

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

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

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Prepared for:

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## **Acronyms and Abbreviations**

AMSR	Air Monitoring Summary Report
Cal/OSHA	California Occupational Safety and Health Administration
Cfm	cubic feet per minute
CFR	Code of Federal Regulations
СТО	Contract Task Order
DMCP	Dust Monitoring and Control Plan
DTSC	State of California Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
fiber/cm <sup>3</sup>	fibers per cubic centimeter
Gilbane	Gilbane Federal
HPNS	Hunters Point Naval Shipyard
L/min	liters per minute
mg/m <sup>3</sup>	milligrams per cubic meter
Navy	U.S. Department of the Navy
NIOSH	National Institute for Occupational Safety and Health
PEL	permissible exposure limit
PM10	particulate matter less than 10 microns in diameter
RAWP	Remedial Action Work Plan
TSP	total suspended particulates
TWA	time-weighted average
µg/m <sup>3</sup>	micrograms per cubic meter

## 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 September 1<sup>st</sup>, 2022 through September 30<sup>th</sup>, 2022 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

1.0 Introduction

### 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 APTIM HPNS - KCASANFR1504 published at Weather Underground (www.wunderground.com). If the APTIM station did not have available data, the Bayview Manor - KCASANFR1775 was used.

Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at 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

## 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 (ug/m<sup>3</sup>).

Test Parameter	Threshold Criteria	Threshold Criteria Reference								
Asbestos	0.1 fiber/cm <sup>3</sup>	Cal/OSHA PEL								
PM10 <sup>a</sup>	5,000 ug/m <sup>3</sup>	Cal/OSHA PEL								
		Basewide HPNS Level selected to								
TSP	0.5 mg/m <sup>3</sup>	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	Occupational and public air concentration								
	Concentration	limits for ROCs are published in 10 Code of								
	Values	Federal Regulations Part 20, Appendix B.								

Table 4-1: Air Monitoring Threshold Criteria
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#### Notes:

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

ug/m<sup>3</sup> = 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

4.0 Air Monitoring Data Interpretation and Action Levels

## 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 APTIM HPNS - KCASANFR1504. If the APTIM station did not have available data, the Bayview Manor - KCASANFR1775 was used.

Air Monitoring Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from September 1<sup>st</sup>, 2022 through September 30<sup>th</sup>, 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 September 1<sup>st</sup>, 2022 through September 30<sup>th</sup>, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from September 1<sup>st</sup>, 2022 through September 30<sup>th</sup>, 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 September 1<sup>st</sup>, 2022 through September 30<sup>th</sup>, 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 September 1<sup>st</sup>, 2022 through September 30<sup>th</sup>, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from September 1<sup>st</sup>, 2022 through September 30<sup>th</sup>, 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.

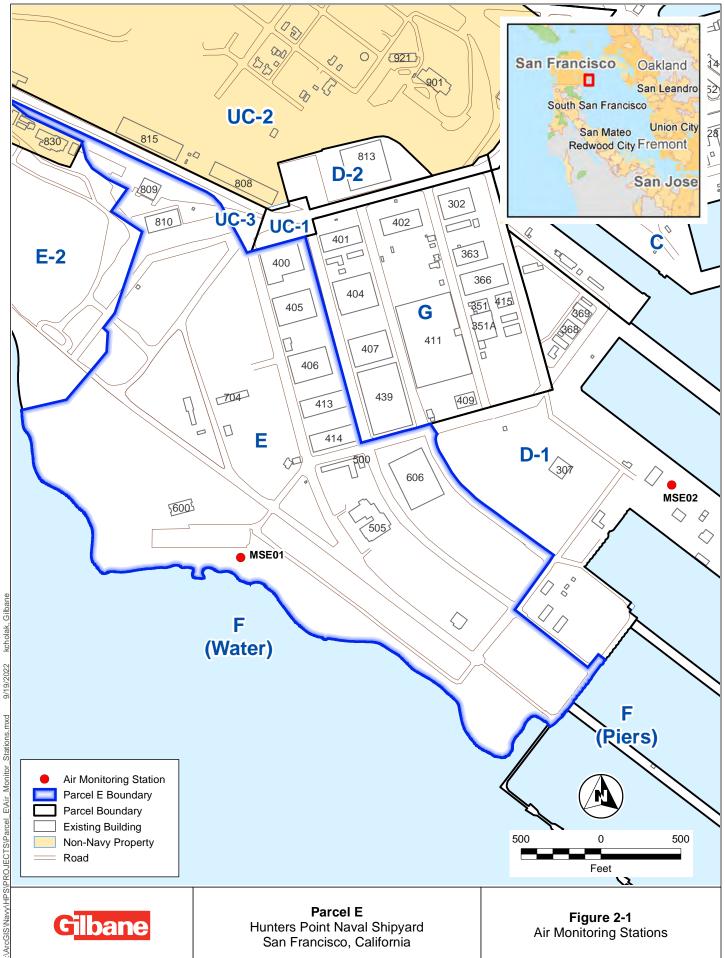
5.0 Air Monitoring Results

### 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.

Figures

# **FIGURES**



9/19/2022 Stations.mxd G:\ArcGIS\Navy\HPS\PROJECTS\Parcel\_E\Air\_Monitor

# ATTACHMENT 1 AMBIENT PRESSURE, TEMPERATURE, AND

## PREVALENT WIND DIRECTION MONITORING RESULTS

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
9/1/2022 <sup>1</sup>	29.97	63.47	W
9/6/2022 <sup>1</sup>	29.88	75.43	W
9/7/2022 <sup>1</sup>	29.98	71.68	NW
9/8/2022 <sup>1</sup>	29.88	71.93	WNW
9/12/2022 <sup>1</sup>	30.00	61.69	WSW
9/13/2022 <sup>1</sup>	29.98	61.95	W
9/14/2022 <sup>1</sup>	30.03	63.27	W
9/15/2022 <sup>1</sup>	30.10	62.09	W
9/19/2022 <sup>1</sup>	29.92	64.66	S
9/20/2022 <sup>1</sup>	29.98	64.80	NNW
9/21/2022 <sup>1</sup>	30.06	65.18	W
9/22/2022 <sup>1</sup>	30.15	66.88	WNW
9/26/2022 <sup>1</sup>	30.05	58.53	W
9/27/2022 <sup>1</sup>	29.99	59.51	WSW
9/28/2022 <sup>2</sup>	30.03	59.91	WSW
9/29/2022 <sup>2</sup>	30.04	67.10	WSW

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

#### Notes:

<sup>1</sup>Data collected using wunderground.com from APTIM HPNS Station - KCASANFR1504 <sup>2</sup>Data collected using wunderground.com from APTIM HPNS Station - KCASANFR1504

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

# ATTACHMENT 2 ASBESTOS MONITORING RESULTS

Sample, Date a	and Station I	oformation	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)	
MSE01-090122	09/01/22	1	426	852	8.0	0.005	No	
MSE02-090122	09/01/22	2	422	844	8.0	0.005	No	
MSE01-090622	09/06/22	1	550	1100	15.5	0.007	No	
MSE02-090622	09/06/22	2	560	1120	10.0	0.004	No	
MSE01-090722	09/07/22	1	552	1104	10.5	0.005	No	
MSE02-090722	09/07/22	2	578	1156	10.0	0.004	No	
MSE01-090822	09/08/22	1	460	920	2.0	<0.003	No	
MSE02-090822	09/08/22	2	456	912	3.5	<0.003	No	
MSE01-091222	09/12/22	1	536	1072	6.5	0.003	No	
MSE02-091222	09/12/22	2	572	1144	11.5	0.005	No	
MSE01-091322	09/13/22	1	561	1122	1.0	<0.002	No	
MSE02-091322	09/13/22	2	559	1118	4.5	<0.002	No	
MSE01-091422	09/14/22	1	536	1072	10.0	0.005	No	
MSE02-091422	09/14/22	2	558	1116	4.5	<0.002	No	
MSE01-091522	09/15/22	1	482	964	5.5	0.003	No	
MSE02-091522	09/15/22	2	475	950	2.0	<0.003	No	
MSE01-091922	09/19/22	1	524	1048	1.0	<0.003	No	
MSE02-091922	09/19/22	2	521	1042	1.0	<0.003	No	
MSE01-092022	09/20/22	1	460	920	3.5	<0.003	No	
MSE02-092022	09/20/22	2	480	960	3.0	<0.003	No	
MSE01-092122	09/21/22	1	520	1040	1.5	<0.003	No	
MSE02-092122	09/21/22	2	538	1076	3.0	<0.003	No	
MSE01-092222	09/22/22	1	485	970	2.0	<0.003	No	
MSE02-092222	09/22/22	2	503	1006	2.0	<0.003	No	
MSE01-092622	09/26/22	1	560	1120	6.5	0.003	No	
MSE02-092622	09/26/22	2	557	1114	1.0	<0.002	No	
MSE01-092722	09/27/22	1	488	976	3.0	<0.003	No	
MSE02-092722	09/27/22	2	494	988	3.0	<0.003	No	
MSE01-092822	09/28/22	1	543	1086	2.5	<0.002	No	
MSE02-092822	09/28/22	2	552	1104	0.0	<0.002	No	
MSE01-092922	09/29/22	1	451	902	2.0	<0.003	No	
MSE02-092922	09/29/22	2	482	964	3.5	<0.003	No	

#### **Attachment 2: Asbestos Monitoring Results**

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

#### 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> )	Concen- tration in Air (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (mg/m <sup>3</sup> )	Delta between Downwind and Upwind (ug/m <sup>3</sup> )	Cal/OSHA PEL (ug/m <sup>3</sup> )	Exceedance (Yes/No)	HERO Action Level <sup>3</sup> (ug/m <sup>3</sup> )	Exceedance (Yes/No)
GESPM072622	-140	1	09/01/22	1755.59	0.025						
GESPM072622	-141	2	09/01/22	1779.16	0.026	0.0010	1.0	5,000	No	50	No
GESPM072622	-142	1	09/01/22 <sup>2</sup>	498.40	0.039						
GESPM072622	-143	2	09/01/22 <sup>2</sup>	504.72	0.012	-0.0270	-27.0	5,000	No	50	No
GESPM072622	-144	1	09/07/22	1719.5	0.055						
GESPM082222	-217	2	09/07/22	1707.83	0.041	-0.0140	-14.0	5,000	No	50	No
GESPM082222	-218	1	09/08/22	1752.92	0.041						
GESPM082222	-219	2	09/08/22	1777.55	0.033	-0.0080	-8.0	5,000	No	50	No
GESPM082222	-220	1	09/08/22 <sup>2</sup>	545.12	0.043						
GESPM082222	-221	2	09/08/22 <sup>2</sup>	550.75	0.041	-0.0020	-2.0	5,000	No	50	No
GESPM082222	-222	1	09/13/22	1710.95	0.042						
GESPM082222	-223	2	09/13/22	1757.89	0.023	-0.0190	-19.0	5,000	No	50	No
GESPM082222	-224	1	09/14/22	1741.46	0.01						
GESPM082222	-225	2	09/14/22	1773.2	0.013	0.0030	3.0	5,000	No	50	No
GESPM082222	-226	1	09/15/22	1489.99	0.028						
GESPM082222	-227	2	09/15/22	1755.12	0.018	-0.0100	-10.0	5,000	No	50	No
GESPM082222	-228	1	09/15/22 <sup>2</sup>	541.43	0.031						
GESPM082222	-229	2	09/15/22 <sup>2</sup>	581.44	0.019	-0.0120	-12.0	5,000	No	50	No
GESPM082222	-230	1	09/20/22	1712.54	0.012						
GESPM082222	-231	2	09/20/22	1733.88	0.011	-0.0010	-1.0	5,000	No	50	No
GESPM082222	-232	1	09/21/22	1729.41	0.013						
GESPM082222	-233	2	09/21/22	1764.01	0.012	-0.0010	-1.0	5,000	No	50	No
GESPM082222	-234	1	09/22/22	1731.49	0.016						
GESPM090622	-253	2	09/22/22	1794.77	0.012	-0.0040	-4.0	5,000	No	50	No
GESPM090622	-254	1	09/22/22 <sup>2</sup>	572.69	0.026						
GESPM090622	-255	2	09/22/22 <sup>2</sup>	589.25	0.024	-0.0020	-2.0	5,000	No	50	No
GESPM090622	-256	1	09/27/22	1724.29	0.024						
GESPM090622	-257	2	09/27/22	1777.9	0.0084	-0.0156	-15.6	5,000	No	50	No
GESPM090622	-258	1	09/28/22	1678.74	0.042						
GESPM090622	-259	2	09/28/22	1722.14	0.02	-0.0220	-22.0	5,000	No	50	No
GESPM090622	-260	1	09/29/22	1747.75	0.05						
GESPM090622	-261	2	09/29/22	1791.66	0.017	-0.0330	-33.0	5,000	No	50	No
GESPM090622	-262	1	09/29/22 <sup>2</sup>	531.78	0.035						
GESPM090622	-263	2	09/29/22 <sup>2</sup>	577.09	0.029	-0.0060	-6.0	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>43</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

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

Sample, Date and Station Information			Sampler Run Information	Сорг	ber	Lea	ıd	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)	
GESPM072622-140	1	09/01/22	1755.59	0.000015	No	0.0000042	No	0.0000097	No	
GESPM072622-141	2	09/01/22	1779.16	0.000024	No	0.0000033	No	0.0000075	No	
GESPM072622-142	1	09/01/22 <sup>2</sup>	498.40	0.000035	No	0.0000074	No	0.000024	No	
GESPM072622-143	2	09/01/22 <sup>2</sup>	504.72	0.00002	No	0.0000022 J	No	0.0000064	No	
GESPM072622-144	1	09/07/22	1719.5	0.000031	No	0.0000076	No	0.000023	No	
GESPM082222-217	2	09/07/22	1707.83	0.000023	No	0.0000051	No	0.000012	No	
GESPM082222-218	1	09/08/22	1752.92	0.000023	No	0.000005	No	0.000013	No	
GESPM082222-219	2	09/08/22	1777.55	0.000016	No	0.0000025	No	0.000007	No	
GESPM082222-220	1	09/08/22 <sup>2</sup>	545.12	0.000094	No	0.000013	No	0.000055	No	
GESPM082222-221	2	09/08/22 <sup>2</sup>	550.75	0.00011	No	0.0000071	No	0.000013	No	
GESPM082222-222	1	09/13/22	1710.95	0.000044	No	0.0000085	No	0.000024	No	
GESPM082222-223	2	09/13/22	1757.89	0.000015	No	0.0000027	No	0.0000061	No	
GESPM082222-224	1	09/14/22	1741.46	0.000011	No	0.0000017	No	0.0000037	No	
GESPM082222-225	2	09/14/22	1773.2	0.00013	No	0.0000018	No	0.0000047	No	
GESPM082222-226	1	09/15/22	1489.99	0.000021	No	0.0000056	No	0.000015	No	
GESPM082222-227	2	09/15/22	1755.12	0.00019	No	0.0000024	No	0.0000061	No	
GESPM082222-228	1	09/15/22 <sup>2</sup>	541.43	0.000031	No	0.0000067	No	0.000018	No	
GESPM082222-229	2	09/15/22 <sup>2</sup>	581.44	0.00011	No	0.0000046	No	0.000012	No	
GESPM082222-230	1	09/20/22	1712.54	0.000072	No	0.0000013	No	0.0000029	No	
GESPM082222-231	2	09/20/22	1733.88	0.000021	No	0.00000099	No	0.0000017	No	
GESPM082222-232	1	09/21/22	1729.41	0.000053	No	0.0000015	No	0.0000047	No	
GESPM082222-233	2	09/21/22	1764.01	0.000028	No	0.0000084	No	0.0000028	No	
GESPM082222-234	1	09/22/22	1731.49	0.000016	No	0.0000019	No	0.0000053	No	
GESPM090622-253	2	09/22/22	1794.77	0.000021	No	0.00000076	No	0.0000024	No	
GESPM090622-254	1	09/22/22 <sup>2</sup>	572.69	0.000061	No	0.0000031	No	0.0000091	No	
GESPM090622-255	2	$09/22/22^2$	589.25	0.00015	No	0.0000022	No	0.0000057	No	
GESPM090622-256	1	09/27/22	1724.29	0.000095	No	0.0000049	No	0.000011	No	
GESPM090622-257	2	09/27/22	1777.9	0.00002	No	0.0000014	No	0.0000037	No	
GESPM090622-258	1	09/28/22	1678.74	0.000039	No	0.0000077	No	0.000025	No	
GESPM090622-259	2	09/28/22	1722.14	0.000019	No	0.0000015	No	0.0000037	No	
GESPM090622-260	1	09/29/22	1747.75	0.000057	No	0.000011	No	0.000026	No	
GESPM090622-261	2	09/29/22	1791.66	0.000013	No	0.0000011	No	0.0000032	No	
GESPM090622-262	1	09/29/22 <sup>2</sup>	531.78	0.0001	No	0.0000032	No	0.00001	No	
GESPM090622-263	2	09/29/22 <sup>2</sup>	577.09	0.000078	No	0.0000017 J	No	0.0000035	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.

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. See data review report for details.

< = below detection limit

# ATTACHMENT 5 TOTAL SUSPENDED PARTICULATES MONITORING RESULTS

Sample, Date and St	ation Inform	ation	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)		
GESTSP072622-140	1	09/01/22	1677.61	0.0454814					
GESTSP072622-141	2	09/01/22	1776.29	0.0304004	-0.015	0.5	No		
GESTSP072622-142	1	09/01/22 <sup>2</sup>	476.19	0.0665701					
GESTSP072622-143	2	09/01/22 <sup>2</sup>	501.58	0.0332948	-0.033	0.5	No		
GESTSP072622-144	1	09/07/22	1654.55	0.0701701					
GESTSP082222-217	2	09/07/22	1694.54	0.0593671	-0.011	0.5	No		
GESTSP082222-218	1	09/08/22	1713.72	0.0479075					
GESTSP082222-219	2	09/08/22	1776.14	0.0482507	0.0003	0.5	No		
GESTSP082222-220	1	09/08/22 <sup>2</sup>	530.68	0.0629381					
GESTSP082222-221	2	09/08/22 <sup>2</sup>	546.31	0.0684593	0.006	0.5	No		
GESTSP082222-222	1	09/13/22	1634.79	0.0909597					
GESTSP082222-223	2	09/13/22	1740.54	0.0554426	-0.036	0.5	No		
GESTSP082222-224	1	09/14/22	1662.61	0.0163598					
GESTSP082222-225	2	09/14/22	1765.01	0.0224361	0.006	0.5	No		
GESTSP082222-226	1	09/15/22	1424.31	0.052306					
GESTSP082222-227	2	09/15/22	1754.42	0.0260485	-0.026	0.5	No		
GESTSP082222-228	1	09/15/22 <sup>2</sup>	519.82	0.0652149					
GESTSP082222-229	2	09/15/22 <sup>2</sup>	579.04	0.0341945	-0.031	0.5	No		
GESTSP082222-230	1	09/20/22	1646.47	0.0153662					
GESTSP082222-231	2	09/20/22	1725.19	0.0156505	0.0003	0.5	No		
GESTSP082222-232	1	09/21/22	1658	0.0170084					
GESTSP082222-233	2	09/21/22	1763.09	0.0195112	0.0025	0.5	No		
GESTSP082222-234	1	09/22/22	1658.84	0.0212196					
GESTSP090622-253	2	09/22/22	1776.09	0.0189743	-0.0022	0.5	No		
GESTSP090622-254	1	09/22/22 <sup>2</sup>	547.93	0.0250032					
GESTSP090622-255	2	09/22/22 <sup>2</sup>	586.05	0.0339561	0.009	0.5	No		
GESTSP090622-256	1	09/27/22	1647	0.0344869					
GESTSP090622-257	2	09/27/22	1770.49	0.0195426	-0.015	0.5	No		
GESTSP090622-258	1	09/28/22	1605.04	0.0664158					
GESTSP090622-259	2	09/28/22	1727.05	0.0283721	-0.038	0.5	No		
GESTSP090622-260	1	09/29/22	1669.54	0.077746					
GESTSP090622-261	2	09/29/22	1793.09	0.024929	-0.053	0.5	No		
GESTSP090622-262	1	09/29/22 <sup>2</sup>	512.88	0.0475745					
GESTSP090622-263	2	09/29/22 <sup>2</sup>	578.02	0.0346009	-0.013	0.5	No		

#### Attachment 5: Total Suspended Particulates Monitoring Results

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.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

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

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

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

## ATTACHMENT 6 AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

Gilba	ane									AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITO           Effluent Air Concentration         Sampling Period         Color Codes									ORING					
				P	Project Inform	ation					Effluent	t Air Con	ncentration		Sa	mpling Per	riod	Color Codes						
Contract /	Task Order N	umber:	Project Tit	tle / Locati	on:		Gilbane Project N	Number:					Alpha	Beta	Air s	Air samples collected			Value < 0	).1 x Efflue	ent Conc (i.	e., < 10%)		
N62473	3-17-D-0005 /	F4332	HPNSPa	rcel E Pha	ase 2 RA / Sar	n Francisco, CA	J3	10000400		Radionuclide Ra-226 Sr-90			Sr-90	between 01 Sep 2022			Value > 0.1 x Effluent Conc (i.e., > 10%)							
			Info	rmation ef	fective as of:	12 Oct 2022				Effluent Conc (µCi/ml) 9.E-13 6.E-12				and 29 Sep 2022			Value > Effluent Conc (i.e., > 100%)							
				ç	Sample Colle	ction				Count Information				n			Sample Results				Init	Initials		
Sample	ample Sample Sample		mple Equip Ave Flow Start		Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activitv	(µCi/ml)	Effluent	Conc (%)	Count	Data		
Number	Туре		ation	No	Rate (lpm)	Day Time	Date Time	Time (min)	(ml)	No	Date	(min)	Units	Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta	Tech	Reviewer	
AS-0673	Perimeter	MS	SE01	PE13	50	9/1/22 3:37	9/1/22 13:32	595	3.0E+07	Е	09/06/22	1	cpm	0.20	4.00	0.6	7.9	9.6E-15	1.2E-13	1.1%	2.0%	JV	BCS	
AS-0674	Perimeter	MS	SE02	PE14	50	9/1/22 3:25	9/1/22 13:42	617	3.1E+07	Е	09/06/22	1	cpm	0.40	3.95	1.3	7.7	1.9E-14	1.1E-13	2.1%	1.9%	JV	BCS	
AS-0675	Perimeter	MS	SE01	PE13	50	9/6/22 7:15	9/6/22 16:00	525	2.6E+07	Е	09/12/22	1	cpm	0.15	5.60	0.5	12.4	8.2E-15	2.1E-13	0.9%	3.5%	DFB	BCS	
AS-0676	Perimeter	MS	SE02	PE14	50	9/6/22 6:55	9/6/22 15:38	523	2.6E+07	Е	09/12/22	1	cpm	0.15	6.05	0.5	13.7	8.2E-15	2.4E-13	0.9%	3.9%	DFB	BCS	
AS-0677	Perimeter	MS	SE01	PE13	50	9/7/22 3:45	9/7/22 16:05	740	3.7E+07	Е	09/12/22	1	cpm	0.15	4.30	0.5	8.7	5.8E-15	1.1E-13	0.6%	1.8%	DFB	BCS	
AS-0678	Perimeter	MS	SE02	PE14	50	9/7/22 3:40	9/7/22 16:07	747	3.7E+07	Е	09/12/22	1	cpm	0.05	4.65	0.2	9.7	1.9E-15	1.2E-13	0.2%	2.0%	DFB	BCS	
AS-0679	Perimeter	MS	SE01	PE13	50	9/8/22 3:40	9/8/22 14:09	629	3.1E+07	Е	09/12/22	1	cpm	0.15	4.35	0.5	8.9	6.8E-15	1.3E-13	0.8%	2.1%	DFB	BCS	
AS-0680	Perimeter	MS	SE02	PE14	50	9/8/22 3:30	9/8/22 14:20	650	3.2E+07	Е	09/12/22	1	cpm	0.20	3.80	0.6	7.3	8.8E-15	1.0E-13	1.0%	1.7%	DFB	BCS	
AS-0681	Perimeter	MS	SE01	PE13	50	9/12/22 6:40	9/12/22 15:48	548	2.7E+07	Е	09/19/22	1	cpm	0.10	5.00	0.3	10.7	5.2E-15	1.8E-13	0.6%	2.9%	DFB	BCS	
AS-0682	Perimeter	MS	SE02	PE14	50	9/12/22 6:52	9/12/22 15:58	546	2.7E+07	Е	09/19/22	1	cpm	0.10	4.45	0.3	9.2	5.2E-15	1.5E-13	0.6%	2.5%	DFB	BCS	
AS-0683	Perimeter	MS	SE01	PE13	50	9/13/22 3:30	9/13/22 15:48	738	3.7E+07	Е	09/19/22	1	cpm	0.05	4.10	0.2	8.2	1.9E-15	1.0E-13	0.2%	1.7%	DFB	BCS	
AS-0684	Perimeter	MS	SE02	PE14	50	9/13/22 3:22	9/13/22 15:43	741	3.7E+07	Е	09/19/22	1	cpm	0.15	4.85	0.5	10.3	5.8E-15	1.3E-13	0.6%	2.1%	DFB	BCS	
AS-0685	Perimeter	MS	SE01	PE13	50	9/14/22 3:38	9/14/22 15:45	727	3.6E+07	Е	09/19/22	1	cpm	0.35	4.50	1.1	9.3	1.4E-14	1.2E-13	1.5%	1.9%	DFB	BCS	
AS-0686	Perimeter	MS	SE02	PE14	50	9/14/22 3:33	9/14/22 15:42	729	3.6E+07	Е	09/19/22	1	cpm	0.30	4.45	1.0	9.2	1.2E-14	1.1E-13	1.3%	1.9%	DFB	BCS	
AS-0687	Perimeter	MS	SE01	PE13	50	9/15/22 3:36	9/15/22 14:43	667	3.3E+07	Е	09/19/22	1	cpm	0.30	4.10	1.0	8.2	1.3E-14	1.1E-13	1.4%	1.8%	DFB	BCS	
AS-0688	Perimeter	MS	SE02	PE14	50	9/15/22 7:30	9/15/22 15:23	473	2.4E+07	Е	09/19/22	1	cpm	0.20	4.65	0.6	9.7	1.2E-14	1.9E-13	1.3%	3.1%	DFB	BCS	
AS-0689	Perimeter	MS	SE01	PE13	50	9/19/22 6:37	9/19/22 15:38	541	2.7E+07	Е	09/26/22	1	cpm	0.25	3.30	0.8	5.9	1.3E-14	9.9E-14	1.5%	1.6%	JSV	BCS	
AS-0690	Perimeter	MS	SE02	PE14	50	9/19/22 6:40	9/19/22 15:32	532	2.7E+07	Е	09/26/22	1	cpm	0.20	4.05	0.6	8.0	1.1E-14	1.4E-13	1.2%	2.3%	JSV	BCS	
AS-0691	Perimeter	MS	SE01	PE13	50	9/20/22 3:35	9/20/22 14:31	656	3.3E+07	Е	09/26/22	1	cpm	0.20	3.85	0.6	7.5	8.7E-15	1.0E-13	1.0%	1.7%	JSV	BCS	
AS-0692	Perimeter	MS	SE02	PE14	50	9/20/22 3:30	9/20/22 14:24	654	3.3E+07	Е	09/26/22	1	cpm	0.15	3.80	0.5	7.3	6.6E-15	1.0E-13	0.7%	1.7%	JSV	BCS	
AS-0693	Perimeter	MS	SE01	PE13	50	9/21/22 3:20	9/21/22 15:27	727	3.6E+07	Е	09/26/22	1	cpm	0.10	4.50	0.3	9.3	3.9E-15	1.2E-13	0.4%	1.9%	JSV	BCS	
AS-0694	Perimeter	MS	SE02	PE14	50	9/21/22 3:15	9/21/22 15:21	726	3.6E+07	Е	09/26/22	1	cpm	0.20	4.75	0.6	10.0	7.9E-15	1.2E-13	<b>0.9%</b>	2.1%	JSV	BCS	
AS-0695	Perimeter	MS	SE01	PE13	50	9/22/22 3:25	9/22/22 14:42	677	3.4E+07	Е	09/26/22	1	cpm	0.10	3.80	0.3	7.3	4.2E-15	9.7E-14	0.5%	1.6%	JSV	BCS	
AS-0696	Perimeter	MS	SE02	PE14	50	9/22/22 3:20	9/22/22 15:01	701	3.5E+07	Е	09/26/22	1	cpm	0.30	4.25	1.0	8.6	1.2E-14	1.1E-13	1.4%	1.8%	JSV	BCS	
AS-0697	Perimeter	MS	SE01	PE13	50	9/26/22 6:38	9/26/22 15:21	523	2.6E+07	F	10/04/22	1	cpm	0.10	4.60	0.0	7.0	0.0E+00	1.2E-13	0.0%	2.0%	DFB	BCS	
AS-0698	Perimeter	MS	SE02	PE14	50	9/26/22 6:30	9/26/22 15:27	537	2.7E+07	F	10/04/22	1	cpm	0.25	4.50	0.5	6.7	8.5E-15	1.1E-13	0.9%	1.9%	DFB	BCS	
AS-0699	Perimeter	MS	SE01	PE13	50	9/27/22 3:30	9/27/22 15:32	722	3.6E+07	F	10/04/22	1	cpm	0.45	5.50	1.2	9.6	1.5E-14	1.2E-13	1.6%	2.0%	DFB	BCS	
AS-0700	Perimeter	MS	SE02	PE14	50	9/27/22 3:35	9/27/22 16:00	745	3.7E+07	F	10/04/22	1	cpm	0.20	5.20	0.3	8.7	4.1E-15	1.1E-13	0.5%	1.8%	DFB	BCS	
AS-0701	Perimeter	MS	SE01	PE13	50	9/28/22 3:20	9/28/22 15:49	749	3.7E+07	F	10/04/22	1	cpm	0.15	4.95	0.2	8.0	2.0E-15	9.6E-14	0.2%	1.6%	DFB	BCS	
AS-0702	Perimeter	MS	SE02	PE14	50	9/28/22 3:15	9/28/22 15:40	745	3.7E+07	F	10/04/22	1	cpm	0.20	3.85	0.3	4.8	4.1E-15	5.8E-14	0.5%	1.0%	DFB	BCS	
AS-0703	Perimeter	MS	SE01	PE13	50	9/29/22 3:15	9/29/22 14:20	665	3.3E+07	F	10/04/22	1	cpm	0.00	3.80	-0.3	4.6	N/A	6.3E-14	N/A	1.0%	DFB	BCS	
AS-0704	Perimeter	MS	SE02	PE14	50	9/29/22 3:10	9/29/22 14:27	677	3.4E+07	F	10/04/22	1	cpm	0.20	4.95	0.3	8.0	4.5E-15	1.1E-13	0.5%	1.8%	DFB	BCS	

# ATTACHMENT 7 LABORATORY REPORTS

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Job ID: 22090950



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:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/09/2022 15:29
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Sample Collection Date & Time 9/1/2022 13:51	<b>Matrix</b> Cassette	A&B Job Sample ID 22090950.01
9/1/2022 13:39	Cassette	22090950.02
9/6/2022 15:41	Cassette	22090950.03
9/6/2022 15:48	Cassette	22090950.04
9/7/2022 15:49	Cassette	22090950.05
9/7/2022 16:04	Cassette	22090950.06
	9/1/2022 13:51 9/1/2022 13:39 9/6/2022 15:41 9/6/2022 15:48 9/7/2022 15:49	9/1/2022 13:51Cassette9/1/2022 13:39Cassette9/6/2022 15:41Cassette9/6/2022 15:48Cassette9/7/2022 15:49Cassette

Released By:	
Title:	Vice President Operations

Analyst:



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

ab-q210-0321

9/15/2022



Date 9/15/2022

### Job ID: 22090950 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPN	NS Parcel E F	Phase II .	131000040	00					Attn:			
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
22090950.01	MSE01-090122	09/01/2022	Area	2			426	852	100	8	10.191	0.005		09/15/22	i
22090950.02	MSE02-090122	09/01/2022	Area	2			422	844	100	8.0	10.191	0.005		09/15/22	
22090950.03	MSE01-090622	09/06/2022	Area	2			550	1100	100	15.5	19.745	0.007		09/15/22	
22090950.04	MSE02-090622	09/06/2022	Area	2			560	1120	100	10.0	12.739	0.004		09/15/22	
22090950.05	MSE01-090722	09/07/2022	Area	2			552	1104	100	10.5	13.376	0.005		09/15/22	
22090950.06	MSE02-090722	09/07/2022	Area	2			578	1156	100	10.0	12.739	0.004		09/15/22	

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



A&	B JobID : 22090950	Date Received : 09/09/2022 Time Received : 3:2	29PM							
Clie	ent Name : GES - ASRC Industrial									
Ter	nperature : 21.1°C	Sample pH : NA								
The	ermometer ID : <b>IR4</b>	pH Paper ID: NA								
Pe	rservative :		1							
		Check Points	Yes	No	N/A					
1.	Cooler Seal present and signed.		Х							
2.	Sample(s) in a cooler.			Х						
3.	If yes, ice in cooler.			Х						
4.	Sample(s) received with chain-of-custo	ody.	Х							
5.	C-O-C signed and dated.		Х							
6.	Sample(s) received with signed sample		Х							
7.	7. Sample containers arrived intact. (If No comment)									
8.	Water Soil Liquid Slu Matrix:	Idge     Solid     Cassette     Tube     Bulk     Badge     Food     Other       Image: I								
9.	Samples were received in appropriate of	container(s)	Х							
10.	Sample(s) were received with Proper p	reservative			Х					
11.	All samples were tagged or labeled.		Х							
12.	Sample ID labels match C-O-C ID's.		х							
13.	Bottle count on C-O-C matches bottles	found.	х							
14.	Sample volume is sufficient for analyse	s requested.	х							
15.	Samples were received with in the hold	х								
16.	VOA vials completely filled.				Х					
17.	Sample accepted.		х							
18.	Has client been contacted about sub-or	Jt			Х					

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

Black Cassettes. No cooler was received, however samples are received in a box with a custody seal.

