		94	86 - 111
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.244		ug/m3 (Air)		102	88 - 110

**Lab Sample ID: LCSD 320-596177/3-B**  
**Matrix: Air**  
**Analysis Batch: 596313**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 596185**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.229		ug/m3 (Air)		96	86 - 111	1	15
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	1	15

# QC Association Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

## Metals

### Pre Prep Batch: 596177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88934-1	GILBANEPM051122-1942	Total/NA	Air	Filter to Air	
320-88934-3	GILBANEPM051122-1943	Total/NA	Air	Filter to Air	
320-88934-5	GILBANEPM051122-1947	Total/NA	Air	Filter to Air	
320-88934-7	GILBANEPM051122-1948	Total/NA	Air	Filter to Air	
MB 320-596177/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-596177/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-596177/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 596185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88934-1	GILBANEPM051122-1942	Total/NA	Air	3050B	596177
320-88934-3	GILBANEPM051122-1943	Total/NA	Air	3050B	596177
320-88934-5	GILBANEPM051122-1947	Total/NA	Air	3050B	596177
320-88934-7	GILBANEPM051122-1948	Total/NA	Air	3050B	596177
MB 320-596177/1-B	Method Blank	Total/NA	Air	3050B	596177
LCS 320-596177/2-B	Lab Control Sample	Total/NA	Air	3050B	596177
LCSD 320-596177/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	596177

### Analysis Batch: 596313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88934-1	GILBANEPM051122-1942	Total/NA	Air	6020	596185
320-88934-3	GILBANEPM051122-1943	Total/NA	Air	6020	596185
320-88934-5	GILBANEPM051122-1947	Total/NA	Air	6020	596185
320-88934-7	GILBANEPM051122-1948	Total/NA	Air	6020	596185
MB 320-596177/1-B	Method Blank	Total/NA	Air	6020	596185
LCS 320-596177/2-B	Lab Control Sample	Total/NA	Air	6020	596185
LCSD 320-596177/3-B	Lab Control Sample Dup	Total/NA	Air	6020	596185

## General Chemistry

### Pre Prep Batch: 595934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88934-2	GILBANETSP051122-1942	Total/NA	Air	Filter to Air	
320-88934-4	GILBANETSP051122-1943	Total/NA	Air	Filter to Air	
320-88934-6	GILBANETSP051122-1947	Total/NA	Air	Filter to Air	
320-88934-8	GILBANETSP051122-1948	Total/NA	Air	Filter to Air	

### Analysis Batch: 596443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88934-1	GILBANEPM051122-1942	Total/NA	Air	PM10	
320-88934-3	GILBANEPM051122-1943	Total/NA	Air	PM10	
320-88934-5	GILBANEPM051122-1947	Total/NA	Air	PM10	
320-88934-7	GILBANEPM051122-1948	Total/NA	Air	PM10	

### Analysis Batch: 596449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88934-2	GILBANETSP051122-1942	Total/NA	Air	40CFR50 App B	595934
320-88934-4	GILBANETSP051122-1943	Total/NA	Air	40CFR50 App B	595934
320-88934-6	GILBANETSP051122-1947	Total/NA	Air	40CFR50 App B	595934
320-88934-8	GILBANETSP051122-1948	Total/NA	Air	40CFR50 App B	595934

Eurofins Sacramento

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

**Client Sample ID: GILBANEPM051122-1942**

**Lab Sample ID: 320-88934-1**

**Date Collected: 06/08/22 06:53**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					596177	06/17/22 06:16	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	596185	06/17/22 06:40	DPM	TAL SAC
Total/NA	Analysis	6020		1			596313	06/17/22 12:33	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0599 g	596443	06/14/22 10:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP051122-1942**

**Lab Sample ID: 320-88934-2**

**Date Collected: 06/08/22 06:53**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

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			596449	06/14/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM051122-1943**

**Lab Sample ID: 320-88934-3**

**Date Collected: 06/08/22 06:42**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					596177	06/17/22 06:16	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	596185	06/17/22 06:40	DPM	TAL SAC
Total/NA	Analysis	6020		1			596313	06/17/22 12:43	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0507 g	596443	06/14/22 10:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP051122-1943**

**Lab Sample ID: 320-88934-4**

**Date Collected: 06/08/22 06:42**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

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			596449	06/14/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM051122-1947**

**Lab Sample ID: 320-88934-5**

**Date Collected: 06/09/22 06:47**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					596177	06/17/22 06:16	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	596185	06/17/22 06:40	DPM	TAL SAC
Total/NA	Analysis	6020		1			596313	06/17/22 12:46	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0390 g	596443	06/14/22 10:30	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

**Client Sample ID: GILBANETSP051122-1947**

**Lab Sample ID: 320-88934-6**

**Date Collected: 06/09/22 06:47**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

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			596449	06/14/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Client Sample ID: GILBANEPM051122-1948**

**Lab Sample ID: 320-88934-7**

**Date Collected: 06/09/22 06:35**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					596177	06/17/22 06:16	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	596185	06/17/22 06:40	DPM	TAL SAC
Total/NA	Analysis	6020		1			596313	06/17/22 12:49	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0293 g	596443	06/14/22 10:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP051122-1948**

**Lab Sample ID: 320-88934-8**

**Date Collected: 06/09/22 06:35**

**Matrix: Air**

**Date Received: 06/10/22 09:10**

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			596449	06/14/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					595934	06/16/22 10:29	JMD	TAL SAC

**Laboratory References:**

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



# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

## Laboratory: Eurofins 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	01-29-23

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

- 1
- 2
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# Method Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-88934-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88934-1	GILBANEPM051122-1942	Air	06/08/22 06:53	06/10/22 09:10
320-88934-2	GILBANETSP051122-1942	Air	06/08/22 06:53	06/10/22 09:10
320-88934-3	GILBANEPM051122-1943	Air	06/08/22 06:42	06/10/22 09:10
320-88934-4	GILBANETSP051122-1943	Air	06/08/22 06:42	06/10/22 09:10
320-88934-5	GILBANEPM051122-1947	Air	06/09/22 06:47	06/10/22 09:10
320-88934-6	GILBANETSP051122-1947	Air	06/09/22 06:47	06/10/22 09:10
320-88934-7	GILBANEPM051122-1948	Air	06/09/22 06:35	06/10/22 09:10
320-88934-8	GILBANETSP051122-1948	Air	06/09/22 06:35	06/10/22 09:10

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**CHAIN-OF-CUSTODY RECORD**

Gilbane Federal  
 2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT060922AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400		
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<p><b>Comments:</b></p>  <p><b>Equipment:</b></p>	<p><b>Analytical Test Method</b></p> <p>CAAIR - Air PM10          N0500 - Air TSP          SW6020 - Air Pb Mn Cu</p>	<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 June 2022																
						1	1	1								
Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
1	GILBANEPM051122-1942	A	06/08/2022	0653	KT	X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1739.32 (M3)
2	GILBANETSP051122-1942	A	06/08/2022	0653	KT		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1661.58 (M3)
3	GILBANEPM051122-1943	A	06/08/2022	0642	KT	X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1737.40 (M3)
4	GILBANETSP051122-1943	A	06/08/2022	0642	KT		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1735.30 (M3)
5	GILBANEPM051122-1947	A	06/09/2022	0647	KT	X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1736.78 (M3)
6	GILBANETSP051122-1947	A	06/09/2022	0647	KT		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1659.16 (M3)
7	GILBANEPM051122-1948	A	06/09/2022	0635	KT	X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1724.47 (M3)
8	GILBANETSP051122-1948	A	06/09/2022	0635	KT		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1726.67 (M3)
9																
10																

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted Signature]	6/9/22	16:00	Fed Ex	6/9/22	16:00	Shipping Date: 6/9/2022 / FedEx 7770 7465 3079
			[Redacted Signature]	6-10-22	0900	
						Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy\_COC\_Field  
June 09, 2022

198



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88934-1

**Login Number: 88934**

**List Source: Eurofins 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.	N/A	
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 Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-89095-1

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

For:

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

Authorized for release by:  
6/22/2022 4:30:39 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



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.

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- 2
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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

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**Job ID: 320-89095-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-89095-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/15/2022 9:35 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 20.4° C.

**Metals**

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

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# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

## Client Sample ID: GILBANEPM051122-1949

## Lab Sample ID: 320-89095-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.0024	0.00036	ug/m3 (Air)	1		6020	Total/NA
Copper	0.10		0.0048	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012	B	0.0024	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37		0.99	0.99	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1949

## Lab Sample ID: 320-89095-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.4603		1.0348	1.0348	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM051122-1950

## Lab Sample ID: 320-89095-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0060		0.0024	0.00036	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0048	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015	B	0.0024	0.00034	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	40		1.0	1.0	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1950

## Lab Sample ID: 320-89095-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	55.0094		0.9930	0.9930	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM051122-1951

## Lab Sample ID: 320-89095-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0036		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.065		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0085	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1951

## Lab Sample ID: 320-89095-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	38.2253		0.3043	0.3043	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM051122-1952

## Lab Sample ID: 320-89095-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0032		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.050		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0067	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1952

## Lab Sample ID: 320-89095-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	38.2231		0.2904	0.2904	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

## Client Sample ID: GILBANEPM051122-1949

## Lab Sample ID: 320-89095-1

Date Collected: 06/09/22 13:47

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.0024	0.00036	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:04	1
Copper	0.10		0.0048	0.00036	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:04	1
Manganese	0.012	B	0.0024	0.00033	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:04	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	37		0.99	0.99	ug/m3			06/17/22 16:30	1

## Client Sample ID: GILBANETSP051122-1949

## Lab Sample ID: 320-89095-2

Date Collected: 06/09/22 13:47

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.4603		1.0348	1.0348	ug/m3 (Air)			06/17/22 16:30	1

## Client Sample ID: GILBANEPM051122-1950

## Lab Sample ID: 320-89095-3

Date Collected: 06/09/22 13:35

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0060		0.0024	0.00036	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:14	1
Copper	0.13		0.0048	0.00036	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:14	1
Manganese	0.015	B	0.0024	0.00034	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:14	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	40		1.0	1.0	ug/m3			06/17/22 16:30	1

## Client Sample ID: GILBANETSP051122-1950

## Lab Sample ID: 320-89095-4

Date Collected: 06/09/22 13:35

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	55.0094		0.9930	0.9930	ug/m3 (Air)			06/17/22 16:30	1

## Client Sample ID: GILBANEPM051122-1951

## Lab Sample ID: 320-89095-5

Date Collected: 06/14/22 06:50

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036		0.00070	0.00010	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:17	1
Copper	0.065		0.0014	0.00010	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:17	1
Manganese	0.0085	B	0.00070	0.000098	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:17	1