09/09/22

Received by :

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

www.ablabs.com

# Event ID: Air Monitoring

*COC#* KT090822ASBE

Gilbane											CI	nain	-Of	-Cust	ody	1
Project Name and Number: Project Manager: Site Location: <u>Hunters Point</u>	HPNS Parcel I nt, San Francisc			100	Laboratory Name: A&B Labs Address: 10100 East Fwy Ste. 100 Houston TX 77029					Contact	Name:			<u>9/0</u> Page: <u>1</u>	08/2022 of _1	
			1	1	1		Ала	ysis:	ISIS.					1		
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	so so so so so so so so so so so so so s					D:22		ACII Flow Rate Special Instru	ictions/Cor	
MSE01-090122 MSE02-090122 MSE01-090622 MSE02-090622 MSE01-090722 MSE02-090722	9/01/2022 9/01/2022 9/06/2022 9/06/2022 9/07/2022 9/07/2022	1351 1339 1541 1548 1549 1604	NA NA NA NA	NA NA NA NA	1 1 1 1		× × × × × × ×	7-8	3-22					Total Time 426 422 550 560 552 578	<u>min)</u>	
Sampled By			-	Sample	er	1			4	f	Courier//	Airbill No ]	FedEx/ 77	78 7055 5020		
Signature:				Relinquis	shed B	y/Amilia	tion:		Date:	Time:	Received	By/ Affiliati	on:		Date:	Time:
Special Instructions: Send Results to:	Send				ē+				9/8/22	1600	6E	DEX			9-8-22 09/09/72	1600 2 ISZ
Turnaround Time: Standard																

pm

21.100 -



FedEx Ship Manager - Print Your Label(s)

Page 5 of 5

1/1

Job ID: 22091339



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 1310000400

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	5
	Attn:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/14/2022 14:20
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-090822	Sample Collection Date & Time 9/8/2022 14:22	<b>Matrix</b> Cassette	A&B Job Sample ID 22091339.01
MSE02-090822	9/8/2022 14:08	Cassette	22091339.02
MSE01-091222	9/12/2022 15:49	Cassette	22091339.03
MSE02-091222	9/12/2022 15:59	Cassette	22091339.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

9/21/2022



Date 9/21/2022

### Job ID : 22091339 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	NS Parcel E I	Phase II 🛛	13100004	00				Attn:				
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
22091339.01	MSE01-090822	09/08/2022	Area	2			460	920	100	2	2.548	< 0.003		09/19/22	
22091339.02	MSE02-090822	09/08/2022	Area	2			456	912	100	3.5	4.459	< 0.003		09/19/22	
22091339.03	MSE01-091222	09/12/2022	Area	2			536	1072	100	6.5	8.280	0.003		09/19/22	
22091339.04	MSE02-091222	09/12/2022	Area	2			572	1144	100	11.5	14.650	0.005		09/19/22	

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



A&	20PM				
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 27.8°C	Sample pH : NA			
	ermometer ID : <b>IR4</b>	pH Paper ID : NA			
Pe	rservative :		1		1
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		Х		
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.			х	
4.	Sample(s) received with chain-of-cust	ody.	х		
5.	C-O-C signed and dated.		х		
6.	Sample(s) received with signed sample		х		
7.	Sample containers arrived intact. (If N	o comment)	х		
8.	Water Soil Liquid Slu Matrix:	udge     Solid     Cassette     Tube     Bulk     Badge     Food     Other       Image: I			
9.	Samples were received in appropriate	container(s)	х		
10.	Sample(s) were received with Proper p	preservative			Х
11.	All samples were tagged or labeled.		х		
12.	Sample ID labels match C-O-C ID's.		х		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analyse	es requested.	х		
15.	Samples were received with in the hole	х			
16.	VOA vials completely filled.				х
17.	Sample accepted.		х		
18.	ut			Х	

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

No cooler was received, however samples are received in a box with a custody seal. Received black cassettes.

9/14/2022

Received by :

Phone :

Check in by/date : / 09/14/2022

ab-s005-0321

Gilbane												Ch	ain	Of-	Cu	sto	ody	
	HPNS Parcel F			00		Labora Addres	ss: <u>1</u>	0100 Ea	A&B Lat st Fwy Si TX 77029	te. 100	Contact I	Name			– – Page:		/2022 _of _1	_
Job ID:22091	339		(	tom)			s	Analys	s:	-								
09/14/2022 GES - ASRC Indus Sample ID	Date left	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	ervative: ne ainer Typi Iter	a:							Instruct	2 L/mir ions/Com	
MSE01-090822 01A MSE02-090822 02A MSE01-091222 03A MSE02-091222 04A	9/08/2022 9/08/2022 9/12/2022 9/12/2022	1422 1408 1549 1559	NA NA NA	NA NA NA NA	1 1 1	AA AA AA AA	X X X X								460 456 536 572			
							-1	V/A	9-13	- 22						20		
Sampled By:			- [	Sample		1	1	1	-	4 4	1	Courier/Air			79 0851 5	322		
Signature: Special Instructions: Send Results to: Turnaround Time: <u>Standard</u>				Relinqui	shed B		etion:	X	9-1	Date: 9-/3- 4-22	Time: 22 /600 14:20	Received B		n:		9+	Date: 9-13-22 14 × 72	Time: /600 = 14:20



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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. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not

Job ID: 22091659



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:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/16/2022 15:26
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-091322	Sample Collection Date & Time 9/13/2022 15:59	<b>Matrix</b> Cassette	A&B Job Sample ID 22091659.01
MSE02-091322	9/13/2022 15:52	Cassette	22091659.02
MSE01-091422	9/14/2022 15:40	Cassette	22091659.03
MSE02-091422	9/14/2022 15:52	Cassette	22091659.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

9/23/2022



Date 9/23/2022

### Job ID : 22091659 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	NS Parcel E F	Phase II J	131000040	00					Attn:			
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
22091659.01	MSE01-091322	09/13/2022	Area	2			561	1122	100	1	1.274	< 0.002		09/20/22	
22091659.02	MSE02-091322	09/13/2022	Area	2			559	1118	100	4.5	5.732	< 0.002		09/20/22	
22091659.03	MSE01-091422	09/14/2022	Area	2			536	1072	100	10.0	12.739	0.005		09/20/22	
22091659.04	MSE02-091422	09/14/2022	Area	2			558	1116	100	4.5	5.732	< 0.002		09/20/22	

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



A&	B JobID : 22091659	Date Received : 09/16/2022 Time Received : 3:2	26PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 27.6°C	Sample pH : <b>n/a</b>			
The	ermometer ID : <b>IR4</b>	pH Paper ID : <b>n/a</b>			
Pe	rservative :		1		T
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.				х
2.	Sample(s) in a cooler.			х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-cust	ody.	х		
5.	C-O-C signed and dated.		х		
6.	Sample(s) received with signed sample	e custody seal.		х	
7.	Sample containers arrived intact. (If N	o comment)	х		
8.	Water Soil Liquid Slu Matrix:	udge     Solid     Cassette     Tube     Bulk     Badge     Food     Other			
9.	Samples were received in appropriate	container(s)	Х		
10.	Sample(s) were received with Proper p	preservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		х		
13.	Bottle count on C-O-C matches bottles	found.	х		
14.	Sample volume is sufficient for analyse	es requested.	х		
15.	Samples were received with in the hole	l time.	х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		х		
18.	Has client been contacted about sub-o	ut			х

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

No cooler was received, however samples are received in a box with a custody seal. 9-19-22

Received by :

Check in by/date : / 09/19/2022

www.ablabs.com

Event ID: Air Monitoring



*COC#* KT091522ASBE

# Gilbane

CL	- :	OF	C	-+-	4.
Ch	ain	-Of	·Cu	sto	av

Project Name and Nu	umber: L	IPNS Parcel E	Phase II J3	1000040	00	- 1	abora	tory N	ame: A&	&B Labs					9/1	5/2022	-
Project Manager: Site Location: <u>Hun</u>		San Francisc	o, CA 941	24			Addres	is: <u>1</u>	0100 East Iouston TX		. 100	Contact N	Name:		— Page: <u>1</u>	_of _1	
									Analysis:		1						
Sample ID 전 MSE01-091322 (기 취 9/13/2022				epth (top)	Sample Depth (bottom)	ntainers	atrix	Asbestos									
		Time	Time 		No. of Containers	ple	Nor	ervative: ne ainer Type: Iter						Flow Rate Special Instru Total Time	ictions/Com		
MSE01-091322	OIA	9/13/2022	1559	NA	NA	1	AA	х							561		
MSE02-091322	02A	9/13/2022	1552	NA	NA	1	AA	x							559		
MSE01-091422	OSA	9/14/2022	1540	NA	NA	1	AA	x							536		
MSE02-091422	OYA	9/14/2022	1552	NA	NA	1	AA	x							558		
					-					alista							
							-										
Sampled By:				1	Sampl	er:	-			1			Courier/Airbill	No.: FedEx/ 7	779 2364 4869		_
Signature:					Relinqui	shed E	By/Affili	ation:	1		Date:	Time:	Received By/ A	Affiliation:		Date:	Time:
Special Instructions.				_	-1	1	EL	EX		9-1	2/15/0	1600 22	FEIEX		. 9-	4/07/2	150
Send Results to:																	
Turnaround Time:	Standard			_													

Page 4 of 5 TEMP: 27.6°C IRY



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Job ID: 22092118



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 1310000400

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	5
	Attn:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/21/2022 03:19
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-091522	Sample Collection Date & Time 9/15/2022 14:43	<b>Matrix</b> Cassette	A&B Job Sample ID 22092118.01
MSE02-091522	9/15/2022 14:26	Cassette	22092118.02
MSE01-091922	9/19/2022 15:17	Cassette	22092118.03
MSE02-091922	9/19/2022 15:23	Cassette	22092118.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

9/28/2022



Date 9/28/2022

### Job ID : 22092118 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	NS Parcel E F	Phase II 1	13100004	00					Attn:			
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
22092118.01	MSE01-091522	09/15/2022	Area	2			482	964	100	5.5	7.006	0.003		09/28/22	
22092118.02	MSE02-091522	09/15/2022	Area	2			475	950	100	2	2.548	< 0.003		09/28/22	
22092118.03	MSE01-091922	09/19/2022	Area	2			524	1048	100	1	1.274	< 0.003		09/28/22	
22092118.04	MSE02-091922	09/19/2022	Area	2			521	1042	100	1	1.274	< 0.003		09/28/22	

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



A&	B JobID : 22092118	Date Received : 09/21/2022 Time Received : 3:3	9AM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 22.1°C	Sample pH : NA			
The	ermometer ID : <b>IR4</b>	pH Paper ID : NA			
Pe	rservative :				
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		х		
2.	Sample(s) in a cooler.			х	
3.	If yes, ice in cooler.				х
4.	Sample(s) received with chain-of-custo	dy.	х		
5.	C-O-C signed and dated.		х		
6.	Sample(s) received with signed sample	custody seal.		х	
7.	Sample containers arrived intact. (If No		х		
8.	Water Soil Liquid Slu Matrix:	dge     Solid     Cassette     Tube     Bulk     Badge     Food     Other       Image: Im			
9.	Samples were received in appropriate of	container(s)	Х		
10.	Sample(s) were received with Proper p	reservative			Х
11.	All samples were tagged or labeled.		х		
12.	Sample ID labels match C-O-C ID's.		х		
13.	Bottle count on C-O-C matches bottles	found.	х		
14.	Sample volume is sufficient for analyse	s requested.	х		
15.	Samples were received with in the hold	time.	х		
16.	VOA vials completely filled.				Х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-or	ıt			Х

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

No cooler was received, however samples are received in a box with a custody seal. Cassetts=Black Cassette.

09/22/22

Received by :

Check in by/date : / 09/22/2022

ab-s005-0321

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*COC#* KT092022ASBE

	Project Name and Number: Project Manager Site Location: <u>Hunters Poin</u>	HPNS Parcel I			.00		Labor Addre		10100		8 Labs wy Ste. 1 7029	100	Contact	Name:					
				Sample Depth (top)	Sample Depth (bottom)	ntainers	atrix	Asbestos		lysis:									
	Sample ID	Date	Time	Sample D	Sample D	No. of Containers	Sample Matrix	Nor	ervative ne ainer T I t e r	1								tructions/Comm	
N	MSE01-091522	9/15/2022	1443	NA	NA	1	AA	X	A								Total Time	(min)	
N	MSE02-091522	9/15/2022	1426	NA	NA	1	AA	X	1		-				-				
N	MSE01-091922	9/19/2022	1517	NA	NA	1	AA	x	$\uparrow$			_	_		-				
N	MSE02-091922	9/19/2022	1523	NA	NA	1	AA	x	$  \rangle$		-						-		
												also a							
h	Sampled By:			i T	Sample	er:	<u> </u>	ł.				-	1	Courier/A	irbill Ma		-		
L	Signature:			_	Relinquis		v/Afrilia	tión.				té:	Times				79 5905 9958	1	
L .	special Instructions:	11.0		-	in den	-	, , , unite	11					Time:	Received	By/ Affilia	ation:		Date:	Time
		Abol				Te	d l	X	5		9] 9	20/22	1430			Fedex		and the second second	
	Send Results to:			-														Date: Tir 9/20/22 \	
	Turnaround Time: Standard																		



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Job ID: 22092375



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 1310000400

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	5
	Attn:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/23/2022 16:06
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-092022	Sample Collection Date & Time 9/20/2022 14:16	<b>Matrix</b> Cassette	A&B Job Sample ID 22092375.01
MSE02-092022	9/20/2022 14:24	Cassette	22092375.02
MSE01-092122	9/21/2022 15:17	Cassette	22092375.03
MSE02-092122	9/21/2022 15:24	Cassette	22092375.04

Released By:	
Title:	Vice President Operations

Analyst:



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ab-q210-0321

9/30/2022



Date 9/30/2022

### Job ID : 22092375 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	NS Parcel E F	Phase II 1	13100004	00					Attn:			
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
22092375.01	MSE01-092022	09/20/2022	Area	2			460	920	100	3.5	4.459	< 0.003		09/30/22	
22092375.02	MSE02-092022	09/20/2022	Area	2			480	960	100	3	3.822	< 0.003		09/30/22	
22092375.03	MSE01-092122	09/21/2022	Area	2			520	1040	100	1.5	1.911	< 0.003		09/30/22	
22092375.04	MSE02-092122	09/21/2022	Area	2			538	1076	100	3	3.822	< 0.003		09/30/22	

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



A&	B JobID : 22092375	Date Received : 09/23/2022 Time Received : 4:0	06PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 28.1°C	Sample pH : <b>n/a</b>			
The	ermometer ID : IR4	pH Paper ID : <b>n/a</b>			
Pe	rservative :				1
		Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		х		
2.	Sample(s) in a cooler.			х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-custo	ody.	х		
5.	C-O-C signed and dated.		х		
6.	Sample(s) received with signed sample	e custody seal.		х	
7.	Sample containers arrived intact. (If N	o comment)	х		
8.	Water Soil Liquid Slu Matrix:	udge     Solid     Cassette     Tube     Bulk     Badge     Food     Other			
9.	Samples were received in appropriate	container(s)	х		
10.	Sample(s) were received with Proper p	preservative			Х
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analyse	es requested.	Х		
15.	Samples were received with in the hole	1 time.	Х		
16.	VOA vials completely filled.				х
17.	Sample accepted.		х		
18.	Has client been contacted about sub-o	ut			х

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

No cooler was received, however samples are received in a box with a custody seal. 9-26-22

Received by :

Check in by/date : / 09/26/2022

ab-s005-0321

www.ablabs.com

Event ID: Air Monitoring

*COC#* KT092222ASBE

Gilba	ne											Ch	nain-	Of-	Cust	ody	3
Project Name and	Number: 1	HPNS Parcel E	Phase II J3	1000040	0			tory Name			Contact N	lame			9/22 Page: 1	2/2022 of 1	_
Project Manage	Defet	Can Enancias	- CA 041	24		- Α	ddres		East Fwy Ston TX 77029		Contact N	ame			Fage.	_01 _1_	
Site Location: Hu	inters Point,	San Francisc	0, CA 941	1		-	-		lysis:					1			
Job ID:22092375 GES - ASRC Industrial ACH Sample ID Sample ID						ontainers	latrix	Asbestos									
Sample II	D	Date	Time	Sample D	Sample D	No. of Containers	Sample Matrix	Preservativ None Container Filter	1 1						Flow Rate Special Instru Total Time (	ctions/Com	
MSE01-092022	OIA	9/20/2022	1416	NA	NA	1	AA	x					-		460		
MSE02-092022	OZA	9/20/2022	1424	NA	NA	1	AA	x							480		
MSE01-092122	OSA	9/21/2022	1517	NA	NA	1	AA	x							520		
MSE02-092122	OHK	9/21/2022	1524	NA	NA	1	AA	x							538		
									0/02/02								
Sampled By: _		4.	-	<u>'</u>	Sampl	ler:		1		3	-	Courier/	Airbill No.: Fe	edEx/ 777	9 9754 6264		
				_	Relingu	ished E	By/Attil	ation:		Date.	Time:	Receive	d By/ Affiliatio	n:		Date:	Time:
Signature: Special Instructions	· · · · · · · · · · · · · · · · · · ·			_				DEX	Kg	7/22/22	23-2		DEX		. 9-	9/22/2	- 1600 - 1600
Send Results to:										_							
Turnaround Time:	Standard																-

Page 4 of 5 TEMP: 28-1°C TRY



After printing this label: 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer. 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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Job ID: 22092769



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 1310000400

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	5
	Attn:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/28/2022 14:55
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-092222	Sample Collection Date & Time 9/22/2022 14:37	<b>Matrix</b> Cassette	A&B Job Sample ID 22092769.01
MSE02-092222	9/22/2022 14:47	Cassette	22092769.02
MSE01-092622	9/26/2022 15:51	Cassette	22092769.03
MSE02-092622	9/26/2022 15:43	Cassette	22092769.04

Released By:	
Title:	Vice President Operations

Analyst:

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ab-q210-0321

10/5/2022



Date 10/5/2022

### Job ID : 22092769 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	NS Parcel E F	Phase II 1	13100004	00					Attn:			
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
22092769.01	MSE01-092222	09/22/2022	Area	2			485	970	100	2	2.548	< 0.003		10/04/22	
22092769.02	MSE02-092222	09/22/2022	Area	2			503	1006	100	2	2.548	< 0.003		10/04/22	
22092769.03	MSE01-092622	09/26/2022	Area	2			560	1120	100	6.5	8.280	0.003		10/04/22	
22092769.04	MSE02-092622	09/26/2022	Area	2			557	1114	100	1	1.274	< 0.002		10/04/22	

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



A&	B JobID : <b>22092769</b>	Date Received : 09/28/2022 Time Received : 2:5	2:55PM						
Clie	ent Name : GES - ASRC Industrial								
Ter	nperature : 22.1°C	Sample pH : NA							
The	ermometer ID : IR4	pH Paper ID : NA							
Pe	1								
	Check Points								
1.	Cooler Seal present and signed.		х						
2.	Sample(s) in a cooler.			х					
3.	If yes, ice in cooler.				Х				
4.	Sample(s) received with chain-of-custo	ody.	х						
5.	5. C-O-C signed and dated.								
6.		х							
7.	Х								
8.	Water Soil Liquid Slu Matrix:	Idge     Solid     Cassette     Tube     Bulk     Badge     Food     Other       Image: I							
9.	Samples were received in appropriate	container(s)	х						
10.	10. Sample(s) were received with Proper preservative								
11.	11. All samples were tagged or labeled.								
12.	12. Sample ID labels match C-O-C ID's.								
13.	13. Bottle count on C-O-C matches bottles found.								
14.	14. Sample volume is sufficient for analyses requested.								
15.	15. Samples were received with in the hold time.								
16.	16. VOA vials completely filled.								
17.	17. Sample accepted.								
18.	18. Has client been contacted about sub-out								

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

Black Cassettes. No cooler was received, however samples are received in a box with a custody seal.

09/28/22

Received by :

Phone :

Check in by/date : / 09/28/2022

## Event ID: Air Monitoring

*COC#* KT092722ASBE

Gilbane	cilbane												Ch	ain-C	of-Cu	stody	1
Project Name and Number: Project Manager. Site Location: <u>Hunters Po</u>														Page:	9/27/2022 Page: 1 of 1		
					1		Analysi	S:									
			Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	sotsafestos Preserv None	atīve				(111)	Job	ID:220	Trajtostita <sup>1</sup>	ate = 2 L/mi	n
Sample ID	Date	Time	Samp	Samp	No. c	Samp	Contain Filt	er Type er	et						Special I Total Tir	nstructions/Con me (min)	nments
MSE01-092222	9/22/2022	1437	NA	NA	1	AA	х				-				485	D	A
+ MSE02-092222	9/22/2022	1447	NA	NA	1	AA	X		-		-				503	07	A
MSE01-092622	9/26/2022	1551	NA	NA	1	AA	x								560	0	3A
MSE02-092622	9/26/2022	1543	NA	NA	1	AA	x	-	-	-	-				557	0	iA
					_			-	-	9/27/	n						
															-		_
				Sample	npler: quished By/Affiliation:			Date: Time: Received By/ Affiliation:			7700 3898 40	Date:	Time:				
Special Instructions:					EDEX.						7/22			EDEX		9/21/22 9.29.22	160
Send Results to:			_														
Turnaround Time: Standard	d																

22.100







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Page 5 of 5

Use the 'Print' button on this page to print your label to your laser or inkjet printer. Fold the printed page along the horizontal line.

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Job ID: 22093063



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:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	09/30/2022 17:35
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-092722	Sample Collection Date & Time 9/27/2022 15:27	<b>Matrix</b> Cassette	A&B Job Sample ID 22093063.01
MSE02-092722	9/27/2022 15:22	Cassette	22093063.02
MSE01-092822	9/28/2022 15:41	Cassette	22093063.03
MSE02-092822	9/28/2022 15:44	Cassette	22093063.04

Released By:	
Title:	Vice President Operations

Analyst:

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ab-q210-0321

10/7/2022



Date 10/7/2022

### Job ID : 22093063 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial	Project: HPNS Parcel E Phase II J310000400									Attn:				
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
22093063.01	MSE01-092722	09/27/2022	Area	2			488	976	100	3	3.822	< 0.003		10/07/22	
22093063.02	MSE02-092722	09/27/2022	Area	2			494	988	100	3	3.822	< 0.003		10/07/22	
22093063.03	MSE01-092822	09/28/2022	Area	2			543	1086	100	2.5	3.185	< 0.002		10/07/22	
22093063.04	MSE02-092822	09/28/2022	Area	2			552	1104	100	0	0.000	< 0.002		10/07/22	

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



A&	B JobID : 22093063	Date Received : 09/30/2022 Time Received : 5:3	5:35PM						
Clie	ent Name : GES - ASRC Industrial								
Ter	nperature : 29.1°C	Sample pH : NA							
The	ermometer ID : <b>IR4</b>	pH Paper ID: NA							
Pe									
		Check Points	Yes	No	N/A				
1.	Cooler Seal present and signed.		Х						
2.	Sample(s) in a cooler.			Х					
3.	If yes, ice in cooler.				Х				
4.	Sample(s) received with chain-of-custo	ody.	Х						
5.	5. C-O-C signed and dated.								
6.		Х							
7. Sample containers arrived intact. (If No comment)									
8.	Water Soil Liquid Slu Matrix:	Idge     Solid     Cassette     Tube     Bulk     Badge     Food     Other       Image: I							
9.	Samples were received in appropriate of	container(s)	Х						
10.	LO. Sample(s) were received with Proper preservative								
11.	1. All samples were tagged or labeled.								
12.	Sample ID labels match C-O-C ID's.		Х						
13.	13. Bottle count on C-O-C matches bottles found.								
14.	14. Sample volume is sufficient for analyses requested.								
15.	15. Samples were received with in the hold time.								
16.	16. VOA vials completely filled.								
17.	Sample accepted.		х						
18.	18. Has client been contacted about sub-out								

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

No cooler was received, however samples are received in a box with a custody seal. Black Cassettes.

09/30/22

Received by :

Check in by/date : / 09/30/2022

www.ablabs.com

### Event ID: Air Monitoring

*COC#* KT092922ASBE

Gilbane	· · · ·									6		Chain-O	f-Cus	tody	
							Laboratory Name: <u>A&amp;B Labs</u> Address: <u>10100 East Fwy Ste. 100</u> Contact Name: Houston TX 77029						9/29/2022 Page:_1of		
	+		1		=			Analysis	1	F 1			_		
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Non	ervative te tiner Type: Iter						te = 2 L/min structions/Con re (min)	
MSE01-092722	9/27/2022	1527	NA	NA	1	AA	х						488	OIA	
MSE02-092722	9/27/2022	1522	NA	NA	1	AA	x						494	OZA	
MSE01-092822	9/28/2022	1541	NA	NA	1	AA	х						543	OBA	
MSE02-092822	9/28/2022	1544	NA	NA	1	AA	x	-					552	04A	
Job ID:22	209306	3      ACH							6/2	1/2					
Sampled By:		_	1	Sample	er.		1				-1	Courier/Airbill No FedEx/	7700 5929 50	03	
Signature:			F	Relinqui	shed B	By/Affilia	ation:			Date:	Time:	Received By/ Affiliation:		Date:	Time:
Special Instructions					76	EDE	y	Ľ.		9/29/22	16.00	FEDEX		9/29/20	2 1719
Send Results to:						_		_							
Turnaround Time: Standard			_												



9/28/22, 9:27 AM

Page 5 of 5

1

https://www.fedex.com/shipping/shipAction.hsngie?method=doContinue

#### Laboratory Analysis Report

Job ID: 22100424



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:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	10/05/2022 14:46
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID MSE01-092922	Sample Collection Date & Time 9/29/2022 14:31	<b>Matrix</b> Cassette	A&B Job Sample ID 22100424.01
MSE02-092922	9/29/2022 14:54	Cassette	22100424.02
MSE01-100322	10/3/2022 15:31	Cassette	22100424.03
MSE02-100322	10/3/2022 15:26	Cassette	22100424.04

Released By:	

Vice President Operations

Title:

Analyst:

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ab-q210-0321

10/12/2022



#### 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 10/12/202

#### Job ID : 22100424 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	Client: GES - ASRC Industrial Project: HPNS Parcel E Phase II J310000400 Att									Attn:					
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
22100424.01	MSE01-092922	09/29/2022	Area	2			451	902	100	2.0	2.548	< 0.003		10/07/22	
22100424.02	MSE02-092922	09/29/2022	Area	2			482	964	100	3.5	4.459	< 0.003		10/07/22	
22100424.03	MSE01-100322	10/03/2022	Area	2			516	1032	100	18.0	22.930	0.009		10/07/22	
22100424.04	MSE02-100322	10/03/2022	Area	2			532	1064	100	5	6.369	< 0.003		10/07/22	

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 : 22100424	Date Received : 10/05/2022 Time Received : 2:4	16PM								
Clie	ent Name : GES - ASRC Industrial										
Ter	nperature : <b>19.9°C</b>	Sample pH : n/a									
The	ermometer ID : <b>IR4</b>	pH Paper ID: n/a									
Pe	Perservative :										
	Check Points										
1.	1. Cooler Seal present and signed.										
2.	Sample(s) in a cooler.			х							
3.	If yes, ice in cooler.				Х						
4.	Sample(s) received with chain-of-custo	ody.	х								
5.	C-O-C signed and dated.		х								
6.	6. Sample(s) received with signed sample custody seal.										
7.	Sample containers arrived intact. (If No		х								
8.	Water Soil Liquid Slu Matrix:	Idge     Solid     Cassette     Tube     Bulk     Badge     Food     Other									
9.	Samples were received in appropriate of	container(s)	Х								
10.	Sample(s) were received with Proper p	reservative			Х						
11.	All samples were tagged or labeled.		Х								
12.	Sample ID labels match C-O-C ID's.		х								
13.	Bottle count on C-O-C matches bottles	found.	Х								
14.	Sample volume is sufficient for analyse	s requested.	х								
15.	Samples were received with in the hold	х									
16.	16. VOA vials completely filled.										
17.	Sample accepted.		х								
18.	Has client been contacted about sub-or	Jt			Х						

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

No cooler was received, however samples are received in a box with a custody seal. 10-5-22

Received by :

Check in by/date : / 10/05/2022

ab-s005-0321

www.ablabs.com

*COC#* KT100422ASBE

Gilba	ane													Chain	-Of-	Cust	ody	,
Project Name an		HPNS Parcel E	Phase II ]	3100004	100		Labor	atory N	Name:	A&	3 Lab	s				10/	04/2022	
Project Manager Site Location:	the second se	it, San Francisc	o, CA 94	124			Address: <u>10100 East Fwy Ste. 100</u> Contact Name. Houston TX 77029									– Page: 1	_of 1	_
1000					1			1	Anah	ysis:	-		1	1 1 1		1		
Job ID;	- ASRC Indu			ipth (top)	Sample Depth (bottom)	ltainers	ıtrix	Asbestos										
Sample	ID	Date	Time	Sample Depth (top)	Sample De	No. of Containers	Sample Matrix	Non	ervative ne ainer Ty Iter							Flow Rate = Special Instru	ctions/Com	
MSE01-092922	OIA	09/29/2022	1431	NA	NA	1	AA	x				-			-	Total Time (r 451	nin)	_
MSE02-092922	024	09/29/2022	1454	NA	NA	1	AA	x					1			482		
MSE01-100322	034	10/03/2022	1531	NA	NA	1	AA	x								516		
MSE02-100322	041	10/03/2022	1526	NA	NA	1	AA	x			-					532		
-								-		»/4	122					-		
Sampled By:					Sample	er.								Courier/Airbill No.: Fe	edEx/ 770	0 9602 0725		
Signature:				F	Relinquis		y/Athlia	ation:	- 3			Date:	Time:	Received By/ Affiliatio	Contra Circa	0 9002 0725	Date:	Time:
Special Instruction	S	/					M	25	Z	10	1-5	22	0-1600	FEDEX	1	10-	10/04/22 5-22	1600
Send Results to:																		
Turnaround Time:	Standard																	

TEMP. Page 4pt 59 C IRL





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Page 5 of 5

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# Environment Testing America

# **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 320-91681-1

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

#### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

#### Attn:

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, Project Manager I

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

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ

TNTC

Job ID: 320-91681-1

Glossary		3
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	4
%R	Percent Recovery	
CFL	Contains Free Liquid	5
CFU	Colony Forming Unit	<b>.</b>
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)	8
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	9
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	13
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	

#### Job ID: 320-91681-1

#### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-91681-1

**Case Narrative** 

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/2/2022 12:00 PM. 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 21.4° C.

#### 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

Client Sample ID: GESPN	/1072622-13	88				Lab Sa	mple ID: 32	<b>0-91681-</b> 1
_ Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Ргер Туре
Lead	0.033		0.0014	0.00022	ug/m3 (Air)	1	6020	Total/NA
Copper	0.053		0.0029	0.00022	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.058		0.0014	0.00020	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	55		0.60	0.60	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P072622-1	38				Lab Sa	mple ID: 32	0-91681-2
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	93.4428		0.6221	0.6221	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPM072622-139 Lab Sar							mple ID: 32	0-91681-:
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0030		0.0014	0.00022	ug/m3 (Air)	1	6020	Total/NA
Copper	0.014		0.0029	0.00022	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0061		0.0014	0.00020	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	25		0.60	0.60	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P072622-1	39				Lab Sa	0-91681-4	
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	46.8407		0.6005	0.6005	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	1072622-14	10				Lab Sa	mple ID: 32	0-91681-
Analyte	Result	Qualifier	RL		Unit	Dil Fac D	Method	Prep Type
Lead	0.0042		0.00068	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.015		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0097		0.00068	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	25		0.28	0.28	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P072622-1	40				Lab Sa	mple ID: 32	0-91681-0
Analyte		Qualifier	RL		Unit	Dil Fac D		Prep Type
Total Suspended Particulates	45.4814		0.2980	0.2980	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	/1072622-14	1				Lab Sa	mple ID: 32	0-91681-7
Analyte		Qualifier	RL		Unit	Dil Fac D		Prep Type
Lead	0.0033		0.00067		ug/m3 (Air)	1	6020	Total/NA
Copper	0.024		0.0013		ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0075		0.00067		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	26		0.28	0.28	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	6P072622-1	41				Lab Sa	mple ID: 32	0-91681-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type

This Detection Summary does not include radiochemical test results.