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# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

**Client Sample ID: GILBANEPM051122-1951**

**Lab Sample ID: 320-89095-5**

Date Collected: 06/14/22 06:50

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.29	0.29	ug/m3			06/17/22 16:30	1

**Client Sample ID: GILBANETSP051122-1951**

**Lab Sample ID: 320-89095-6**

Date Collected: 06/14/22 06:50

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.2253		0.3043	0.3043	ug/m3 (Air)			06/17/22 16:30	1

**Client Sample ID: GILBANEPM051122-1952**

**Lab Sample ID: 320-89095-7**

Date Collected: 06/14/22 06:36

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032		0.00070	0.00010	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:20	1
Copper	0.050		0.0014	0.00010	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:20	1
Manganese	0.0067	B	0.00070	0.000098	ug/m3 (Air)		06/22/22 06:40	06/22/22 13:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			06/17/22 16:30	1

**Client Sample ID: GILBANETSP051122-1952**

**Lab Sample ID: 320-89095-8**

Date Collected: 06/14/22 06:36

Matrix: Air

Date Received: 06/15/22 09:35

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.2231		0.2904	0.2904	ug/m3 (Air)			06/17/22 16:30	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

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

**Lab Sample ID: MB 320-597552/1-B**  
**Matrix: Air**  
**Analysis Batch: 597777**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 597569**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/22/22 06:40	06/22/22 12:54	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/22/22 06:40	06/22/22 12:54	1
Manganese	0.000631	J	0.0012	0.00017	ug/m3 (Air)		06/22/22 06:40	06/22/22 12:54	1

**Lab Sample ID: LCS 320-597552/2-B**  
**Matrix: Air**  
**Analysis Batch: 597777**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 597569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.249		ug/m3 (Air)		104	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.246		ug/m3 (Air)		103	88 - 110

**Lab Sample ID: LCSD 320-597552/3-B**  
**Matrix: Air**  
**Analysis Batch: 597777**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 597569**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.242		ug/m3 (Air)		101	86 - 111	3	15
Copper	0.240	0.249		ug/m3 (Air)		104	85 - 110	3	15
Manganese	0.240	0.253		ug/m3 (Air)		105	88 - 110	3	15

# QC Association Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

## Metals

### Pre Prep Batch: 597552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89095-1	GILBANEPM051122-1949	Total/NA	Air	Filter to Air	
320-89095-3	GILBANEPM051122-1950	Total/NA	Air	Filter to Air	
320-89095-5	GILBANEPM051122-1951	Total/NA	Air	Filter to Air	
320-89095-7	GILBANEPM051122-1952	Total/NA	Air	Filter to Air	
MB 320-597552/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-597552/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-597552/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 597569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89095-1	GILBANEPM051122-1949	Total/NA	Air	3050B	597552
320-89095-3	GILBANEPM051122-1950	Total/NA	Air	3050B	597552
320-89095-5	GILBANEPM051122-1951	Total/NA	Air	3050B	597552
320-89095-7	GILBANEPM051122-1952	Total/NA	Air	3050B	597552
MB 320-597552/1-B	Method Blank	Total/NA	Air	3050B	597552
LCS 320-597552/2-B	Lab Control Sample	Total/NA	Air	3050B	597552
LCSD 320-597552/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	597552

### Analysis Batch: 597777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89095-1	GILBANEPM051122-1949	Total/NA	Air	6020	597569
320-89095-3	GILBANEPM051122-1950	Total/NA	Air	6020	597569
320-89095-5	GILBANEPM051122-1951	Total/NA	Air	6020	597569
320-89095-7	GILBANEPM051122-1952	Total/NA	Air	6020	597569
MB 320-597552/1-B	Method Blank	Total/NA	Air	6020	597569
LCS 320-597552/2-B	Lab Control Sample	Total/NA	Air	6020	597569
LCSD 320-597552/3-B	Lab Control Sample Dup	Total/NA	Air	6020	597569

## General Chemistry

### Pre Prep Batch: 595934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89095-2	GILBANETSP051122-1949	Total/NA	Air	Filter to Air	
320-89095-4	GILBANETSP051122-1950	Total/NA	Air	Filter to Air	
320-89095-6	GILBANETSP051122-1951	Total/NA	Air	Filter to Air	
320-89095-8	GILBANETSP051122-1952	Total/NA	Air	Filter to Air	

### Analysis Batch: 597652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89095-1	GILBANEPM051122-1949	Total/NA	Air	PM10	
320-89095-3	GILBANEPM051122-1950	Total/NA	Air	PM10	
320-89095-5	GILBANEPM051122-1951	Total/NA	Air	PM10	
320-89095-7	GILBANEPM051122-1952	Total/NA	Air	PM10	

### Analysis Batch: 597655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89095-2	GILBANETSP051122-1949	Total/NA	Air	40CFR50 App B	595934
320-89095-4	GILBANETSP051122-1950	Total/NA	Air	40CFR50 App B	595934
320-89095-6	GILBANETSP051122-1951	Total/NA	Air	40CFR50 App B	595934
320-89095-8	GILBANETSP051122-1952	Total/NA	Air	40CFR50 App B	595934

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# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

**Client Sample ID: GILBANEPM051122-1949**

**Lab Sample ID: 320-89095-1**

Date Collected: 06/09/22 13:47

Matrix: Air

Date Received: 06/15/22 09:35

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					597552	06/22/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	597569	06/22/22 06:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			597777	06/22/22 13:04	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0187 g	597652	06/17/22 16:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP051122-1949**

**Lab Sample ID: 320-89095-2**

Date Collected: 06/09/22 13:47

Matrix: Air

Date Received: 06/15/22 09:35

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					595934	06/16/22 10:29	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			597655	06/17/22 16:30	JMD	TAL SAC

**Client Sample ID: GILBANEPM051122-1950**

**Lab Sample ID: 320-89095-3**

Date Collected: 06/09/22 13:35

Matrix: Air

Date Received: 06/15/22 09:35

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					597552	06/22/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	597569	06/22/22 06:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			597777	06/22/22 13:14	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0202 g	597652	06/17/22 16:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP051122-1950**

**Lab Sample ID: 320-89095-4**

Date Collected: 06/09/22 13:35

Matrix: Air

Date Received: 06/15/22 09:35

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					595934	06/16/22 10:29	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			597655	06/17/22 16:30	JMD	TAL SAC

**Client Sample ID: GILBANEPM051122-1951**

**Lab Sample ID: 320-89095-5**

Date Collected: 06/14/22 06:50

Matrix: Air

Date Received: 06/15/22 09:35

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					597552	06/22/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	597569	06/22/22 06:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			597777	06/22/22 13:17	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0568 g	597652	06/17/22 16:30	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

**Client Sample ID: GILBANETSP051122-1951**

**Lab Sample ID: 320-89095-6**

**Date Collected: 06/14/22 06:50**

**Matrix: Air**

**Date Received: 06/15/22 09:35**

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					595934	06/16/22 10:29	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			597655	06/17/22 16:30	JMD	TAL SAC

**Client Sample ID: GILBANEPM051122-1952**

**Lab Sample ID: 320-89095-7**

**Date Collected: 06/14/22 06:36**

**Matrix: Air**

**Date Received: 06/15/22 09:35**

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					597552	06/22/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	597569	06/22/22 06:40	NIM	TAL SAC
Total/NA	Analysis	6020		1			597777	06/22/22 13:20	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0530 g	597652	06/17/22 16:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP051122-1952**

**Lab Sample ID: 320-89095-8**

**Date Collected: 06/14/22 06:36**

**Matrix: Air**

**Date Received: 06/15/22 09:35**

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					595934	06/16/22 10:29	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			597655	06/17/22 16:30	JMD	TAL SAC

**Laboratory References:**

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



# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

## Laboratory: Eurofins 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	01-29-23

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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-89095-1	GILBANEPM051122-1949	Air	06/09/22 13:47	06/15/22 09:35
320-89095-2	GILBANETSP051122-1949	Air	06/09/22 13:47	06/15/22 09:35
320-89095-3	GILBANEPM051122-1950	Air	06/09/22 13:35	06/15/22 09:35
320-89095-4	GILBANETSP051122-1950	Air	06/09/22 13:35	06/15/22 09:35
320-89095-5	GILBANEPM051122-1951	Air	06/14/22 06:50	06/15/22 09:35
320-89095-6	GILBANETSP051122-1951	Air	06/14/22 06:50	06/15/22 09:35
320-89095-7	GILBANEPM051122-1952	Air	06/14/22 06:36	06/15/22 09:35
320-89095-8	GILBANETSP051122-1952	Air	06/14/22 06:36	06/15/22 09:35

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**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT061422AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	<b>Event:</b> Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400		
<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>Equipment:</b>			<b>Code</b> Container/Preservative	
			1 1x 250-mL Plastic, 4 Degrees C	
			1 1x Envelope, None	



320-89095 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring June 2022																		
Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
1	GILBANETSP051122-1949	A	06/09/2022	1347	KT	X	X						AMSE1	N2	0.00	0.00	1	VOLUME: 504.48 (M3)
2	GILBANETSP051122-1949	A	06/09/2022	1347	KT		X						AMSE1	N2	0.00	0.00	1	VOLUME: 483.20 (M3)
3	GILBANETSP051122-1950	A	06/09/2022	1335	KT	X	X						AMSE2	N2	0.00	0.00	1	VOLUME: 500.69 (M3)
4	GILBANETSP051122-1950	A	06/09/2022	1335	KT		X						AMSE2	N2	0.00	0.00	1	VOLUME: 503.55 (M3)
5	GILBANETSP051122-1951	A	06/14/2022	0650	KT	X	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1717.03 (M3)
6	GILBANETSP051122-1951	A	06/14/2022	0650	KT		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1642.89 (M3)
7	GILBANETSP051122-1952	A	06/14/2022	0636	KT	X	X						AMSE2	N1	0.00	0.00	1	VOLUME: 1715.00 (M3)
8	GILBANETSP051122-1952	A	06/14/2022	0636	KT		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1721.47 (M3)
9																		
10																		

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	06/14/2022	1600	FED EX	06/14/22	1600	Shipping Date: 6/14/2022 / FedEx 7771 1191 9194
			[Redacted]	6/16/22	935	
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

20.1'2

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6/22/2022



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-89095-1

**Login Number: 89095**

**List Source: Eurofins 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?	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	



## ANALYTICAL REPORT

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

Laboratory Job ID: 320-89172-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Authorized for release by:  
6/24/2022 1:42:27 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



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.