9/12/2022

		Oliciit	Sample	Negui	ເວ				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel	E, Phase 2	2	•					Job ID: 320-9	91681-1
Client Sample ID: GESPM0 Date Collected: 08/31/22 06:35 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter						L	.ab Sample	e ID: 320-91 Mat	1681-1 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.033		0.0014		ug/m3 (Air)		09/11/22 14:40	09/12/22 02:45	1
Copper	0.053		0.0029		ug/m3 (Air)		09/11/22 14:40	09/12/22 02:45	1
Manganese	0.058		0.0014	0.00020	ug/m3 (Air)		09/11/22 14:40	09/12/22 02:45	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	55		0.60	0.60	ug/m3			09/07/22 09:17	1
Client Sample ID: GESTSPO	72622-1	38				L	ab Sample	e ID: 320-91	1681-2
Date Collected: 08/31/22 06:35							-	Mat	trix: Air
Date Received: 09/02/22 12:00									
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	93.4428		0.6221	0.6221	ug/m3 (Air)			09/07/22 09:17	1
Date Collected: 08/31/22 06:26 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter								Mat	trix: Air
Method: 6020 - Metals (ICP/MS) Analyte	Posult	Qualifier	RL	МП	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030	Quaimer	0.0014		ug/m3 (Air)		09/11/22 14:40	09/12/22 02:48	1
Copper	0.014		0.0029		ug/m3 (Air)		09/11/22 14:40	09/12/22 02:48	1
Manganese	0.0061		0.0014	0.00020	ug/m3 (Air)		09/11/22 14:40	09/12/22 02:48	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		0.60		ug/m3			09/07/22 09:17	1
Client Sample ID: CESTSP(	77677 4	20				-	ah Samala	e ID: 320-91	1601 1
Client Sample ID: GESTSP0 Date Collected: 08/31/22 06:26 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter	772022-1	33					ab Sample		trix: Air
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.8407		0.6005	0.6005	ug/m3 (Air)	_		09/07/22 09:17	1
Client Sample ID: GESPM0 Date Collected: 09/01/22 06:47 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter	72622-14	0				L	.ab Sample	e ID: 320-9 <sup>^</sup> Mat	1681-5 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0042		0.00068		ug/m3 (Air)		09/11/22 14:40	09/12/22 02:51	1
Copper	0.015		0.0014		ug/m3 (Air)		09/11/22 14:40		1
Manganese	0.0097		0.00068	0.000096	ug/m3 (Air)		09/11/22 14:40	09/12/22 02:51	1
								Eurofins Sacr	amento

**Client Sample Results** 

		Client	Sample	Resul	ts				
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	, Phase 2	2	-					Job ID: 320-9	1681-1
Client Sample ID: GESPM07 Date Collected: 09/01/22 06:47 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter	2622-14	10				L	₋ab Sample	e ID: 320-91 Mat	681-5 rix: Air
General Chemistry Analyte Particulate Matter as PM 10	Result 25	Qualifier	<b>RL</b> 0.28		Unit ug/m3	_ <u>D</u>	Prepared	Analyzed 09/07/22 09:17	Dil Fac
Client Sample ID: GESTSP0 Date Collected: 09/01/22 06:47 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter	72622-1	40				L	.ab Sample	e ID: 320-91 Mat	681-6 rix: Air
General Chemistry Analyte Total Suspended Particulates	Result 45.4814	Qualifier	<b>RL</b> 0.2980		Unit ug/m3 (Air)	_ <u>D</u>	Prepared	Analyzed 09/07/22 09:17	Dil Fac
Client Sample ID: GESPM07 Date Collected: 09/01/22 06:39 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter	2622-14	11				L	.ab Sample	e ID: 320-91 Mat	681-7 rix: Air
Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese	Result 0.0033 0.024 0.0075	Qualifier	RL 0.00067 0.0013 0.00067	0.00010	Unit ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	<u>D</u>	Prepared 09/11/22 14:40 09/11/22 14:40 09/11/22 14:40	Analyzed 09/12/22 02:54 09/12/22 02:54 09/12/22 02:54	<b>Dil Fac</b> 1 1 1
General Chemistry Analyte Particulate Matter as PM 10	Result 26	Qualifier	RL 	RL	Unit ug/m3	_ <u>D</u>	Prepared	Analyzed 09/07/22 09:17	Dil Fac

Matrix: Air

#### Client Sample ID: GESTSP072622-141 Date Collected: 09/01/22 06:39 Date Received: 09/02/22 12:00 Sample Container: Folder/Filter

General Chemistry Analyte	Popult	Qualifier	Ы	RL	Unit	п	Prepared	Analvzed	Dil Fac
Analyte	Result	Quaimer	RL	RL	Unit	U	Flepaleu	Analyzeu	DIFAC
Total Suspended Particulates	30.4004		0.2815	0.2815	ug/m3 (Air)			09/07/22 09:17	1

**Eurofins Sacramento** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

#### Lab Sample ID: MB 320-615799/9-B Matrix: Air Analysis Batch: 615873

	IVID								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)	_	09/11/22 14:40	09/12/22 02:10	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		09/11/22 14:40	09/12/22 02:10	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		09/11/22 14:40	09/12/22 02:10	1

#### Lab Sample ID: LCS 320-615799/10-B Matrix: Air Analysis Batch: 615873

Analysis Daten. 010010							т тер Б	
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.240	0.248		ug/m3 (Air)	_	103	86 - 111	
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110	
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110	

#### Lab Sample ID: LCSD 320-615799/11-B Matrix: Air Analysis Batch: 615873

Analysis Batch: 615873							Prep Ba	atch: 61	5829
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.246		ug/m3 (Air)	_	103	86 - 111	1	15
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110	3	15
Manganese	0.240	0.232		ug/m3 (Air)		96	88 - 110	3	15

#### **Eurofins Sacramento**

#### **QC Association Summary**

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

#### Metals

#### Pre Prep Batch: 615799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91681-1	GESPM072622-138	Total/NA	Air	Filter to Air	
320-91681-3	GESPM072622-139	Total/NA	Air	Filter to Air	
320-91681-5	GESPM072622-140	Total/NA	Air	Filter to Air	
320-91681-7	GESPM072622-141	Total/NA	Air	Filter to Air	
MB 320-615799/9-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-615799/10-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-615799/11-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

#### Prep Batch: 615829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91681-1	GESPM072622-138	Total/NA	Air	3050B	615799
320-91681-3	GESPM072622-139	Total/NA	Air	3050B	615799
320-91681-5	GESPM072622-140	Total/NA	Air	3050B	615799
320-91681-7	GESPM072622-141	Total/NA	Air	3050B	615799
MB 320-615799/9-B	Method Blank	Total/NA	Air	3050B	615799
LCS 320-615799/10-B	Lab Control Sample	Total/NA	Air	3050B	615799
LCSD 320-615799/11-B	Lab Control Sample Dup	Total/NA	Air	3050B	615799

#### Analysis Batch: 615873

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-91681-1	GESPM072622-138	Total/NA	Air	6020	615829
320-91681-3	GESPM072622-139	Total/NA	Air	6020	615829
320-91681-5	GESPM072622-140	Total/NA	Air	6020	615829
320-91681-7	GESPM072622-141	Total/NA	Air	6020	615829
MB 320-615799/9-B	Method Blank	Total/NA	Air	6020	615829
LCS 320-615799/10-B	Lab Control Sample	Total/NA	Air	6020	615829
LCSD 320-615799/11-B	Lab Control Sample Dup	Total/NA	Air	6020	615829

#### **General Chemistry**

#### Pre Prep Batch: 615303

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-91681-2	GESTSP072622-138	Total/NA	Air	Filter to Air	
320-91681-4	GESTSP072622-139	Total/NA	Air	Filter to Air	
320-91681-6	GESTSP072622-140	Total/NA	Air	Filter to Air	
320-91681-8	GESTSP072622-141	Total/NA	Air	Filter to Air	

#### Analysis Batch: 616125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91681-1	GESPM072622-138	Total/NA	Air	PM10	
320-91681-3	GESPM072622-139	Total/NA	Air	PM10	
320-91681-5	GESPM072622-140	Total/NA	Air	PM10	
320-91681-7	GESPM072622-141	Total/NA	Air	PM10	

#### Analysis Batch: 616129

Lab Sample ID 320-91681-2	Client Sample ID GESTSP072622-138	Prep Type Total/NA	Matrix Air	Method P 40CFR50 App B	Prep Batch 615303
320-91681-4	GESTSP072622-139	Total/NA	Air	40CFR50 App B	615303
320-91681-6	GESTSP072622-140	Total/NA	Air	40CFR50 App B	615303
320-91681-8	GESTSP072622-141	Total/NA	Air	40CFR50 App B	615303

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-91681-1

Matrix: Air

EET SAC

EET SAC

EET SAC

EET SAC

Matrix: Air

Matrix: Air

EET SAC

EET SAC

Lab

Lab

Lab Sample ID: 320-91681-1

# 9



#### Client Sample ID: GESTSP072622-139 Date Collected: 08/31/22 06:26 Date Received: 09/02/22 12:00

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B	·	1			616129	09/07/22 09:17		EET SAC
Total/NA	Pre Prep	Filter to Air					615303	09/08/22 14:26		EET SAC

#### Client Sample ID: GESPM072622-140 Date Collected: 09/01/22 06:47 Date Received: 09/02/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					615799	09/11/22 13:04		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	615829	09/11/22 14:40		EET SAC
Total/NA	Analysis	6020		1			615873	09/12/22 02:51		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0442 g	616125	09/07/22 09:17		EET SAC

**Eurofins Sacramento** 

Lab	Ch	ror	nic	le

#### Client Sample ID: GESPM072622-138 Date Collected: 08/31/22 06:35 Date Received: 09/02/22 12:00

Batch Batch Dil Initial Batch Final Prepared Method Factor Number or Analyzed Prep Type Туре Run Amount Amount Analyst Total/NA Pre Prep Filter to Air 615799 09/11/22 13:04 Total/NA 3050B 615829 100 mL 09/11/22 14:40 Prep 0.08333 Sample Total/NA 6020 615873 09/12/22 02:45 Analysis 1 Total/NA Analysis **PM10** 616125 09/07/22 09:17 1 0 g 0.0461 g Lab Sample ID: 320-91681-2

#### Client Sample ID: GESTSP072622-138 Date Collected: 08/31/22 06:35 Date Received: 09/02/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			616129	09/07/22 09:17		EET SAC
Total/NA	Pre Prep	Filter to Air					615303	09/08/22 14:26		EET SAC
Client Sam	ple ID: GES	SPM072622-1	39				L	ab Sample	ID: 320	)-91681-3

#### EET SAC 09/07/22 09:17 EET SAC

#### Lab Sample ID: 320-91681-4

Lab Sample ID: 320-91681-5

Analyst

Matrix: Air

Matrix: Air

Job ID: 320-91681-1

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-91681-6

Lab Sample ID: 320-91681-7

Lab Sample ID: 320-91681-8

### 1 2 3 4 5 6 7 8 9

#### Client Sample ID: GESTSP072622-140 Date Collected: 09/01/22 06:47 Date Received: 09/02/22 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			616129	09/07/22 09:17		EET SAC
Total/NA	Pre Prep	Filter to Air					615303	09/08/22 14:26		EET SAC

#### Client Sample ID: GESPM072622-141 Date Collected: 09/01/22 06:39 Date Received: 09/02/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					615799	09/11/22 13:04		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	615829	09/11/22 14:40		EET SAC
Total/NA	Analysis	6020		1			615873	09/12/22 02:54		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0468 g	616125	09/07/22 09:17		EET SAC

#### Client Sample ID: GESTSP072622-141 Date Collected: 09/01/22 06:39 Date Received: 09/02/22 12:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			616129	09/07/22 09:17		EET SAC
Total/NA	Pre Prep	Filter to Air					615303	09/08/22 14:26		EET SAC

#### Laboratory References:

EET 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

#### 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

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

**Eurofins Sacramento** 

#### **Method Summary**

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

01601 4	
0-91681-1	2
atory	3
AC AC	4
AC	5
AC	
	8
	9
	11

Method	Method Description	Protocol	Laborato
6020	Metals (ICP/MS)	SW846	EET SAC
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC
PM10	Particulate Matter	40CFR50J	EET SAC
3050B	Preparation, Metals	SW846	EET SAC
Filter to Air	Filter to Air volume ratio	None	EET SAC
Protocol Refe 40CFR50J	erences: = 40 CFR Part 50 Appendix J		
40CFR50J	= 40 CFR Part 50 Appendix J		
EPA = US I	Environmental Protection Agency		
None = No	ne		
SW846 = "	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Thi	rd Edition, November 1986 And Its Updates.	

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

**Eurofins Sacramento** 

#### Sample Summary

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

Job ID: 320-91681-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-91681-1	GESPM072622-138	Air	08/31/22 06:35	09/02/22 12:00
320-91681-2	GESTSP072622-138	Air	08/31/22 06:35	09/02/22 12:00
320-91681-3	GESPM072622-139	Air	08/31/22 06:26	09/02/22 12:00
320-91681-4	GESTSP072622-139	Air	08/31/22 06:26	09/02/22 12:00
320-91681-5	GESPM072622-140	Air	09/01/22 06:47	09/02/22 12:00
320-91681-6	GESTSP072622-140	Air	09/01/22 06:47	09/02/22 12:00
320-91681-7	GESPM072622-141	Air	09/01/22 06:39	09/02/22 12:00
320-91681-8	GESTSP072622-141	Air	09/01/22 06:39	09/02/22 12:00

#### **CHAIN-OF-CUSTODY** RECORD

**Gilbane Federal** 

2300 Clavton Road. Suite 1050, Concord, CA 94520

#### Gilbane Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN Event: Parcel E Phase 2 Air Project Number: J310000400 POC: Monitoring WBS Code: J310000400-016 Ship to: 880 Riverside Parkway, West Sacramento, CA 95605 Comments: Code Matrix Air A Code Container/Preservative 1 1x 250-mL Plastic, 4 Degrees C 1x Envelope, None 1 st Method S M M10 Equipment: ۵. ኖ

COC # KT090122AIRE

						Analytical Tes CAAIR - Air PN	0500 - Air	SW6020 - Air F									91681 C	Chain of		
	Event: Parcel E Phase 2 A	Vir Monitorin	g			1	1	1	Π											
					Sam						Τ			Τ		Sample		(ft bgs)		
_	Sample ID	Matrix	Date	Time	Init										Location ID	Туре	Top -	Bottom	Cooler	Comments
1	GESPM072622-138	A	08/31/2022	0635		X		X							AMSE1	N1	0.00	0.00	1	VOLUME: 834.09 (M3)
2	GESTSP072622-138	A	08/31/2022	0635			X							Т	AMSE1	N1	0.00	0.00	1	VOLUME: 803.70 (M3)
3	GESPM072622-139	A	08/31/2022	0626		X		X							AMSE2	N1	0.00	0.00	1	VOLUME: 835.85 (M3)
4	GESTSP072622-139	A	08/31/2022	0626			X			1				1	AMSE2	N1	0.00	0.00	1	VOLUME: 832.61 (M3)
5	GESPM072622-140	A	09/01/2022	0647		X	T	X		T					AMSE1	N1	0.00	0.00	1	VOLUME: 1755.59 (M3)
6	GESTSP072622-140	A	09/01/2022	0647			X					Π		1	AMSE1	N1	0.00	0.00	1	VOLUME: 1677.61 (M3)
7	GESPM072622-141	A	09/01/2022	0639		X		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1779.16 (M3)
8	GESTSP072622-141	A	09/01/2022	0639			X							1	AMSE2	N1	0.00	0.00	1	VOLUME: 1776.29 (M3)
9						1			A		-	9	111	1	22					
10						2	U							1						
	naround Time: 5 days				-	-	- · ·	-		-	-			-					-	

**Turnaround Time: 5 days** 

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	9/./22	18:00	Fed EX	9/1/22	Ileia	Shipping Date: 9/1/2022 FedEx # 7778 0190 1981
				9-2.76	1200	
						Received by Laboratory: (Signature, Date, Time) & condition

13

9/12/2022

21. 400

Page 1 of 1

#### Login Sample Receipt Checklist

#### Client: GES-AIS, LLC

#### Login Number: 91681 List Number: 1 Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 320-91681-1

List Source: Eurofins Sacramento

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 320-91864-1

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

#### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

#### Attn:

LINKS

Review your project results through

EOL

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Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

Authorized for release by: 9/27/2022 8:34:11 AM

, Project Manager I

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

3

#### Qualifiers

DL

Metals	
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL, 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)

Detection Limit (DoD/DOE)

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

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

```
TEQ
                  Toxicity Equivalent Quotient (Dioxin)
```

TNTC Too Numerous To Count

#### Job ID: 320-91864-1

#### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-91864-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/9/2022 2:45 PM. 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 18.3° C.

#### 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

#### 011 .

Client Sample ID: GESPN	1072622-14	-2					ample ID: 32	0-01004			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type			
Lead	0.0074		0.0024	0.00036	ug/m3 (Air)	1	6020	Total/NA			
Copper	0.035		0.0048	0.00036	ug/m3 (Air)	1	6020	Total/NA			
Manganese	0.024		0.0024	0.00034	ug/m3 (Air)	1	6020	Total/NA			
Particulate Matter as PM 10	39		1.0		ug/m3	1	PM10	Total/NA			
lient Sample ID: GESTS	P072622-1	42				Lab Sa	ample ID: 32	0-91864			
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	) Method	Prep Туре			
Total Suspended Particulates	66.5701		1.0500	1.0500	ug/m3 (Air)	1	40CFR50 App B	Total/NA			
Client Sample ID: GESPN	/1072622-14	3				Lab Sa	ample ID: 32	0-91864			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type			
Lead	0.0022	J	0.0024	0.00036	ug/m3 (Air)	1	6020	Total/NA			
Copper	0.020		0.0048	0.00036	ug/m3 (Air)	1	6020	Total/NA			
Manganese	0.0064		0.0024		ug/m3 (Air)	1	6020	Total/NA			
Particulate Matter as PM 10	12		0.99		ug/m3	1	PM10	Total/NA			
Client Sample ID: GESTS	P072622-1	43				Lab Sa	ample ID: 32	0-91864			
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	Method	Prep Type			
Total Suspended Particulates	33.2948		0.9968	0.9968	ug/m3 (Air)	1	40CFR50 App B	Total/NA			
Client Sample ID: GESPN	/1072622-14	4				Lab Sample ID: 320-91864					
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	) Method	Prep Type			
Lead	0.0076		0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA			
Copper	0.031		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA			
Manganese	0.023		0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA			
Particulate Matter as PM 10	55		0.29	0.29	ug/m3	1	PM10	Total/NA			
Client Sample ID: GESTS	P072622-1	44				Lab Sa	ample ID: 32	0-91864			
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	) Method	Prep Type			
Total Suspended Particulates	70.1701		0.3022	0.3022	ug/m3 (Air)	1	40CFR50 App B	Total/NA			
Client Sample ID: GESPN	1082222-21	7				Lab Sa	ample ID: 32	0-91864			
Analyte	Result	Qualifier	RL		Unit	Dil Fac	) Method	Prep Тур			
Lead	0.0051		0.00070	0.00011	ug/m3 (Air)	1	6020	Total/NA			
Copper	0.023		0.0014		ug/m3 (Air)	1	6020	Total/NA			
Manganese	0.012		0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA			
Particulate Matter as PM 10	41		0.29	0.29	ug/m3	1	PM10	Total/NA			
lient Sample ID: GESTS	P082222-2	17				Lab Sa	ample ID: 32	0-91864			
Analyte		Qualifier	RL		Unit		Method	Ргер Тур			
Total Suspended Particulates	59.3671		0.2951	0.2951	ug/m3 (Air)	1	40CFR50 App B	Total/NA			
Client Sample ID: GESPN	1082222-21	8				Lab Sa	ample ID: 32	0-91864			
Analyte		Qualifier	RL		Unit		Method	Ргер Тур			
Lead	0.0050		0.00068		ug/m3 (Air)	1	6020	Total/NA			
Copper	0.023		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA			
Manganese	0.013										

This Detection Summary does not include radiochemical test results.

**Eurofins Sacramento** 

#### ..... .... ----

Job ID: 320-91864-1

#### **Detection Summary**

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

Total Suspended Particulates

48.2507

Job ID: 320-91864-1

Client Sample ID: GESP	1082222-21	o (Contin	iuea)				Sai	mple ID: 320	J-91864-9
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	41		0.29	0.29	ug/m3	1		PM10	Total/NA
Client Sample ID: GESTS	SP082222-2	18				Lab Sa	am	ple ID: 320-	91864-10
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.9075		0.2918	0.2918	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA
Client Sample ID: GESP	M082222-21	9				Lab Sa	am	ple ID: 320-	-91864-11
Client Sample ID: GESPI Analyte		9 Qualifier	RL	MDL	Unit	Lab Sa		nple ID: 320	- <b>91864-11</b> Prep Type
			<b>RL</b> 0.00068		Unit ug/m3 (Air)				
Analyte	Result			0.00010			D	Method	Ргер Туре
Analyte Lead	<b>Result</b> 0.0025	Qualifier	0.00068	0.00010 0.00010	ug/m3 (Air)		D	Method 6020	<b>Prep Type</b> Total/NA
Analyte Lead Copper		Qualifier	0.00068	0.00010 0.00010 0.000095	ug/m3 (Air) ug/m3 (Air)		D	Method 6020 6020	<b>Prep Type</b> Total/NA Total/NA
Analyte Lead Copper Manganese	Result 0.0025 0.016 0.0070 33	Qualifier	0.00068 0.0014 0.00068	0.00010 0.00010 0.000095	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	Dil Fac 1 1 1 1	<u>D</u>	Method           6020         6020           6020         6020	Prep Type Total/NA Total/NA Total/NA Total/NA

0.2815

0.2815 ug/m3 (Air)

1

40CFR50 App B Total/NA

Project/Site: Hunters Point, Parcel E	2622 4	10					ah Camala	220.04	064 4
Client Sample ID: GESPM07 Date Collected: 09/01/22 13:43	2022-14	+2					ab Sample	ID: 320-91 Mat	rix: Air
Date Received: 09/09/22 14:45									
Sample Container: Folder/Filter									
-									
Method: 6020 - Metals (ICP/MS)	Barrit	0			11.24	_	<b>D</b>	A	<b>B F</b>
Analyte		Qualifier	RL 0.0024		Unit	_ <u>D</u>	Prepared	Analyzed 09/21/22 21:45	Dil Fac
Lead	0.0074 0.035		0.0024		ug/m3 (Air) ug/m3 (Air)		09/16/22 06:58 09/16/22 06:58	09/21/22 21:45	1
Copper Manganese	0.035		0.0040		ug/m3 (Air) ug/m3 (Air)			09/21/22 21:45	1
	0.024		0.0024	0.00004	ug/mo (Air)		00/10/22 00:00	03/21/22 21.43	
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	39		1.0	1.0	ug/m3			09/13/22 16:00	1
Client Sample ID: GESTSP0	72622-1	42					ah Sample	D: 320-91	864-2
Date Collected: 09/01/22 13:43									rix: Air
Date Received: 09/09/22 14:45								inco	
Sample Container: Folder/Filter									
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.5701		1.0500	1.0500	ug/m3 (Air)			09/13/22 16:00	
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter									
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0022	J	0.0024		ug/m3 (Air)		09/16/22 06:58	09/21/22 21:54	
Copper	0.020		0.0048		ug/m3 (Air)		09/16/22 06:58	09/21/22 21:54	
Manganese	0.0064		0.0024	0.00033	ug/m3 (Air)		09/16/22 06:58	09/21/22 21:54	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.99		ug/m3			09/13/22 16:00	1
-					•				
Client Sample ID: GESTSP0	72622-1	43				L	ab Sample.	e ID: 320-91	
Date Collected: 09/01/22 13:33								Mat	rix: Ai
Date Received: 09/09/22 14:45									
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter									
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry									
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry	Result 33.2948	Qualifier	<b>RL</b> 0.9968		Unit ug/m3 (Air)	_ <u>D</u>	Prepared	Analyzed 09/13/22 16:00	
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates	33.2948								1
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07	33.2948							09/13/22 16:00	864-5
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40	33.2948							09/13/22 16:00	864-5
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45	33.2948							09/13/22 16:00	864-5
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter	33.2948							09/13/22 16:00	864-5
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	33.2948 2622-14	4	0.9968	0.9968	ug/m3 (Air)	L	ab Sample	09/13/22 16:00 DI: 320-91 Mat	864-5 rix: Ai
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	33.2948 2622-14 Result		0.9968	0.9968 MDL	ug/m3 (Air)		ab Sample	09/13/22 16:00 <b>iD: 320-91</b> Mat	864-5 rix: Ai
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	33.2948 2622-14 Result 0.0076	4	0.9968 - 0.9	0.9968 MDL 0.00010	ug/m3 (Air)	L	ab Sample	09/13/22 16:00 D: 320-91 Mat Analyzed 09/21/22 21:57	864-5 rix: Air
Date Received: 09/09/22 14:45 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	33.2948 2622-14 Result	4	0.9968	0.9968 MDL 0.00010 0.00010	ug/m3 (Air)	L	<b>Prepared</b> 09/16/22 06:58 09/16/22 06:58	09/13/22 16:00 <b>iD: 320-91</b> Mat	1

Job ID: 320-91864-1

#### **Client Sample Results** Client: GES-AIS, LLC

#### **Client Sample Results**

6

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	E, Phase 2	2	-					Job ID: 320-9	1864-1
Client Sample ID: GESPM07 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter	2622-14	14				L	₋ab Sample	e ID: 320-91 Mat	864-5 rix: Air
General Chemistry Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	55		0.29	0.29	ug/m3			09/13/22 16:00	1
Client Sample ID: GESTSP0 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter	72622-1	44					_ab Sample	e ID: 320-91 Mat	864-6 rix: Air
General Chemistry Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	70.1701		0.3022	0.3022	ug/m3 (Air)			09/13/22 16:00	1
Client Sample ID: GESPM08 Date Collected: 09/07/22 06:29 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter	2222-21	7				L	_ab Sample	e ID: 320-91 Mat	864-7 rix: Air
Method: 6020 - Metals (ICP/MS) Analyte	Result	Qualifier	RL	МП	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0051	Quaimer	0.00070	0.00011		. –	09/16/22 06:58	09/21/22 22:01	1
Copper	0.023		0.0014		ug/m3 (Air)		09/16/22 06:58	09/21/22 22:01	1
Manganese	0.012		0.00070	0.000098	ug/m3 (Air)		09/16/22 06:58	09/21/22 22:01	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	41		0.29	0.29	ug/m3		Ţ	09/13/22 16:00	1
Client Sample ID: GESTSP0 Date Collected: 09/07/22 06:29 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter	82222-2	17				L	₋ab Sample	• ID: 320-91 Mat	864-8 rix: Air
General Chemistry									
Analyte		Qualifier	RL			D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.3671		0.2951	0.2951	ug/m3 (Air)			09/13/22 16:00	1
Client Sample ID: GESPM08 Date Collected: 09/08/22 06:45 Date Received: 09/09/22 14:45 Sample Container: Folder/Filter	2222-21	8				L	₋ab Sample	e ID: 320-91 Mat	864-9 rix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0050		0.00068		ug/m3 (Air)		09/16/22 06:58	09/21/22 22:04	1
Copper Manganese	0.023 0.013		0.0014 0.00068		ug/m3 (Air) ug/m3 (Air)		09/16/22 06:58	09/21/22 22:04 09/21/22 22:04	1 1
General Chemistry	0.013		0.00008	0.000090	ug/III3 (All )		09/10/22 00.30	09/21/22 22:04	I
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	41		0.29	0.29	ug/m3			09/13/22 16:00	1

**Eurofins Sacramento** 

Client: GES-AIS, LLC Project/Site: Hunters Point, Parce	el E, Phase 2	2						Job ID: 320-9	1864-
Client Sample ID: GESTS Date Collected: 09/08/22 06:45 Date Received: 09/09/22 14:45 Sample Container: Folder/Filte		218				La	ab Sample	ID: 320-918 Mat	364-1 trix: Ai
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Particulates	47.9075		0.2918	0.2918	ug/m3 (Air)			09/13/22 16:00	
Date Collected: 09/08/22 06:34 Date Received: 09/09/22 14:45 Sample Container: Folder/Filte	ər							ID: 320-918 Mat	rix: A
Method: 6020 - Metals (ICP/M	S)								
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Lead	0.0025		0.00068		ug/m3 (Air)		09/16/22 06:58	09/21/22 22:07	
Copper	0.016		0.0014		ug/m3 (Air)				
Manganese	0.0070		0.00068	0.000095	ug/m3 (Air)		09/16/22 06:58	09/21/22 22:07	
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil F
Particulate Matter as PM 10	33		0.28	0.28	ug/m3			09/13/22 16:00	
Client Sample ID: GESTS Date Collected: 09/08/22 06:34 Date Received: 09/09/22 14:45 Sample Container: Folder/Filte		:19				La	ab Sample	ID: 320-918 Mat	3 <b>64-1</b> trix: A
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil F
Total Suspended Particulates	48.2507		0.2815		ug/m3 (Air)			09/13/22 16:00	
					J ()				

**Client Sample Results** 

Job ID: 320-91864-1

Client: GES-AIS 11C

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

Lab Sample ID: MB 320-617226 Matrix: Air Analysis Batch: 618880	6/1-В МВ	МВ						Cli	ent Samp	ole ID: Method Prep Type: To Prep Batch:	otal/NA
Analyte	Result	Qualifier	F	RL	MDL U	Jnit	C	)	Prepared	Analyzed	Dil Fac
Lead	ND		0.00	12 0.0	0018 u	ıg/m3	(Air)	09/	16/22 06:58	09/21/22 21:29	1
Copper	ND		0.002	24 0.0	0018 u	ıg/m3	(Air)	09/	16/22 06:58	09/21/22 21:29	1
Manganese	ND		0.00	12 0.0	0017 u	ıg/m3	(Air)	09/	16/22 06:58	09/21/22 21:29	1
Lab Sample ID: LCS 320-61722 Matrix: Air Analysis Batch: 618880	26/2-B						Clier	nt Sa	imple ID:	Lab Control S Prep Type: To Prep Batch:	otal/NA
			Spike	LCS	LCS					%Rec	
Analyte			Added	Result	Qualif	fier	Unit	D	%Rec	Limits	
Lead			0.240	0.251			ug/m3 (Ai	r) –	105	86 - 111	
Copper			0.240	0.239			ug/m3 (Ai	r)	99	85 - 110	
Manganese			0.240	0.248			ug/m3 (Ai	r)	103	88 - 110	

#### Lab Sample ID: LCSD 320-617226/3-B Matrix: Air Analysis Batch: 618880

Analysis Batch: 618880							Prep Ba	itch: 61	7239
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.255		ug/m3 (Air)	_	106	86 - 111	1	15
Copper	0.240	0.249		ug/m3 (Air)		104	85 - 110	4	15
Manganese	0.240	0.256		ug/m3 (Air)		107	88 - 110	3	15

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

Job ID: 320-91864-1

#### **QC Association Summary**

Prep Type

Total/NA

Total/NA

Total/NA

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

**Client Sample ID** 

GESPM072622-142

Lab Control Sample

Lab Control Sample Dup

**Metals** 

Lab Sample ID

320-91864-1

320-91864-3

320-91864-5

320-91864-7

320-91864-9

320-91864-11

MB 320-617226/1-B

LCS 320-617226/2-B

LCSD 320-617226/3-B

Prep Batch: 617239

Lab Sample ID

320-91864-1

320-91864-3

320-91864-5

320-91864-7

320-91864-9

320-91864-11

MB 320-617226/1-B

Pre Prep Batch: 617226

Job ID: 320-91864-1

**Prep Batch** 

617226

617226

Method

3050B

3050B

Filter to Air

# 3

GESPM072622-143	Total/NA	Air	Filter to Air		5
GESPM072622-144	Total/NA	Air	Filter to Air		
GESPM082222-217	Total/NA	Air	Filter to Air		6
GESPM082222-218	Total/NA	Air	Filter to Air		
GESPM082222-219	Total/NA	Air	Filter to Air		7
Method Blank	Total/NA	Air	Filter to Air		
Lab Control Sample	Total/NA	Air	Filter to Air		8
Lab Control Sample Dup	Total/NA	Air	Filter to Air		
					9
Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9 10
Client Sample ID GESPM072622-142	Prep Type Total/NA	Matrix	<u>Method</u> 3050B	Prep Batch 617226	9 10
· · · · · · · · · · · · · · · · · · ·				·	9 10 11
GESPM072622-142	Total/NA	Air	3050B	617226	9 10 11
GESPM072622-142 GESPM072622-143	Total/NA Total/NA	Air Air	3050B 3050B	617226 617226	9 10 11
GESPM072622-142 GESPM072622-143 GESPM072622-144	Total/NA Total/NA Total/NA	Air Air Air	3050B 3050B 3050B 3050B	617226 617226 617226	9 10 11 12
GESPM072622-142 GESPM072622-143 GESPM072622-144 GESPM082222-217	Total/NA Total/NA Total/NA Total/NA	Air Air Air Air	3050B 3050B 3050B 3050B 3050B	617226 617226 617226 617226 617226	9 10 11 12
GESPM072622-142 GESPM072622-143 GESPM072622-144 GESPM082222-217 GESPM082222-218	Total/NA Total/NA Total/NA Total/NA Total/NA	Air Air Air Air Air	3050B 3050B 3050B 3050B 3050B 3050B	617226 617226 617226 617226 617226 617226	9 10 11 12 13

Air

Air

Matrix

Air

#### LCS 320-617226/2-B LCSD 320-617226/3-B

#### Analysis Batch: 618880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91864-1	GESPM072622-142	Total/NA	Air	6020	617239
320-91864-3	GESPM072622-143	Total/NA	Air	6020	617239
320-91864-5	GESPM072622-144	Total/NA	Air	6020	617239
320-91864-7	GESPM082222-217	Total/NA	Air	6020	617239
320-91864-9	GESPM082222-218	Total/NA	Air	6020	617239
320-91864-11	GESPM082222-219	Total/NA	Air	6020	617239
MB 320-617226/1-B	Method Blank	Total/NA	Air	6020	617239
LCS 320-617226/2-B	Lab Control Sample	Total/NA	Air	6020	617239
LCSD 320-617226/3-B	Lab Control Sample Dup	Total/NA	Air	6020	617239

#### **General Chemistry**

#### Pre Prep Batch: 617514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91864-2	GESTSP072622-142	Total/NA	Air	Filter to Air	
320-91864-4	GESTSP072622-143	Total/NA	Air	Filter to Air	
320-91864-6	GESTSP072622-144	Total/NA	Air	Filter to Air	
320-91864-8	GESTSP082222-217	Total/NA	Air	Filter to Air	
320-91864-10	GESTSP082222-218	Total/NA	Air	Filter to Air	
320-91864-12	GESTSP082222-219	Total/NA	Air	Filter to Air	

#### Analysis Batch: 618305

Lab	Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-9	91864-2	GESTSP072622-142	Total/NA	Air	40CFR50 App B	617514
320-9	91864-4	GESTSP072622-143	Total/NA	Air	40CFR50 App B	617514
320-9	91864-6	GESTSP072622-144	Total/NA	Air	40CFR50 App B	617514
320-9	91864-8	GESTSP082222-217	Total/NA	Air	40CFR50 App B	617514

#### **Eurofins Sacramento**

#### **QC Association Summary**

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

#### General Chemistry (Continued)

#### Analysis Batch: 618305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-91864-10	GESTSP082222-218	Total/NA	Air	40CFR50 App B	617514
320-91864-12	GESTSP082222-219	Total/NA	Air	40CFR50 App B	617514

#### Analysis Batch: 618306

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-91864-1	GESPM072622-142	Total/NA	Air	PM10	
320-91864-3	GESPM072622-143	Total/NA	Air	PM10	
320-91864-5	GESPM072622-144	Total/NA	Air	PM10	
320-91864-7	GESPM082222-217	Total/NA	Air	PM10	
320-91864-9	GESPM082222-218	Total/NA	Air	PM10	
320-91864-11	GESPM082222-219	Total/NA	Air	PM10	

Job ID: 320-91864-1

Dil

1

1

Factor

Run

Client Sample ID: GESPM072622-142

Batch

3050B

6020

**PM10** 

Method

Filter to Air

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Client Sample ID: GESTSP072622-142

Date Collected: 09/01/22 13:43

Date Received: 09/09/22 14:45

Date Collected: 09/01/22 13:43

Date Received: 09/09/22 14:45

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Job ID: 320-91864-1

# 9

#### Lab Sample ID: 320-91864-2 Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab

EET SAC

EET SAC

EET SAC

EET SAC

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			618305	09/13/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					617514	09/16/22 17:02		EET SAC
Client Sam	ple ID: GES	SPM072622-1	43				L	ab Sample	ID: 320	-91864-3

#### Client Sample ID: GESPM072622-143 Date Collected: 09/01/22 13:33 Date Received: 09/09/22 14:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					617226	09/16/22 04:16		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	617239	09/16/22 06:58		EET SAC
Total/NA	Analysis	6020		1			618880	09/21/22 21:54		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0062 g	618306	09/13/22 16:00		EET SAC

#### Client Sample ID: GESTSP072622-143 Date Collected: 09/01/22 13:33 Date Received: 09/09/22 14:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Total/NA	Analysis	40CFR50 App B		1	, anount		618305	09/13/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					617514	09/16/22 17:02		EET SAC

#### Client Sample ID: GESPM072622-144 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					617226	09/16/22 04:16		EET SAC
Total/NA	Prep	3050B			0.08333	100 mL	617239	09/16/22 06:58		EET SAC
					Sample					
Total/NA	Analysis	6020		1			618880	09/21/22 21:57		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0944 g	618306	09/13/22 16:00		EET SAC

**Eurofins Sacramento** 

Initial

Amount

0.08333 Sample

0 g

#### Lab Sample ID: 320-91864-1 Matrix: Air

Analyst

Lab Sample ID: 320-91864-4

Lab Sample ID: 320-91864-5

Prepared

or Analyzed

09/16/22 04:16

09/16/22 06:58

09/21/22 21:45

09/13/22 16:00

Batch

Number

617226

617239

618880

618306

Final

Amount

100 mL

0.0195 g

Job ID: 320-91864-1

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-91864-6

Lab Sample ID: 320-91864-7

Lab Sample ID: 320-91864-8

Lab Sample ID: 320-91864-9

Lab Sample ID: 320-91864-10

#### Client Sample ID: GESTSP072622-144 Date Collected: 09/07/22 06:40 Date Received: 09/09/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			618305	09/13/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					617514	09/16/22 17:02		EET SAC

#### Client Sample ID: GESPM082222-217 Date Collected: 09/07/22 06:29 Date Received: 09/09/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					617226	09/16/22 04:16		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	617239	09/16/22 06:58		EET SAC
Total/NA	Analysis	6020		1			618880	09/21/22 22:01		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0694 g	618306	09/13/22 16:00		EET SAC

#### Client Sample ID: GESTSP082222-217 Date Collected: 09/07/22 06:29 Date Received: 09/09/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			618305	09/13/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					617514	09/16/22 17:02		EET SAC

#### Client Sample ID: GESPM082222-218 Date Collected: 09/08/22 06:45 Date Received: 09/09/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed A	nalyst	Lab
Total/NA	Pre Prep	Filter to Air					617226	09/16/22 04:16		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	617239	09/16/22 06:58		EET SAC
Total/NA	Analysis	6020		1			618880	09/21/22 22:04		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0714 g	618306	09/13/22 16:00		EET SAC

#### Client Sample ID: GESTSP082222-218 Date Collected: 09/08/22 06:45 Date Received: 09/09/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared	A	
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			618305	09/13/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					617514	09/16/22 17:02		EET SAC