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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

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**Job ID: 320-89172-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-89172-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/17/2022 9:05 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 19.0° C.

**Metals**

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

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# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

## Client Sample ID: GILBANEPM051122-1953

## Lab Sample ID: 320-89172-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0064		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.052		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.016		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	51		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP051122-1953

## Lab Sample ID: 320-89172-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	72.8164		0.3104	0.3104	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-1

## Lab Sample ID: 320-89172-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0049		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0095		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	36		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-1

## Lab Sample ID: 320-89172-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	59.5472		0.2893	0.2893	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-2

## Lab Sample ID: 320-89172-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0075		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.051		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.017		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	39		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-2

## Lab Sample ID: 320-89172-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	49.0445		0.2987	0.2987	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-3

## Lab Sample ID: 320-89172-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0049		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.017		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0091		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-3

## Lab Sample ID: 320-89172-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	58.0707		0.2886	0.2886	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

## Client Sample ID: GILBANEPM051122-1953

Lab Sample ID: 320-89172-1

Date Collected: 06/15/22 06:40

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0064		0.00069	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:16	1
Copper	0.052		0.0014	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:16	1
Manganese	0.016		0.00069	0.000097	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:16	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	51		0.29	0.29	ug/m3			06/20/22 17:00	1

## Client Sample ID: GILBANETSP051122-1953

Lab Sample ID: 320-89172-2

Date Collected: 06/15/22 06:40

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	72.8164		0.3104	0.3104	ug/m3 (Air)			06/20/22 17:00	1

## Client Sample ID: GILBANEPM053022-1

Lab Sample ID: 320-89172-3

Date Collected: 06/15/22 06:29

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0049		0.00070	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:26	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:26	1
Manganese	0.0095		0.00070	0.000098	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:26	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	36		0.29	0.29	ug/m3			06/20/22 17:00	1

## Client Sample ID: GILBANETSP053022-1

Lab Sample ID: 320-89172-4

Date Collected: 06/15/22 06:29

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.5472		0.2893	0.2893	ug/m3 (Air)			06/20/22 17:00	1

## Client Sample ID: GILBANEPM053022-2

Lab Sample ID: 320-89172-5

Date Collected: 06/16/22 06:41

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0075		0.00069	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:29	1
Copper	0.051		0.0014	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:29	1
Manganese	0.017		0.00069	0.000097	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:29	1

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

**Client Sample ID: GILBANEPM053022-2**

**Lab Sample ID: 320-89172-5**

Date Collected: 06/16/22 06:41

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	39		0.29	0.29	ug/m3			06/20/22 17:00	1

**Client Sample ID: GILBANETSP053022-2**

**Lab Sample ID: 320-89172-6**

Date Collected: 06/16/22 06:41

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.0445		0.2987	0.2987	ug/m3 (Air)			06/20/22 17:00	1

**Client Sample ID: GILBANEPM053022-3**

**Lab Sample ID: 320-89172-7**

Date Collected: 06/16/22 06:28

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0049		0.00069	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:32	1
Copper	0.017		0.0014	0.00010	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:32	1
Manganese	0.0091		0.00069	0.000097	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.29	0.29	ug/m3			06/20/22 17:00	1

**Client Sample ID: GILBANETSP053022-3**

**Lab Sample ID: 320-89172-8**

Date Collected: 06/16/22 06:28

Matrix: Air

Date Received: 06/17/22 09:05

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.0707		0.2886	0.2886	ug/m3 (Air)			06/20/22 17:00	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

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

**Lab Sample ID: MB 320-597949/1-B**  
**Matrix: Air**  
**Analysis Batch: 598245**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 598039**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:06	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:06	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/23/22 11:45	06/23/22 16:06	1

**Lab Sample ID: LCS 320-597949/2-B**  
**Matrix: Air**  
**Analysis Batch: 598245**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 598039**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.260		ug/m3 (Air)		109	86 - 111
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.248		ug/m3 (Air)		103	88 - 110

**Lab Sample ID: LCSD 320-597949/3-B**  
**Matrix: Air**  
**Analysis Batch: 598245**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 598039**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.255		ug/m3 (Air)		106	86 - 111	2	15
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110	0	15
Manganese	0.240	0.248		ug/m3 (Air)		103	88 - 110	0	15

# QC Association Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

## Metals

### Pre Prep Batch: 597949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89172-1	GILBANEPM051122-1953	Total/NA	Air	Filter to Air	
320-89172-3	GILBANEPM053022-1	Total/NA	Air	Filter to Air	
320-89172-5	GILBANEPM053022-2	Total/NA	Air	Filter to Air	
320-89172-7	GILBANEPM053022-3	Total/NA	Air	Filter to Air	
MB 320-597949/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-597949/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-597949/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 598039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89172-1	GILBANEPM051122-1953	Total/NA	Air	3050B	597949
320-89172-3	GILBANEPM053022-1	Total/NA	Air	3050B	597949
320-89172-5	GILBANEPM053022-2	Total/NA	Air	3050B	597949
320-89172-7	GILBANEPM053022-3	Total/NA	Air	3050B	597949
MB 320-597949/1-B	Method Blank	Total/NA	Air	3050B	597949
LCS 320-597949/2-B	Lab Control Sample	Total/NA	Air	3050B	597949
LCSD 320-597949/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	597949

### Analysis Batch: 598245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89172-1	GILBANEPM051122-1953	Total/NA	Air	6020	598039
320-89172-3	GILBANEPM053022-1	Total/NA	Air	6020	598039
320-89172-5	GILBANEPM053022-2	Total/NA	Air	6020	598039
320-89172-7	GILBANEPM053022-3	Total/NA	Air	6020	598039
MB 320-597949/1-B	Method Blank	Total/NA	Air	6020	598039
LCS 320-597949/2-B	Lab Control Sample	Total/NA	Air	6020	598039
LCSD 320-597949/3-B	Lab Control Sample Dup	Total/NA	Air	6020	598039

## General Chemistry

### Pre Prep Batch: 598302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89172-2	GILBANETSP051122-1953	Total/NA	Air	Filter to Air	
320-89172-4	GILBANETSP053022-1	Total/NA	Air	Filter to Air	
320-89172-6	GILBANETSP053022-2	Total/NA	Air	Filter to Air	
320-89172-8	GILBANETSP053022-3	Total/NA	Air	Filter to Air	

### Analysis Batch: 598321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89172-1	GILBANEPM051122-1953	Total/NA	Air	PM10	
320-89172-3	GILBANEPM053022-1	Total/NA	Air	PM10	
320-89172-5	GILBANEPM053022-2	Total/NA	Air	PM10	
320-89172-7	GILBANEPM053022-3	Total/NA	Air	PM10	

### Analysis Batch: 598322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89172-2	GILBANETSP051122-1953	Total/NA	Air	40CFR50 App B	598302
320-89172-4	GILBANETSP053022-1	Total/NA	Air	40CFR50 App B	598302
320-89172-6	GILBANETSP053022-2	Total/NA	Air	40CFR50 App B	598302
320-89172-8	GILBANETSP053022-3	Total/NA	Air	40CFR50 App B	598302

Eurofins Sacramento

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

**Client Sample ID: GILBANEPM051122-1953**

**Lab Sample ID: 320-89172-1**

**Date Collected: 06/15/22 06:40**

**Matrix: Air**

**Date Received: 06/17/22 09:05**

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					597949	06/23/22 09:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	598039	06/23/22 11:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			598245	06/23/22 16:16	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0876 g	598321	06/20/22 17:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP051122-1953**

**Lab Sample ID: 320-89172-2**

**Date Collected: 06/15/22 06:40**

**Matrix: Air**

**Date Received: 06/17/22 09:05**

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			598322	06/20/22 17:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					598302	06/24/22 10:28	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-1**

**Lab Sample ID: 320-89172-3**

**Date Collected: 06/15/22 06:29**

**Matrix: Air**

**Date Received: 06/17/22 09:05**

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					597949	06/23/22 09:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	598039	06/23/22 11:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			598245	06/23/22 16:26	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0625 g	598321	06/20/22 17:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-1**

**Lab Sample ID: 320-89172-4**

**Date Collected: 06/15/22 06:29**

**Matrix: Air**

**Date Received: 06/17/22 09:05**

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			598322	06/20/22 17:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					598302	06/24/22 10:28	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-2**

**Lab Sample ID: 320-89172-5**

**Date Collected: 06/16/22 06:41**

**Matrix: Air**

**Date Received: 06/17/22 09:05**

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					597949	06/23/22 09:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	598039	06/23/22 11:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			598245	06/23/22 16:29	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0678 g	598321	06/20/22 17:00	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

**Client Sample ID: GILBANETSP053022-2**

**Lab Sample ID: 320-89172-6**

Date Collected: 06/16/22 06:41

Matrix: Air

Date Received: 06/17/22 09:05

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			598322	06/20/22 17:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					598302	06/24/22 10:28	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-3**

**Lab Sample ID: 320-89172-7**

Date Collected: 06/16/22 06:28

Matrix: Air

Date Received: 06/17/22 09:05

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					597949	06/23/22 09:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	598039	06/23/22 11:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			598245	06/23/22 16:32	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0504 g	598321	06/20/22 17:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-3**

**Lab Sample ID: 320-89172-8**

Date Collected: 06/16/22 06:28

Matrix: Air

Date Received: 06/17/22 09:05

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			598322	06/20/22 17:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					598302	06/24/22 10:28	JMD	TAL SAC

**Laboratory References:**

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



# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

## Laboratory: Eurofins 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	01-29-23

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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89172-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-89172-1	GILBANEPM051122-1953	Air	06/15/22 06:40	06/17/22 09:05
320-89172-2	GILBANETSP051122-1953	Air	06/15/22 06:40	06/17/22 09:05
320-89172-3	GILBANEPM053022-1	Air	06/15/22 06:29	06/17/22 09:05
320-89172-4	GILBANETSP053022-1	Air	06/15/22 06:29	06/17/22 09:05
320-89172-5	GILBANEPM053022-2	Air	06/16/22 06:41	06/17/22 09:05
320-89172-6	GILBANETSP053022-2	Air	06/16/22 06:41	06/17/22 09:05
320-89172-7	GILBANEPM053022-3	Air	06/16/22 06:28	06/17/22 09:05
320-89172-8	GILBANETSP053022-3	Air	06/16/22 06:28	06/17/22 09:05

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**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT061622AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400		
<b>WBS Code:</b> J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments:</b>	Analytical Test Method	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



Event: Parcel E Phase 2 Air Monitoring June 2022																	
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	GILBANEPM051122-1953	A	06/15/2022	0640	KT	X						AMSE1	N1	0.00	0.00	1	VOLUME: 1731.59 (M3)
2	GILBANETSP051122-1953	A	06/15/2022	0640	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1610.90 (M3)
3	GILBANEPM053022-1	A	06/15/2022	0629	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1722.50 (M3)
4	GILBANETSP053022-1	A	06/15/2022	0629	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1728.04 (M3)
5	GILBANEPM053022-2	A	06/16/2022	0641	KT	X		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1738.54 (M3)
6	GILBANETSP053022-2	A	06/16/2022	0641	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1673.99 (M3)
7	GILBANEPM053022-3	A	06/16/2022	0628	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1728.73 (M3)
8	GILBANETSP053022-3	A	06/16/2022	0628	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1732.37 (M3)
9																	
10																	

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	06/16/2022	1600	FED EX	06/16/2022	1600	Shipping Date: 6/16/2022 / FedEx 7771 3759 4659
			[Redacted]	6-17-22	0905	Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy\_COC\_Field  
June 16, 2022

19.02

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6/24/2022



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-89172-1

**Login Number: 89172**

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

Laboratory Job ID: 320-89295-1

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

For:

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

Authorized for release by:  
6/29/2022 4:40:38 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



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.