Job ID: 320-91864-1

Matrix: Air

Lab Sample ID: 320-91864-11

#### Client Sample ID: GESPM082222-219 Date Collected: 09/08/22 06:34 Date Received: 09/09/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					617226	09/16/22 04:16		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	617239	09/16/22 06:58		EET SAC
Total/NA	Analysis	6020		1			618880	09/21/22 22:07		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0579 g	618306	09/13/22 16:00		EET SAC
lient Sam	ple ID: GES	STSP082222	-219				La	b Sample I	D: 320-	91864-1
ate Collecte	d: 09/08/22 0	6:34								Matrix: A

#### Date Collected: 09/08/22 06:34 Date Received: 09/09/22 14:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			618305	09/13/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					617514	09/16/22 17:02		EET SAC

#### Laboratory References:

EET 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

#### 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

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

Method

40CFR50 App B

**Protocol References:** 

Laboratory References:

6020

PM10

3050B

Filter to Air

ject/Site: H	Hunters Point, Parcel E, Phase 2		0010.320-91004-1	
nod	Method Description	Protocol	Laboratory	
)	Metals (ICP/MS)	SW846	EET SAC	
-R50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC	
0	Particulate Matter	40CFR50J	EET SAC	5
)B	Preparation, Metals	SW846	EET SAC	
r to Air	Filter to Air volume ratio	None	EET SAC	
	erences: J = 40 CFR Part 50 Appendix J Environmental Protection Agency			7
None = No	<b>C</b> ,			8
SW846 = "	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Thir	d Edition, November 1986 And Its Update	S.	
				9
aboratory R				
EET SAC =	= Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 9560	5, TEL (916)373-5600		
				1
				1:

#### Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-91864-1	GESPM072622-142	Air	09/01/22 13:43	09/09/22 14:45
320-91864-2	GESTSP072622-142	Air	09/01/22 13:43	09/09/22 14:45
320-91864-3	GESPM072622-143	Air	09/01/22 13:33	09/09/22 14:45
320-91864-4	GESTSP072622-143	Air	09/01/22 13:33	09/09/22 14:45
320-91864-5	GESPM072622-144	Air	09/07/22 06:40	09/09/22 14:45
320-91864-6	GESTSP072622-144	Air	09/07/22 06:40	09/09/22 14:45
320-91864-7	GESPM082222-217	Air	09/07/22 06:29	09/09/22 14:45
320-91864-8	GESTSP082222-217	Air	09/07/22 06:29	09/09/22 14:45
320-91864-9	GESPM082222-218	Air	09/08/22 06:45	09/09/22 14:45
320-91864-10	GESTSP082222-218	Air	09/08/22 06:45	09/09/22 14:45
320-91864-11	GESPM082222-219	Air	09/08/22 06:34	09/09/22 14:45
320-91864-12	GESTSP082222-219	Air	09/08/22 06:34	09/09/22 14:45

Job ID: 320-91864-1

#### CHAIN-OF-CUSTODY RECORD

Gilbane Fede	eral

2300 Clayton Road, Suite 1050, Concord, CA 94520

#### COC # KT090822AIRE

14.30



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2						Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN										EETN	Event: Parcel E Phase 2 Air		
Pro	ject Number: J310000400	_				POC:									(	Monitoring			
WB	S Code: J310000400-016					Ship	o to:	880	Rivers	side F	Parkwa	ay, We	est S	Sacramento, CA 95605					
Cor	nments:				T				T	1		T	1	Code Matrix				1	
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					Analytical Test Method			Mn											
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	Event: Parcel E Phase 2 Air I	_ ∢	0		ົກ 1	-	-								L				
	Lvent, Falcel E Filase 2 All 1	lonionn	9				-	1	-	-			-						
	Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type	· ·	(ft bgs) Bottom	Cooler	Comments
1	GESPM072622-142	A	09/01/2022	1343		X		X						AMSE1	N2	0.00	0.00	1	VOLUME: 498.40 (M3)
2	GESTSP072622-142	A	09/01/2022	1343			X							AMSE1	N2	0.00	0.00	1	VOLUME: 476.19 (M3)
3	GESPM072622-143	A	09/01/2022	1333		X		X		1				AMSE2	N2	0.00	0.00		VOLUME: 504.72 (M3)
4	GESTSP072622-143	Α	09/01/2022	1333	1		X							AMSE2	N2	0.00	0.00	1	VOLUME: 501.58 (M3)
5	GESPM072622-144	A	09/07/2022	0640		X		X					1	AMSE1	N1	0.00	0.00	1	VOLUME: 1719.50 (M3)
6	GESTSP072622-144	A	09/07/2022	0640			X							AMSE1	N1	0.00	0.00	1	VOLUME: 1654.55 (M3)
7	GESPM082222-217	A	09/07/2022	0629		X		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1707.83 (M3)
8	GESTSP082222-217	A	09/07/2022	0629			Х							AMSE2	N1	0.00	0.00	1	VOLUME: 1694.54 (M3)
9	GESPM082222-218	A	09/08/2022	0645		Х		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1752.92 (M3)
-	GESTSP082222-218	A	09/08/2022	0645			X						Ι	AMSE1	N1	0.00	0.00	1	VOLUME: 1713.72 (M3)
11	GESPM082222-219	A	09/08/2022	0634		Х		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1777.55 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	9-8-22	1600	FEDEX	9-8-22	1600	Shipping Date: 9/8/2022 / FedEx 7778 7132 9105
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9/27/2022

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#### CHAIN-OF-CUSTODY RECORD

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

#### COC # KT090822AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2							Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN										(EETN	Event: Parcel E Phase 2 Air		
Pro	ject Number: J310000400					POC: Ship to: 880 Riverside Parkway, West Sacramento, CA 95605											Monitoring			
WB	S Code: J310000400-016																1			
	omments: quipment:		Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu						Code     Matrix       A     Air       Code     Container/Preservativ       1     1x Envelope, None	re							
	Event: Parcel E Phase 2 A	ir Monitorin	9			1	1	1												
	Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments	
12	GESTSP082222-219	A	09/08/2022	0634	кт		Х							AMSE2	N1	0.00	0.00	1	VOLUME: 1776.14 (M3)	
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q	9-8-22	1600	FEPEX	9-8-22	1600	Shipping Date: 9/8/2022 / FedEx 7778 7132 9105
				9/9/22	1448	-
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#### Login Sample Receipt Checklist

#### Client: GES-AIS, LLC

#### Login Number: 91864 List Number: 1 Creator:

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List Source: Eurofins Sacramento

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 320-92008-1

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

#### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

#### Attn:

LINKS

Review your project results through

EOL

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The

www.eurofinsus.com/Env

Visit us at:

Expert

Authorized for release by: 9/27/2022 8:34:35 AM

Project Manager I

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: 320-92008-1

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

#### Job ID: 320-92008-1

#### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92008-1

**Case Narrative** 

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/14/2022 9:20 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 19.1° C.

#### 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

Client Sample ID: GESPM	)82222-22	20				Lab Sa	mple ID: 32	0-92008-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.013		0.0022	0.00033	ug/m3 (Air)	1	6020	Total/NA
Copper	0.094		0.0044	0.00033	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.055		0.0022	0.00031	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	43		0.92	0.92	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTSP	082222-2	20				Lab Sa	mple ID: 32	0-92008-2
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	62.9381		0.9422	0.9422	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPM	)82222-22	21				Lab Sa	mple ID: 32	0- <b>9200</b> 8-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0071		0.0022	0.00033	ug/m3 (Air)	1 –	6020	Total/NA
Copper	0.11		0.0044	0.00033	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.013		0.0022	0.00031	0 ( )	1	6020	Total/NA
Particulate Matter as PM 10	41		0.91	0.91	ug/m3	1	PM10	Total/NA
lient Sample ID: GESTSP	082222-2	21				Lab Sa	mple ID: 32	0-92008-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	68.4593		0.9152	0.9152	ug/m3 (Air)	1	40CFR50 App B	
Client Sample ID: GESPM	)82222-22	22				Lab Sa	mple ID: 32	0-92008-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0085		0.00070	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.044		0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.024		0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	42		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTSP	082222-2	22				Lab Sa	mple ID: 32	0-92008-0
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	90.9597		0.3058	0.3058	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPM	)82222-22	23				Lab Sa	mple ID: 32	0-92008-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0027		0.00068		ug/m3 (Air)	1	6020	Total/NA
Copper	0.015		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0061		0.00068	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	23		0.28	0.28	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTSP	082222-2	23				Lab Sa	mple ID: 32	0-92008-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	55.4426				ug/m3 (Air)		40CFR50 App B	

This Detection Summary does not include radiochemical test results.

Job ID: 320-92008-1

Bate Received: 09/14/22 09:20           Sample Container: Folder/Filter           Method: 6020 - Metals (ICP/MS)           Analyte         Result         Qualifier         RL         MDL         Unit           Lead         0.013         0.0022         0.00031         ug/m3 (Air)           Copper         0.094         0.0022         0.0031         ug/m3 (Air)           General Chemistry         Analyte         RL         RL         Unit           Particulate Matter as PM 10         43         0.92         0.92         ug/m3           Client Sample ID: GESTSP082222-220         Date Received: 09/14/22 09:20         Sample Container: Folder/Filter         0.9422         Unit           General Chemistry         Rsuit Qualifier         RL         RL         Unit           Total Supended Particulates         62.9381         0.9422         0.9422         ug/m3 (Air)           Client Sample ID: GESPM082222-221         Date Collected: 09/08/22 14:04         Date Received: 09/14/22 09:20         Sample Container: Folder/Filter           Method: 6020 - Metals (ICP/MS)         Analyte         Result Qualifier         RL         MDL         Unit           Lead         0.0071         0.0022         0.0033         ug/m3 (Air)           General Chemis	_ D	09/20/22 08:08 09/20/22 08:08		Dil Fac
Method: 6020 - Metals (ICP/MS) Analyte       Result 0.013       Qualifier 0.0022       RL 0.00033       MDL 0.00033       Unit 0.00033       Unit 0.00033       Unit 0.00033       Ug/m3 (Air) 0.00031       Unit 0.00031       Unit 0.00031       Ug/m3 (Air) 0.0022       Unit 0.00031       Unit 0.00031       Unit 0.00031       Unit 0.00031       Unit 0.00031       Unit 0.00031       Unit 0.00031       Unit 0.0021       Unit 0.0022       Unit 0.0022       Unit 0.0022       Unit 0.0022       Unit 0.0022       Unit 0.0022       Unit 0.0022       Unit 0.0022       Unit 0.00031       Unit Ug/m3 (Air)         Client Sample ID: GESPM082222-221       Sample Container: Folder/Filter       RL       MDL       Unit       Unit <t< th=""><th></th><th>09/20/22 08:08 09/20/22 08:08</th><th>09/23/22 19:59</th><th></th></t<>		09/20/22 08:08 09/20/22 08:08	09/23/22 19:59	
Analyte       Result       Qualifier       RL       MDL       Unit         Lead       0.013       0.0022       0.00031       ug/m3 (Air)         Copper       0.094       0.0022       0.00031       ug/m3 (Air)         Manganese       0.055       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       43       0.92       0.92       ug/m3       Uint         Date Collected:       09/08/22 14:16       Date Received:       09/08/22 14:16       Date Received:       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected:       09/08/22 14:04       Date Collected:       0.908/22 14:04       Date Collected:       09/08/22 14:04         Date Collected:       09/08/22 14:04       Result       Qualifier       RL       ML       Unit         Date Collected:       09/08/22 14:04       Outon       0.0022       0.0033       ug/m3 (Air)         Date Collected:       09/08/22 14:04       Outon       0.0022       0.0033       ug/m3 (Air)         Cate Collected:       09/08/22 14:04       Outod       0.00022       0.0		09/20/22 08:08 09/20/22 08:08	09/23/22 19:59	
Lead       0.013       0.0022       0.00033       ug/m3 (Air)         Copper       0.055       0.0022       0.00031       ug/m3 (Air)         Manganese       0.055       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       43       0.92       0.92       ug/m3       Unit         Date Collected:       09/08/22 14:16       0.9422       0.9422       0.9422       0.9422       ug/m3 (Air)         Sample Container:       Folder/Filter       General Chemistry       Analyte       Result       Qualifier       RL       RL       Unit         Total Suspended Particulates       62.9381       0.9422       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected:       09/08/22 14:04       Date South Collected:       0.0022       0.00031       ug/m3 (Air)         Copper       0.11       0.0022       0.00031       ug/m3 (Air)       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       ML       Unit         Lead       0.0071		09/20/22 08:08 09/20/22 08:08	09/23/22 19:59	
Copper       0.094       0.0044       0.00033       ug/m3 (Air)         Manganese       0.055       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       RL       RL       Unit         Particulate Matter as PM 10       43       0.92       0.92       0.92       ug/m3         Client Sample ID: GESTSP082222-220       Date Collected: 09/08/22 14:16       Date Collected: 09/08/22 14:04       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected: 09/08/22 14:04       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected: 09/08/22 14:04       0.0024       0.0023       ug/m3 (Air)         Copper       0.11       0.0024       0.00033       ug/m3 (Air)         Copper       0.11       0.0024       0.00033       ug/m3 (Air)         Copper       0.11       0.0024       0.00033       ug/m3 (Air)         General Chemistry       Result Qualifier       RL       ML       Unit         Matyle       Result Qualifier       RL       MDL       Unit         General Chemistry       Analyte       Result Qualifier       RL       RL       Unit		09/20/22 08:08		
Marganese       0.055       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       43       0.92       0.92       ug/m3         Client Sample ID: GESTSP082222-220       Date Collected: 09/08/22 14:16       Date Received: 09/14/22 09:20       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       General Chemistry       Rsult       Qualifier       RL       RL       Unit         Total Suspended Particulates       62.9381       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Received: 09/14/22 09:20       Sample Container: Folder/Filter         Method: 6020 - Metals (ICP/MS)       Analyte       Result       Qualifier       RL       MDL       Unit         Lead       0.0071       0.0022       0.00031       ug/m3 (Air)         Copper       0.11       0.0044       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       Unit         Particulate Matter as PM 10       41       0.91       0.91       ug/m3         Client Sample ID: GESTSP082222-221       Date Received: 09/14/22 09:20       Samp				
Analyte       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       43       0.92       0.92       0.92       ug/m3         Client Sample ID: GESTSP082222-220       Date Collected: 09/08/22 14:16       Date Collected: 09/08/22 14:16       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       General Chemistry       Analyte       RL       Unit         Total Suspended Particulates       62.9381       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected: 09/08/22 14:04       Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       Mesuit Qualifier       RL       MDL       Unit         Lead       0.0071       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result Qualifier       RL       ML       Unit         Maganese       0.013       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result Qualifier       RL       RL       Unit         Analyte       Result Qualifier       RL       Unit       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result Qualif			09/23/22 19:59 09/23/22 19:59	
Analyte       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       43       0.92       0.92       0.92       ug/m3         Client Sample ID: GESTSP082222-220       Date Collected: 09/08/22 14:16       Date Collected: 09/08/22 14:16       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       General Chemistry       Analyte       RL       Unit         Total Suspended Particulates       62.9381       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected: 09/08/22 14:04       Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       Mesuit Qualifier       RL       MDL       Unit         Lead       0.0071       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result Qualifier       RL       ML       Unit         Maganese       0.013       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result Qualifier       RL       RL       Unit         Analyte       Result Qualifier       RL       Unit       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result Qualif				
Particulate Matter as PM 10       43       0.92       0.92       ug/m3         Client Sample ID: GESTSP082222-220       Date Collected: 09/08/22 14:16       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       General Chemistry       Result Qualifier       RL       Unit         Total Suspended Particulates       62.9381       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected: 09/08/22 14:04       Date Collected: 09/08/22 14:04       Date Collected: 09/08/22 14:04         Date Collected: 09/08/22 14:04       Result Qualifier       RL       MDL       Unit         Method: 6020 - Metals (ICP/MS)       Analyte       Result Qualifier       ML       0.00023       ug/m3 (Air)         General Chemistry       0.013       0.0022       0.00033       ug/m3 (Air)         General Chemistry       Analyte       Result Qualifier       RL       RL       Unit         General Chemistry       Analyte       Result Qualifier       RL       Unit       Ug/m3         General Chemistry       Analyte       Result Qualifier       RL       Unit       Ug/m3         General Chemistry       Analyte       Result Qualifier       RL       Unit       Ug/m3         Client Sample ID: GESTSP082222-221		Prepared	Analyzed	Dil Fa
Date Collected: 09/08/22 14:16 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL Unit Total Suspended Particulates 62.9381 0.9422 0.9422 ug/m3 (Air) Dient Sample ID: GESPM082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL MDL Unit Lead 0.0071 0.0022 0.00033 ug/m3 (Air) Copper 0.11 0.0044 0.00033 ug/m3 (Air) General Chemistry Analyte Result Qualifier RL Unit Unit Ug/m3 General Chemistry Analyte Result Qualifier RL Unit Particulate Matter as PM 10 41 0.91 0.91 0.91 Ug/m3 Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL L Unit Unit Ug/m3 Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL L Unit Unit Ug/m3 Client Sample ID: GESPM082222-222 Date Collected: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL L Unit Total Suspended Particulates 68.4593 0.9152 0.9152 Unit Unit Ug/m3 (Air) Client Sample ID: GESPM082222-222 Date Collected: 09/14/22 09:20 Sample Container: Folder/Filter			09/15/22 09:30	
Date Collected: 09/08/22 14:16 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL Unit Total Suspended Particulates 62.9381 0.9422 0.9422 ug/m3 (Air) Dilent Sample ID: GESPM082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL MDL Unit Lead 0.0071 0.0022 0.00033 ug/m3 (Air) Copper 0.11 0.0044 0.00033 ug/m3 (Air) Manganese 0.013 0.0022 0.00031 ug/m3 (Air) General Chemistry Analyte Result Qualifier RL Unit Particulate Matter as PM 10 41 0.91 0.91 0.91 ug/m3 Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL Unit Unit ug/m3 Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL Unit Unit ug/m3 Client Sample ID: GESPM082222-222 Date Collected: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL Unit Total Suspended Particulates 68.4593 0.9152 0.9152 ug/m3 (Air) Client Sample ID: GESPM082222-222 Date Collected: 09/14/22 09:20 Sample Container: Folder/Filter	- L	Lab Sample	e ID: 320-92	2008-2
General Chemistry         Analyte       Result Qualifier       RL       Unit         Total Suspended Particulates       62.9381       0.9422       Unit         Client Sample ID: GESPM082222-221         Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20       Sample Container: Folder/Filter         Method: 6020 - Metals (ICP/MS)       Result       Qualifier       RL       MDL       Unit         Lead       0.0071       0.0022       0.00033       ug/m3 (Air)         Copper       0.11       0.0044       0.00033       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       41       0.91       0.91       ug/m3       Unit         Oate Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20       Sample Container: Folder/Filter       General Chemistry       RL       RL       Unit         General Chemistry       Result       Qualifier       RL       RL       Unit         Variate       Result       Qualifier       RL       Unit       ug/m3         Client Sample ID: GESPM082222-221       Date R				trix: Ai
General Chemistry         Analyte       Result       Qualifier       RL       RL       Unit         Total Suspended Particulates       62.9381       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221       Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       Method: 6020 - Metals (ICP/MS)       Malyte       Result       Qualifier       RL       MDL       Unit         Lead       0.0071       0.0022       0.00033       ug/m3 (Air)         Copper       0.11       0.0044       0.00031       ug/m3 (Air)         General Chemistry       Analyte       Result       Qualifier       RL       L       Unit         Particulate Matter as PM 10       41       0.91       0.91       ug/m3       Client Sample ID: GESTSP082222-221         Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20       Bample Container: Folder/Filter       General Chemistry         General Chemistry       Result       Qualifier       RL       RL       Unit         Total Suspended Particulates       68.4593       0.9152       0.9152       0.9152       0.9152       Unit         Client Sample ID: GESPM082222-222<				
AnalyteResultQualifierRLRLUnitTotal Suspended Particulates62.93810.94220.9422ug/m3 (Air)Client Sample ID: GESPM082222-221Date Collected: 09/08/22 14:04Date Received: 09/14/22 09:20Sample Container: Folder/FilterMethod: 6020 - Metals (ICP/MS)AnalyteResultQualifierRLMDLUnitLead0.00710.00220.00033ug/m3 (Air)Copper0.110.00440.00033ug/m3 (Air)General ChemistryAnalyteResultQualifierRLRLUnitParticulate Matter as PM 10410.910.91ug/m3Client Sample ID: GESTSP082222-221Date Received: 09/14/22 09:20Bample Container: Folder/FilterUnitGeneral Chemistry AnalyteResultQualifierRLRLUnitDate Received: 09/14/22 09:20Gample Container: Folder/Filter0.91520.91520.9152ug/m3 (Air)Client Sample ID: GESPM082222-222Date Received: 09/14/22 09:200.91520.9152ug/m3 (Air)Client Sample ID: GESPM082222-222Date Collected: 09/13/22 06:41Date Received: 09/14/22 09:20Sample Container: Folder/FilterClient Sample ID: GESPM082222-222Date Collected: 09/13/22 06:410.91520.9152ug/m3 (Air)Client Sample ID: GESPM082222-222Date Received: 09/14/22 09:20Sample Container: Folder/Filter				
Total Suspended Particulates       62.9381       0.9422       0.9422       ug/m3 (Air)         Client Sample ID: GESPM082222-221         Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter         Method: 6020 - Metals (ICP/MS)         Analyte       Result Qualifier         Lead       0.0071       0.0022         Collocted: 09/08/22 14:04       0.00033       ug/m3 (Air)         Managanese       0.011       0.0022       0.00033       ug/m3 (Air)         General Chemistry       Analyte       Result Qualifier       RL       RL       Unit         Particulate Matter as PM 10       41       0.91       0.91       ug/m3         Client Sample ID: GESTSP082222-221       Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       General Chemistry       0.9152       0.9152       ug/m3 (Air)         Client Sample ID: GESPM082222-222       Cate Collected: 09/13/22 06:41       0.9152       0.9152       ug/m3 (Air)         Client Sample ID: GESPM082222-222       Date Collected: 09/13/22 06:41       Date Received: 09/14/22 09:20       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       General Chemistry       Maltion (Air)       0.9152	D	Prepared	Analyzed	Dil Fa
Client Sample ID: GESPM082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Result Qualifier RL MDL Unit Lead 0.0071 0.0022 0.00033 ug/m3 (Air) Copper 0.11 0.0044 0.00033 ug/m3 (Air) Manganese 0.013 0.0022 0.00031 ug/m3 (Air) General Chemistry Analyte Result Qualifier RL RL Unit Particulate Matter as PM 10 41 0.91 0.91 ug/m3 Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter General Chemistry Analyte Result Qualifier RL L Unit Total Suspended Particulates 68.4593 0.9152 0.9152 ug/m3 (Air) Client Sample ID: GESPM082222-222 Date Collected: 09/14/22 09:20 Sample Container: Folder/Filter			09/15/22 09:30	
AnalyteResultQualifierRLMDLUnitLead0.00710.00220.00033ug/m3 (Air)Copper0.110.00440.00033ug/m3 (Air)Manganese0.0130.00220.00031ug/m3 (Air)General Chemistry AnalyteResultQualifierRLRLParticulate Matter as PM 10410.910.910.91Client Sample ID: GESTSP082222-221Other Container: Folder/FilterValueValueGeneral Chemistry AnalyteResultQualifierRLUnitGeneral Chemistry AnalyteResultQualifierRLUnitOther Container: Folder/Filter0.91520.91520.9152UnitClient Sample ID: GESPM082222-2220.91520.91520.9152UnitCate Collected: 09/13/22 06:41 Date Received: 09/14/22 09:200.91520.9152UnitClient Sample ID: GESPM082222-222Other Collected: 09/13/22 06:41Other Collected: 09/13/22 06:41Other Collected: 09/14/22 09:20Cate Received: 09/14/22 09:20Collected: 09/14/22 09:20Other Collected: 09/14/22 09:20Other Collected: 09/14/22 09:20Cate Received: 09/14/22 09:20Collected: 09/14/22 09:20Collected: 09/14/22 09:20Other Collected: 09/14/22 09:20Cample Container: Folder/FilterCollected: 09/14/22 09:20Collected: 09/14/22 09:20Collected: 09/14/22 09:20Cample Container: Folder/FilterCollected: 09/14/22 09:20Collected: 09/14/22 09:20Collected: 09/14/22 09:20Cample Containe			Ma	trix: Ai
AnalyteResultQualifierRLMDLUnitLead0.00710.00220.00033ug/m3 (Air)Copper0.110.00440.00033ug/m3 (Air)Manganese0.0130.00220.00031ug/m3 (Air)General Chemistry AnalyteResultQualifierRLRLParticulate Matter as PM 10410.910.910.91ug/m3Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/FilterResultQualifierRLunitGeneral Chemistry AnalyteResultQualifierRLug/m3UnitGeneral Chemistry AnalyteResultQualifierRLug/m3Client Sample ID: GESTSP082222-221 Date Collected: 09/14/22 09:20 Sample Container: Folder/Filter0.91520.9152ug/m3 (Air)Client Sample ID: GESPM082222-222 Date Collected: 09/13/22 06:41 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter0.9152ug/m3 (Air)				
Copper Manganese0.110.00440.00033ug/m3 (Air)General Chemistry AnalyteResultQualifierRLRLUnitParticulate Matter as PM 10410.910.910.91ug/m3Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/FilterResultQualifierRLNLGeneral Chemistry AnalyteResultQualifierRLUnitug/m3Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/FilterQualifierRLUnitGeneral Chemistry AnalyteResultQualifierRLUnitug/m3 (Air)Client Sample ID: GESPM082222-222 Date Collected: 09/13/22 06:41 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter	D	Prepared	Analyzed	Dil Fa
Manganese       0.013       0.0022       0.00031       ug/m3 (Air)         General Chemistry       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       41       0.91       0.91       0.91       ug/m3         Client Sample ID: GESTSP082222-221       Date Collected: 09/08/22 14:04       Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       General Chemistry       Result       Qualifier       RL       RL       Unit         General Chemistry       Analyte       Result       Qualifier       0.9152       0.9152       ug/m3 (Air)         Client Sample ID: GESPM082222-222       68.4593       0.9152       0.9152       ug/m3 (Air)         Client Sample ID: GESPM082222-222       Date Collected: 09/13/22 06:41       Date Received: 09/13/22 06:41       Date Received: 09/14/22 09:20         Date Received: 09/14/22 09:20       Dample Container: Folder/Filter       Date Received: 09/14/22 09:20       Date Received: 09/14/22 09:20		09/20/22 08:08	09/23/22 20:08	
General Chemistry         Analyte       Result       Qualifier       RL       RL       Unit         Particulate Matter as PM 10       41       0.91       0.91       ug/m3         Client Sample ID: GESTSP082222-221       Date Collected: 09/08/22 14:04       Date Received: 09/14/22 09:20       Date Container: Folder/Filter         General Chemistry       Analyte       Result       Qualifier       RL       Unit         General Chemistry       Analyte       Result       Qualifier       RL       Unit         Total Suspended Particulates       68.4593       0.9152       0.9152       ug/m3 (Air)         Client Sample ID: GESPM082222-222       Date Collected: 09/13/22 06:41       Date Received: 09/14/22 09:20       Date Received: 09/14/22 09:20         Sample Container: Folder/Filter       Sample Container: Folder/Filter       Sample Container: Folder/Filter		09/20/22 08:08	09/23/22 20:08	
AnalyteResultQualifierRLRLRLUnitParticulate Matter as PM 10410.910.910.91ug/m3Client Sample ID: GESTSP082222-221Date Collected: 09/08/22 14:04Date Received: 09/14/22 09:20Sample Container: Folder/FilterGeneral ChemistryAnalyteResultQualifierRLRLUnitTotal Suspended Particulates68.45930.91520.9152ug/m3 (Air)Client Sample ID: GESPM082222-222Date Collected: 09/13/22 06:41Date Received: 09/14/22 09:20Sample Container: Folder/Filter		09/20/22 08:08	09/23/22 20:08	
Particulate Matter as PM 10       41       0.91       0.91       ug/m3         Client Sample ID: GESTSP082222-221         Date Collected: 09/08/22 14:04         Date Received: 09/14/22 09:20         Sample Container: Folder/Filter         General Chemistry         Analyte       Result       Qualifier       RL       RL       Unit         Total Suspended Particulates       68.4593       0.9152       0.9152       ug/m3 (Air)         Client Sample ID: GESPM082222-222       Date Collected: 09/13/22 06:41       Date Received: 09/14/22 09:20       Sample Container: Folder/Filter				
Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter  General Chemistry Analyte Result Qualifier RL 0.9152 Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fa
Date Collected: 09/08/22 14:04         Date Received: 09/14/22 09:20         Sample Container: Folder/Filter         General Chemistry         Analyte       Result         Total Suspended Particulates       68.4593         O.9152       0.9152         Unit       ug/m3 (Air)         Client Sample ID: GESPM082222-222         Date Received: 09/13/22 06:41         Date Received: 09/14/22 09:20         Sample Container: Folder/Filter			09/15/22 09:30	
Date Received: 09/14/22 09:20         Sample Container: Folder/Filter         General Chemistry         Analyte       Result         Total Suspended Particulates       68.4593         O.9152       0.9152         Unit       0.9152         Unit       0.9152         Unit       0.9152         Analyte       68.4593         O.9152       0.9152         Unit       0.9152         Unit       0.9152         Unit       0.9152         Outer Collected: 09/13/22 06:41         Date Received: 09/14/22 09:20         Sample Container: Folder/Filter	L	Lab Sample	e ID: 320-92	2008-4
Analyte       Result       Qualifier       RL       RL       0.9152       Unit         Total Suspended Particulates       68.4593       0.9152 <td< td=""><td></td><td></td><td>Ma</td><td>trix: Ai</td></td<>			Ma	trix: Ai
Total Suspended Particulates68.45930.91520.9152ug/m3 (Air)Client Sample ID: GESPM082222-222Date Collected: 09/13/22 06:41Date Received: 09/14/22 09:20Sample Container: Folder/Filter				
Client Sample ID: GESPM082222-222 Date Collected: 09/13/22 06:41 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter	D	Prepared	Analyzed	Dil Fa
Date Collected: 09/13/22 06:41 Date Received: 09/14/22 09:20 Sample Container: Folder/Filter			09/15/22 09:30	
Date Received: 09/14/22 09:20 Sample Container: Folder/Filter	l	Lab Sample	e ID: 320-92	
Sample Container: Folder/Filter			Ma	trix: Ai
Method: 6020 - Metals (ICP/MS)				
Analyte Result Qualifier RL MDL Unit	D	Prepared	Analyzed	Dil Fa
Lead 0.0085 0.00070 0.00011 ug/m3 (Air)		09/20/22 08:08		
Copper         0.044         0.0014         0.00011         ug/m3 (Air)		09/20/22 08:08		
Manganese         0.024         0.00070         0.000098         ug/m3 (Air)			09/23/22 20:12	

#### **Client Sample Results**

Client: GES-AIS, LLC

#### **Client Sample Results**

Job ID: 320-92008-1

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

Client Sample ID: GESPM	082222-22	22				L	ab Sample.	e ID: 320-92	2008-5
Date Collected: 09/13/22 06:41								Mat	rix: Air
Date Received: 09/14/22 09:20									
Sample Container: Folder/Filte	ər								
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	42		0.29	0.29	ug/m3			09/15/22 09:30	1
Client Sample ID: GESTS	P082222-2	22				L	ab Sample	D: 320-92	2008-6
Date Collected: 09/13/22 06:41									rix: Air
Date Received: 09/14/22 09:20									
Sample Container: Folder/Filte	ər								
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	90.9597		0.3058	0.3058	ug/m3 (Air)			09/15/22 09:30	1
	092222 22	)2				-	ah Sample	e ID: 320-92	008-7
Client Sample ID' GESPM									
	002222-22								riv: Air
Client Sample ID: GESPM Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20	002222-22								rix: Air
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20		-0							rix: Air
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte	ər						· ·		rix: Air
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M	ər S)							Mat	
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte Method: 6020 - Metals (ICP/M Analyte	er S) Result	Qualifier	RL		Unit	D	Prepared	Mat	Dil Fac
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte Method: 6020 - Metals (ICP/M Analyte Lead	er S) <u>Result</u> 0.0027		0.00068	0.00010	ug/m3 (Air)		Prepared 09/20/22 08:08	Mat <u>Analyzed</u> 09/23/22 20:15	Dil Fac
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte Method: 6020 - Metals (ICP/M Analyte Lead Copper	er S) <u>Result</u> 0.0027 0.015		0.00068	0.00010	ug/m3 (Air) ug/m3 (Air)		Prepared 09/20/22 08:08 09/20/22 08:08	Mat Analyzed 09/23/22 20:15 09/23/22 20:15	Dil Fac
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte Method: 6020 - Metals (ICP/M Analyte Lead	er S) <u>Result</u> 0.0027		0.00068	0.00010	ug/m3 (Air)		Prepared 09/20/22 08:08 09/20/22 08:08	Mat <u>Analyzed</u> 09/23/22 20:15	Dil Fac
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese	er S) <u>Result</u> 0.0027 0.015		0.00068	0.00010	ug/m3 (Air) ug/m3 (Air)		Prepared 09/20/22 08:08 09/20/22 08:08	Mat Analyzed 09/23/22 20:15 09/23/22 20:15	Dil Fac
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte Method: 6020 - Metals (ICP/M Analyte Lead Copper	er S) <u>Result</u> 0.0027 0.015 0.0061		0.00068	0.00010 0.00010 0.000096	ug/m3 (Air) ug/m3 (Air)		Prepared 09/20/22 08:08 09/20/22 08:08	Mat Analyzed 09/23/22 20:15 09/23/22 20:15	<b>Dil Fac</b> 1 1 1
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry	er S) <u>Result</u> 0.0027 0.015 0.0061	Qualifier	0.00068 0.0014 0.00068	0.00010 0.00010 0.000096 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	<u> </u>	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08	Mat <u>Analyzed</u> 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15	Dil Fac
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filte Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10	er S) <u>Result</u> 0.0027 0.015 0.0061 <u>Result</u> 23	Qualifier Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.00010 0.000096 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ D	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08 Prepared	Mat <u>Analyzed</u> 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15 <u>Analyzed</u> 09/15/22 09:30	Dil Fac 1 1 1 1 1 <b>Dil Fac</b> 1
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTS	er S) <u>Result</u> 0.0027 0.015 0.0061 <u>Result</u> 23	Qualifier Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.00010 0.000096 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ D	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08 Prepared	Mat Analyzed 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15 Analyzed 09/15/22 09:30 D: 320-92	Dil Fac 1 1 1 1 1 1 1 2008-8
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTS Date Collected: 09/13/22 06:27	er S) <u>Result</u> 0.0027 0.015 0.0061 <u>Result</u> 23	Qualifier Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.00010 0.000096 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ D	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08 Prepared	Mat Analyzed 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15 Analyzed 09/15/22 09:30 D: 320-92	Dil Fac 1 1 1 1 1 1 1 2008-8
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTS Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20	er S) <u>Result</u> 0.0027 0.015 0.0061 <u>Result</u> 23 P082222-2	Qualifier Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.00010 0.000096 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ D	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08 Prepared	Mat Analyzed 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15 Analyzed 09/15/22 09:30 D: 320-92	Dil Fac 1 1 1 1 1 1 <b>Dil Fac</b> 1 <b>2008-8</b>
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTS Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto	er S) <u>Result</u> 0.0027 0.015 0.0061 <u>Result</u> 23 P082222-2	Qualifier Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.00010 0.000096 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ D	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08 Prepared	Mat Analyzed 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15 Analyzed 09/15/22 09:30 D: 320-92	Dil Fac 1 1 1 1 1 1 1 2008-8
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTS Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto General Chemistry	er S) Result 0.0027 0.015 0.0061 Result 23 P082222-2	Qualifier Qualifier	0.00068 0.0014 0.00068 <b>RL</b> 0.28	0.00010 0.000096 <b>RL</b> 0.28	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ D _ D _ L	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08 Prepared .ab Sample	Mat <u>Analyzed</u> 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15 <u>Analyzed</u> 09/15/22 09:30 <b>Analyzed</b> 1D: 320-92 Mat	Dil Fac 1 1 1 2018 Fac 1 2008-8 rix: Air
Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto Method: 6020 - Metals (ICP/M Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTS Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20 Sample Container: Folder/Filto	er S) Result 0.0027 0.015 0.0061 Result 23 P082222-2	Qualifier Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.000096 RL 0.28	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	_ D	Prepared 09/20/22 08:08 09/20/22 08:08 09/20/22 08:08 Prepared	Mat Analyzed 09/23/22 20:15 09/23/22 20:15 09/23/22 20:15 Analyzed 09/15/22 09:30 D: 320-92	Dil Fac 1 1 1 1 1 <b>Dil Fac</b> 1