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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

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**Job ID: 320-89295-1**

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**Laboratory: Eurofins Sacramento**

## Narrative

**Job Narrative**  
**320-89295-1**

## Comments

No additional comments.

## Receipt

The samples were received on 6/22/2022 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 20.0° C.

## Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): All container IDs begin as "GES" instead of what is listed on COC as "GILBANE". Samples were logged in based on the COC.

## Metals

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

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# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

## Client Sample ID: GILBANEPM053022-4

## Lab Sample ID: 320-89295-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.044		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.93	0.93	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-4

## Lab Sample ID: 320-89295-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	31.7411		0.9677	0.9677	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-5

## Lab Sample ID: 320-89295-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023	J	0.0024	0.00036	ug/m3 (Air)	1		6020	Total/NA
Copper	0.035		0.0047	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0039		0.0024	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.3		0.99	0.99	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-5

## Lab Sample ID: 320-89295-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	23.9314		0.9808	0.9808	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

**Client Sample ID: GILBANEPM053022-4**

**Lab Sample ID: 320-89295-1**

Date Collected: 06/16/22 14:10

Matrix: Air

Date Received: 06/22/22 09:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037		0.0022	0.00033	ug/m3 (Air)		06/28/22 06:15	06/29/22 13:55	1
Copper	0.044		0.0044	0.00033	ug/m3 (Air)		06/28/22 06:15	06/29/22 13:55	1
Manganese	0.010		0.0022	0.00031	ug/m3 (Air)		06/28/22 06:15	06/29/22 13:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.93	0.93	ug/m3			06/23/22 14:30	1

**Client Sample ID: GILBANETSP053022-4**

**Lab Sample ID: 320-89295-2**

Date Collected: 06/16/22 14:10

Matrix: Air

Date Received: 06/22/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.7411		0.9677	0.9677	ug/m3 (Air)			06/24/22 14:30	1

**Client Sample ID: GILBANEPM053022-5**

**Lab Sample ID: 320-89295-3**

Date Collected: 06/16/22 13:33

Matrix: Air

Date Received: 06/22/22 09:30

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0023	J	0.0024	0.00036	ug/m3 (Air)		06/28/22 06:15	06/29/22 14:05	1
Copper	0.035		0.0047	0.00036	ug/m3 (Air)		06/28/22 06:15	06/29/22 14:05	1
Manganese	0.0039		0.0024	0.00033	ug/m3 (Air)		06/28/22 06:15	06/29/22 14:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	7.3		0.99	0.99	ug/m3			06/23/22 14:30	1

**Client Sample ID: GILBANETSP053022-5**

**Lab Sample ID: 320-89295-4**

Date Collected: 06/16/22 13:33

Matrix: Air

Date Received: 06/22/22 09:30

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.9314		0.9808	0.9808	ug/m3 (Air)			06/24/22 14:30	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

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

**Lab Sample ID: MB 320-599048/1-B**  
**Matrix: Air**  
**Analysis Batch: 599564**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 599050**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/28/22 06:15	06/29/22 13:45	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/28/22 06:15	06/29/22 13:45	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/28/22 06:15	06/29/22 13:45	1

**Lab Sample ID: LCS 320-599048/2-B**  
**Matrix: Air**  
**Analysis Batch: 599564**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 599050**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.239		ug/m3 (Air)		100	86 - 111
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110
Manganese	0.240	0.249		ug/m3 (Air)		104	88 - 110

**Lab Sample ID: LCSD 320-599048/3-B**  
**Matrix: Air**  
**Analysis Batch: 599564**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 599050**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.252		ug/m3 (Air)		105	86 - 111	5	15
Copper	0.240	0.247		ug/m3 (Air)		103	85 - 110	3	15
Manganese	0.240	0.253		ug/m3 (Air)		105	88 - 110	1	15

# QC Association Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

## Metals

### Pre Prep Batch: 599048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89295-1	GILBANEPM053022-4	Total/NA	Air	Filter to Air	
320-89295-3	GILBANEPM053022-5	Total/NA	Air	Filter to Air	
MB 320-599048/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-599048/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-599048/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 599050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89295-1	GILBANEPM053022-4	Total/NA	Air	3050B	599048
320-89295-3	GILBANEPM053022-5	Total/NA	Air	3050B	599048
MB 320-599048/1-B	Method Blank	Total/NA	Air	3050B	599048
LCS 320-599048/2-B	Lab Control Sample	Total/NA	Air	3050B	599048
LCSD 320-599048/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	599048

### Analysis Batch: 599564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89295-1	GILBANEPM053022-4	Total/NA	Air	6020	599050
320-89295-3	GILBANEPM053022-5	Total/NA	Air	6020	599050
MB 320-599048/1-B	Method Blank	Total/NA	Air	6020	599050
LCS 320-599048/2-B	Lab Control Sample	Total/NA	Air	6020	599050
LCSD 320-599048/3-B	Lab Control Sample Dup	Total/NA	Air	6020	599050

## General Chemistry

### Pre Prep Batch: 598302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89295-2	GILBANETSP053022-4	Total/NA	Air	Filter to Air	
320-89295-4	GILBANETSP053022-5	Total/NA	Air	Filter to Air	

### Analysis Batch: 599546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89295-1	GILBANEPM053022-4	Total/NA	Air	PM10	
320-89295-3	GILBANEPM053022-5	Total/NA	Air	PM10	

### Analysis Batch: 599547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89295-2	GILBANETSP053022-4	Total/NA	Air	40CFR50 App B	598302
320-89295-4	GILBANETSP053022-5	Total/NA	Air	40CFR50 App B	598302

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

**Client Sample ID: GILBANEPM053022-4**

**Lab Sample ID: 320-89295-1**

**Date Collected: 06/16/22 14:10**

**Matrix: Air**

**Date Received: 06/22/22 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					599048	06/28/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	599050	06/28/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			599564	06/29/22 13:55	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0106 g	599546	06/23/22 14:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-4**

**Lab Sample ID: 320-89295-2**

**Date Collected: 06/16/22 14:10**

**Matrix: Air**

**Date Received: 06/22/22 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					598302	06/24/22 10:28	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			599547	06/24/22 14:30	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-5**

**Lab Sample ID: 320-89295-3**

**Date Collected: 06/16/22 13:33**

**Matrix: Air**

**Date Received: 06/22/22 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					599048	06/28/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	599050	06/28/22 06:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			599564	06/29/22 14:05	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0037 g	599546	06/23/22 14:30	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-5**

**Lab Sample ID: 320-89295-4**

**Date Collected: 06/16/22 13:33**

**Matrix: Air**

**Date Received: 06/22/22 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					598302	06/24/22 10:28	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			599547	06/24/22 14:30	JMD	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

## Laboratory: Eurofins 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	01-29-23

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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600





# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89295-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-89295-1	GILBANEPM053022-4	Air	06/16/22 14:10	06/22/22 09:30
320-89295-2	GILBANETSP053022-4	Air	06/16/22 14:10	06/22/22 09:30
320-89295-3	GILBANEPM053022-5	Air	06/16/22 13:33	06/22/22 09:30
320-89295-4	GILBANETSP053022-5	Air	06/16/22 13:33	06/22/22 09:30

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**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT062122AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> EUROFINs ENVIRONMENT TESTING, NORTHERN CALIFORNIA, LLC (EETN)	<b>Event:</b> Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400		
<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>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 June 2022																	
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	GILBANEPM053022-4	A	06/16/2022	1410	KT	X	X					AMSE1	N2	0.00	0.00	1	VOLUME: 539.35 (M3)
2	GILBANETSP053022-4	A	06/16/2022	1410	KT		X					AMSE1	N2	0.00	0.00	1	VOLUME: 516.68 (M3)
3	GILBANEPM053022-5	A	06/16/2022	1333	KT	X	X					AMSE2	N2	0.00	0.00	1	VOLUME: 505.62 (M3)
4	GILBANETSP053022-5	A	06/16/2022	1333	KT		X					AMSE2	N2	0.00	0.00	1	VOLUME: 509.79 (M3)
5							X										
6					N												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	6/21/22	16:00	Fed Ex	6/21/22	16:00	Shipping Date: 6/21/2022
			[Redacted]	6-22-22	0930	
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

20.0%

GES Navy\_CO\_C\_Field  
June 21, 2022

ID: GES - NOT GILBANE 506-2222



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-89295-1

**Login Number: 89295**

**List Source: Eurofins 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.	False	IDs on containers do not match the COC. Logged in per COC.
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 Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-89429-1  
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:

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

Authorized for release by:  
7/1/2022 3:38:40 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



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.

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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

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**Job ID: 320-89429-1**

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**Laboratory: Eurofins Sacramento**

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**Narrative**

**Job Narrative**  
**320-89429-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/24/2022 10:15 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 18.8° C.