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

#### Lab Sample ID: MB 320-618243/1-B **Client Sample ID: Method Blank** Matrix: Air Prep Type: Total/NA Analysis Batch: 619819 Prep Batch: 618256 MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac D 0.00018 ug/m3 (Air) 09/20/22 08:08 09/23/22 19:34 Lead ND 0.0012 1 Copper ND 0.0024 0.00018 ug/m3 (Air) 09/20/22 08:08 09/23/22 19:34 1 ND 0.0012 0.00017 ug/m3 (Air) 09/20/22 08:08 09/23/22 19:34 Manganese 1 Lab Sample ID: LCS 320-618243/2-B **Client Sample ID: Lab Control Sample** Matrix: Air Prep Type: Total/NA Analysis Batch: 619819 Prep Batch: 618256 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.231 ug/m3 (Air) 96 86 - 111 0.240 0.234 ug/m3 (Air) 97 85 - 110 Copper 0.240 0.233 ug/m3 (Air) 97 88 - 110 Manganese

#### Lab Sample ID: LCSD 320-618243/3-B Matrix: Air Analysis Batch: 619819

Analysis Batch: 619819							Prep Ba	itch: 61	8256
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.226		ug/m3 (Air)	_	94	86 - 111	2	15
Copper	0.240	0.227		ug/m3 (Air)		94	85 - 110	3	15
Manganese	0.240	0.228		ug/m3 (Air)		95	88 - 110	2	15

**Eurofins Sacramento** 

Job ID: 320-92008-1

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample Dup** 

#### **QC Association Summary**

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-92008-1

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# **8** 9

#### **Metals** Pre Prep Batch: 618243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92008-1	GESPM082222-220	Total/NA	Air	Filter to Air	
320-92008-3	GESPM082222-221	Total/NA	Air	Filter to Air	
320-92008-5	GESPM082222-222	Total/NA	Air	Filter to Air	
320-92008-7	GESPM082222-223	Total/NA	Air	Filter to Air	
MB 320-618243/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-618243/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-618243/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

#### Prep Batch: 618256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92008-1	GESPM082222-220	Total/NA	Air	3050B	618243
320-92008-3	GESPM082222-221	Total/NA	Air	3050B	618243
320-92008-5	GESPM082222-222	Total/NA	Air	3050B	618243
320-92008-7	GESPM082222-223	Total/NA	Air	3050B	618243
MB 320-618243/1-B	Method Blank	Total/NA	Air	3050B	618243
LCS 320-618243/2-B	Lab Control Sample	Total/NA	Air	3050B	618243
LCSD 320-618243/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	618243

#### Analysis Batch: 619819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92008-1	GESPM082222-220	Total/NA	Air	6020	618256
320-92008-3	GESPM082222-221	Total/NA	Air	6020	618256
320-92008-5	GESPM082222-222	Total/NA	Air	6020	618256
320-92008-7	GESPM082222-223	Total/NA	Air	6020	618256
MB 320-618243/1-B	Method Blank	Total/NA	Air	6020	618256
LCS 320-618243/2-B	Lab Control Sample	Total/NA	Air	6020	618256
LCSD 320-618243/3-B	Lab Control Sample Dup	Total/NA	Air	6020	618256

#### **General Chemistry**

#### Pre Prep Batch: 619386

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92008-2	GESTSP082222-220	Total/NA	Air	Filter to Air	
320-92008-4	GESTSP082222-221	Total/NA	Air	Filter to Air	
320-92008-6	GESTSP082222-222	Total/NA	Air	Filter to Air	
320-92008-8	GESTSP082222-223	Total/NA	Air	Filter to Air	

#### Analysis Batch: 619556

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92008-1	GESPM082222-220	Total/NA	Air	PM10	
320-92008-3	GESPM082222-221	Total/NA	Air	PM10	
320-92008-5	GESPM082222-222	Total/NA	Air	PM10	
320-92008-7	GESPM082222-223	Total/NA	Air	PM10	

#### Analysis Batch: 619569

Lab Sample ID 320-92008-2	Client Sample ID GESTSP082222-220	Prep Type Total/NA	Air	Method 40CFR50 App B	Prep Batch 619386
320-92008-4	GESTSP082222-221	Total/NA	Air	40CFR50 App B	619386
320-92008-6	GESTSP082222-222	Total/NA	Air	40CFR50 App B	619386
320-92008-8	GESTSP082222-223	Total/NA	Air	40CFR50 App B	619386

Dil

1

1

Factor

Run

Client Sample ID: GESPM082222-220

Batch

3050B

6020

**PM10** 

Method

Filter to Air

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Client Sample ID: GESTSP082222-220

Date Collected: 09/08/22 14:16

Date Received: 09/14/22 09:20

Date Collected: 09/08/22 14:16

Date Received: 09/14/22 09:20

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Job ID: 320-92008-1

Matrix: Air

EET SAC

EET SAC

EET SAC

EET SAC

Lab

Lab Sample ID: 320-92008-1

Analyst

Lab Sample ID: 320-92008-2

Lab Sample ID: 320-92008-4

Lab Sample ID: 320-92008-5

Prepared

or Analyzed

09/20/22 07:36

09/20/22 08:08

09/23/22 19:59

09/15/22 09:30

# 9

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			619569	09/15/22 09:30		EET SAC
Total/NA	Pre Prep	Filter to Air					619386	09/23/22 13:14		EET SAC

#### Client Sample ID: GESPM082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed Anal	yst Lab
Total/NA	Pre Prep	Filter to Air					618243	09/20/22 07:36	EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	618256	09/20/22 08:08	EET SAC
Total/NA	Analysis	6020		1			619819	09/23/22 20:08	EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0225 g	619556	09/15/22 09:30	EET SAC

#### Client Sample ID: GESTSP082222-221 Date Collected: 09/08/22 14:04 Date Received: 09/14/22 09:20

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	40CFR50 App B		1			619569	09/15/22 09:30		EET SAC	
Total/NA	Pre Prep	Filter to Air					619386	09/23/22 13:14		EET SAC	

#### Client Sample ID: GESPM082222-222 Date Collected: 09/13/22 06:41 Date Received: 09/14/22 09:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					618243	09/20/22 07:36		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	618256	09/20/22 08:08		EET SAC
Total/NA	Analysis	6020		1	I		619819	09/23/22 20:12		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0725 g	619556	09/15/22 09:30		EET SAC

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**Eurofins Sacramento** 

Initial

Amount

0.08333 Sample

0 g

Batch

Number

618243

618256

619819

619556

Final

Amount

100 mL

0.0237 g

9/27/2022

Lab Sample ID: 320-92008-8

Matrix: Air

#### Client Sample ID: GESTSP082222-222 Date Collected: 09/13/22 06:41 Date Received: 09/14/22 09:20

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			619569	09/15/22 09:30		EET SAC
Total/NA	Pre Prep	Filter to Air					619386	09/23/22 13:14		EET SAC

Lab Chronicle

#### Client Sample ID: GESPM082222-223 Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					618243	09/20/22 07:36		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	618256	09/20/22 08:08		EET SAC
Total/NA	Analysis	6020		1			619819	09/23/22 20:15		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0413 g	619556	09/15/22 09:30		EET SAC

#### Client Sample ID: GESTSP082222-223 Date Collected: 09/13/22 06:27 Date Received: 09/14/22 09:20

—	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			619569	09/15/22 09:30		EET SAC
Total/NA	Pre Prep	Filter to Air					619386	09/23/22 13:14		EET SAC

#### Laboratory References:

EET 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

#### 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

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

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Method	Method Description	Protocol	Laboratory	
6020	Metals (ICP/MS)	SW846	EET SAC	
40CFR50 App B	Suspended Particulate Matter in Ambient Air	EPA	EET SAC	
PM10	Particulate Matter	40CFR50J	EET SAC	
3050B	Preparation, Metals	SW846	EET SAC	
Filter to Air	Filter to Air volume ratio	None	EET SAC	
Protocol Refe	rences:			
40CFR50J				
EPA = US I	Environmental Protection Agency			

None = None

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

#### Laboratory References:

EET 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: 320-92008-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92008-1	GESPM082222-220	Air	09/08/22 14:16	09/14/22 09:20
320-92008-2	GESTSP082222-220	Air	09/08/22 14:16	09/14/22 09:20
320-92008-3	GESPM082222-221	Air	09/08/22 14:04	09/14/22 09:20
320-92008-4	GESTSP082222-221	Air	09/08/22 14:04	09/14/22 09:20
320-92008-5	GESPM082222-222	Air	09/13/22 06:41	09/14/22 09:20
320-92008-6	GESTSP082222-222	Air	09/13/22 06:41	09/14/22 09:20
320-92008-7	GESPM082222-223	Air	09/13/22 06:27	09/14/22 09:20
320-92008-8	GESTSP082222-223	Air	09/13/22 06:27	09/14/22 09:20

#### CHAIN-OF-CUSTODY RECORD

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

COC # KT091322AIRE



Pro	ject Name: Hunters Point S		Lab	orat	ory: E	URO	FINS	ENV	RONI	MEN	T TESTING NORTHERN	CALIFORN	A. LLC	EETN	Event: Parcel E Phase 2 Air				
Pro	ject Number: J310000400					PO												Monito	ring
WB	S Code: J310000400-016					Shi	p to:	880	Rivers	ide l	Parkw	ay, W	est S	acramento, CA 95605				1	
	nments: ipment:				Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu						Code Matrix A Air Code Container/Preservative 1 1x Envelope, None 320		ain of Cu	ustody		
	Event: Parcel E Phase 2 Air	Monitorin	9			1	1	1										1	
	Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM082222-220	A	09/08/2022	1416		Х		Х						AMSE1	N2	0.00	0.00	1	VOLUME: 545.12 (M3)
2	GESTSP082222-220	A	09/08/2022	1416			X					T		AMSE1	N2	0.00	0.00	1	VOLUME: 530.68 (M3)
3	GESPM082222-221	A	09/08/2022	1404		Х		Х		Γ				AMSE2	N2	0.00	0.00	1	VOLUME: 550.75 (M3)
4	GESTSP082222-221	A	09/08/2022	1404			Х							AMSE2	N2	0.00	0.00	1	VOLUME: 546.31 (M3)
5	GESPM082222-222	A	09/13/2022	0641		Х		Х						AMSE1	N1	0.00	0.00	1	VOLUME: 1710.95 (M3)
6	GESTSP082222-222	A	09/13/2022	0641			Х							AMSE1	N1	0.00	0.00	1	VOLUME: 1634.79 (M3)
	GESPM082222-223	A	09/13/2022	0627		Х		Х						AMSE2	N1	0.00	0.00	1	VOLUME: 1757.89 (M3)
8	GESTSP082222-223	A	09/13/2022	0627			Х							AMSE2	N1	0.00	0.00	1	VOLUME: 1740.54 (M3)
9		1							1	14									
10	<u> </u>								17			9-1	3-	22					
Tur	naround Time: 5 days															-			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
MC	9-13-22	1600	FEDEX	9-13-22	1600	Shipping Date: 9/13/2022 / FedEx 7779 0854 8184
			FG TSU	9.14.22	OFIC	
						Received by Laboratory: (Signature, Date, Time) & condition

9/27/2022

Page 1 of 1

#### Login Sample Receipt Checklist

#### Client: GES-AIS, LLC

#### Login Number: 92008 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 320-92008-1

List Source: Eurofins Sacramento

# 🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 320-92156-1

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

#### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

#### Attn:

LINKS

Review your project results through

EOL

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

Authorized for release by: 9/27/2022 8:35:10 AM

Project Manager I

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: 320-92156-1

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

#### Job ID: 320-92156-1

#### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92156-1

**Case Narrative** 

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/16/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.7° C.

#### 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

#### Client Sample ID: CESPM092222 224

Client Sample ID: GESP	1082222-22	24				Lab Sa	mple ID: 32	0-92156-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0017		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.011		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0037		0.00069	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	10		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	SP082222-2	24				Lab Sa	mple ID: 32	0-92156-2
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	16.3598		0.3007	0.3007	ug/m3 (Air)	<u> </u>	40CFR50 App B	Total/NA
Client Sample ID: GESP	/1082222-22	25				Lab Sa	mple ID: 32	0-92156-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0018		0.00068		ug/m3 (Air)	1	6020	Total/NA
Copper	0.13		0.0014		ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0047		0.00068		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	13		0.28		ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	SP082222-2	25				Lab Sa	mple ID: 32	0-92156-4
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	22.4361		0.2833		ug/m3 (Air)	<u> </u>	40CFR50 App B	
- Client Sample ID: GESP	/1082222-22	26				Lab Sa	mple ID: 32	0-92156-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0056		0.00081	0.00012	ug/m3 (Air)	1	6020	Total/NA
Copper	0.021		0.0016	0.00012	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.015		0.00081	0.00011	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	28		0.34		ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	SP082222-2	26				Lab Sa	mple ID: 32	0-92156-0
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	52.3060		0.3510	0.3510	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESP	/1082222-22	27				Lab Sa	mple ID: 32	0-92156-7
Analyte		Qualifier	RL	MDL		Dil Fac D		Prep Type
Lead	0.0024		0.00068	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.19		0.0014		ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0061		0.00068	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	18		0.28	0.28	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	SP082222-2	27				Lab Sa	mple ID: 32	0-92156-
_								
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type

This Detection Summary does not include radiochemical test results.

9/27/2022

4 5

Client Sample ID: GESPM08 Date Collected: 09/14/22 06:44 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter	2222-22	24				L	ab Sample.	e ID: 320-92 Mat	156-1 rix: Ai
Method: 6020 - Metals (ICP/MS)		o 117				_	<b>_</b>		
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed 09/23/22 13:07	Dil Fac
Lead	0.0017		0.00069 0.0014		ug/m3 (Air) ug/m3 (Air)		09/23/22 05:00 09/23/22 05:00	09/23/22 13:07	
Copper Manganese	0.011 0.0037		0.00069		ug/m3 (Air) ug/m3 (Air)		09/23/22 05:00		
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10	10		0.29	0.29	ug/m3			09/21/22 08:00	
Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:44 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter	82222-2	24				L	ab Sample.	e ID: 320-92 Mat	:156-2 rix: Ai
General Chemistry	Decult	Qualifier	Ы	Ы	11	-	Drepered	Anolyzad	
Analyte Total Suspended Particulates	16.3598	Qualifier	RL 0.3007		Unit ug/m3 (Air)	D	Prepared	Analyzed 09/21/22 08:00	Dil Fa
Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Lead	0.0018		0.00068	0.00010	ug/m3 (Air)		09/23/22 05:00	09/23/22 13:17	
	0.40			0 00010	ug/m3 (Air)		09/23/22 05:00	09/23/22 13:17	
Copper	0.13		0.0014		• • •				
Copper Manganese	0.13 0.0047		0.0014 0.00068		ug/m3 (Air) ug/m3 (Air)		09/23/22 05:00		
Manganese General Chemistry	0.0047		0.00068	0.000095	ug/m3 (Air)			09/23/22 13:17	
Manganese General Chemistry Analyte	0.0047 Result	Qualifier	0.00068 <b>RL</b>	0.000095 RL	ug/m3 (Air) Unit	<u>D</u>	09/23/22 05:00 Prepared	09/23/22 13:17 Analyzed	Dil Fa
Manganese General Chemistry	0.0047 Result 13		0.00068	0.000095 RL	ug/m3 (Air)	·	Prepared	09/23/22 13:17  Analyzed 09/21/22 08:00  D: 320-92	Dil Fa 2156-4 rix: Ai
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36	0.0047 Result 13		0.00068 <b>RL</b>	0.000095 RL	ug/m3 (Air) Unit	·	Prepared	09/23/22 13:17  Analyzed 09/21/22 08:00  D: 320-92	Dil Fa
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter General Chemistry	0.0047 Result 13 82222-2	25	0.00068	0.000095 RL 0.28	ug/m3 (Air) Unit ug/m3	L	Prepared	09/23/22 13:17  Analyzed 09/21/22 08:00  D1: 320-92 Mat	 156-4 rix: Ai
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter	0.0047 Result 13 82222-2		0.00068 <b>RL</b>	0.000095 RL 0.28 RL	ug/m3 (Air) Unit	·	Prepared	09/23/22 13:17  Analyzed 09/21/22 08:00  D: 320-92	rix: A
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter General Chemistry Analyte	0.0047 Result 13 82222-2 Result 22.4361	Qualifier	0.00068 0.28 RL	0.000095 RL 0.28 RL	ug/m3 (Air) Unit ug/m3	L	Prepared ab Sample	09/23/22 13:17  Analyzed 09/21/22 08:00  D: 320-92 Mat  Analyzed 09/21/22 08:00  Analyzed 09/21/22 08:00  D: 320-92	Dil Fa 1 <b>56</b> -4 rix: Ai
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/15/22 06:44 Date Received: 09/15/22 06:44 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	0.0047 Result 13 82222-2 Result 22.4361 2222-22	Qualifier	0.00068 	0.000095 RL 0.28 RL 0.2833	ug/m3 (Air) Unit ug/m3 Unit ug/m3 (Air)	  	Prepared .ab Sample Prepared .ab Sample	09/23/22 13:17 Analyzed 09/21/22 08:00 PID: 320-92 Mat Analyzed 09/21/22 08:00 PID: 320-92 Mat	Dil Fa 156-4 rix: Ai Dil Fa 156-4 rix: Ai
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/15/22 06:44 Date Received: 09/15/22 06:44 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.0047 Result 82222-2 Result 2224361 2222-22 Result	Qualifier	0.00068 0.28 RL 	0.000095 RL 0.28 RL 0.2833 MDL	ug/m3 (Air) Unit Unit Ug/m3 (Air) Unit Unit	L	Prepared ab Sample Prepared ab Sample	09/23/22 13:17 Analyzed 09/21/22 08:00 PID: 320-92 Mat 09/21/22 08:00 PID: 320-92 Mat 09/21/22 08:00 PID: 320-92 Mat	Dil Fa 156-4 rix: Ai Dil Fa rix: Ai
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/15/22 06:44 Date Collected: 09/15/22 06:44 Date Collected: 09/16/22 10:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	0.0047 Result 82222-2 Result 22.4361 2222-22 Result 0.0056	Qualifier	0.00068 RL 0.2833 RL 0.2833 RL 0.00081	0.000095 RL 0.28 RL 0.2833 MDL 0.00012	ug/m3 (Air) Unit ug/m3 Unit ug/m3 (Air) Unit ug/m3 (Air) Unit ug/m3 (Air)	  	Prepared ab Sample Prepared ab Sample Prepared 09/23/22 05:00	09/23/22 13:17 Analyzed 09/21/22 08:00 PID: 320-92 Mat 09/21/22 08:00 PID: 320-92 Mat 09/21/22 08:00 PID: 320-92 Mat	Dil Fa 156-4 rix: Ai Dil Fa rix: Ai
Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP08 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/15/22 06:44 Date Received: 09/15/22 06:44 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.0047 Result 82222-2 Result 2224361 2222-22 Result	Qualifier	0.00068 0.28 RL 	0.000095 RL 0.28 RL 0.2833 MDL 0.00012 0.00012 0.00012	ug/m3 (Air) Unit Unit Ug/m3 (Air) Unit Unit	  	Prepared ab Sample Prepared ab Sample	09/23/22 13:17 Analyzed 09/21/22 08:00 PID: 320-92 Mat 09/21/22 08:00 PID: 320-92 Mat 09/21/22 08:00 PID: 320-92 Mat 09/21/22 08:00 PID: 320-92 Mat	Dil Fa 156- rix: Ai Dil Fa rix: Ai

Job ID: 320-92156-1

**Client Sample Results** 

Client: GES-AIS, LLC

#### **Client Sample Results**

Client: GES-AIS, LLC

Job ID: 320-92156-1

Project/Site: Hunters Point, Parcel	E, Phase 2	2							
Client Sample ID: GESPM0 Date Collected: 09/15/22 06:44 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter		26				L	.ab Sample	e ID: 320-92 Mat	2156-5 rix: Air
General Chemistry Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.34	0.34	ug/m3			09/21/22 08:00	1
Client Sample ID: GESTSP Date Collected: 09/15/22 06:44 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter		26				L	.ab Sample	e ID: 320-92 Mat	2156-6 rix: Air
General Chemistry									
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	52.3060		0.3510	0.3510	ug/m3 (Air)			09/21/22 08:00	I
Date Collected: 09/15/22 06:32 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter								Mat	rix: Air
Method: 6020 - Metals (ICP/MS) Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024		0.00068		ug/m3 (Air)		09/23/22 05:00	09/23/22 13:23	1
Copper	0.19		0.0014	0.00010	ug/m3 (Air)		09/23/22 05:00	09/23/22 13:23	1
Manganese	0.0061		0.00068	0.000096	ug/m3 (Air)		09/23/22 05:00	09/23/22 13:23	1
General Chemistry Analyte	Booult	Qualifier	RL	ы	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18	Quaimer	0.28		ug/m3		Fiepaleu	09/21/22 08:00	1
Client Sample ID: GESTSP Date Collected: 09/15/22 06:32 Date Received: 09/16/22 10:00 Sample Container: Folder/Filter		227			-	L	ab Sample	e ID: 320-92 Mat	2 <b>156-8</b> rix: Air
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.0485		0.2850		ug/m3 (Air)			09/21/22 08:00	1

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

#### Lab Sample ID: MB 320-619275/1-B **Client Sample ID: Method Blank** Matrix: Air Prep Type: Total/NA Analysis Batch: 619757 Prep Batch: 619290 MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac D 0.00018 ug/m3 (Air) 09/23/22 05:00 09/23/22 12:32 Lead ND 0.0012 1 Copper ND 0.0024 0.00018 ug/m3 (Air) 09/23/22 05:00 09/23/22 12:32 1 ND 0.0012 0.00017 ug/m3 (Air) 09/23/22 05:00 09/23/22 12:32 Manganese 1 Lab Sample ID: LCS 320-619275/2-B **Client Sample ID: Lab Control Sample** Matrix: Air Prep Type: Total/NA Analysis Batch: 619757 Prep Batch: 619290 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.251 ug/m3 (Air) 104 86 - 111 0.240 0.248 ug/m3 (Air) 103 Copper 85 - 110

0.254

ug/m3 (Air)

#### Lab Sample ID: LCSD 320-619275/3-B Matrix: Air Analysis Batch: 619757

Manganese

Analysis Batch: 619757						Prep Ba	itch: 61	19290
	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifie	er Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.244	ug/m3 (Air)		101	86 - 111	3	15
Copper	0.240	0.248	ug/m3 (Air)		104	85 - 110	0	15
Manganese	0.240	0.256	ug/m3 (Air)		107	88 - 110	1	15

0.240

88 - 110

Prep Type: Total/NA

106

**Client Sample ID: Lab Control Sample Dup** 

Job ID: 320-92156-1

#### **QC Association Summary**

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

# 8 9 10 11

13

#### Metals Pre Prep Batch: 619275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92156-1	GESPM082222-224	Total/NA	Air	Filter to Air	
320-92156-3	GESPM082222-225	Total/NA	Air	Filter to Air	
320-92156-5	GESPM082222-226	Total/NA	Air	Filter to Air	
320-92156-7	GESPM082222-227	Total/NA	Air	Filter to Air	
MB 320-619275/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-619275/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-619275/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

#### Prep Batch: 619290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92156-1	GESPM082222-224	Total/NA	Air	3050B	619275
320-92156-3	GESPM082222-225	Total/NA	Air	3050B	619275
320-92156-5	GESPM082222-226	Total/NA	Air	3050B	619275
320-92156-7	GESPM082222-227	Total/NA	Air	3050B	619275
MB 320-619275/1-B	Method Blank	Total/NA	Air	3050B	619275
LCS 320-619275/2-B	Lab Control Sample	Total/NA	Air	3050B	619275
LCSD 320-619275/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	619275

#### Analysis Batch: 619757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92156-1	GESPM082222-224	Total/NA	Air	6020	619290
320-92156-3	GESPM082222-225	Total/NA	Air	6020	619290
320-92156-5	GESPM082222-226	Total/NA	Air	6020	619290
320-92156-7	GESPM082222-227	Total/NA	Air	6020	619290
MB 320-619275/1-B	Method Blank	Total/NA	Air	6020	619290
LCS 320-619275/2-B	Lab Control Sample	Total/NA	Air	6020	619290
LCSD 320-619275/3-B	Lab Control Sample Dup	Total/NA	Air	6020	619290

#### **General Chemistry**

#### Pre Prep Batch: 619387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92156-2	GESTSP082222-224	Total/NA	Air	Filter to Air	
320-92156-4	GESTSP082222-225	Total/NA	Air	Filter to Air	
320-92156-6	GESTSP082222-226	Total/NA	Air	Filter to Air	
320-92156-8	GESTSP082222-227	Total/NA	Air	Filter to Air	

#### Analysis Batch: 619576

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92156-2	GESTSP082222-224	Total/NA	Air	40CFR50 App B	619387
320-92156-4	GESTSP082222-225	Total/NA	Air	40CFR50 App B	619387
320-92156-6	GESTSP082222-226	Total/NA	Air	40CFR50 App B	619387
320-92156-8	GESTSP082222-227	Total/NA	Air	40CFR50 App B	619387

#### Analysis Batch: 619601

Lab Sample ID 320-92156-1	Client Sample ID GESPM082222-224	Prep Type Total/NA	Matrix	PM10	Prep Batch
320-92156-3	GESPM082222-225	Total/NA	Air	PM10	
320-92156-5	GESPM082222-226	Total/NA	Air	PM10	
320-92156-7	GESPM082222-227	Total/NA	Air	PM10	

Dil

1

1

Dil

1

Factor

Factor

Run

Run

Initial

Amount

0.08333 Sample

0 g

Client Sample ID: GESPM082222-224

Batch

3050B

6020

**PM10** 

Batch

Method

Filter to Air

40CFR50 App B

Method

Filter to Air

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Batch

Type

Analysis

Pre Prep

Client Sample ID: GESTSP082222-224

Date Collected: 09/14/22 06:44

Date Received: 09/16/22 10:00

Date Collected: 09/14/22 06:44

Date Received: 09/16/22 10:00

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Job ID: 320-92156-1

Analyst

Lab Sample ID: 320-92156-2

Lab Sample ID: 320-92156-4

Lab Sample ID: 320-92156-5

Matrix: Air

EET SAC

EET SAC

EET SAC

EET SAC

Lab

# 2 3 4 5 6 7 8 9

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Initial	Final	Batch	Prepared		
Amount	Amount	Number	or Analyzed	Analyst	Lab
		619576	09/21/22 08:00		EET SAC
		619387	09/23/22 13:16		EET SAC
		L	ab Sample	ID: 320	-92156-3

Prepared

or Analyzed

09/23/22 04:05

09/23/22 05:00

09/23/22 13:07

09/21/22 08:00

#### Client Sample ID: GESPM082222-225 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					619275	09/23/22 04:05		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	619290	09/23/22 05:00		EET SAC
Total/NA	Analysis	6020		1			619757	09/23/22 13:17		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0237 g	619601	09/21/22 08:00		EET SAC

#### Client Sample ID: GESTSP082222-225 Date Collected: 09/14/22 06:36 Date Received: 09/16/22 10:00

	Batch	Batch	P	Dil	Initial	Final	Batch	Prepared	<b>A</b>	1
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			619576	09/21/22 08:00		EET SAC
Total/NA	Pre Prep	Filter to Air					619387	09/23/22 13:16		EET SAC

#### Client Sample ID: GESPM082222-226 Date Collected: 09/15/22 06:44 Date Received: 09/16/22 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					619275	09/23/22 04:05		EET SAC
Total/NA	Prep	3050B			0.08333	100 mL	619290	09/23/22 05:00		EET SAC
Total/NA	Analysis	6020		1	Sample		619757	09/23/22 13:20		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0424 g	619601	09/21/22 08:00		EET SAC

**Eurofins Sacramento** 

Batch

Number

619275

619290

619757

619601

Final

Amount

100 mL

0.0180 g

Lab Sample ID: 320-92156-8

Matrix: Air

#### Client Sample ID: GESTSP082222-226 Date Collected: 09/15/22 06:44 Date Received: 09/16/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			619576	09/21/22 08:00		EET SAC
Total/NA	Pre Prep	Filter to Air					619387	09/23/22 13:16		EET SAC

Lab Chronicle

#### Client Sample ID: GESPM082222-227 Date Collected: 09/15/22 06:32 Date Received: 09/16/22 10:00

Ргер Туре	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					619275	09/23/22 04:05		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	619290	09/23/22 05:00		EET SAC
Total/NA	Analysis	6020		1			619757	09/23/22 13:23		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0320 g	619601	09/21/22 08:00		EET SAC

#### Client Sample ID: GESTSP082222-227 Date Collected: 09/15/22 06:32 Date Received: 09/16/22 10:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			619576	09/21/22 08:00		EET SAC
Total/NA	Pre Prep	Filter to Air					619387	09/23/22 13:16		EET SAC

#### Laboratory References:

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

9

#### Accreditation/Certification Summary

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

#### 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

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

6-1	
	5
	8
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	11

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

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:

EET 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: 320-92156-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92156-1	GESPM082222-224	Air	09/14/22 06:44	09/16/22 10:00
320-92156-2	GESTSP082222-224	Air	09/14/22 06:44	09/16/22 10:00
320-92156-3	GESPM082222-225	Air	09/14/22 06:36	09/16/22 10:00
320-92156-4	GESTSP082222-225	Air	09/14/22 06:36	09/16/22 10:00
320-92156-5	GESPM082222-226	Air	09/15/22 06:44	09/16/22 10:00
320-92156-6	GESTSP082222-226	Air	09/15/22 06:44	09/16/22 10:00
320-92156-7	GESPM082222-227	Air	09/15/22 06:32	09/16/22 10:00
320-92156-8	GESTSP082222-227	Air	09/15/22 06:32	09/16/22 10:00

Page 14 of 16

### CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT091522AIRE



NORTHERN CALIFORNIA, LLC (EET	N Event: Parcel E Phase 2 Air					
POC:						
CA 95605	-					
Air ntainer/Preservative						
MSE1 N1 0.00 0.	00 <b>1</b> VOLUME: 1741.46 (M3)					
MSE1 N1 0.00 0.	00 <b>1</b> VOLUME: 1662.61 (M3)					
MSE2 N1 0.00 0.	00 1 VOLUME: 1773.20 (M3)					
MSE2 N1 0.00 0.	00 1 VOLUME: 1765.01 (M3)					
MSE1 N1 0.00 0.	00 1 VOLUME: 1489.99 (M3)					
MSE1 N1 0.00 0.	00 1 VOLUME: 1424.31 (M3)					
MSE2 N1 0.00 0.	00 1 VOLUME: 1755.12 (M3)					
MSE2 N1 0.00 0.	00 <b>1</b> VOLUME: 1754.42 (M3)					
	Sample         Depth         (ft by container/Preservative           x Envelope, None         Sample         Depth         (ft by container/Preservative           x Envelope, None         Top - Botton         Amsein         Amsein           Amsein         N1         0.00         0.0           AMSE1         N1         0.00         0.0           AMSE2         N1         0.00         0.0           AMSE1         N1         0.00         0.0           AMSE2         N1         0.00         0.0           AMSE1         N1         0.00         0.0           AMSE2         N1         0.00         0.0           AMSE1         N1         0.00         0.0           AMSE1         N1         0.00         0.0					

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	9/15/22	1600	FEDER	09/15/22	1600	Shipping Date: 9/15/2022 / FedEx 7779 2371 3921
					1000	
						Received by Laboratory: (Signature, Date, Time) & condition
	1					

9/27/2022

19.7.0

<del>1</del>ີ ພ

### Login Sample Receipt Checklist

### Client: GES-AIS, LLC

### Login Number: 92156 List Number: 1

Creator:

Radioactivity wasn't checked or is = background as measured by a survey meter.</th <th>True</th> <th></th>	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	

Job Number: 320-92156-1

List Source: Eurofins Sacramento

# 🔅 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

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

## Laboratory Job ID: 320-92270-1

Client Project/Site: Hunters Point, Parcel E, Phase 2 Revision: 1

### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

Attn:

LINKS

Review your project results through

EOL

Have a Question?

Ask-

The

www.eurofinsus.com/Env

Visit us at:

Expert

Authorized for release by: 10/11/2022 1:27:54 PM

Project Manager I

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: 320-92270-1

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

### Job ID: 320-92270-1

### Laboratory: Eurofins Sacramento

#### Narrative

Job Narrative 320-92270-1

**Case Narrative** 

### Revision

This report and the associated EDD were revised October 11, 2022 to include information from a revised COC from the client. No analytical data changed as a result of this revision. Copies of both COCs are included.

#### Receipt

The samples were received on 9/21/2022 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 19.8° C.

#### 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

#### Client C

Client Sample ID: GESPN	1082222-22	28				Lab S	ample ID: 32	0-92270-1	
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	0.031		0.0044	0.00033	ug/m3 (Air)	1	6020	Total/NA	
Manganese	0.018		0.0022	0.00031	ug/m3 (Air)	1	6020	Total/NA	
Particulate Matter as PM 10	31		0.92		ug/m3	1	PM10	Total/NA	
Client Sample ID: GESTS	P082222-2	28				Lab S	ample ID: 32	0-92270-2	
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type	
Total Suspended Particulates	65.2149		0.9619	0.9619	ug/m3 (Air)	1	40CFR50 App B	Total/NA	
Client Sample ID: GESPN	1082222-22	29				Lab S	ample ID: 32	0-92270-3	
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type	
Lead	0.0046		0.0021		ug/m3 (Air)	1	6020	Total/NA	
Copper	0.11		0.0041		ug/m3 (Air)	1	6020	Total/NA	
Manganese	0.012		0.0021		ug/m3 (Air)	1	6020	Total/NA	
Particulate Matter as PM 10	19		0.86		ug/m3	1	PM10	Total/NA	
Client Sample ID: GESTS	P082222-2	29				Lab S	ample ID: 32	0-92270-4	
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type	
Total Suspended Particulates	34.1945		0.8635	0.8635	ug/m3 (Air)	1	40CFR50 App B		
Client Sample ID: GESPN	1082222-23	30				Lab Sample ID: 320-92270-5			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type	
Lead	0.0013		0.00070	0.00011	ug/m3 (Air)	1	6020	Total/NA	
Copper	0.072		0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA	
Manganese	0.0029		0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA	
Particulate Matter as PM 10	12		0.29		ug/m3	1	PM10	Total/NA	
lient Sample ID: GESTS	P082222-2	30				Lab S	ample ID: 32	0-92270-	
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type	
Total Suspended Particulates	15.3662		0.3037	0.3037	ug/m3 (Air)	1	40CFR50 App B	Total/NA	
Client Sample ID: GESPN	1082222-23	81				Lab S	ample ID: 32	0-92270-7	
Analyte		Qualifier	RL	MDL		Dil Fac		Prep Type	
Lead	0.00099		0.00069		ug/m3 (Air)	1	6020	Total/NA	
Copper	0.021		0.0014		ug/m3 (Air)	1	6020	Total/NA	
Manganese	0.0017		0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA	
Particulate Matter as PM 10	11		0.29	0.29	ug/m3	1	PM10	Total/NA	
Client Sample ID: GESTS	P082222-2	31				Lab S	ample ID: 32	0-92270-	
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D Method	Prep Type	

This Detection Summary does not include radiochemical test results.

## Job ID: 320-92270-1

Client: CES AIS LLC		Chem	Sample	Nesui	13			lah ID: 220 (	00070 4
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel I	E, Phase 2	2						Job ID: 320-9	92270-1
Client Sample ID: GESPM08 Date Collected: 09/15/22 14:40	32222-22	28				L	ab Sample	e ID: 320-92 Mat	2270-1 rix: Air
Date Received: 09/21/22 09:35 Sample Container: Folder/Filter									
Method: SW846 6020 - Metals (I									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0067		0.0022		ug/m3 (Air)		09/28/22 04:30	09/28/22 21:13	1
Copper	0.031		0.0044	0.00033	ug/m3 (Air)		09/28/22 04:30	09/28/22 21:13	1
Manganese	0.018		0.0022	0.00031	ug/m3 (Air)		09/28/22 04:30	09/28/22 21:13	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.92	0.92	ug/m3			09/22/22 14:30	1
(40CFR50J PM10)									
Client Sample ID: GESTSP0	82222-2	28				L	ab Sample	e ID: 320-92	
Date Collected: 09/15/22 14:40								Mat	rix: Air
Date Received: 09/21/22 09:35 Sample Container: Folder/Filter									
General Chemistry						_			
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	65.2149		0.9619	0.9619	ug/m3 (Air)			09/22/22 14:30	1
Client Sample ID: GESPM08	32222-22	29				L	ab Sample	e ID: 320-92	270-3
Date Collected: 09/15/22 14:30								Mat	rix: Air
Date Received: 09/21/22 09:35									
Sample Container: Folder/Filter									
Method: SW846 6020 - Metals (I	CP/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0046		0.0021		ug/m3 (Air)		09/28/22 04:30	09/28/22 21:23	1
Copper	0.11		0.0041		ug/m3 (Air)		09/28/22 04:30	09/28/22 21:23	1
Manganese	0.012		0.0021	0.00029	ug/m3 (Air)		09/28/22 04:30	09/28/22 21:23	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	19		0.86	0.86	ug/m3			09/22/22 14:30	1
Client Sample ID: GESTSP0	82222-2	29					ab Sample	e ID: 320-92	2270-4
Date Collected: 09/15/22 14:30		-							rix: Air
Date Received: 09/21/22 09:35									
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA	34.1945		0.8635	0.8635	ug/m3 (Air)			09/22/22 14:30	1
40CFR50 App B)									

**Client Sample Results** 

Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	MS) Result 0.0013 0.0029 Result 12		RL 0.00070 0.0014 0.00070 RL 0.29	0.00011 0.00011 0.000098	Unit ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	L 	<b>Prepared</b> 09/28/22 04:30 09/28/22 04:30 09/28/22 04:30	Analyzed 09/28/22 21:26 09/28/22 21:26	2270-5 rix: Air Dil Fac
Date Collected: 09/20/22 06:37 Date Received: 09/21/22 09:35 Sample Container: Folder/Filter Method: SW846 6020 - Metals (ICP/ Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	MS) Result 0.0013 0.072 0.0029 Result 12	Qualifier	0.00070 0.0014 0.00070 <b>RL</b>	0.00011 0.00011 0.000098	ug/m3 (Air) ug/m3 (Air)		Prepared 09/28/22 04:30 09/28/22 04:30	Mat Analyzed 09/28/22 21:26 09/28/22 21:26	Dil Fac           1           1
Method: SW846 6020 - Metals (ICP/         Analyte         Lead         Copper         Manganese         General Chemistry         Analyte         Particulate Matter as PM 10         (40CFR50J PM10)         Client Sample ID: GESTSP082         Date Collected: 09/20/22 06:37	Result 0.0013 0.072 0.0029 Result 12		0.00070 0.0014 0.00070 <b>RL</b>	0.00011 0.00011 0.000098	ug/m3 (Air) ug/m3 (Air)	<u>D</u>	09/28/22 04:30 09/28/22 04:30	09/28/22 21:26 09/28/22 21:26	1 1
Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	Result 0.0013 0.072 0.0029 Result 12		0.00070 0.0014 0.00070 <b>RL</b>	0.00011 0.00011 0.000098	ug/m3 (Air) ug/m3 (Air)	<u>D</u>	09/28/22 04:30 09/28/22 04:30	09/28/22 21:26 09/28/22 21:26	1 1
Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	Result 0.0013 0.072 0.0029 Result 12		0.00070 0.0014 0.00070 <b>RL</b>	0.00011 0.00011 0.000098	ug/m3 (Air) ug/m3 (Air)	<u>D</u>	09/28/22 04:30 09/28/22 04:30	09/28/22 21:26 09/28/22 21:26	1 1
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	0.0013 0.072 0.0029 Result 12		0.00070 0.0014 0.00070 <b>RL</b>	0.00011 0.00011 0.000098	ug/m3 (Air) ug/m3 (Air)		09/28/22 04:30 09/28/22 04:30	09/28/22 21:26 09/28/22 21:26	1 1
Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	0.072 0.0029 Result 12	Qualifier	0.0014 0.00070 <b>RL</b>	0.00011 0.000098	ug/m3 (Air)				
Manganese General Chemistry Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	0.0029 Result 12	Qualifier	RL	0.000098	,		09/28/22 04:30	09/28/22 21:26	
Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	12	Qualifier		RL					1
Analyte Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	12	Qualifier		RL					
Particulate Matter as PM 10 (40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37	12	Qualifier		RL		_			
(40CFR50J PM10) Client Sample ID: GESTSP082 Date Collected: 09/20/22 06:37			0.29		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Date Collected: 09/20/22 06:37	222-2			0.29	ug/m3			09/22/22 14:30	1
Date Collected: 09/20/22 06:37		30				1	ah Sample	D: 320-92	270-6
		00					ub oumpic		rix: Air
Date Received: 09/21/22 09:35								Wat	11 <b>.</b> . All
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 1 40CFR50 App B)	5.3662		0.3037	0.3037	ug/m3 (Air)			09/22/22 14:30	1
Client Sample ID: GESPM0822	22-23	51				L	ab Sample	D: 320-92	
Date Collected: 09/20/22 06:26								Mat	rix: Air
Date Received: 09/21/22 09:35									
Sample Container: Folder/Filter									
Method: SW846 6020 - Metals (ICP/	MS)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead 0	.00099		0.00069	0.00010	ug/m3 (Air)		09/28/22 04:30	09/28/22 21:29	1
Copper	0.021		0.0014	0.00010	ug/m3 (Air)		09/28/22 04:30	09/28/22 21:29	1
Manganese	0.0017		0.00069	0.000097	ug/m3 (Air)		09/28/22 04:30	09/28/22 21:29	1
Conoral Chemistry									
General Chemistry Analyte	Recult	Qualifier	RL	ы	Unit	D	Prepared	Analyzod	Dil Fac
Particulate Matter as PM 10	Result 11	Quaimer	0.29		ug/m3		Fiepaleu	Analyzed 09/22/22 14:30	
(40CFR50J PM10)			0.23	0.23	agino			JUILLILL 14.00	'
Client Sample ID: GESTSP082	222-2	31				1	ab Sample	D: 320-92	270-8
Date Collected: 09/20/22 06:26									rix: Air
Date Received: 09/21/22 09:35								inat	
Sample Container: Folder/Filter									
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 1 40CFR50 App B)	5.6505	_	0.2898	0.2898	ug/m3 (Air)		_	09/22/22 14:30	1

**Client Sample Results** 

RL

0.0012

0.0024

0.0012

Spike

Added

0.240

0.240

0.240

MDL Unit

0.00018 ug/m3 (Air)

0.00018 ug/m3 (Air)

0.00017 ug/m3 (Air)

LCS LCS

0.251

0.236

0.244

Result Qualifier Unit

MB MB

ND

ND

ND

**Result Qualifier** 

Lab Sample ID: MB 320-620635/1-B

Lab Sample ID: LCS 320-620635/2-B

Analysis Batch: 621022

Analysis Batch: 621022

Matrix: Air

Analyte

Lead

Copper

Analyte

Copper

Manganese

Lead

Manganese

Matrix: Air

			Job ID: 320-9	2270-1	
	Clie	ent Sam	ple ID: Method Prep Type: Te	otal/NA	
			Prep Batch:	620640	5
0	) Р	repared	Analyzed	Dil Fac	
ir) –	09/2	8/22 04:3	0 09/28/22 21:04	1	
ir)	09/2	8/22 04:3	0 09/28/22 21:04	1	
ir)	09/2	8/22 04:3	0 09/28/22 21:04	1	7
Clier	nt Sai	mple ID	: Lab Control S Prep Type: To		8
			Prep Batch: %Rec	620640	9
nit	D	%Rec	Limits		
/m3 (Ai	ir) —	105	86 - 111		
/m3 (Ai	ir)	98	85 - 110		
/m3 (Ai	ir)	102	88 - 110		

### Lab Sample ID: LCSD 320-620635/3-B Matrix: Air Analysis Batch: 621022

Analysis Batch: 621022							Prep Ba	tch: 62	20640
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.248		ug/m3 (Air)	_	103	86 - 111	1	15
Copper	0.240	0.231		ug/m3 (Air)		96	85 - 110	2	15
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110	2	15

### **Client Sample ID: Meth** Prep Type: **Prep Batch**

Prep Type: Total/NA

**Eurofins Sacramento** 

ug/m3 (Air)

ug/m3 (Air)

ug/m3 (Air)

10/11/2022 (Rev. 1)

## **QC Association Summary**

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 3 4 5

Metals	
Pre Prep	Batch: 620635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92270-1	GESPM082222-228	Total/NA	Air	Filter to Air	
320-92270-3	GESPM082222-229	Total/NA	Air	Filter to Air	
320-92270-5	GESPM082222-230	Total/NA	Air	Filter to Air	
320-92270-7	GESPM082222-231	Total/NA	Air	Filter to Air	
MB 320-620635/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-620635/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-620635/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 620640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92270-1	GESPM082222-228	Total/NA	Air	3050B	620635
320-92270-3	GESPM082222-229	Total/NA	Air	3050B	620635
320-92270-5	GESPM082222-230	Total/NA	Air	3050B	620635
320-92270-7	GESPM082222-231	Total/NA	Air	3050B	620635
MB 320-620635/1-B	Method Blank	Total/NA	Air	3050B	620635
LCS 320-620635/2-B	Lab Control Sample	Total/NA	Air	3050B	620635
LCSD 320-620635/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	620635

### Analysis Batch: 621022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92270-1	GESPM082222-228	Total/NA	Air	6020	620640
320-92270-3	GESPM082222-229	Total/NA	Air	6020	620640
320-92270-5	GESPM082222-230	Total/NA	Air	6020	620640
320-92270-7	GESPM082222-231	Total/NA	Air	6020	620640
MB 320-620635/1-B	Method Blank	Total/NA	Air	6020	620640
LCS 320-620635/2-B	Lab Control Sample	Total/NA	Air	6020	620640
LCSD 320-620635/3-B	Lab Control Sample Dup	Total/NA	Air	6020	620640

### **General Chemistry**

### Pre Prep Batch: 620653

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92270-2	GESTSP082222-228	Total/NA	Air	Filter to Air	
320-92270-4	GESTSP082222-229	Total/NA	Air	Filter to Air	
320-92270-6	GESTSP082222-230	Total/NA	Air	Filter to Air	
320-92270-8	GESTSP082222-231	Total/NA	Air	Filter to Air	

### Analysis Batch: 620919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92270-1	GESPM082222-228	Total/NA	Air	PM10	
320-92270-3	GESPM082222-229	Total/NA	Air	PM10	
320-92270-5	GESPM082222-230	Total/NA	Air	PM10	
320-92270-7	GESPM082222-231	Total/NA	Air	PM10	

### Analysis Batch: 620920

Lab Sample II 320-92270-2	D Client Sample ID GESTSP082222-228	Prep Type Total/NA	Air	Method 40CFR50 App B	Prep Batch 620653
320-92270-4	GESTSP082222-229	Total/NA	Air	40CFR50 App B	620653
320-92270-6	GESTSP082222-230	Total/NA	Air	40CFR50 App B	620653
320-92270-8	GESTSP082222-231	Total/NA	Air	40CFR50 App B	620653

Job ID: 320-92270-1

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-92270-1

## Project/Site: Hunters Point, Parcel E, Phase 2 Client Sample ID: GESPM082222-228

<b>Date Collected:</b>	09/15/22 14:40
<b>Date Received:</b>	09/21/22 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					620635	09/28/22 04:00		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	620640	09/28/22 04:30		EET SAC
Total/NA	Analysis	6020		1			621022	09/28/22 21:13		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0167 g	620919	09/22/22 14:30		EET SAC

### Client Sample ID: GESTSP082222-228 Date Collected: 09/15/22 14:40 Date Received: 09/21/22 09:35

<b>Prep Type</b> Total/NA Total/NA	Batch Type Analysis Pre Prep	Batch Method 40CFR50 App B Filter to Air	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 620920 620653	Prepared or Analyzed 09/22/22 14:30 09/28/22 09:02		Lab EET SAC EET SAC	
--	---------------------------------------	---	-----	---------------	-------------------	-----------------	-------------------------------------	---	--	---------------------------	--

### Client Sample ID: GESPM082222-229 Date Collected: 09/15/22 14:30 Date Received: 09/21/22 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					620635	09/28/22 04:00		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	620640	09/28/22 04:30		EET SAC
Total/NA	Analysis	6020		1			621022	09/28/22 21:23		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0109 g	620919	09/22/22 14:30		EET SAC

### Client Sample ID: GESTSP082222-229 Date Collected: 09/15/22 14:30 Date Received: 09/21/22 09:35

_	Batch	Batch		Dil Initial		Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			620920	09/22/22 14:30		EET SAC
Total/NA	Pre Prep	Filter to Air					620653	09/28/22 09:02		EET SAC

### Client Sample ID: GESPM082222-230 Date Collected: 09/20/22 06:37 Date Received: 09/21/22 09:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					620635	09/28/22 04:00		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	620640	09/28/22 04:30		EET SAC
Total/NA	Analysis	6020		1			621022	09/28/22 21:26		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0207 g	620919	09/22/22 14:30		EET SAC

**Eurofins Sacramento** 

## Lab Sample ID: 320-92270-4

Lab Sample ID: 320-92270-5

Lab Sample ID: 320-92270-3

Matrix: Air

Matrix: Air

### Client Sample ID: GESTSP082222-230 Date Collected: 09/20/22 06:37 Date Received: 09/21/22 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			620920	09/22/22 14:30		EET SAC
Total/NA	Pre Prep	Filter to Air					620653	09/28/22 09:02		EET SAC

Lab Chronicle

### Client Sample ID: GESPM082222-231 Date Collected: 09/20/22 06:26 Date Received: 09/21/22 09:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					620635	09/28/22 04:00		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	620640	09/28/22 04:30		EET SAC
Total/NA	Analysis	6020		1			621022	09/28/22 21:29		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0190 g	620919	09/22/22 14:30		EET SAC

### Client Sample ID: GESTSP082222-231 Date Collected: 09/20/22 06:26 Date Received: 09/21/22 09:35

—	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			620920	09/22/22 14:30		EET SAC
Total/NA	Pre Prep	Filter to Air					620653	09/28/22 09:02		EET SAC

### Laboratory References:

EET 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

### 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		

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

·1	
_	
	5
	8
	9
	11
	13

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

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:

EET 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: 320-92270-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92270-1	GESPM082222-228	Air	09/15/22 14:40	09/21/22 09:35
320-92270-2	GESTSP082222-228	Air	09/15/22 14:40	09/21/22 09:35
320-92270-3	GESPM082222-229	Air	09/15/22 14:30	09/21/22 09:35
320-92270-4	GESTSP082222-229	Air	09/15/22 14:30	09/21/22 09:35
320-92270-5	GESPM082222-230	Air	09/20/22 06:37	09/21/22 09:35
320-92270-6	GESTSP082222-230	Air	09/20/22 06:37	09/21/22 09:35
320-92270-7	GESPM082222-231	Air	09/20/22 06:26	09/21/22 09:35
320-92270-8	GESTSP082222-231	Air	09/20/22 06:26	09/21/22 09:35

### CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road. Suite 1050, Concord, CA 94520

COC # KT092022AIRE



Pro	roject Name: Hunters Point Shipyard, Parcel E RA Phase 2					Lal	borat	tory:	FUR	ROFI	INS E	ENVI	RON	MEN	IT TESTING NORTHERN C	ALIFORN	IA, LLC	(EETN	Event:	Parcel E Phase 2 Air
Pro	ject Number: J310000400					PO	C												Monito	ring
WE	S Code: J310000400-016				_	Sh	ip to:	: 880	0 Riv	ersid	de Pa	arkwa	iy, W	est S	Sacramento, CA 95605				1	
	mments: uipment:				Analvtical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu							Code     Matrix       A     Air       Code     Container/Preservative       1     1x Envelope, None					
	Event: Parcel E Phase 2 A	ir Monitorin	g			1	1	1								usiouy	_			
	Sample ID	Matrix	Date	Time	Samp Init.										Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM082222-228	A	09/19/2022	1440		X		X	$\square$					Τ	AMSE1	N2	0.00	0.00	1	VOLUME: 541.43 (M3)
2	GESTSP082222-228	Α	09/19/2022	1440	T		X		$\square$						AMSE1	N2	0.00	0.00	1	VOLUME: 519.82 (M3)
3	GESPM082222-229	А	09/19/2022	1430		X		X							AMSE2	N2	0.00	0.00	1	VOLUME: 581.44 (M3)
4	GESTSP082222-229	Α	09/19/2022	1430			X						,		AMSE2	N2	0.00	0.00	1	VOLUME: 579.04 (M3)
5	GESPM082222-230	A	09/20/2022	0637		X		X				X	V		AMSE1	N1	0.00	0.00	1	VOLUME: 1712.54 (M3)
6	GESTSP082222-230	A	09/20/2022	0637			X					¥.	15		AMSE1	N1	0.00	0.00	1	VOLUME: 1646.47 (M3)
7	GESPM082222-231	A	09/20/2022	0626		X		X				T	F		AMSE2	N1	0.00	0.00	1	VOLUME: 1733.88 (M3)
8	GESTSP082222-231	A	09/20/2022	0626			X						$\mathbf{}$	K	AMSE2	N1	0.00	0.00	1	VOLUME: 1725.19 (M3)
9													41	2	Las					
10													110	90,	122					
Tur	maround Time: 5 days																		·	
De	linguished by: (Signature)		Date	Time	Bassiva		(0)		4					1	Data Time					

 Relinquished by: (Signature)
 Date
 Time
 Received by: (Signature)
 Date
 Time
 Shipping Date / Carrier / Airbill Number

 9/20/2022/FedEx 7779 5909 4250
 9/20/2022/FedEx 7779 5909 4250
 Shipping Date: 9/20/2022/FedEx 7779 5909 4250
 Shipping Date: 9/20/2022/FedEx 7779 5909 4250

 9/20/202
 7-21-µ2
 04-31
 Received by Laboratory: (Signature, Date, Time) & condition

13

GES.Navy\_COC\_Field September 20, 2022

Page 1 of 1

19.62

	ject Name: Hunters Point	Shipyard,	Parcel E RA PI	nase 2		Lat	oora	tory:	EUF		BENV	IRON	MEN	T TESTING N	ORTHERN	CALIFORNI	A. LLC	(EETN	Event: F	Parcel E Phase 2 Air
Pro	ject Number: J310000400			1000		Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN POC:										Monitor				
WB	S Code: J310000400-016					Ship to: 880 Riverside Parkway, West Sacramento, CA 95605														
Cor	mments:			_	1	Г	-	1		-	TI	T	1	Code M	atrix				1	
	1. Lines 1-4 Date should be 09/15/2	022	1/2022										Т	A A			-			
	1. Lines 1-4 Date should be 09/10/2														ainer/Preservat	va				
							1 1x Envelope, None													
														Print and	en socio digenerari p		_			
								3												
		_		_	Method	0		5						(helpike						
Ēqu	uipment:				est	Air PM10	TSP	Air Pb												
					TIE	Air	Air	1.1												
					Analytical	1.1	0.0	SW6020												
					Ana	CAAIR	N0500	SWIG						320-92	270 Chain d	of Custody				
	Event: Parcel E Phase 2 A	ir Monitori	ng		1.000	1	1	1								sastody	-			
				Same 1	Samp									1	-	Sample	Depth	(ft bgs)	Surgial.	The second s
	Sample ID	Matrix		Time	Init.	_		-	-	_				Loca	tion ID	Туре	Top -	Bottom	Cooler	Comments
1	GESPM082222-228	A	09/19/2022	1440	-	×	_	×	1					AM	ISE1	N2	0.00	0.00	1	VOLUME: 541.43 (M3
2	GESTSP082222-228	A	09/19/2022	1440	-	-	X		1	-		-	-		ISE1	N2	0.00	0.00	1	VOLUME: 519.82 (M3
		A	09/19/2022	1430	-	x	_	×		7		-	-		ISE2	N2	0.00	0.00	1	VOLUME: 581.44 (M3
3	GESPM082222-229		09/19/2022	1430		1.1	X	1.1.1				1	-		ISE2	N2	0.00	0.00	1	VOLUME: 579.04 (M3
4	GESTSP082222-229	A		and the second s	_			_		and the second se	-21-			A.	ISE1	614	0.00	0.00	1	VOLUME: 1712.54 (M
	GESTSP082222-229 GESPM082222-230	A	09/20/2022	0637		×		×			Ň	1	-	and the subscription of th	No lot and in the	N1	- 1977			the second se
4 5 6	GESTSP082222-229 GESPM082222-230 GESTSP082222-230	A A	09/20/2022 09/20/2022	0637 0637			x				R	Z.		AN	ISE1	N1	0.00	0.00	1	VOLUME: 1646.47 (M
4	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231	A A A	09/20/2022	0637		×		× ×			X	×		AN AN	ISE1 ISE2		-	Contraction of the local division of the loc	-	VOLUME: 1646.47 (M:
4 5 6 7 8	GESTSP082222-229 GESPM082222-230 GESTSP082222-230	A A	09/20/2022 09/20/2022	0637 0637			x				X			AN AN	ISE1	N1	0.00	0.00	1	VOLUME: 1646.47 (M3 VOLUME: 1733.88 (M3
4 5 6 7 8 9	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231	A A A	09/20/2022 09/20/2022 09/20/2022	0637 0637 0626											ISE1 ISE2	N1 N1	0.00 0.00	0.00	1	VOLUME: 1646,47 (M3 VOLUME: 1733.88 (M3 VOLUME: 1725.19 (M3
4 5 6 7 8 9 10	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231 GESTSP082222-231	A A A	09/20/2022 09/20/2022 09/20/2022	0637 0637 0626									100	AN AN AN	ISE1 ISE2	N1 N1	0.00 0.00	0.00	1	VOLUME: 1646,47 (M VOLUME: 1733.88 (M
4 5 7 8 9 10	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231	A A A	09/20/2022 09/20/2022 09/20/2022	0637 0637 0626									100		ISE1 ISE2	N1 N1	0.00 0.00	0.00	1	VOLUME: 1646,47 (M VOLUME: 1733.88 (M
4 5 6 7 8 9 10 Fur	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231 GESTSP082222-231	A A A	09/20/2022 09/20/2022 09/20/2022	0637 0637 0626 0626	Receive	×	×	×	ture			1	10,	AN AN AN 222	1SE1 1SE2 1SE2	N1 N1 N1	0.00	0.00	1	VOLUME: 1646.47 (M. VOLUME: 1733.88 (M VOLUME: 1725.19 (M
4 5 6 7 8 9 10 Tur	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231 GESTSP082222-231	AAAA	09/20/2022 09/20/2022 09/20/2022 09/20/2022	0637 0637 0626 0626 Time	Receive	×	×	X	Λ	_		*	1 ' T	AM AM AM Date	ISE1 ISE2 ISE2 Time	N1 N1 N1 Shipping D	0.00 0.00 0.00	0.00 0.00 0.00	1 1	VOLUME: 1646.47 (M: VOLUME: 1733.88 (M: VOLUME: 1725.19 (M:
4 5 6 7 8 9 10 Tur	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231 GESTSP082222-231	AAAA	09/20/2022 09/20/2022 09/20/2022 09/20/2022	0637 0637 0626 0626	Receive	×	×	X	Λ				1 ' T	AN AN AN 222	1SE1 1SE2 1SE2	N1 N1 N1 Shipping D	0.00 0.00 0.00	0.00 0.00 0.00	1 1	VOLUME: 1646.47 (M VOLUME: 1733.88 (M VOLUME: 1725.19 (M
4 5 6 7 8 9 10 Tur	GESTSP082222-229 GESPM082222-230 GESTSP082222-230 GESPM082222-231 GESTSP082222-231	AAAA	09/20/2022 09/20/2022 09/20/2022 09/20/2022	0637 0637 0626 0626 Time	Receive	×	×	X	Λ	_		1	9,	AM AM AM Date	1SE1 1SE2 1SE2 Time 1430	N1 N1 Shipping D Shipping Da	0.00 0.00 0.00 ate / Ca	0.00 0.00 0.00	1 1 1 sirbill Nu	VOLUME: 1646.47 (M VOLUME: 1733.88 (M VOLUME: 1725.19 (M

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19.62

### Login Sample Receipt Checklist

### Client: GES-AIS, LLC

### Login Number: 92270 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

Job Number: 320-92270-1

List Source: Eurofins Sacramento

# 🔅 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

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

### Laboratory Job ID: 320-92393-1

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

### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

### Attn:

LINKS

Review your project results through

EOL

Have a Question?

Ask-

The

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Expert

Authorized for release by: 9/30/2022 6:07:22 PM

, Project Manager I

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: 320-92393-1

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

### Job ID: 320-92393-1

### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92393-1

**Case Narrative** 

### Comments

No additional comments.

### Receipt

The samples were received on 9/23/2022 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 18.7° C.

#### 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

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	32				Lan Sa	mple ID: 32	7-92393-
Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
0.0015		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
0.053		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
0.0047		0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
13		0.29	0.29	ug/m3	1	PM10	Total/NA
P082222-2	32				Lab Sa	mple ID: 32	0-92393-
Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
17.0084		0.3016	0.3016	ug/m3 (Air)	1	40CFR50 App B	Total/NA
1082222-23	33				Lab Sa	mple ID: 320	0 <b>-9239</b> 3
Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Туре
0.00084		0.00068	0.00010	ug/m3 (Air)	1	6020	Total/NA
0.028		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
0.0028		0.00068	0.000095	ug/m3 (Air)	1	6020	Total/NA
12		0.28	0.28	ug/m3	1	PM10	Total/NA
P082222-2	33				Lab Sa	mple ID: 320	0-92393
Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
19.5112		0.2836	0.2836	ug/m3 (Air)	<u> </u>	40CFR50 App B	Total/NA
1082222-23	34				Lab Sa	mple ID: 320	0-92393
Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
0.0019		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
0.016		0.0014		• • •	1	6020	Total/NA
0.0053		0.00069	0.000097	ug/m3 (Air)	1	6020	Total/NA
16		0.29	0.29	ug/m3	1	PM10	Total/NA
P082222-2	34				Lab Sa	mple ID: 32	0-92393
Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
21.2196		0.3014	0.3014	ug/m3 (Air)	1	40CFR50 App B	Total/NA
1090622-25	53				Lab Sa	mple ID: 320	0-92393
Result	Qualifier	RL			Dil Fac D	Method	Prep Type
0.00076		0.00067		,	1	6020	Total/NA
0.021		0.0013		ug/m3 (Air)	1	6020	Total/NA
		0.00067	0.000094	ug/m3 (Air)	1	6020	Total/NA
0.0024		0.00007					TOtal/TNA
0.0024 12		0.28		ug/m3	1	PM10	Total/NA
	:53						Total/NA
12 <b>P090622-2</b>	253 Qualifier		0.28			РМ10 mple ID: 320	Total/NA
	0.053 0.0047 13 P082222-2 Result 17.0084 0.0084 0.028 0.0028 12 P082222-23 Result 19.5112 082222-23 Result 0.0019 0.016 0.0053 16 P082222-2 Result 21.2196	0.053 0.0047 13 P082222-232 <u>Result</u> Qualifier 17.0084 082222-233 <u>Result</u> Qualifier 0.00084 0.028 12 P082222-233 <u>Result</u> Qualifier 19.5112 082222-234 <u>Result</u> Qualifier 0.0019 0.016 0.0053 16 P082222-234 <u>Result</u> Qualifier 21.2196 1090622-253 <u>Result</u> Qualifier	0.053         0.0014           0.0047         0.00069           13         0.29           P082222-232         Result Qualifier           Result Qualifier         RL           17.0084         0.3016           1082222-233         Result Qualifier           Result Qualifier         RL           0.00084         0.00068           0.028         0.0014           0.0028         0.00068           12         0.28           P082222-233         Result Qualifier           Result Qualifier         RL           19.5112         0.2836           1082222-234         Result Qualifier           Result Qualifier         RL           0.0019         0.00069           0.0016         0.0014           0.0053         0.00069           16         0.29           P082222-234         Result Qualifier           Result Qualifier         RL           21.2196         0.3014           1090622-253         Result Qualifier	0.053         0.0014         0.0010           0.0047         0.00069         0.00097           13         0.29         0.29           P082222-232         Result Qualifier         RL         RL           17.0084         0.3016         0.3016           1082222-233         Result Qualifier         RL         MDL           0.0084         0.00068         0.00010           0.028         0.0014         0.00010           0.028         0.0014         0.00010           0.028         0.00068         0.00095           12         0.28         0.28           P082222-233         Result Qualifier         RL         RL           19.5112         0.2836         0.2836           1082222-234         0.0019         0.00069         0.0010           0.016         0.0014         0.00010           0.0053         0.00069         0.000097           16         0.29         0.29           P082222-234         Result Qualifier         RL         RL           21.2196         0.3014         0.3014         0.3014           1090622-253         Result Qualifier         RL         MDL	0.053         0.0014         0.0010         ug/m3 (Air)           0.0047         0.00069         0.000097         ug/m3 (Air)           13         0.29         0.29         ug/m3           P082222-232         Result         Qualifier         RL         RL         Unit           17.0084         0.3016         0.3016         0.3016         ug/m3 (Air)           1082222-233         Result         Qualifier         RL         MDL         Unit           0.0028         0.0014         0.00010         ug/m3 (Air)           0.0028         0.0014         0.00010         ug/m3 (Air)           0.0028         0.00068         0.000095         ug/m3 (Air)           0.0028         0.00068         0.00095         ug/m3 (Air)           12         0.28         0.28         ug/m3 (Air)           1082222-233         0.2836         Unit         ug/m3 (Air)           1082222-234         0.0016         ug/m3 (Air)         ug/m3 (Air)           1082222-234         0.29         0.29         ug/m3 (Air)           1082222-234         0.00069         0.00010         ug/m3 (Air)           16         0.29         0.29         ug/m3 (Air)	0.053         0.0014         0.00010         ug/m3 (Air)         1           0.0047         0.00069         0.000097         ug/m3 (Air)         1           13         0.29         0.29         ug/m3 (Air)         1           P082222-232         Lab Sa           Result 17.0084         RL 0.3016         RL 0.3016         Unit 0g/m3 (Air)         Dil Fac D 1           1082222-233         Lab Sa           Result 0.00084         0.00068         0.00010         Unit 0g/m3 (Air)         Dil Fac D 1           1082222-233         Lab Sa           Result 0.00084         0.00068         0.00010         Ug/m3 (Air)         1           12         0.28         0.28         Ug/m3 (Air)         1           12         0.28         Q.28         Ug/m3 (Air)         1           11         0.028         0.00068         0.2836         Unit 0.18         Dil Fac D 1           1082222-233         Lab Sa           Result 19.5112         Qualifier         RL 0.2836         Unit 0.2836         Dil Fac D 1         Dil Fac D 1           1082222-234         Lab Sa         Qualifier         RL 0.29         Unit 0.29/m3 (Air)         Dil Fac D 1         Dil Fac D 1           16<	0.053         0.0014         0.00010         ug/m3 (Air)         1         6020           13         0.29         0.29         ug/m3 (Air)         1         6020           P082222-232         Lab Sample ID: 320           Result 17.0084         RL 0.3016         Unit ug/m3 (Air)         Dil Fac D 40CFR50 App B         Method 40CFR50 App B           1082222-233         Lab Sample ID: 320         Dil Fac D 40CFR50 App B         Method 40CFR50 App B           1082222-233         Result Qualifier 0.00068         RL 0.00068         Unit Ug/m3 (Air)         Dil Fac D 6020         Method 6020           0.0028         0.00068         0.00010         Ug/m3 (Air)         1         6020         2000000           0.0028         0.00068         0.00010         Ug/m3 (Air)         1         6020         200000           19.5112         0.28         0.286         0.280         Unit         Dil Fac D         Method 40CFR50 App B           1082222-233         Lab Sample ID: 320         Lab Sample ID: 320         200000         200000         200000         200000         200000         200000         200000         200000         200000         200000         200000         200000         200000         200000         200000         200000 <th< td=""></th<>

This Detection Summary does not include radiochemical test results.