**Metals**

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

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# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

## Client Sample ID: GILBANEPM053022-6

## Lab Sample ID: 320-89429-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0039		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.7		0.28	0.28	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-6

## Lab Sample ID: 320-89429-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.6190		0.2947	0.2947	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-7

## Lab Sample ID: 320-89429-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0034		0.00066	0.000099	ug/m3 (Air)	1		6020	Total/NA
Copper	0.083		0.0013	0.000099	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0092		0.00066	0.000092	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.27	0.27	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-7

## Lab Sample ID: 320-89429-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.1458		0.2742	0.2742	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-8

## Lab Sample ID: 320-89429-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0040		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.33		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0096		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	26		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-8

## Lab Sample ID: 320-89429-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.2880		0.2997	0.2997	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-9

## Lab Sample ID: 320-89429-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0054		0.00072	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.025		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00072	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.30	0.30	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-9

## Lab Sample ID: 320-89429-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.7290		0.2961	0.2961	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento



# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

**Client Sample ID: GILBANEPM053022-6**

**Lab Sample ID: 320-89429-1**

Date Collected: 06/22/22 06:56

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017		0.00068	0.00010	ug/m3 (Air)		06/29/22 11:00	06/29/22 15:57	1
Copper	0.13		0.0014	0.00010	ug/m3 (Air)		06/29/22 11:00	06/29/22 15:57	1
Manganese	0.0039		0.00068	0.000095	ug/m3 (Air)		06/29/22 11:00	06/29/22 15:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.7		0.28	0.28	ug/m3			06/27/22 15:00	1

**Client Sample ID: GILBANETSP053022-6**

**Lab Sample ID: 320-89429-2**

Date Collected: 06/22/22 06:56

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.6190		0.2947	0.2947	ug/m3 (Air)			06/27/22 15:00	1

**Client Sample ID: GILBANEPM053022-7**

**Lab Sample ID: 320-89429-3**

Date Collected: 06/22/22 07:45

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0034		0.00066	0.000099	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:07	1
Copper	0.083		0.0013	0.000099	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:07	1
Manganese	0.0092		0.00066	0.000092	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.27	0.27	ug/m3			06/27/22 15:00	1

**Client Sample ID: GILBANETSP053022-7**

**Lab Sample ID: 320-89429-4**

Date Collected: 06/22/22 07:45

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.1458		0.2742	0.2742	ug/m3 (Air)			06/27/22 15:00	1

**Client Sample ID: GILBANEPM053022-8**

**Lab Sample ID: 320-89429-5**

Date Collected: 06/23/22 08:36

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0040		0.00071	0.00011	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:10	1
Copper	0.33		0.0014	0.00011	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:10	1
Manganese	0.0096		0.00071	0.000099	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:10	1

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# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

**Client Sample ID: GILBANEPM053022-8**

**Lab Sample ID: 320-89429-5**

Date Collected: 06/23/22 08:36

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	26		0.29	0.29	ug/m3			06/27/22 15:00	1

**Client Sample ID: GILBANETSP053022-8**

**Lab Sample ID: 320-89429-6**

Date Collected: 06/23/22 08:36

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.2880		0.2997	0.2997	ug/m3 (Air)			06/27/22 15:00	1

**Client Sample ID: GILBANEPM053022-9**

**Lab Sample ID: 320-89429-7**

Date Collected: 06/23/22 06:47

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054		0.00072	0.00011	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:13	1
Copper	0.025		0.0014	0.00011	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:13	1
Manganese	0.011		0.00072	0.00010	ug/m3 (Air)		06/29/22 11:00	06/29/22 16:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	27		0.30	0.30	ug/m3			06/27/22 15:00	1

**Client Sample ID: GILBANETSP053022-9**

**Lab Sample ID: 320-89429-8**

Date Collected: 06/23/22 06:47

Matrix: Air

Date Received: 06/24/22 10:15

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.7290		0.2961	0.2961	ug/m3 (Air)			06/27/22 15:00	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

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

**Lab Sample ID: MB 320-599431/1-B**  
**Matrix: Air**  
**Analysis Batch: 599725**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 599447**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/29/22 11:00	06/29/22 15:47	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/29/22 11:00	06/29/22 15:47	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/29/22 11:00	06/29/22 15:47	1

**Lab Sample ID: LCS 320-599431/2-B**  
**Matrix: Air**  
**Analysis Batch: 599725**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 599447**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.248		ug/m3 (Air)		104	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.249		ug/m3 (Air)		104	88 - 110

**Lab Sample ID: LCSD 320-599431/3-B**  
**Matrix: Air**  
**Analysis Batch: 599725**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 599447**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.254		ug/m3 (Air)		106	86 - 111	2	15
Copper	0.240	0.254		ug/m3 (Air)		106	85 - 110	5	15
Manganese	0.240	0.263		ug/m3 (Air)		109	88 - 110	5	15

# QC Association Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

## Metals

### Pre Prep Batch: 599431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89429-1	GILBANEPM053022-6	Total/NA	Air	Filter to Air	
320-89429-3	GILBANEPM053022-7	Total/NA	Air	Filter to Air	
320-89429-5	GILBANEPM053022-8	Total/NA	Air	Filter to Air	
320-89429-7	GILBANEPM053022-9	Total/NA	Air	Filter to Air	
MB 320-599431/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-599431/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-599431/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 599447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89429-1	GILBANEPM053022-6	Total/NA	Air	3050B	599431
320-89429-3	GILBANEPM053022-7	Total/NA	Air	3050B	599431
320-89429-5	GILBANEPM053022-8	Total/NA	Air	3050B	599431
320-89429-7	GILBANEPM053022-9	Total/NA	Air	3050B	599431
MB 320-599431/1-B	Method Blank	Total/NA	Air	3050B	599431
LCS 320-599431/2-B	Lab Control Sample	Total/NA	Air	3050B	599431
LCSD 320-599431/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	599431

### Analysis Batch: 599725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89429-1	GILBANEPM053022-6	Total/NA	Air	6020	599447
320-89429-3	GILBANEPM053022-7	Total/NA	Air	6020	599447
320-89429-5	GILBANEPM053022-8	Total/NA	Air	6020	599447
320-89429-7	GILBANEPM053022-9	Total/NA	Air	6020	599447
MB 320-599431/1-B	Method Blank	Total/NA	Air	6020	599447
LCS 320-599431/2-B	Lab Control Sample	Total/NA	Air	6020	599447
LCSD 320-599431/3-B	Lab Control Sample Dup	Total/NA	Air	6020	599447

## General Chemistry

### Pre Prep Batch: 600081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89429-2	GILBANETSP053022-6	Total/NA	Air	Filter to Air	
320-89429-4	GILBANETSP053022-7	Total/NA	Air	Filter to Air	
320-89429-6	GILBANETSP053022-8	Total/NA	Air	Filter to Air	
320-89429-8	GILBANETSP053022-9	Total/NA	Air	Filter to Air	

### Analysis Batch: 600082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89429-1	GILBANEPM053022-6	Total/NA	Air	PM10	
320-89429-3	GILBANEPM053022-7	Total/NA	Air	PM10	
320-89429-5	GILBANEPM053022-8	Total/NA	Air	PM10	
320-89429-7	GILBANEPM053022-9	Total/NA	Air	PM10	

### Analysis Batch: 600087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89429-2	GILBANETSP053022-6	Total/NA	Air	40CFR50 App B	600081
320-89429-4	GILBANETSP053022-7	Total/NA	Air	40CFR50 App B	600081
320-89429-6	GILBANETSP053022-8	Total/NA	Air	40CFR50 App B	600081
320-89429-8	GILBANETSP053022-9	Total/NA	Air	40CFR50 App B	600081

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# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

**Client Sample ID: GILBANEPM053022-6**

**Lab Sample ID: 320-89429-1**

Date Collected: 06/22/22 06:56

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					599431	06/29/22 10:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	599447	06/29/22 11:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			599725	06/29/22 15:57	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0155 g	600082	06/27/22 15:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-6**

**Lab Sample ID: 320-89429-2**

Date Collected: 06/22/22 06:56

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			600087	06/27/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-7**

**Lab Sample ID: 320-89429-3**

Date Collected: 06/22/22 07:45

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					599431	06/29/22 10:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	599447	06/29/22 11:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			599725	06/29/22 16:07	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0521 g	600082	06/27/22 15:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-7**

**Lab Sample ID: 320-89429-4**

Date Collected: 06/22/22 07:45

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			600087	06/27/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-8**

**Lab Sample ID: 320-89429-5**

Date Collected: 06/23/22 08:36

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					599431	06/29/22 10:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	599447	06/29/22 11:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			599725	06/29/22 16:10	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0437 g	600082	06/27/22 15:00	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

**Client Sample ID: GILBANETSP053022-8**

**Lab Sample ID: 320-89429-6**

Date Collected: 06/23/22 08:36

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			600087	06/27/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-9**

**Lab Sample ID: 320-89429-7**

Date Collected: 06/23/22 06:47

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					599431	06/29/22 10:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	599447	06/29/22 11:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			599725	06/29/22 16:13	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0452 g	600082	06/27/22 15:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-9**

**Lab Sample ID: 320-89429-8**

Date Collected: 06/23/22 06:47

Matrix: Air

Date Received: 06/24/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			600087	06/27/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

## Laboratory: Eurofins 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	01-29-23

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

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

# Method Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600





# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-89429-1	GILBANEPM053022-6	Air	06/22/22 06:56	06/24/22 10:15
320-89429-2	GILBANETSP053022-6	Air	06/22/22 06:56	06/24/22 10:15
320-89429-3	GILBANEPM053022-7	Air	06/22/22 07:45	06/24/22 10:15
320-89429-4	GILBANETSP053022-7	Air	06/22/22 07:45	06/24/22 10:15
320-89429-5	GILBANEPM053022-8	Air	06/23/22 08:36	06/24/22 10:15
320-89429-6	GILBANETSP053022-8	Air	06/23/22 08:36	06/24/22 10:15
320-89429-7	GILBANEPM053022-9	Air	06/23/22 06:47	06/24/22 10:15
320-89429-8	GILBANETSP053022-9	Air	06/23/22 06:47	06/24/22 10:15

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


**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
 2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT062322AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	<b>Event:</b> Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400		
<b>WBS Code:</b> J310000400-016	<b>Ship to:</b> 880 Riverside Parkway, West Sacramento, CA 95605	

<b>Comments</b>  320-89429 Chain of Custody	<b>Analytical Test Method</b> CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	<b>Code</b> Matrix <b>A</b> 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 June 2022																	
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	GILBANEPM053022-6	A	06/22/2022	0656	KT	X		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1771.73 (M3)
2	GILBANETSP053022-6	A	06/22/2022	0656	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1696.51 (M3)
3	GILBANEPM053022-7	A	06/22/2022	0745	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1823.05 (M3)
4	GILBANETSP053022-7	A	06/22/2022	0745	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1823.17 (M3)
5	GILBANEPM053022-8	A	06/23/2022	0836	KT	X		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1695.20 (M3)
6	GILBANETSP053022-8	A	06/23/2022	0836	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1668.50 (M3)
7	GILBANEPM053022-9	A	06/23/2022	0647	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1676.97 (M3)
8	GILBANETSP053022-9	A	06/23/2022	0647	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1688.70 (M3)
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>
	06/23/22	1600	Fed Ex	6/23/22	1600	Shipping Date: 6/23/2022 / FedEx 7772 0008 5770
				6-24-22	1015	<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

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7/1/2022



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-89429-1

**Login Number: 89429**

**List Source: Eurofins 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-89525-1

Client Project/Site: Hunters Point, Parcel E, Phase 2  
Revision: 1

For:

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

Authorized for release by:  
7/13/2022 12:02:10 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



Have a Question?



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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.

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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

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## Job ID: 320-89525-1

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### Laboratory: Eurofins Sacramento

#### Narrative

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#### Job Narrative 320-89525-1

#### Revision

This report was revised July 13, 2022 to include a copy of the revised COC. No data changed as a result of this revision.

#### Receipt

The samples were received on 6/29/2022 9:55 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 19.6° C.

#### Receipt Exceptions

The COC did not list a sample time for the following samples: GILBANEPM053022-10 (320-89525-1), GILBANETSP053022-10 (320-89525-2), GILBANEPM053022-11 (320-89525-3), GILBANETSP053022-11 (320-89525-4), GILBANEPM053022-12 (320-89525-5), GILBANETSP053022-12 (320-89525-6), GILBANEPM053022-13 (320-89525-7) and GILBANETSP053022-13 (320-89525-8). Client emailed a revised COC on 6/30/22 with the sample times for all the samples. Copies of both COCs are included in the report.

#### Metals

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



# Detection Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

## Client Sample ID: GILBANEPM053022-10

## Lab Sample ID: 320-89525-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.016		0.0025	0.00038	ug/m3 (Air)	1		6020	Total/NA
Copper	0.074		0.0051	0.00038	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.026		0.0025	0.00035	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	43		1.1	1.1	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-10

## Lab Sample ID: 320-89525-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.8678		1.0298	1.0298	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-11

## Lab Sample ID: 320-89525-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0090		0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.099		0.0041	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		0.84	0.84	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-11

## Lab Sample ID: 320-89525-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.4931		0.8421	0.8421	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-12

## Lab Sample ID: 320-89525-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0061		0.00072	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0095		0.00072	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		0.30	0.30	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-12

## Lab Sample ID: 320-89525-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	23.8109		0.3117	0.3117	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GILBANEPM053022-13

## Lab Sample ID: 320-89525-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.059		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0058		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	17		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GILBANETSP053022-13

## Lab Sample ID: 320-89525-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.8987		0.2922	0.2922	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

## Client Sample ID: GILBANEPM053022-10

Lab Sample ID: 320-89525-1

Date Collected: 06/23/22 15:13

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.016		0.0025	0.00038	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:42	1
Copper	0.074		0.0051	0.00038	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:42	1
Manganese	0.026		0.0025	0.00035	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:42	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	43		1.1	1.1	ug/m3			06/30/22 16:00	1

## Client Sample ID: GILBANETSP053022-10

Lab Sample ID: 320-89525-2

Date Collected: 06/23/22 15:13

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.8678		1.0298	1.0298	ug/m3 (Air)			06/30/22 16:00	1

## Client Sample ID: GILBANEPM053022-11

Lab Sample ID: 320-89525-3

Date Collected: 06/23/22 15:02

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0090		0.0020	0.00030	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:52	1
Copper	0.099		0.0041	0.00030	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:52	1
Manganese	0.015		0.0020	0.00028	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:52	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		0.84	0.84	ug/m3			06/30/22 16:00	1

## Client Sample ID: GILBANETSP053022-11

Lab Sample ID: 320-89525-4

Date Collected: 06/23/22 15:02

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.4931		0.8421	0.8421	ug/m3 (Air)			06/30/22 16:00	1

## Client Sample ID: GILBANEPM053022-12

Lab Sample ID: 320-89525-5

Date Collected: 06/28/22 06:58

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0061		0.00072	0.00011	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:55	1
Copper	0.024		0.0014	0.00011	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:55	1
Manganese	0.0095		0.00072	0.00010	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:55	1

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# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

**Client Sample ID: GILBANEPM053022-12**

**Lab Sample ID: 320-89525-5**

Date Collected: 06/28/22 06:58

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		0.30	0.30	ug/m3			06/30/22 16:00	1

**Client Sample ID: GILBANETSP053022-12**

**Lab Sample ID: 320-89525-6**

Date Collected: 06/28/22 06:58

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.8109		0.3117	0.3117	ug/m3 (Air)			06/30/22 16:00	1

**Client Sample ID: GILBANEPM053022-13**

**Lab Sample ID: 320-89525-7**

Date Collected: 06/28/22 06:27

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00070	0.00011	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:58	1
Copper	0.059		0.0014	0.00011	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:58	1
Manganese	0.0058		0.00070	0.000098	ug/m3 (Air)		07/06/22 06:45	07/06/22 12:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	17		0.29	0.29	ug/m3			06/30/22 16:00	1

**Client Sample ID: GILBANETSP053022-13**

**Lab Sample ID: 320-89525-8**

Date Collected: 06/28/22 06:27

Matrix: Air

Date Received: 06/29/22 09:55

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.8987		0.2922	0.2922	ug/m3 (Air)			06/30/22 16:00	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

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

**Lab Sample ID: MB 320-600947/1-B**  
**Matrix: Air**  
**Analysis Batch: 601155**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 600968**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/06/22 06:45	07/06/22 10:54	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/06/22 06:45	07/06/22 10:54	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/06/22 06:45	07/06/22 10:54	1

**Lab Sample ID: LCS 320-600947/2-B**  
**Matrix: Air**  
**Analysis Batch: 601155**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 600968**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.255		ug/m3 (Air)		106	86 - 111
Copper	0.240	0.255		ug/m3 (Air)		106	85 - 110
Manganese	0.240	0.265		ug/m3 (Air)		110	88 - 110

**Lab Sample ID: LCSD 320-600947/3-B**  
**Matrix: Air**  
**Analysis Batch: 601474**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 600968**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.262		ug/m3 (Air)		109	86 - 111	3	15
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110	4	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	7	15

# QC Association Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

## Metals

### Pre Prep Batch: 600947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89525-1	GILBANEPM053022-10	Total/NA	Air	Filter to Air	
320-89525-3	GILBANEPM053022-11	Total/NA	Air	Filter to Air	
320-89525-5	GILBANEPM053022-12	Total/NA	Air	Filter to Air	
320-89525-7	GILBANEPM053022-13	Total/NA	Air	Filter to Air	
MB 320-600947/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-600947/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-600947/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 600968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89525-1	GILBANEPM053022-10	Total/NA	Air	3050B	600947
320-89525-3	GILBANEPM053022-11	Total/NA	Air	3050B	600947
320-89525-5	GILBANEPM053022-12	Total/NA	Air	3050B	600947
320-89525-7	GILBANEPM053022-13	Total/NA	Air	3050B	600947
MB 320-600947/1-B	Method Blank	Total/NA	Air	3050B	600947
LCS 320-600947/2-B	Lab Control Sample	Total/NA	Air	3050B	600947
LCSD 320-600947/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	600947

### Analysis Batch: 601155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89525-1	GILBANEPM053022-10	Total/NA	Air	6020	600968
320-89525-3	GILBANEPM053022-11	Total/NA	Air	6020	600968
320-89525-5	GILBANEPM053022-12	Total/NA	Air	6020	600968
320-89525-7	GILBANEPM053022-13	Total/NA	Air	6020	600968
MB 320-600947/1-B	Method Blank	Total/NA	Air	6020	600968
LCS 320-600947/2-B	Lab Control Sample	Total/NA	Air	6020	600968

### Analysis Batch: 601474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-600947/3-B	Lab Control Sample Dup	Total/NA	Air	6020	600968

## General Chemistry

### Pre Prep Batch: 600081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89525-2	GILBANETSP053022-10	Total/NA	Air	Filter to Air	
320-89525-4	GILBANETSP053022-11	Total/NA	Air	Filter to Air	
320-89525-6	GILBANETSP053022-12	Total/NA	Air	Filter to Air	
320-89525-8	GILBANETSP053022-13	Total/NA	Air	Filter to Air	

### Analysis Batch: 601493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89525-2	GILBANETSP053022-10	Total/NA	Air	40CFR50 App B	600081
320-89525-4	GILBANETSP053022-11	Total/NA	Air	40CFR50 App B	600081
320-89525-6	GILBANETSP053022-12	Total/NA	Air	40CFR50 App B	600081
320-89525-8	GILBANETSP053022-13	Total/NA	Air	40CFR50 App B	600081

### Analysis Batch: 601496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89525-1	GILBANEPM053022-10	Total/NA	Air	PM10	
320-89525-3	GILBANEPM053022-11	Total/NA	Air	PM10	

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# QC Association Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

## General Chemistry (Continued)

### Analysis Batch: 601496 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89525-5	GILBANEPM053022-12	Total/NA	Air	PM10	
320-89525-7	GILBANEPM053022-13	Total/NA	Air	PM10	

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# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

**Client Sample ID: GILBANEPM053022-10**  
 Date Collected: 06/23/22 15:13  
 Date Received: 06/29/22 09:55

**Lab Sample ID: 320-89525-1**  
 Matrix: Air

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					600947	07/06/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	600968	07/06/22 06:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			601155	07/06/22 12:42	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0205 g	601496	06/30/22 16:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-10**  
 Date Collected: 06/23/22 15:13  
 Date Received: 06/29/22 09:55

**Lab Sample ID: 320-89525-2**  
 Matrix: Air

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			601493	06/30/22 16:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-11**  
 Date Collected: 06/23/22 15:02  
 Date Received: 06/29/22 09:55

**Lab Sample ID: 320-89525-3**  
 Matrix: Air

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					600947	07/06/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	600968	07/06/22 06:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			601155	07/06/22 12:52	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0150 g	601496	06/30/22 16:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-11**  
 Date Collected: 06/23/22 15:02  
 Date Received: 06/29/22 09:55

**Lab Sample ID: 320-89525-4**  
 Matrix: Air

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			601493	06/30/22 16:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-12**  
 Date Collected: 06/28/22 06:58  
 Date Received: 06/29/22 09:55

**Lab Sample ID: 320-89525-5**  
 Matrix: Air

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					600947	07/06/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	600968	07/06/22 06:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			601155	07/06/22 12:55	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0410 g	601496	06/30/22 16:00	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

**Client Sample ID: GILBANETSP053022-12**

**Lab Sample ID: 320-89525-6**

Date Collected: 06/28/22 06:58

Matrix: Air

Date Received: 06/29/22 09:55

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			601493	06/30/22 16:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Client Sample ID: GILBANEPM053022-13**