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Job ID: 320-92393-1 

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Client Sample ID: GESPM08 Date Collected: 09/21/22 06:42 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter	32222-23	32				L	ab Sample.	e ID: 320-92 Mat	2393-1 trix: Air
Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0015		0.00069	0.00010	ug/m3 (Air)		09/30/22 05:10	09/30/22 11:11	1
Copper	0.053		0.0014		ug/m3 (Air)		09/30/22 05:10	09/30/22 11:11	1
Manganese	0.0047		0.00069	0.000097	ug/m3 (Air)		09/30/22 05:10	09/30/22 11:11	1
General Chemistry									
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.29	0.29	ug/m3			09/27/22 14:30	1
Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:42 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter	082222-2	32				L	ab Sample.	e ID: 320-92 Ma	2393-2 trix: Air
General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.0084		0.3016	0.3016	ug/m3 (Air)			09/27/22 14:30	1
Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)								Ma	trix: Air
A									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00084	Qualifier	0.00068	0.00010	ug/m3 (Air)		09/30/22 05:10	09/30/22 11:20	1
Lead Copper	0.00084 0.028	Qualifier	0.00068	0.00010 0.00010	ug/m3 (Air) ug/m3 (Air)	_ <u>D</u>	09/30/22 05:10 09/30/22 05:10	09/30/22 11:20 09/30/22 11:20	1
Lead	0.00084	Qualifier	0.00068	0.00010 0.00010	ug/m3 (Air)	<u>D</u>	09/30/22 05:10 09/30/22 05:10	09/30/22 11:20	1
Lead Copper Manganese General Chemistry	0.00084 0.028 0.0028	<u> </u>	0.00068 0.0014 0.00068	0.00010 0.00010 0.000095	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20	1 1 1
Lead Copper Manganese General Chemistry Analyte	0.00084 0.028 0.0028 Result	Qualifier Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.00010 0.000095 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) <b>Unit</b>	_ <u>D</u>	09/30/22 05:10 09/30/22 05:10	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 Analyzed	1 1 1
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10	0.00084 0.028 0.0028 Result	Qualifier	0.00068 0.0014 0.00068	0.00010 0.00010 0.000095 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 <b>Prepared</b>	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30	1 1 1 <b>Dil Fac</b> 1
Lead Copper Manganese General Chemistry Analyte	0.00084 0.028 0.0028 Result	Qualifier	0.00068 0.0014 0.00068 RL	0.00010 0.00010 0.000095 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) <b>Unit</b>		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 <b>Prepared</b>	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>ID: 320-92</b>	1 1 1 <b>Dil Fac</b> 1
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry	0.00084 0.028 0.0028 Result 12 082222-2	Qualifier	0.00068 0.0014 0.00068 <b>RL</b> 0.28	0.00010 0.000095 <b>RL</b> 0.28	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ <u>D</u>	09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 Prepared	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>iD: 320-92</b> Mat	1 1 2393-4 trix: Air
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry Analyte	0.00084 0.028 0.0028 Result 12 082222-2 Result	Qualifier	0.00068 0.0014 0.00068 RL 0.28	0.00010 0.000095 RL 0.28	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 <b>Prepared</b>	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>iD: 320-92</b> Mat	1 1 2393-4 trix: Air
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10	0.00084 0.028 0.0028 Result 12 082222-2 Result 19.5112	Qualifier 33 Qualifier	0.00068 0.0014 0.00068 <b>RL</b> 0.28	0.00010 0.000095 RL 0.28	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 Prepared .ab Sample	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>ID: 320-92</b> Mat 09/27/22 14:30 <b>Analyzed</b> 09/27/22 14:30	1 1 2393-4 trix: Air Dil Fac
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter	0.00084 0.028 0.0028 Result 12 082222-2 Result 19.5112	Qualifier 33 Qualifier	0.00068 0.0014 0.00068 RL 0.28	0.00010 0.000095 RL 0.28	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 Prepared .ab Sample	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>ID: 320-92</b> Mat 09/27/22 14:30 <b>Analyzed</b> 09/27/22 14:30	1 1 2393-4 trix: Air Dil Fac
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	0.00084 0.028 0.0028 Result 12 082222-2 Result 19.5112 32222-23	Qualifier 33 Qualifier 34	0.00068 0.0014 0.00068 RL 0.28	0.00010 0.000095 RL 0.28 0.2836	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3 Unit ug/m3 (Air)		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 Prepared .ab Sample .ab Sample	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>iD: 320-92</b> Mat 09/27/22 14:30 <b>iD: 320-92</b> Mat	1 1 2 2 393-4 trix: Air 1 2 393-5 trix: Air
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.00084 0.028 0.0028 Result 12 082222-2 Result 19.5112 32222-23	Qualifier 33 Qualifier	0.00068 0.0014 0.00068 RL 0.28 0.2836	0.00010 0.000095 RL 0.28 0.2836	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3 (Air) Unit ug/m3 (Air)		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 Prepared .ab Sample .ab Sample .ab Sample	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>iD: 320-92</b> Mat 09/27/22 14:30 <b>iD: 320-92</b> Mat	1 1 2 2 393-4 trix: Air 1 2 393-5 trix: Air
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	0.00084 0.028 0.0028 Result 12 082222-2 082222-2 32222-23 82222-23 82222-23	Qualifier 33 Qualifier 34	0.00068 0.0014 0.00068 RL 0.28	0.00010 0.000095 RL 0.28 0.2836 0.2836 MDL 0.00010	ug/m3 (Air)         ug/m3 (Air)         ug/m3 (Air)         Unit         ug/m3 (Air)		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 Prepared .ab Sample .ab Sample	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>iD: 320-92</b> Mat 09/27/22 14:30 <b>iD: 320-92</b> Mat	1 1 2 2 393-4 trix: Air 1 2 393-5 trix: Air
Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP0 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM08 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.00084 0.028 0.0028 Result 12 082222-2 Result 19.5112 32222-23	Qualifier 33 Qualifier 34	0.00068 0.0014 0.00068 <b>RL</b> 0.28 0.2836 <b>RL</b> 0.2836	0.00010 0.000095 RL 0.28 0.2836 0.2836 MDL 0.00010 0.00010	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3 (Air) Unit ug/m3 (Air)		09/30/22 05:10 09/30/22 05:10 09/30/22 05:10 Prepared .ab Sample .ab Sample .ab Sample	09/30/22 11:20 09/30/22 11:20 09/30/22 11:20 <b>Analyzed</b> 09/27/22 14:30 <b>iD: 320-92</b> Mat 09/27/22 14:30 <b>iD: 320-92</b> Mat	1 1 2 2 393-4 trix: Air Dil Fac

Job ID: 320-92393-1

## Client: GES-AIS, LLC

# **Client Sample Results**

## **Client Sample Results**

Client: GES-AIS, LLC

Job ID: 320-92393-1

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Project/Site: Hunters Point, Parcel E	E, Phase 2	2						000 12:020	2000 1
Client Sample ID: GESPM08 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter	2222-23	34				L	ab Sample.	e ID: 320-92 Mat	2393-5 trix: Air
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			09/27/22 14:30	1
Client Sample ID: GESTSP0 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter	82222-2	234				L	ab Sample.	e ID: 320-92 Mat	2393-6 trix: Air
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.2196		0.3014		ug/m3 (Air)			09/27/22 14:30	1
Date Received: 09/23/22 09:10 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00076		0.00067	0.00010	ug/m3 (Air)		09/30/22 05:10	09/30/22 11:27	1
Copper	0.021		0.0013	0.00010	ug/m3 (Air)		09/30/22 05:10	09/30/22 11:27	1
Manganese	0.0024		0.00067	0.000094	ug/m3 (Air)		09/30/22 05:10	09/30/22 11:27	1
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.28	0.28	ug/m3			09/27/22 14:30	1
Client Sample ID: GESTSP0 Date Collected: 09/22/22 06:36 Date Received: 09/23/22 09:10 Sample Container: Folder/Filter	90622-2	253				L	ab Sample.	e ID: 320-92 Mat	2393-8 trix: Air
General Chemistry	<b>D</b>	0	<b>_</b> .		11.24	_	<b>D</b>	• • · - • •	D'I E
Analyte		Qualifier	RL			D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.9743		0.2815	0.2815	ug/m3 (Air)			09/27/22 14:30	1

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

#### Lab Sample ID: MB 320-621206/1-B **Client Sample ID: Method Blank** Matrix: Air Prep Type: Total/NA Analysis Batch: 621365 Prep Batch: 621219 MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac D 0.00018 ug/m3 (Air) 09/30/22 05:10 09/30/22 10:35 Lead ND 0.0012 1 Copper ND 0.0024 0.00018 ug/m3 (Air) 09/30/22 05:10 09/30/22 10:35 1 ND 0.0012 0.00017 ug/m3 (Air) 09/30/22 05:10 09/30/22 10:35 Manganese 1 Lab Sample ID: LCS 320-621206/2-B **Client Sample ID: Lab Control Sample** Matrix: Air Prep Type: Total/NA Analysis Batch: 621365 Prep Batch: 621219 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.230 ug/m3 (Air) 96 86 - 111 0.240 0.229 ug/m3 (Air) 95 85 - 110 Copper

0.236

### Lab Sample ID: LCSD 320-621206/3-B Matrix: Air Analysis Batch: 621365

Manganese

Analysis Batch: 621365							Prep Batch: 621219		
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.232		ug/m3 (Air)	_	97	86 - 111	1	15
Copper	0.240	0.231		ug/m3 (Air)		96	85 - 110	1	15
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110	2	15

0.240

Job ID: 320-92393-1

## **Client Sample ID: Lab Control Sample Dup**

88 - 110

Prep Type: Total/NA

98

Spike	LCSD	LCSD				Prep Ba %Rec	ito
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.240	0.232		ug/m3 (Air)	_	97	86 - 111	
0.240	0.231		ug/m3 (Air)		96	85 - 110	
0 240	0 240		ua/m3 (Air)		100	88 110	

ug/m3 (Air)

## **QC Association Summary**

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 3 4 5

## **Metals**

### Pre Prep Batch: 621206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92393-1	GESPM082222-232	Total/NA	Air	Filter to Air	
320-92393-3	GESPM082222-233	Total/NA	Air	Filter to Air	
320-92393-5	GESPM082222-234	Total/NA	Air	Filter to Air	
320-92393-7	GESPM090622-253	Total/NA	Air	Filter to Air	
MB 320-621206/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-621206/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-621206/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

### Prep Batch: 621219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92393-1	GESPM082222-232	Total/NA	Air	3050B	621206
320-92393-3	GESPM082222-233	Total/NA	Air	3050B	621206
320-92393-5	GESPM082222-234	Total/NA	Air	3050B	621206
320-92393-7	GESPM090622-253	Total/NA	Air	3050B	621206
MB 320-621206/1-B	Method Blank	Total/NA	Air	3050B	621206
LCS 320-621206/2-B	Lab Control Sample	Total/NA	Air	3050B	621206
LCSD 320-621206/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	621206

### Analysis Batch: 621365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92393-1	GESPM082222-232	Total/NA	Air	6020	621219
320-92393-3	GESPM082222-233	Total/NA	Air	6020	621219
320-92393-5	GESPM082222-234	Total/NA	Air	6020	621219
320-92393-7	GESPM090622-253	Total/NA	Air	6020	621219
MB 320-621206/1-B	Method Blank	Total/NA	Air	6020	621219
LCS 320-621206/2-B	Lab Control Sample	Total/NA	Air	6020	621219
LCSD 320-621206/3-B	Lab Control Sample Dup	Total/NA	Air	6020	621219

### **General Chemistry**

### Pre Prep Batch: 620657

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92393-2	GESTSP082222-232	Total/NA	Air	Filter to Air	
320-92393-4	GESTSP082222-233	Total/NA	Air	Filter to Air	
320-92393-6	GESTSP082222-234	Total/NA	Air	Filter to Air	
320-92393-8	GESTSP090622-253	Total/NA	Air	Filter to Air	

### Analysis Batch: 621389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92393-2	GESTSP082222-232	Total/NA	Air	40CFR50 App B	620657
320-92393-4	GESTSP082222-233	Total/NA	Air	40CFR50 App B	620657
320-92393-6	GESTSP082222-234	Total/NA	Air	40CFR50 App B	620657
320-92393-8	GESTSP090622-253	Total/NA	Air	40CFR50 App B	620657

### Analysis Batch: 621394

Lab Sample ID 320-92393-1	Client Sample ID GESPM082222-232	Total/NA	Matrix Air	Method PM10	Prep Batch
320-92393-3	GESPM082222-233	Total/NA	Air	PM10	
320-92393-5	GESPM082222-234	Total/NA	Air	PM10	
320-92393-7	GESPM090622-253	Total/NA	Air	PM10	

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

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Batch

Type

Analysis

Pre Prep

Client Sample ID: GESTSP082222-232

Job ID: 320-92393-1

Matrix: Air

EET SAC

EET SAC

EET SAC

EET SAC

Lab

Lab Sample ID: 320-92393-1

Analyst

Lab Sample ID: 320-92393-2

Lab Sample ID: 320-92393-3

Lab Sample ID: 320-92393-4

Lab Sample ID: 320-92393-5

Prepared

or Analyzed

09/30/22 03:59

09/30/22 05:10

09/30/22 11:11

09/27/22 14:30

## 2 3 4 5 6 7 8 9

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Batch Number	Prepared or Analyzed	Analyst	Lab
621389	09/27/22 14:30		EET SAC
620657	09/28/22 09:19		EET SAC

### Client Sample ID: GESPM082222-233 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					621206	09/30/22 03:59		EET SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	621219	09/30/22 05:10		EET SAC
Total/NA	Analysis	6020		1			621365	09/30/22 11:20		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0209 g	621394	09/27/22 14:30		EET SAC

### Client Sample ID: GESTSP082222-233 Date Collected: 09/21/22 06:27 Date Received: 09/23/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analvzed	Analvst	Lab
Total/NA	Analysis	40CFR50 App B		1	Amount	Amount	621389	09/27/22 14:30		EET SAC
Total/NA	Pre Prep	Filter to Air					620657	09/28/22 09:19		EET SAC

### Client Sample ID: GESPM082222-234 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 09:10

—	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					621206	09/30/22 03:59		EET SAC
Total/NA	Prep	3050B			0.083333	100 mL	621219	09/30/22 05:10		EET SAC
					Sample					
Total/NA	Analysis	6020		1			621365	09/30/22 11:24		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0270 g	621394	09/27/22 14:30		EET SAC

**Eurofins Sacramento** 

Initial

Amount

0.083333 Sample

0 g

Initial

Amount

Batch

Number

621206

621219

621365

621394

Final

Amount

100 mL

0.0229 g

Final

Amount

Dil

1

1

Dil

1

Factor

Factor

Run

Run

## Client Sample ID: GESPM082222-232 Date Collected: 09/21/22 06:42

Batch

3050B

6020

**PM10** 

Batch

Method

Filter to Air

40CFR50 App B

Method

Filter to Air

Date Received: 09/23/22 09:10

Date Collected: 09/21/22 06:42

Date Received: 09/23/22 09:10

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Page	10	of	16	
i ugo		<b>U</b> 1		

Job ID: 320-92393-1

### Client Sample ID: GESTSP082222-234 Date Collected: 09/22/22 06:45 Date Received: 09/23/22 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			621389	09/27/22 14:30		EET SAC
Ľ	Total/NA	Pre Prep	Filter to Air					620657	09/28/22 09:19		EET SAC

### Client Sample ID: GESPM090622-253 Date Collected: 09/22/22 06:36 Date Received: 09/23/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					621206	09/30/22 03:59		EET SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	621219	09/30/22 05:10		EET SAC
Total/NA	Analysis	6020		1			621365	09/30/22 11:27		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0216 g	621394	09/27/22 14:30		EET SAC

### Client Sample ID: GESTSP090622-253 Date Collected: 09/22/22 06:36 Date Received: 09/23/22 09:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			621389	09/27/22 14:30		EET SAC
Total/NA	Pre Prep	Filter to Air					620657	09/28/22 09:19		EET SAC

### Laboratory References:

EET 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

### 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

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

1	
_	
_	
	5
	8
	9
	11

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

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:

EET 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: 320-92393-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92393-1	GESPM082222-232	Air	09/21/22 06:42	09/23/22 09:10
320-92393-2	GESTSP082222-232	Air	09/21/22 06:42	09/23/22 09:10
320-92393-3	GESPM082222-233	Air	09/21/22 06:27	09/23/22 09:10
320-92393-4	GESTSP082222-233	Air	09/21/22 06:27	09/23/22 09:10
320-92393-5	GESPM082222-234	Air	09/22/22 06:45	09/23/22 09:10
320-92393-6	GESTSP082222-234	Air	09/22/22 06:45	09/23/22 09:10
320-92393-7	GESPM090622-253	Air	09/22/22 06:36	09/23/22 09:10
320-92393-8	GESTSP090622-253	Air	09/22/22 06:36	09/23/22 09:10

### **CHAIN-OF-CUSTODY** RECORD

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

### COC # KT092222AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN							Event: Parcel E Phase 2 Air												
Project Number: J310000400					POC:										Monitoring				
WBS Code: J310000400-016					Ship	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605										1			
Comments:			Analytical Test Method	Air PM10 Air TSP Air Dh Mn Cu	0 - Air Pb Mn Cu						Code       Matrix         A       Air         Code       Container/Preservative         1       1x Envelope, None         320-92393 Chain of Custody			ustody					
	Event: Parcel E Phase 2 Air M	/Ionitorin	g			1	1	1				$\square$							
	Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM082222-232	A	09/21/2022	0642		X		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1729.41 (M3)
2	GESTSP082222-232	A	09/21/2022	0642			Х							AMSE1	N1	0.00	0.00	1	VOLUME: 1658.00 (M3)
3	GESPM082222-233	A	09/21/2022	0627		X		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1764.01 (M3)
4	GESTSP082222-233	Α	09/21/2022	0627			х	T						AMSE2	N1	0.00	0.00	1	VOLUME: 1763.09 (M3)
5	GESPM082222-234	A	09/22/2022	0645		X		Х						AMSE1	N1	0.00	0.00	1	VOLUME: 1731.49 (M3)
6	GESTSP082222-234	A	09/22/2022	0645			Х							AMSE1	N1	0.00	0.00	1	VOLUME: 1658.84 (M3)
7	GESPM090622-253	A	09/22/2022	0636		X		X					T	AMSE2	N1	0.00	0.00	1	VOLUME: 1794.77 (M3)
8	GESTSP090622-253	A	09/22/2022	0636			Х					,		AMSE2	N1	0.00	0.00	1	VOLUME: 1776.09 (M3)
9										LW	XV/								
10										1									
Tur	around Time: 5 days																		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number				
	9/22/22	1600	FEDEX	9/22/22	1600	Shipping Date: 9/22/2022 / FedEx 7779 9765 2755				
				9.23 x	0910					
						Received by Laboratory: (Signature, Date, Time) & condition				

13

Page 1 of 1

18.72

#### Login Sample Receipt Checklist

#### Client: GES-AIS, LLC

#### Login Number: 92393 List Number: 1

Creator:

pactivity wasn't checked or is = background as measured by a survey<br/ r.Truecooler's custody seal, if present, is intact.Trueble custody seals, if present, are intact.N/Acooler or samples do not appear to have been compromised or ered with.Truebles were received on ice.Falseer Temperature is acceptable.Trueer Temperature is recorded.Trueis present.Trueis filled out in ink and legible.Truee reled Sampler's name present on COC?Truee are no discrepancies between the containers received and the COC.Truecole containers have legible labels.Trueainers are not broken or leaking.Truecole collection date/times are provided.Truecole bottles are completely filled.Truecole containers have legible labels.Trueainers requiring zero headspace have no headspace or bubble isTruecole ordiners requiring zero headspace have no headspace or bubble isTrue	
ble custody seals, if present, are intact.N/Acooler or samples do not appear to have been compromised or ered with.Truebles were received on ice.Falseer Temperature is acceptable.Trueer Temperature is recorded.Trueis present.Trueis filled out in ink and legible.Trueis filled out with all pertinent information.Truee Field Sampler's name present on COC?Truee are no discrepancies between the containers received and the COC.Trueble containers have legible labels.Trueainers are not broken or leaking.Trueble collection date/times are provided.Trueoperate sample containers are used.Trueble bottles are completely filled.Trueble bottles are completely filled.Trueble bottles are completely filled.N/Acole preservation Verified.N/Ae is sufficient vol. for all requested analyses, incl. any requestedTruefibrie received within zero headspace have no headspace or bubble isTrue	
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11 ( 117 <i>)</i> .	
phasic samples are not present. True	
bles do not require splitting or compositing. True	
dual Chlorine Checked. N/A	

Job Number: 320-92393-1

List Source: Eurofins Sacramento

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## Environment Testing America

## **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 320-92540-1

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

#### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

#### Attn:

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Authorized for release by: 10/4/2022 9:12:39 AM

, Project Manager I

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: 320-92540-1

-1	
	3
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Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

#### Job ID: 320-92540-1

#### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92540-1

**Case Narrative** 

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/28/2022 9:40 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.

#### 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

Client Sample ID: GESPN	/090622-25	54				Lab Sa	mple ID: 32	<b>0-92540-</b> 1
 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Ргер Туре
Lead	0.0031		0.0021	0.00031	ug/m3 (Air)	1	6020	Total/NA
Copper	0.061		0.0042	0.00031	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0091		0.0021	0.00029	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	26		0.87	0.87	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P090622-2	.54				Lab Sa	mple ID: 32	0-92540-2
Analyte	Result	Qualifier	RL		Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	25.0032		0.9125	0.9125	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	/090622-25	55				Lab Sa	mple ID: 32	0-92540-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0022		0.0020	0.00031	ug/m3 (Air)	1	6020	Total/NA
Copper	0.15		0.0041	0.00031	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0057		0.0020	0.00029	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	24		0.85	0.85	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P090622-2	.55				Lab Sa	mple ID: 32	0-92540-4
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	33.9561		0.8532	0.8532	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	/090622-25	56				Lab Sa	mple ID: 32	0-92540-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Ргер Туре
Lead	0.0049		0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.095		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.011		0.00070	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: GESTS	P090622-2	256				Lab Sa	mple ID: 32	0-92540-6
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	34.4869		0.3036	0.3036	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	/090622-25	57				Lab Sa	mple ID: 32	0-92540-7
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0014		0.00067		ug/m3 (Air)	1	6020	Total/NA
Copper	0.020		0.0013	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0037		0.00067	0.000094	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	8.4		0.28	0.28	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P090622-2	257				Lab Sa	mple ID: 32	0-92540-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type

This Detection Summary does not include radiochemical test results.

10/4/2022

								Job ID: 320-9	2540-1
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E	, Phase 2	2							
Client Sample ID: GESPM09 Date Collected: 09/22/22 14:42 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter	0622-25	54				L	ab Sample.	D: 320-92 Mat	2 <b>540-1</b> rix: Air
_ Method: 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.0021		ug/m3 (Air)		10/03/22 10:45	10/03/22 14:42	
Copper	0.061		0.0042		ug/m3 (Air)			10/03/22 14:42	
Manganese	0.0091		0.0021	0.00029	ug/m3 (Air)		10/03/22 10:45	10/03/22 14:42	
General Chemistry									
Analyte		Qualifier	RL		Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10	26		0.87	0.87	ug/m3			09/29/22 14:00	
Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:42 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter	90622-2	254				L	ab Sample.	e ID: 320-92 Mat	2540-2 rix: Ai
General Chemistry						_			
Analyte		Qualifier				<u>D</u>	Prepared	Analyzed 09/29/22 14:00	Dil Fa
Total Suspended Particulates	25.0032		0.9125	0.9125	ug/m3 (Air)			09/29/22 14.00	
								Mat	rix: Ai
Date Received: 09/28/22 09:40								Mat	
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	0.0022	Qualifier	0.0020	0.00031	ug/m3 (Air)	D	10/03/22 10:45	Analyzed 10/03/22 14:52	Dil Fa
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper	0.0022 0.15	Qualifier	0.0020	0.00031 0.00031	ug/m3 (Air) ug/m3 (Air)	D	10/03/22 10:45 10/03/22 10:45	Analyzed 10/03/22 14:52 10/03/22 14:52	Dil Fa
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	0.0022	Qualifier	0.0020	0.00031 0.00031	ug/m3 (Air)	<u>D</u>	10/03/22 10:45 10/03/22 10:45	Analyzed 10/03/22 14:52	Dil Fa
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper	0.0022 0.15 0.0057		0.0020 0.0041 0.0020	0.00031 0.00031 0.00029	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	<u> </u>	10/03/22 10:45 10/03/22 10:45	Analyzed 10/03/22 14:52 10/03/22 14:52	Dil Fa
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte	0.0022 0.15 0.0057 Result	Qualifier Qualifier	0.0020 0.0041 0.0020 <b>RL</b>	0.00031 0.00031 0.00029 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit	 	10/03/22 10:45 10/03/22 10:45	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed	Dil Fa Dil Fa
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry	0.0022 0.15 0.0057		0.0020 0.0041 0.0020	0.00031 0.00031 0.00029 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air)	 	10/03/22 10:45 10/03/22 10:45 10/03/22 10:45	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52	Dil Fa
Analyte Lead Copper Manganese General Chemistry Analyte	0.0022 0.15 0.0057 Result 24	Qualifier	0.0020 0.0041 0.0020 <b>RL</b>	0.00031 0.00031 0.00029 RL	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit		10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 <b>Prepared</b>	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 PID: 320-92	Dil Fac
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry	0.0022 0.15 0.0057 Result 24 90622-2	Qualifier 255	0.0020 0.0041 0.0020 <b>RL</b> 0.85	0.00031 0.00031 0.00029 <b>RL</b> 0.85	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	_ D_	10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 Prepared	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 PID: 320-92 Mat	Dil Fa Dil Fa 2540-4 rix: Ai
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte	0.0022 0.15 0.0057 Result 24 90622-2 Result	Qualifier	0.0020 0.0041 0.0020 RL 0.85	0.00031 0.00031 0.00029 RL 0.85	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3		10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 <b>Prepared</b>	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 PID: 320-92 Mat Analyzed	Dil Fac Dil Fac 2540-4 rix: Air Dil Fac
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates	0.0022 0.15 0.0057 Result 24 90622-2 Result 33.9561	Qualifier 255 Qualifier	0.0020 0.0041 0.0020 <b>RL</b> 0.85	0.00031 0.00031 0.00029 RL 0.85	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	  	10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 Prepared .ab Sample	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 PID: 320-92 Mat Analyzed 09/29/22 14:00	Dil Fa Dil Fa 2540-4 rix: Ai Dil Fa
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM09 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40	0.0022 0.15 0.0057 Result 24 90622-2 Result 33.9561	Qualifier 255 Qualifier	0.0020 0.0041 0.0020 RL 0.85	0.00031 0.00031 0.00029 RL 0.85	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) Unit ug/m3	  	10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 Prepared .ab Sample	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 P ID: 320-92 Mat 09/29/22 14:00 P ID: 320-92	Dil Fac Dil Fac 2540-4 rix: Ail Dil Fac
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM09 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)	0.0022 0.15 0.0057 Result 24 90622-2 Result 33.9561 0622-25	Qualifier 255 Qualifier 56	0.0020 0.0041 0.0020 RL 0.85	0.00031 0.00031 0.00029 RL 0.85 0.85	ug/m3 (Air) ug/m3 (Air) ug/m3 (Air) <u>Unit</u> ug/m3 <u>Unit</u> ug/m3 (Air)		10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 Prepared .ab Sample .ab Sample	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 PID: 320-92 Mat 09/29/22 14:00 PID: 320-92 Mat	Dil Fau Dil Fau 2540-4 rix: Ail Dil Fau 2540-5 rix: Ail
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM09 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.0022 0.15 0.0057 Result 24 90622-2 Result 33.9561 0622-25 Result	Qualifier 255 Qualifier	0.0020 0.0041 0.0020 RL 0.85 0.85 2 0.8532	0.00031 0.00031 0.00029 RL 0.85 0.8532 MDL	Unit Unit Unit Unit Unit Unit Unit	  	10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 Prepared .ab Sample .ab Sample .ab Sample	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 2 ID: 320-92 Mat 09/29/22 14:00 2 ID: 320-92 Mat	Dil Fac
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM09 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead	0.0022 0.15 0.0057 Result 24 90622-2 8 8esult 33.9561 0622-25 Result 0.0049	Qualifier 255 Qualifier 56	0.0020 0.0041 0.0020 <b>RL</b> 0.85 0.85 0.8532 0.8532	0.00031 0.00031 0.00029 RL 0.85 0.85 0.8532 0.8532 0.8532	Unit ug/m3 (Air) ug/m3 (Air) Unit ug/m3 Unit ug/m3 (Air)		10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 Prepared .ab Sample .ab Sample .ab Sample	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 2 ID: 320-92 Mat 09/29/22 14:00 2 ID: 320-92 Mat 1D: 320-92 Mat	Dil Fac Dil Fac 2540-4 rix: Air Dil Fac 2540-5 rix: Air
Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte Lead Copper Manganese General Chemistry Analyte Particulate Matter as PM 10 Client Sample ID: GESTSP09 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter General Chemistry Analyte Total Suspended Particulates Client Sample ID: GESPM09 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS) Analyte	0.0022 0.15 0.0057 Result 24 90622-2 Result 33.9561 0622-25 Result	Qualifier 255 Qualifier 56	0.0020 0.0041 0.0020 RL 0.85 0.85 2 0.8532	0.00031 0.00031 0.00029 <b>RL</b> 0.8532 0.8532 0.8532 0.8532	Unit Unit Unit Unit Unit Unit Unit		10/03/22 10:45 10/03/22 10:45 10/03/22 10:45 Prepared .ab Sample .ab Sample .ab Sample .ab Sample	Analyzed 10/03/22 14:52 10/03/22 14:52 10/03/22 14:52 Analyzed 09/29/22 14:00 2 ID: 320-92 Mat 09/29/22 14:00 2 ID: 320-92 Mat	Dil Fac Dil Fac 2540-4 rix: Ail Dil Fac 2540-5 rix: Ail

#### **Client Sample Results**

10/4/2022

#### **Client Sample Results**

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel	E, Phase 2	2						Job ID: 320-9	92540-1
Client Sample ID: GESPM0 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter		56				L	ab Sample.	e ID: 320-92 Mat	2540-5 trix: Air
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			09/29/22 14:00	1
Client Sample ID: GESTSP Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter		256				L	ab Sample.	e ID: 320-92 Mat	2 <b>540-6</b> trix: Air
General Chemistry						_			
Analyte		Qualifier			Unit ug/m3 (Air)	_ D	Prepared	Analyzed 09/29/22 14:00	Dil Fac
Total Suspended Particulates Client Sample ID: GESPM0	34.4869		0.3030	0.3030	ug/ms (All)			09/29/22 14.00	1
Date Collected: 09/27/22 07:05 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter Method: 6020 - Metals (ICP/MS)								Mat	rix: Air
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014		0.00067	0.00010	ug/m3 (Air)		10/03/22 10:45	10/03/22 14:58	1
Copper	0.020		0.0013	0.00010	ug/m3 (Air)		10/03/22 10:45	10/03/22 14:58	1
Manganese	0.0037		0.00067	0.000094	ug/m3 (Air)		10/03/22 10:45	10/03/22 14:58	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.4		0.28	0.28	ug/m3			09/29/22 14:00	1
Client Sample ID: GESTSP Date Collected: 09/27/22 07:05 Date Received: 09/28/22 09:40 Sample Container: Folder/Filter		257				L	ab Sample.	e ID: 320-92 Mat	2 <b>540-8</b> trix: Air
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	19.5426		0.2824	0 2824	ug/m3 (Air)			09/29/22 14:00	1

**Eurofins Sacramento** 

Lab Sample ID: MB 320-621927/1-B

## Job ID: 320-92540-1

#### Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 621936

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Type: Total/NA

#### Matrix: Air Analysis Batch: 621988 MB MB Analyte Result Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)	_	10/03/22 10:45	10/03/22 14:32	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/03/22 10:45	10/03/22 14:32	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/03/22 10:45	10/03/22 14:32	1

#### Lab Sample ID: LCS 320-621927/2-B Matrix: Air Analysis Batch: 621988

Analysis Batch: 621988							Prep Batch: 621936	
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.240	0.240		ug/m3 (Air)	_	100	86 - 111	
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110	

#### Lab Sample ID: LCSD 320-621927/3-B Matrix: Air Analysis Batch: 621988

Analysis Batch: 621988							Prep Ba	tch: 62	21936
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.250		ug/m3 (Air)	_	104	86 - 111	4	15
Copper	0.240	0.239		ug/m3 (Air)		100	85 - 110	1	15
Manganese	0.240	0.244		ug/m3 (Air)		102	88 - 110	1	15

#### Eurofins Sacramento

#### **QC Association Summary**

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

#### **Metals** Pre Prep Batch: 621927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92540-1	GESPM090622-254	Total/NA	Air	Filter to Air	
320-92540-3	GESPM090622-255	Total/NA	Air	Filter to Air	
320-92540-5	GESPM090622-256	Total/NA	Air	Filter to Air	
320-92540-7	GESPM090622-257	Total/NA	Air	Filter to Air	
MB 320-621927/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-621927/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-621927/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92540-1	GESPM090622-254	Total/NA	Air	3050B	621927
320-92540-3	GESPM090622-255	Total/NA	Air	3050B	621927
320-92540-5	GESPM090622-256	Total/NA	Air	3050B	621927
320-92540-7	GESPM090622-257	Total/NA	Air	3050B	621927
MB 320-621927/1-B	Method Blank	Total/NA	Air	3050B	621927
LCS 320-621927/2-B	Lab Control Sample	Total/NA	Air	3050B	621927
LCSD 320-621927/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	621927

#### Analysis Batch: 621988

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92540-1	GESPM090622-254	Total/NA	Air	6020	621936
320-92540-3	GESPM090622-255	Total/NA	Air	6020	621936
320-92540-5	GESPM090622-256	Total/NA	Air	6020	621936
320-92540-7	GESPM090622-257	Total/NA	Air	6020	621936
MB 320-621927/1-B	Method Blank	Total/NA	Air	6020	621936
LCS 320-621927/2-B	Lab Control Sample	Total/NA	Air	6020	621936
LCSD 320-621927/3-B	Lab Control Sample Dup	Total/NA	Air	6020	621936

#### **General Chemistry**

#### Pre Prep Batch: 621997

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92540-2	GESTSP090622-254	Total/NA	Air	Filter to Air	
320-92540-4	GESTSP090622-255	Total/NA	Air	Filter to Air	
320-92540-6	GESTSP090622-256	Total/NA	Air	Filter to Air	
320-92540-8	GESTSP090622-257	Total/NA	Air	Filter to Air	

#### Analysis Batch: 622041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92540-1	GESPM090622-254	Total/NA	Air	PM10	
320-92540-3	GESPM090622-255	Total/NA	Air	PM10	
320-92540-5	GESPM090622-256	Total/NA	Air	PM10	
320-92540-7	GESPM090622-257	Total/NA	Air	PM10	

#### Analysis Batch: 622042

Lab Sample ID 320-92540-2	Client Sample ID GESTSP090622-254	Prep Type Total/NA	Matrix	Method 40CFR50 App B	Prep Batch 621997
320-92540-4	GESTSP090622-255	Total/NA	Air	40CFR50 App B	621997
320-92540-6	GESTSP090622-256	Total/NA	Air	40CFR50 App B	621997
320-92540-8	GESTSP090622-257	Total/NA	Air	40CFR50 App B	621997

Dil

1

1

Dil

Factor

Factor

Run

Run

Initial

Amount

0.083333 Sample

0 g

Initial

Amount

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

Client Sample ID: GESPM090622-254

Batch

3050B

6020

**PM10** 

Batch

Method

Filter to Air

40CFR50 App B

Method

Filter to Air

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Batch

Type

Analysis

Pre Prep

Client Sample ID: GESTSP090622-254

Date Collected: 09/22/22 14:42

Date Received: 09/28/22 09:40

Date Collected: 09/22/22 14:42

Date Received: 09/28/22 09:40

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Job ID: 320-92540-1

Analyst

Lab Sample ID: 320-92540-2

Analyst

Lab Sample ID: 320-92540-4

Lab Sample ID: 320-92540-5

Matrix: Air

EET SAC

EET SAC

EET SAC

EET SAC

Matrix: Air

Matrix: Air

Matrix: Air

Lab

Lab

# 9

EET SAC EET SAC 2540-3 trix: Air

<b>Client Sample ID</b>	: GE	SPM090622-255				L	ab Sample ID: 32	20-92
Date Collected: 09/2	2/22 *	4:32					-	Matr
Date Received: 09/2	8/22 (	9:40						
Ba	tch	Batch	Dil	Initial	Final	Batch	Propared	

	Batch	Batch		ווט	initiai	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Pre Prep	Filter to Air					621927	10/03/22 10:09		EET SAC	
Total/NA	Prep	3050B			0.083333 Sample	100 mL	621936	10/03/22 10:45		EET SAC	
Total/NA	Analysis	6020		1			621988	10/03/22 14:52		EET SAC	
Total/NA	Analysis	PM10		1	0 g	0.0144 g	622041	09/29/22 14:00		EET SAC	