**Lab Sample ID: 320-89525-7**

Date Collected: 06/28/22 06:27

Matrix: Air

Date Received: 06/29/22 09:55

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					600947	07/06/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	600968	07/06/22 06:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			601155	07/06/22 12:58	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0293 g	601496	06/30/22 16:00	JMD	TAL SAC

**Client Sample ID: GILBANETSP053022-13**

**Lab Sample ID: 320-89525-8**

Date Collected: 06/28/22 06:27

Matrix: Air

Date Received: 06/29/22 09:55

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			601493	06/30/22 16:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					600081	07/01/22 14:15	JMD	TAL SAC

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

## Laboratory: Eurofins 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	01-29-23

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

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



# Method Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89525-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-89525-1	GILBANEPM053022-10	Air	06/23/22 15:13	06/29/22 09:55
320-89525-2	GILBANETSP053022-10	Air	06/23/22 15:13	06/29/22 09:55
320-89525-3	GILBANEPM053022-11	Air	06/23/22 15:02	06/29/22 09:55
320-89525-4	GILBANETSP053022-11	Air	06/23/22 15:02	06/29/22 09:55
320-89525-5	GILBANEPM053022-12	Air	06/28/22 06:58	06/29/22 09:55
320-89525-6	GILBANETSP053022-12	Air	06/28/22 06:58	06/29/22 09:55
320-89525-7	GILBANEPM053022-13	Air	06/28/22 06:27	06/29/22 09:55
320-89525-8	GILBANETSP053022-13	Air	06/28/22 06:27	06/29/22 09:55

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

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT062822AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	<b>Event:</b> Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400	<b>POC:</b>	
<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



Event: Parcel E Phase 2 Air Monitoring June 2022

Sample ID	Matrix	Date	Time	Samp Init.														Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																				Top	Bottom		
1	GILBANEPM053022-10	A	06/23/2022		KT	X		X										AMSE1	N2	0.00	0.00	1	VOLUME: 473.95 (M3)
2	GILBANETSP053022-10	A	06/23/2022		KT		X											AMSE1	N2	0.00	0.00	1	VOLUME: 485.55 (M3)
3	GILBANEPM053022-11	A	06/23/2022		KT	X		X										AMSE2	N2	0.00	0.00	1	VOLUME: 592.21 (M3)
4	GILBANETSP053022-11	A	06/23/2022		KT		X											AMSE2	N2	0.00	0.00	1	VOLUME: 593.77 (M3)
5	GILBANEPM053022-12	A	06/28/2022		KT	X		X										AMSE1	N1	0.00	0.00	1	VOLUME: 1673.23 (M3)
6	GILBANETSP053022-12	A	06/28/2022		KT		X											AMSE1	N1	0.00	0.00	1	VOLUME: 1604.31 (M3)
7	GILBANEPM053022-13	A	06/28/2022		KT	X		X										AMSE2	N1	0.00	0.00	1	VOLUME: 1708.92 (M3)
8	GILBANETSP053022-13	A	06/28/2022		KT		X											AMSE2	N1	0.00	0.00	1	VOLUME: 1710.93 (M3)
9																							
10																							

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	06/28/2022	16:00	FEDEx	6/28/2022	16:00	Shipping Date: 6/28/2022 / FedEx 7772 4002 9454
				6/28/22	9:55	
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

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**CHAIN-OF-CUSTODY  
RECORD**

██████████  
██████████ k  
2300 Clayton Road, Suite 1050, Concord, CA 94520  
██████████

**COC # KT062822AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring June 2022
<b>Project Number:</b> J310000400	POC ██████████	
<b>WBS Code:</b> J310000400-016	Ship to: 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

Event: Parcel E Phase 2 Air Monitoring June 2022

	Sample ID	Matrix	Date	Time	Samp Init.													Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																				Top	Bottom		
1	GILBANEPM053022-10	A	06/23/2022	1513	KT	X		X										AMSE1	N2	0.00	0.00	1	VOLUME: 473.95 (M3)
2	GILBANETSP053022-10	A	06/23/2022	1513	KT		X											AMSE1	N2	0.00	0.00	1	VOLUME: 485.55 (M3)
3	GILBANEPM053022-11	A	06/23/2022	1502	KT	X		X										AMSE2	N2	0.00	0.00	1	VOLUME: 592.21 (M3)
4	GILBANETSP053022-11	A	06/23/2022	1502	KT		X											AMSE2	N2	0.00	0.00	1	VOLUME: 593.77 (M3)
5	GILBANEPM053022-12	A	06/28/2022	0658	KT	X		X										AMSE1	N1	0.00	0.00	1	VOLUME: 1673.23 (M3)
6	GILBANETSP053022-12	A	06/28/2022	0658	KT		X											AMSE1	N1	0.00	0.00	1	VOLUME: 1604.31 (M3)
7	GILBANEPM053022-13	A	06/28/2022	0627	KT	X		X										AMSE2	N1	0.00	0.00	1	VOLUME: 1708.92 (M3)
8	GILBANETSP053022-13	A	06/28/2022	0627	KT		X											AMSE2	N1	0.00	0.00	1	VOLUME: 1710.93 (M3)
9																							
10																							

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
						Shipping Date: 6/28/2022
						<b>Received by Laboratory: (Signature, Date, Time) &amp; condition</b>

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# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-89525-1

**Login Number: 89525**

**List Source: Eurofins 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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Tel: (916)373-5600

Laboratory Job ID: 320-89624-1

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

For:

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

Authorized for release by:

7/11/2022 9:04:18 PM

[REDACTED]  
[REDACTED]  
[REDACTED]

### LINKS

Review your project  
results through



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.



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# Definitions/Glossary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

## 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: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

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**Job ID: 320-89624-1**

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**Laboratory: Eurofins Sacramento**

## Narrative

**Job Narrative  
320-89624-1**

## Comments

No additional comments.

## Receipt

The samples were received on 7/1/2022 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 20.9° C.

## Receipt Exceptions

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): GES\_PM053022-14 (320-89624-1), GES\_TSP053022-14 (320-89624-2), GES\_PM053022-15 (320-89624-3), GES\_TSP053022-15 (320-89624-4), GES\_PM053022-16 (320-89624-5), GES\_TSP053022-16 (320-89624-6), GES\_PM053022-17 (320-89624-7) and GES\_TSP053022-17 (320-89624-8). All container sample IDs begin with GES\_ while the IDs on the COC begin with GILBANE. Samples were logged in to match the revised COC.

A revised COC was provided on July 11 changing the IDs to match the container labels. Copies of both COCs are included in the report.



# Detection Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

## Client Sample ID: GES\_PM053022-14

## Lab Sample ID: 320-89624-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0097		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GES\_TSP053022-14

## Lab Sample ID: 320-89624-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.5745		0.3044	0.3044	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GES\_PM053022-15

## Lab Sample ID: 320-89624-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.021		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0064		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	24		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GES\_TSP053022-15

## Lab Sample ID: 320-89624-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	41.2969		0.2876	0.2876	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GES\_PM053022-16

## Lab Sample ID: 320-89624-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00099		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0081		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0039		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GES\_TSP053022-16

## Lab Sample ID: 320-89624-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.5722		0.2984	0.2984	ug/m3 (Air)	1		40CFR50 App B	Total/NA

## Client Sample ID: GES\_PM053022-17

## Lab Sample ID: 320-89624-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.022		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	16		0.29	0.29	ug/m3	1		PM10	Total/NA

## Client Sample ID: GES\_TSP053022-17

## Lab Sample ID: 320-89624-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.3339		0.2878	0.2878	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

## Client Sample ID: GES\_PM053022-14

Lab Sample ID: 320-89624-1

Date Collected: 06/29/22 06:39

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.00070	0.00011	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:02	1
Copper	0.024		0.0014	0.00011	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:02	1
Manganese	0.0097		0.00070	0.000098	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:02	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	32		0.29	0.29	ug/m3			07/05/22 15:00	1

## Client Sample ID: GES\_TSP053022-14

Lab Sample ID: 320-89624-2

Date Collected: 06/29/22 06:39

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.5745		0.3044	0.3044	ug/m3 (Air)			07/05/22 15:00	1

## Client Sample ID: GES\_PM053022-15

Lab Sample ID: 320-89624-3

Date Collected: 06/29/22 06:30

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:12	1
Copper	0.021		0.0014	0.00010	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:12	1
Manganese	0.0064		0.00069	0.000097	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:12	1

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	24		0.29	0.29	ug/m3			07/05/22 15:00	1

## Client Sample ID: GES\_TSP053022-15

Lab Sample ID: 320-89624-4

Date Collected: 06/29/22 06:30

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

### General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	41.2969		0.2876	0.2876	ug/m3 (Air)			07/05/22 15:00	1

## Client Sample ID: GES\_PM053022-16

Lab Sample ID: 320-89624-5

Date Collected: 06/30/22 06:42

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00099		0.00069	0.00010	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:15	1
Copper	0.0081		0.0014	0.00010	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:15	1
Manganese	0.0039		0.00069	0.000097	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:15	1

Eurofins Sacramento

# Client Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

**Client Sample ID: GES\_PM053022-16**

**Lab Sample ID: 320-89624-5**

Date Collected: 06/30/22 06:42

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.29	0.29	ug/m3			07/05/22 15:00	1

**Client Sample ID: GES\_TSP053022-16**

**Lab Sample ID: 320-89624-6**

Date Collected: 06/30/22 06:42

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.5722		0.2984	0.2984	ug/m3 (Air)			07/05/22 15:00	1

**Client Sample ID: GES\_PM053022-17**

**Lab Sample ID: 320-89624-7**

Date Collected: 06/30/22 06:32

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012		0.00069	0.00010	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:18	1
Copper	0.022		0.0014	0.00010	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:18	1
Manganese	0.0025		0.00069	0.000097	ug/m3 (Air)		07/08/22 05:45	07/08/22 13:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.29	0.29	ug/m3			07/05/22 15:00	1

**Client Sample ID: GES\_TSP053022-17**

**Lab Sample ID: 320-89624-8**

Date Collected: 06/30/22 06:32

Matrix: Air

Date Received: 07/01/22 09:50

Sample Container: Folder/Filter

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.3339		0.2878	0.2878	ug/m3 (Air)			07/05/22 15:00	1

# QC Sample Results

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

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

**Lab Sample ID: MB 320-601564/1-B**  
**Matrix: Air**  
**Analysis Batch: 602090**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 601567**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		07/08/22 05:45	07/08/22 12:52	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		07/08/22 05:45	07/08/22 12:52	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		07/08/22 05:45	07/08/22 12:52	1

**Lab Sample ID: LCS 320-601564/2-B**  
**Matrix: Air**  
**Analysis Batch: 602090**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 601567**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.240		ug/m3 (Air)		100	86 - 111
Copper	0.240	0.258		ug/m3 (Air)		107	85 - 110
Manganese	0.240	0.259		ug/m3 (Air)		108	88 - 110

**Lab Sample ID: LCSD 320-601564/3-B**  
**Matrix: Air**  
**Analysis Batch: 602090**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 601567**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111	1	15
Copper	0.240	0.252		ug/m3 (Air)		105	85 - 110	2	15
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110	3	15

# QC Association Summary

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

## Metals

### Pre Prep Batch: 601564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89624-1	GES_PM053022-14	Total/NA	Air	Filter to Air	
320-89624-3	GES_PM053022-15	Total/NA	Air	Filter to Air	
320-89624-5	GES_PM053022-16	Total/NA	Air	Filter to Air	
320-89624-7	GES_PM053022-17	Total/NA	Air	Filter to Air	
MB 320-601564/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-601564/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-601564/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 601567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89624-1	GES_PM053022-14	Total/NA	Air	3050B	601564
320-89624-3	GES_PM053022-15	Total/NA	Air	3050B	601564
320-89624-5	GES_PM053022-16	Total/NA	Air	3050B	601564
320-89624-7	GES_PM053022-17	Total/NA	Air	3050B	601564
MB 320-601564/1-B	Method Blank	Total/NA	Air	3050B	601564
LCS 320-601564/2-B	Lab Control Sample	Total/NA	Air	3050B	601564
LCSD 320-601564/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	601564

### Analysis Batch: 602090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89624-1	GES_PM053022-14	Total/NA	Air	6020	601567
320-89624-3	GES_PM053022-15	Total/NA	Air	6020	601567
320-89624-5	GES_PM053022-16	Total/NA	Air	6020	601567
320-89624-7	GES_PM053022-17	Total/NA	Air	6020	601567
MB 320-601564/1-B	Method Blank	Total/NA	Air	6020	601567
LCS 320-601564/2-B	Lab Control Sample	Total/NA	Air	6020	601567
LCSD 320-601564/3-B	Lab Control Sample Dup	Total/NA	Air	6020	601567

## General Chemistry

### Pre Prep Batch: 602230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89624-2	GES_TSP053022-14	Total/NA	Air	Filter to Air	
320-89624-4	GES_TSP053022-15	Total/NA	Air	Filter to Air	
320-89624-6	GES_TSP053022-16	Total/NA	Air	Filter to Air	
320-89624-8	GES_TSP053022-17	Total/NA	Air	Filter to Air	

### Analysis Batch: 602236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89624-1	GES_PM053022-14	Total/NA	Air	PM10	
320-89624-3	GES_PM053022-15	Total/NA	Air	PM10	
320-89624-5	GES_PM053022-16	Total/NA	Air	PM10	
320-89624-7	GES_PM053022-17	Total/NA	Air	PM10	

### Analysis Batch: 602237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-89624-2	GES_TSP053022-14	Total/NA	Air	40CFR50 App B	602230
320-89624-4	GES_TSP053022-15	Total/NA	Air	40CFR50 App B	602230
320-89624-6	GES_TSP053022-16	Total/NA	Air	40CFR50 App B	602230
320-89624-8	GES_TSP053022-17	Total/NA	Air	40CFR50 App B	602230

Eurofins Sacramento

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

**Client Sample ID: GES\_PM053022-14**

**Lab Sample ID: 320-89624-1**

Date Collected: 06/29/22 06:39

Matrix: Air

Date Received: 07/01/22 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					601564	07/08/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	601567	07/08/22 05:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			602090	07/08/22 13:02	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0544 g	602236	07/05/22 15:00	JMD	TAL SAC

**Client Sample ID: GES\_TSP053022-14**

**Lab Sample ID: 320-89624-2**

Date Collected: 06/29/22 06:39

Matrix: Air

Date Received: 07/01/22 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			602237	07/05/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

**Client Sample ID: GES\_PM053022-15**

**Lab Sample ID: 320-89624-3**

Date Collected: 06/29/22 06:30

Matrix: Air

Date Received: 07/01/22 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					601564	07/08/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	601567	07/08/22 05:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			602090	07/08/22 13:12	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0413 g	602236	07/05/22 15:00	JMD	TAL SAC

**Client Sample ID: GES\_TSP053022-15**

**Lab Sample ID: 320-89624-4**

Date Collected: 06/29/22 06:30

Matrix: Air

Date Received: 07/01/22 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			602237	07/05/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

**Client Sample ID: GES\_PM053022-16**

**Lab Sample ID: 320-89624-5**

Date Collected: 06/30/22 06:42

Matrix: Air

Date Received: 07/01/22 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					601564	07/08/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	601567	07/08/22 05:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			602090	07/08/22 13:15	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0361 g	602236	07/05/22 15:00	JMD	TAL SAC

# Lab Chronicle

Client: GES-AIS, LLC  
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

**Client Sample ID: GES\_TSP053022-16**

**Lab Sample ID: 320-89624-6**

Date Collected: 06/30/22 06:42

Matrix: Air

Date Received: 07/01/22 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			602237	07/05/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

**Client Sample ID: GES\_PM053022-17**

**Lab Sample ID: 320-89624-7**

Date Collected: 06/30/22 06:32

Matrix: Air

Date Received: 07/01/22 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					601564	07/08/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	601567	07/08/22 05:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			602090	07/08/22 13:18	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0273 g	602236	07/05/22 15:00	JMD	TAL SAC

**Client Sample ID: GES\_TSP053022-17**

**Lab Sample ID: 320-89624-8**

Date Collected: 06/30/22 06:32

Matrix: Air

Date Received: 07/01/22 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			602237	07/05/22 15:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					602230	07/11/22 15:31	JMD	TAL SAC

**Laboratory References:**

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



# Accreditation/Certification Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

## Laboratory: Eurofins 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	01-29-23

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

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

# Method Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

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 Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: GES-AIS, LLC  
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-89624-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-89624-1	GES_PM053022-14	Air	06/29/22 06:39	07/01/22 09:50
320-89624-2	GES_TSP053022-14	Air	06/29/22 06:39	07/01/22 09:50
320-89624-3	GES_PM053022-15	Air	06/29/22 06:30	07/01/22 09:50
320-89624-4	GES_TSP053022-15	Air	06/29/22 06:30	07/01/22 09:50
320-89624-5	GES_PM053022-16	Air	06/30/22 06:42	07/01/22 09:50
320-89624-6	GES_TSP053022-16	Air	06/30/22 06:42	07/01/22 09:50
320-89624-7	GES_PM053022-17	Air	06/30/22 06:32	07/01/22 09:50
320-89624-8	GES_TSP053022-17	Air	06/30/22 06:32	07/01/22 09:50

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

**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT063022AIR**



<b>Project Name:</b> Hunters Point Shipyard, Parcel E RA Phase 2	<b>Laboratory:</b> EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	<b>Event:</b> Parcel E Phase 2 Air Monitoring June 2022
<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 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>Equipment:</b>			<b>Code</b> Container/Preservative	
			1 1x 250-mL Plastic, 4 Degrees C	
			1 1x Envelope, None	



320-89624 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring June 2022																	
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	GILBANEPM053022-14	A	06/29/2022	0639	KT	X		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1710.95 (M3)
2	GILBANETSP053022-14	A	06/29/2022	0639	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1642.47 (M3)
3	GILBANEPM053022-15	A	06/29/2022	0630	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1739.97 (M3)
4	GILBANETSP053022-15	A	06/29/2022	0630	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1738.63 (M3)
5	GILBANEPM053022-16	A	06/30/2022	0642	KT	X		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1739.89 (M3)
6	GILBANETSP053022-16	A	06/30/2022	0642	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1675.60 (M3)
7	GILBANEPM053022-17	A	06/30/2022	0632	KT	X		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1738.24 (M3)
8	GILBANETSP053022-17	A	06/30/2022	0632	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1737.33 (M3)
9																	
10																	

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	6/30/2022	1600	FED EX	6/30/2022	1600	Shipping Date: 6/30/2022 / FedEx 7772 6320 7191
			[Redacted]	7/1/22	0950	Received by Laboratory: (Signature, Date, Time) & condition

GES Navy\_COC\_Field  
June 30, 2022

209°C



**CHAIN-OF-CUSTODY  
RECORD**

Gilbane Federal  
2300 Clayton Road, Suite 1050, Concord, CA 94520

**COC # KT063022AIR**



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)	Event: Parcel E Phase 2 Air Monitoring June 2022
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:  
Update "GILBANE" to "GES\_" in sample IDs. KJ 7/11/2022

Code	Matrix
A	Air
Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None

Equipment:

Analytical Test Method  
CAAIR - Air PM10  
N0500 - Air TSP  
SW6020 - Air Pb Mn Cu



Sample ID	Matrix	Date	Time	Samp Init.	1	1	1	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
										Top	Bottom		
1	GILBANEPM053022-14	A	06/29/2022	0639	KT	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1710.95 (M3)
2	GILBANETSP053022-14	A	06/29/2022	0639	KT		X	AMSE1	N1	0.00	0.00	1	VOLUME: 1642.47 (M3)
3	GILBANEPM053022-15	A	06/29/2022	0630	KT	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1739.97 (M3)
4	GILBANETSP053022-15	A	06/29/2022	0630	KT		X	AMSE2	N1	0.00	0.00	1	VOLUME: 1738.63 (M3)
5	GILBANEPM053022-16	A	06/30/2022	0642	KT	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1739.89 (M3)
6	GILBANETSP053022-16	A	06/30/2022	0642	KT		X	AMSE1	N1	0.00	0.00	1	VOLUME: 1675.60 (M3)
7	GILBANEPM053022-17	A	06/30/2022	0632	KT	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1738.24 (M3)
8	GILBANETSP053022-17	A	06/30/2022	0632	KT		X	AMSE2	N1	0.00	0.00	1	VOLUME: 1737.33 (M3)
9													
10													

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	6/30/2022	1600	FED EX	6/30/2022	1600	Shipping Date: 6/30/2022 / FedEx 7772 6320 7191
			[Redacted]	7/11/22	0950	Received by Laboratory: (Signature, Date, Time) & condition

209°C



# Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-89624-1

**Login Number: 89624**

**List Source: Eurofins 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.	False	IDs on containers do not match the COC. Logged in per COC.
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	