#### Client Sample ID: GESTSP090622-255 Date Collected: 09/22/22 14:32 Date Received: 09/28/22 09:40

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			622042	09/29/22 14:00		EET SAC
Total/NA	Pre Prep	Filter to Air					621997	10/03/22 15:50		EET SAC

#### Client Sample ID: GESPM090622-256 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					621927	10/03/22 10:09		EET SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	621936	10/03/22 10:45		EET SAC
Total/NA	Analysis	6020		1	Sample		621988	10/03/22 14:55		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0417 g	622041	09/29/22 14:00		EET SAC

**Eurofins Sacramento** 

Prepared

or Analyzed

10/03/22 10:09

10/03/22 10:45

10/03/22 14:42

09/29/22 14:00

Prepared

or Analyzed

09/29/22 14:00

10/03/22 15:50

Batch

Number

621927

621936

621988

622041

Batch

Number

622042

621997

Final

Amount

100 mL

0.0150 g

Final

Amount

#### Client Sample ID: GESTSP090622-256 Date Collected: 09/27/22 07:19 Date Received: 09/28/22 09:40

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			622042	09/29/22 14:00		EET SAC
Total/NA	Pre Prep	Filter to Air					621997	10/03/22 15:50		EET SAC

Lab Chronicle

#### Client Sample ID: GESPM090622-257 Date Collected: 09/27/22 07:05 Date Received: 09/28/22 09:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					621927	10/03/22 10:09		EET SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	621936	10/03/22 10:45		EET SAC
Total/NA	Analysis	6020		1			621988	10/03/22 14:58		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0149 g	622041	09/29/22 14:00		EET SAC

#### Client Sample ID: GESTSP090622-257 Date Collected: 09/27/22 07:05 Date Received: 09/28/22 09:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			622042	09/29/22 14:00		EET SAC
Total/NA	Pre Prep	Filter to Air					621997	10/03/22 15:50		EET SAC

#### Laboratory References:

EET 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

#### 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

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

Eurofins Sacramento

#### **Method Summary**

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

**Method Description** 

Suspended Particulate Matter in Ambient Air

Metals (ICP/MS)

Particulate Matter

40CFR50J = 40 CFR Part 50 Appendix J EPA = US Environmental Protection Agency

Preparation, Metals

Filter to Air volume ratio

Laboratory

EET SAC

EET SAC

EET SAC

EET SAC

EET SAC

Protocol

40CFR50J

SW846

SW846

None

EPA

)- 1	
	5
	8
	9
	11

None = None

**Protocol References:** 

Method

40CFR50 App B

6020

PM10

3050B

Filter to Air

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

#### Laboratory References:

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

**Eurofins Sacramento** 

#### Sample Summary

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

Job ID: 320-92540-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92540-1	GESPM090622-254	Air	09/22/22 14:42	09/28/22 09:40
320-92540-2	GESTSP090622-254	Air	09/22/22 14:42	09/28/22 09:40
320-92540-3	GESPM090622-255	Air	09/22/22 14:32	09/28/22 09:40
320-92540-4	GESTSP090622-255	Air	09/22/22 14:32	09/28/22 09:40
320-92540-5	GESPM090622-256	Air	09/27/22 07:19	09/28/22 09:40
320-92540-6	GESTSP090622-256	Air	09/27/22 07:19	09/28/22 09:40
320-92540-7	GESPM090622-257	Air	09/27/22 07:05	09/28/22 09:40
320-92540-8	GESTSP090622-257	Air	09/27/22 07:05	09/28/22 09:40

#### CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT092722AIRE



Pro	ject Name: Hunters Point Sh	ipyard, I	Parcel E RA P	hase 2		Lab	orate	ory: E	EURC	FINS	ENV	IRON	MEN	T TESTING NORTHERN C	ALIFORN	A. LLC	EETN	Event: F	Parcel E Phase 2 Air
Pro	ject Number: J310000400					PO	_											Monito	
WB	S Code: J310000400-016					Ship	o to:	880	River	side	Parkw	ay, W	est S	Sacramento, CA 95605			-		
	nments: lipment:				Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu						Code     Matrix       A     Air       Code     Container/Preservative       1     1x Envelope, None	320-925	540 Chai	n of Cus	stody	
	Event: Parcel E Phase 2 Air I	Monitorin	9			1	1	1											
	Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM090622-254	A	09/22/2022	1442		X		X			Π		Γ	AMSE1	N2	0.00	0.00	1	VOLUME: 572.69 (M3)
2	GESTSP090622-254	A	09/22/2022	1442			X						T	AMSE1	N2	0.00	0.00	1	VOLUME: 547.93 (M3)
3	GESPM090622-255	A	09/22/2022	1432		X		X					Τ	AMSE2	N2	0.00	0.00	1	VOLUME: 589.25 (M3)
4	GESTSP090622-255	A	09/22/2022	1432			X						Τ	AMSE2	N2	0.00	0.00	1	VOLUME: 586.05 (M3)
5	GESPM090622-256	A	09/27/2022	0719		X		х					Τ	AMSE1	N1	0.00	0.00	1	VOLUME: 1724.29 (M3)
6	GESTSP090622-256	A	09/27/2022	0719			х				$\square$		Γ	AMSE1	N1	0.00	0.00	1	VOLUME: 1647.00 (M3)
7	GESPM090622-257	A	09/27/2022	0705		X		X					T	AMSE2	N1	0.00	0.00	1	VOLUME: 1777.90 (M3)
8	GESTSP090622-257	A	09/27/2022	0705			х						T	AMSE2	N1	0.00	0.00	1	VOLUME: 1770.49 (M3)
9													Ι	9/22/22					
10					-														
Term	naround Time: 5 days					_									-				

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	9/27/22	1600	FEDEX	9/27/22	1600	Shipping Date: 9/27/2022 / FedEx 7700 3902 2044
				gliela	940	
						Received by Laboratory: (Signature, Date, Time) & condition
ES Nov COC Field						

10/4/2022

20.52

Page 1 of 1

#### Login Sample Receipt Checklist

#### Client: GES-AIS, LLC

#### Login Number: 92540 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

List Source: Eurofins Sacramento

## 🔅 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 320-92638-1

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

#### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

#### Attn:

LINKS

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Expert

Authorized for release by: 10/10/2022 2:14:05 PM

, Project Manager I

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: 320-92638-1

	3
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Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**Eurofins Sacramento** 

#### Job ID: 320-92638-1

#### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92638-1

**Case Narrative** 

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/30/2022 9:25 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.

#### 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

Client Sample ID: GESPN	/1090622-25	58				Lab Sa	mple ID: 32	0- <mark>926</mark> 38-′
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0077		0.00071	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.039		0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.025		0.00071		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	42		0.30		ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P090622-2	58				Lab Sa	mple ID: 32	0-92638-2
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	66.4158		0.3115	0.3115	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	/1090622-25	59				Lab Sa	mple ID: 32	0-92638-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0015		0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.019		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0037		0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	20		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P090622-2	59				Lab Sa	mple ID: 32	0-92638-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	28.3721		0.2895	0.2895	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	/1090622-26	60				Lab Sa	mple ID: 32	0-92638-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.011		0.00069	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.057		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.026		0.00069	0.000096	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	50		0.29	0.29	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P090622-2	60				Lab Sa	mple ID: 32	0-92638-
Analyte	Result	Qualifier	RL		Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	77.7460		0.2995	0.2995	ug/m3 (Air)	1	40CFR50 App B	Total/NA
Client Sample ID: GESPN	/1090622-26	61				Lab Sa	mple ID: 32	0-92638-
Analyte		Qualifier	RL	MDL		Dil Fac		Prep Type
Lead	0.0011		0.00067		ug/m3 (Air)	1	6020	Total/NA
Copper	0.013		0.0013		ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0032		0.00067	0.000094	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	17		0.28	0.28	ug/m3	1	PM10	Total/NA
Client Sample ID: GESTS	P090622-2	61				Lab Sa	mple ID: 32	0-92638-
-								
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type

This Detection Summary does not include radiochemical test results.

		Onent	Campic	Resul	13				0000 4
Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel	E, Phase 2	2						Job ID: 320-9	2638-1
Client Sample ID: GESPM0 Date Collected: 09/28/22 06:46 Date Received: 09/30/22 09:25 Sample Container: Folder/Filter		58				L	ab Sample.	D: 320-92 Mat	2638-1 rix: Air
Method: SW846 6020 - Metals (	ICP/MS)								
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0077		0.00071		ug/m3 (Air)		10/06/22 07:20	10/06/22 18:18	1
Copper	0.039		0.0014		ug/m3 (Air)		10/06/22 07:20	10/06/22 18:18	1
Manganese	0.025		0.00071	0.00010	ug/m3 (Air)		10/06/22 07:20	10/06/22 18:18	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	42		0.30		ug/m3			10/04/22 08:00	1
(40CFR50J PM10)					0.				
Client Sample ID: GESTSP( Date Collected: 09/28/22 06:46 Date Received: 09/30/22 09:25 Sample Container: Folder/Filter		258				L	ab Sample.	e ID: 320-92 Mat	2638-2 rix: Air
 General Chemistry									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA _40CFR50 App B)	66.4158		0.3115	0.3115	ug/m3 (Air)			10/04/22 08:00	1
Client Sample ID: GESPM0 Date Collected: 09/28/22 06:32 Date Received: 09/30/22 09:25 Sample Container: Folder/Filter		59				L	ab Sample.	e ID: 320-92 Mat	2638-3 rix: Air
_ Method: SW846 6020 - Metals (	ICP/MS)								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0015		0.00070		ug/m3 (Air)		10/06/22 07:20	10/06/22 18:27	1
Copper	0.019		0.0014		ug/m3 (Air)		10/06/22 07:20	10/06/22 18:27	1
Manganese	0.0037		0.00070	0.000098	ug/m3 (Air)		10/06/22 07:20	10/06/22 18:27	1
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	20		0.29	0.29	ug/m3			10/04/22 08:00	1
Client Sample ID: GESTSP Date Collected: 09/28/22 06:32 Date Received: 09/30/22 09:25 Sample Container: Folder/Filter		:59				L	ab Sample.	e ID: 320-92 Mat	2638-4 rix: Aiı
General Chemistry Analyte	Pocult	Qualifier	RL	DI	Unit	D	Prepared	Analyzod	Dil Fac
Total Suspended Particulates (EPA	28.3721	Quainter	0.2895		ug/m3 (Air)		Fiehaien	Analyzed 10/04/22 08:00	1 Dil Fac
40CFR50 App B)	20.3721		0.2093	0.2095	ug/III3 (All)			10/04/22 00.00	I

**Client Sample Results** 

#### Eurofins Sacramento

Client: GES-AIS, LLC Project/Site: Hunters Point, Parce	I E, Phase 2	2						Job ID: 320-9	2030-1
Client Sample ID: GESPMC Date Collected: 09/29/22 07:03 Date Received: 09/30/22 09:25 Sample Container: Folder/Filter		60				L	ab Sample	e ID: 320-92 Mat	2638-5 :rix: Air
Method: SW846 6020 - Metals		Qualifier	Ы	MDI	11-14		Drevered	Analyzad	
Analyte Lead	Result	Qualifier	RL 0.00069		Unit ug/m3 (Air)	_ <u>D</u>	Prepared 10/06/22 07:20	Analyzed 10/06/22 18:31	Dil Fac
Copper	0.011		0.00009		ug/m3 (Air) ug/m3 (Air)		10/06/22 07:20	10/06/22 18:31	
Manganese	0.026		0.00069		ug/m3 (Air)			10/06/22 18:31	
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10 (40CFR50J PM10)	50		0.29	0.29	ug/m3			10/04/22 08:00	
Client Sample ID: GESTSP	090622-2	60				L	ab Sample	e ID: 320-92	
Date Collected: 09/29/22 07:03 Date Received: 09/30/22 09:25 Sample Container: Folder/Filte	r							Mat	rix: Ai
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Particulates (EPA 40CFR50 App B)	77.7460		0.2995	0.2995	ug/m3 (Air)			10/04/22 08:00	
Client Sample ID: GESPM Date Collected: 09/29/22 06:53 Date Received: 09/30/22 09:25 Sample Container: Folder/Filter							ab Sample	e ID: 320-92 Mat	rix: Ai
Method: SW846 6020 - Metals	•	Qualifian		MD	11	_	Ducusaria	Awalumad	
Analyte Lead	0.0011	Qualifier			Unit ug/m3 (Air)	D	Prepared 10/06/22 07:20	Analyzed 10/06/22 18:34	Dil Fa
Copper	0.0011		0.0013		ug/m3 (Air)		10/06/22 07:20	10/06/22 18:34	
Manganese	0.0032		0.00067		ug/m3 (Air)			10/06/22 18:34	
General Chemistry									
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fa
Particulate Matter as PM 10 _(40CFR50J PM10)	17		0.28	0.28	ug/m3			10/04/22 08:00	
Client Sample ID: GESTSP	090622-2	61				L	ab Sample	e ID: 320-92	2638-
Date Collected: 09/29/22 06:53 Date Received: 09/30/22 09:25 Sample Container: Folder/Filte	r						-	Mat	rix: Ai
-									
General Chemistry Analyte	Rocult	Qualifier	RL	<b>B</b> I	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Particulates (EPA	24.9290	Quaillei	0.2788		ug/m3 (Air)		Fiehalen	10/04/22 08:00	
40CFR50 App B)	24.3230		0.2700	0.2700	ч <u>а</u> нно (лаг)			10/04/22 00:00	

**Client Sample Results** 

**Eurofins Sacramento** 

10/10/2022

Client: GES-AIS 11C

Job ID: 320-92638-1

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

Lab Sample ID: MB 320-622672/1-B Matrix: Air Analysis Batch: 622999							CI	ient	Samı	ole ID: Methoc Prep Type: To Prep Batch:	otal/NA			
Analyte	Result	Qualifier		RL	I	NDL	Unit	I	D	Prep	ared	Analyzed	Dil Fac	
Lead	ND		0.0	0012	0.00	018	ug/m3	3 (Air)	10	/06/2	2 07:20	10/06/22 18:08	1	
Copper	ND		0.0	0024	0.00	018	ug/m3	3 (Air)	10	/06/2	2 07:20	10/06/22 18:08	1	-
Manganese	ND		0.0	0012	0.00	017	ug/m3	3 (Air)	10	/06/2	2 07:20	10/06/22 18:08	1	
Lab Sample ID: LCS 320-622672/2- Matrix: Air	В							Clie	nt S	amp	le ID:	Lab Control S Prep Type: To		
Analysis Batch: 622999												Prep Batch:	622681	
			Spike		LCS	LCS						%Rec		
Analyte			Added		Result	Qual	lifier	Unit		2 %	Rec	Limits		
Lead			0.240		0.250			ug/m3 (A	ir)		104	86 - 111		
Copper			0.240		0.234			ug/m3 (A	.ir)		98	85 - 110		
Manganese			0.240		0.242			ug/m3 (A	ir)		101	88 - 110		

#### Lab Sample ID: LCSD 320-622672/3-B Matrix: Air Analysis Batch: 622999

Analysis Batch: 622999							Prep Batch: 622		2681	
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Lead	0.240	0.247		ug/m3 (Air)	_	103	86 - 111	1	15	
Copper	0.240	0.236		ug/m3 (Air)		98	85 - 110	1	15	
Manganese	0.240	0.241		ug/m3 (Air)		100	88 - 110	0	15	

#### Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

<mark>681</mark> RPD	13
INF D	
imit	
15	
15	
15	

Job ID: 320-92638-1

#### **QC Association Summary**

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-92638-1

## 8 9 10 11 12 13

#### **Metals** Pre Prep Batch: 622672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch					
320-92638-1	GESPM090622-258	Total/NA	Air	Filter to Air						
320-92638-3	GESPM090622-259	Total/NA	Air	Filter to Air						
320-92638-5	GESPM090622-260	Total/NA	Air	Filter to Air						
320-92638-7	GESPM090622-261	Total/NA	Air	Filter to Air						
MB 320-622672/1-B	Method Blank	Total/NA	Air	Filter to Air						
LCS 320-622672/2-B	Lab Control Sample	Total/NA	Air	Filter to Air						
LCSD 320-622672/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air						
Prep Batch: 622681										

#### Analysis Batch: 622999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92638-1	GESPM090622-258	Total/NA	Air	6020	622681
320-92638-3	GESPM090622-259	Total/NA	Air	6020	622681
320-92638-5	GESPM090622-260	Total/NA	Air	6020	622681
320-92638-7	GESPM090622-261	Total/NA	Air	6020	622681
MB 320-622672/1-B	Method Blank	Total/NA	Air	6020	622681
LCS 320-622672/2-B	Lab Control Sample	Total/NA	Air	6020	622681
LCSD 320-622672/3-B	Lab Control Sample Dup	Total/NA	Air	6020	622681

#### **General Chemistry**

#### Pre Prep Batch: 623310

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92638-2	GESTSP090622-258	Total/NA	Air	Filter to Air	
320-92638-4	GESTSP090622-259	Total/NA	Air	Filter to Air	
320-92638-6	GESTSP090622-260	Total/NA	Air	Filter to Air	
320-92638-8	GESTSP090622-261	Total/NA	Air	Filter to Air	

#### Analysis Batch: 623420

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92638-1	GESPM090622-258	Total/NA	Air	PM10	
320-92638-3	GESPM090622-259	Total/NA	Air	PM10	
320-92638-5	GESPM090622-260	Total/NA	Air	PM10	
320-92638-7	GESPM090622-261	Total/NA	Air	PM10	

#### Analysis Batch: 623424

Lab Sample ID 320-92638-2	Client Sample ID GESTSP090622-258	Prep Type Total/NA	Air	Method 40CFR50 App B	Prep Batch 623310
320-92638-4	GESTSP090622-259	Total/NA	Air	40CFR50 App B	623310
320-92638-6	GESTSP090622-260	Total/NA	Air	40CFR50 App B	623310
320-92638-8	GESTSP090622-261	Total/NA	Air	40CFR50 App B	623310

Dil

1

1

Dil

1

Factor

Factor

Run

Run

Initial

Amount

0.08333 Sample

0 g

Initia

Amou

Client Sample ID: GESPM090622-258

Batch

3050B

6020

**PM10** 

Batch

Method

Filter to Air

40CFR50 App B

Method

Filter to Air

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Batch

Type

Analysis

Pre Prep

Client Sample ID: GESTSP090622-258

Date Collected: 09/28/22 06:46

Date Received: 09/30/22 09:25

Date Collected: 09/28/22 06:46

Date Received: 09/30/22 09:25

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Job ID: 320-92638-1

Analyst

Lab Sample ID: 320-92638-2

Matrix: Air

EET SAC

EET SAC

EET SAC

EET SAC

Lab

## 9

Matrix: Air

Matrix: Air

al	Final	Batch	Prepared			10		
int	Amount	Number	or Analyzed	Analyst	Lab			
		623424	10/04/22 08:00		EET SAC	11		
		623310	10/07/22 16:29		EET SAC			
Lab Sample ID: 320-92638-3								

Prepared

or Analyzed

10/06/22 06:51

10/06/22 07:20

10/06/22 18:18

10/04/22 08:00

#### Client Sample ID: GESPM090622-259 Date Collected: 09/28/22 06:32 Date Received: 09/30/22 09:25

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					622672	10/06/22 06:51		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	622681	10/06/22 07:20		EET SAC
Total/NA	Analysis	6020		1			622999	10/06/22 18:27		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0341 g	623420	10/04/22 08:00		EET SAC

#### Client Sample ID: GESTSP090622-259 Date Collected: 09/28/22 06:32 Date Received: 09/30/22 09:25

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			623424	10/04/22 08:00		EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC

#### Client Sample ID: GESPM090622-260 Date Collected: 09/29/22 07:03 Date Received: 09/30/22 09:25

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					622672	10/06/22 06:51		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	622681	10/06/22 07:20		EET SAC
Total/NA	Analysis	6020		1	oumpio		622999	10/06/22 18:31		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0878 g	623420	10/04/22 08:00		EET SAC

#### Lab Sample ID: 320-92638-4

Lab Sample ID: 320-92638-5

Matrix: Air

Matrix: Air

**Eurofins Sacramento** 

Batch

Number

622672

622681

622999

623420

Final

Amount

100 mL

0.0703 g

#### Client Sample ID: GESTSP090622-260 Date Collected: 09/29/22 07:03 Date Received: 09/30/22 09:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			623424	10/04/22 08:00		EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC

Lab Chronicle

#### Client Sample ID: GESPM090622-261 Date Collected: 09/29/22 06:53 Date Received: 09/30/22 09:25

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					622672	10/06/22 06:51		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	622681	10/06/22 07:20		EET SAC
Total/NA	Analysis	6020		1			622999	10/06/22 18:34		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0303 g	623420	10/04/22 08:00		EET SAC

#### Client Sample ID: GESTSP090622-261 Date Collected: 09/29/22 06:53 Date Received: 09/30/22 09:25

—	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			623424	10/04/22 08:00		EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC

#### Laboratory References:

EET 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

#### Laboratory: Eurofins Sacramento

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

Program Dept. of Defense ELAP	L2468	Expiration Date 01-20-24		
NELAP	4040	01-29-23		
	•	•		

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

**Eurofins Sacramento** 

#### **Method Summary**

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

4	
1	
_	
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	11

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

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:

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

**Eurofins Sacramento** 

#### Sample Summary

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

Job ID: 320-92638-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92638-1	GESPM090622-258	Air	09/28/22 06:46	09/30/22 09:25
320-92638-2	GESTSP090622-258	Air	09/28/22 06:46	09/30/22 09:25
320-92638-3	GESPM090622-259	Air	09/28/22 06:32	09/30/22 09:25
320-92638-4	GESTSP090622-259	Air	09/28/22 06:32	09/30/22 09:25
320-92638-5	GESPM090622-260	Air	09/29/22 07:03	09/30/22 09:25
320-92638-6	GESTSP090622-260	Air	09/29/22 07:03	09/30/22 09:25
320-92638-7	GESPM090622-261	Air	09/29/22 06:53	09/30/22 09:25
320-92638-8	GESTSP090622-261	Air	09/29/22 06:53	09/30/22 09:25

Eurofins Sagamente2

#### CHAIN-OF-CUSTODY RECORD

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

COC # KT092922AIRE



Pro	ect Name: Hunters Point Shi	ipyard, I	Parcel E RA P	hase 2		Lab	ora	tory:	EURC	FIN	SEN	/IRO	NME	NT TESTING N	ORTHERN	<b>CALIFORN</b>	A, LLC	(EETN	Event: Parcel E Phase 2 Air	
Pro	ject Number: J310000400					PO													Monitor	ing
WB	S Code: J310000400-016					Shi	p to	: 880	River	side	Parky	vay, V	West	Sacramento, C	A 95605				1	
Cor	nments:				po			Cu						A Air	atrix r niner/Preservat velope, None	ive				
Equ	ipment:				Analytical Test Method		<ul> <li>N0500 - Air TSP</li> </ul>	SW6020 - Air Pb Mn								320-92638 C	hain of	Custody		
	Event: Parcel E Phase 2 Air N	/ionitorin	g		-	1	1	1					-							
	Sample ID	Matrix	Date	Time	Samp Init.									Loca	tion ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM090622-258	A	09/28/2022	0646		X		X		T				AM	ISE1	N1	0.00	0.00	1	VOLUME: 1678.74 (M3)
2	GESTSP090622-258	A	09/28/2022	0646			Х							AM	ISE1	N1	0.00	0.00	1	VOLUME: 1605.04 (M3)
3	GESPM090622-259	A	09/28/2022	0632		X	-	X		$\top$				AM	ISE2	N1	0.00	0.00	1	VOLUME: 1722.14 (M3)
4	GESTSP090622-259	A	09/28/2022	0632			X			1				AM	ISE2	N1	0.00	0.00	1	VOLUME: 1727.05 (M3)
5	GESPM090622-260	A	09/29/2022	0703		X		X		+				AM	ISE1	N1	0.00	0.00	1	VOLUME: 1747.75 (M3)
6	GESTSP090622-260	A	09/29/2022	0703			Х					-		AM	ISE1	N1	0.00	0.00	1	VOLUME: 1669.54 (M3)
7	GESPM090622-261	A	09/29/2022	0653		X		x		+		-	+	AM	ISE2	N1	0.00	0.00		VOLUME: 1791.66 (M3)
8	GESTSP090622-261	A	09/29/2022	0653			x			$\top$		+	+	AM	ISE2	N1	0.00	0.00	1	VOLUME: 1793.09 (M3)
9										+		+		9/29/22						(
10										+		-								
Tur	naround Time: 5 days				-					-	1	-	-							
Rel	inquished by: (Signature)		Date	Time	Receive	d by:	: (Si	igna	ture)					Date	Time	Shipping D	COLUMN TWO IS NOT			
			9/29/22	1600	FE.	DER	7							129/22	1600	Shipping Da	ate: 9/29	/2022 /	FedEx 77	00 5934 8125
													ć	1.30.12	0925	Received b	y Labo	atory: (	Signature	, Date, Time) & condition
																			giladito	
													-		1					

10/10/2022

GES.Navy\_COC\_Field September 29, 2022

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#### Login Sample Receipt Checklist

#### Client: GES-AIS, LLC

#### Login Number: 92638 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

#### Job Number: 320-92638-1

List Source: Eurofins Sacramento

## 🛟 eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 320-92806-1

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

#### For:

GES-AIS, LLC 1501 W Fountainhead Parkway Ste 550 Tempe, Arizona 85282

by: 10/19/2022 10:43:51 AM



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Expert



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

3

#### Qualifiers

Metals	Quelifier Description		
Qualifier	Qualifier Description		
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		

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) Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

#### Job ID: 320-92806-1

#### Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92806-1

**Case Narrative** 

#### Receipt

The samples were received on 10/5/2022 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 19.2° C.

#### 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

# Client Sample ID: GESPM090622\_262

Client Sample ID: GESPN	1090622-26	52				Lab Sa	mple ID: 32	0-92806-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0032		0.0023	0.00034	ug/m3 (Air)	1	6020	Total/NA
Copper	0.10		0.0045	0.00034	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.010		0.0023	0.00032	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	35		0.94	0.94	ug/m3	1	PM10	Total/NA
lient Sample ID: GESTS	P090622-2	62				Lab Sa	mple ID: 32	0-92806-
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	47.5745		0.9749	0.9749	ug/m3 (Air)	1	40CFR50 App B	Total/NA
lient Sample ID: GESPN	1090622-26	33				Lab Sa	mple ID: 32	0-92806-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.0017		0.0021	0.00031	ug/m3 (Air)	1	6020	Total/NA
Copper	0.078		0.0042	0.00031	• • • •	1	6020	Total/NA
Manganese	0.0035		0.0021		ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	29		0.87		ug/m3	1	PM10	Total/NA
lient Sample ID: GESTS	P090622-2	63				Lab Sa	mple ID: 32	0-92806·
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	34.6009		0.8650		ug/m3 (Air)	1	40CFR50 App B	
Client Sample ID: GESPN	1090622-26	64				Lab Sa	mple ID: 32	0-92806-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
Lead	0.012		0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.077		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.031		0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	71		0.29		ug/m3	1	PM10	Total/NA
lient Sample ID: GESTS	P090622-2	64				Lab Sa	mple ID: 32	0-92806
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	82.8222		0.3079	0.3079	ug/m3 (Air)	1	40CFR50 App B	Total/NA
lient Sample ID: GESPN	1090622-26	65				Lab Sa	mple ID: 32	0-92806-
Analyte	Result	Qualifier	RL	MDL		Dil Fac D	Method	Prep Type
Lead	0.0019		0.00068	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.020		0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0058		0.00068	0.000095	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	20		0.28	0.28	ug/m3	1	PM10	Total/NA
	D000622 2	65				Lab Sa	mple ID: 32	0-92806-
lient Sample ID: GESTS	F 030022-2							
Client Sample ID: GESTS		Qualifier	RL	RL	Unit	Dil Fac D	-	Prep Type

This Detection Summary does not include radiochemical test results.

10/19/2022

4 5

Client: GES-AIS, LLC			Sample	Resul	.5			Job ID: 320-9	2806-1
Project/Site: Hunters Point, Parcel I									
Client Sample ID: GESPM09 Date Collected: 09/29/22 14:31 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter	0622-26	52				L	ab Sample.	e ID: 320-92 Mat	2806-1 rix: Air
Method: SW846 6020 - Metals (I	CP/MS)								
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032		0.0023		ug/m3 (Air)		10/10/22 08:20	10/10/22 14:25	1
Copper	0.10		0.0045		ug/m3 (Air)		10/10/22 08:20	10/10/22 14:25	1
Manganese	0.010		0.0023	0.00032	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:25	1
General Chemistry Analyte	Result	Qualifier	RL	RI	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35	Quaimer	0.94		ug/m3			10/06/22 11:30	1
(40CFR50J PM10)			0.04	0.04	ug/mo			10/00/22 11:00	
Client Sample ID: GESTSP0 Date Collected: 09/29/22 14:31 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter	90622-2	62				L	ab Sample.	e ID: 320-92 Mat	2806-2 rix: Air
General Chemistry									
Analyte		Qualifier	RL		Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	47.5745		0.9749	0.9749	ug/m3 (Air)			10/06/22 14:30	1
Client Sample ID: GESPM09 Date Collected: 09/29/22 14:44 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter	90622-26	3				L	ab Sample.	e ID: 320-92 Mat	2806-3 rix: Air
Method: SW846 6020 - Metals (I									
Analyte		Qualifier			Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017	J	0.0021	0.00031	<b>o</b> ( )		10/10/22 08:20	10/10/22 14:35	1
Copper	0.078 0.0035		0.0042 0.0021	0.00031	ug/m3 (Air) ug/m3 (Air)		10/10/22 08:20	10/10/22 14:35 10/10/22 14:35	1
Manganese	0.0035		0.0021	0.00029	ug/m3 (Air)		10/10/22 08.20	10/10/22 14:33	
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	29		0.87	0.87	ug/m3			10/06/22 11:30	1
Client Sample ID: GESTSP0	90622-2	63				L	ab Sample	e ID: 320-92	2806-4
Date Collected: 09/29/22 14:44 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter									rix: Aiı
General Chemistry	Dessi	Qualifier			11:4	_	Duese	A	
Analyte		Qualifier			Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	34.6009		0.8650	0.8650	ug/m3 (Air)			10/06/22 14:30	1

**Client Sample Results** 

#### **Eurofins Sacramento**

Client: GES-AIS, LLC			Campic	Resul				Job ID: 320-9	92806-1
Project/Site: Hunters Point, Parcel Client Sample ID: GESPM0 Date Collected: 10/04/22 06:39 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter	90622-26					L	.ab Sample	e ID: 320-92 Mat	2806-5 trix: Air
Method: SW846 6020 - Metals (	ICP/MS)								
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.012		0.00070		ug/m3 (Air)		10/10/22 08:20	10/10/22 14:38	1
Copper	0.077		0.0014		ug/m3 (Air)		10/10/22 08:20	10/10/22 14:38	1
Manganese	0.031		0.00070	0.000098	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:38	1
General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	71		0.29		ug/m3			10/06/22 11:30	1
(40CFR50J PM10)					0.				
Client Sample ID: GESTSP Date Collected: 10/04/22 06:39 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter		264				L	.ab Sample	e ID: 320-92 Mat	2806-6 trix: Air
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	82.8222		0.3079	0.3079	ug/m3 (Air)			10/06/22 14:30	1
Client Sample ID: GESPM0 Date Collected: 10/04/22 06:28 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter		65				L	ab Sample	e ID: 320-92 Mat	2806-7 trix: Air
Method: SW846 6020 - Metals (		0	51		11.74	_	Durand	A	D
Analyte Lead	0.0019	Qualifier			Unit ug/m3 (Air)	D	Prepared 10/10/22 08:20	Analyzed 10/10/22 14:41	Dil Fac
Copper	0.0019		0.0000		ug/m3 (Air) ug/m3 (Air)		10/10/22 08:20	10/10/22 14:41	י 1
Manganese	0.020		0.00014		ug/m3 (Air) ug/m3 (Air)			10/10/22 14:41	1
	0.0000		0.00000	0.0000000	ug/mo (/ m/		10/10/22 00.20		
General Chemistry									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 _(40CFR50J PM10)	20		0.28	0.28	ug/m3			10/06/22 11:30	1
Client Sample ID: GESTSP Date Collected: 10/04/22 06:28 Date Received: 10/05/22 09:55 Sample Container: Folder/Filter		:65				L	.ab Sample	e ID: 320-92 Mat	2806-8 trix: Air
General Chemistry Analyte	Result	Qualifier	RL	RI	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.0959		0.2856		ug/m3 (Air)			10/06/22 14:30	1
(EPA 40CFR50 App B)	52.0333		0.2000	0.2000	sg/mo (/aii)			13/00/22 14:00	I

# **Client Sample Results**

**Eurofins Sacramento** 

# Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-62361 Matrix: Air Analysis Batch: 623809		МВ					ole ID: Method Prep Type: To Prep Batch: (	otal/NA
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012 0.0	0018 ug/m	3 (Air)	10/10/22 08:20	10/10/22 14:15	1
Copper	ND	(	0.0024 0.0	0018 ug/m	3 (Air)	10/10/22 08:20	10/10/22 14:15	1
Manganese	ND		0.0012 0.0	0017 ug/m	3 (Air)	10/10/22 08:20	10/10/22 14:15	1
Lab Sample ID: LCS 320-6236 Matrix: Air Analysis Batch: 623809	19/2-B				Client		Lab Control S Prep Type: To Prep Batch: (	otal/NA
		Spike	LCS	LCS			%Rec	
Analyte		Added 0.240		Qualifier	Unit ug/m3 (Air)	$\frac{D}{D} = \frac{0}{96} = \frac{0}{96}$	Limits 86 - 111	1

0.246

0.251

ug/m3 (Air)

ug/m3 (Air)

#### Lab Sample ID: LCSD 320-623619/3-B **Matrix: Air** Analysis Batch: 623809

Copper

Manganese

Analysis Batch: 623809							Prep Ba	tch: 62	23630
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.228		ug/m3 (Air)	_	95	86 - 111	1	15
Copper	0.240	0.238		ug/m3 (Air)		99	85 - 110	3	15
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110	3	15

0.240

0.240

# **Eurofins Sacramento**

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

102 85 - 110 104 88 - 110

# **QC Association Summary**

Client: GES-AIS, LLC Project/Site: Hunters Point, Parcel E, Phase 2 Job ID: 320-92806-1

# **Metals** Pre Prep Batch: 623619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	Filter to Air	
320-92806-3	GESPM090622-263	Total/NA	Air	Filter to Air	
320-92806-5	GESPM090622-264	Total/NA	Air	Filter to Air	
320-92806-7	GESPM090622-265	Total/NA	Air	Filter to Air	
MB 320-623619/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-623619/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-623619/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	
Prep Batch: 623630					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	3050B	623619
220 02006 2		Total/NIA	A :	20500	600640

320-92806-1	GESPM090622-262	Total/NA	Air	3050B	623619
320-92806-3	GESPM090622-263	Total/NA	Air	3050B	623619
320-92806-5	GESPM090622-264	Total/NA	Air	3050B	623619
320-92806-7	GESPM090622-265	Total/NA	Air	3050B	623619
MB 320-623619/1-B	Method Blank	Total/NA	Air	3050B	623619
LCS 320-623619/2-B	Lab Control Sample	Total/NA	Air	3050B	623619
LCSD 320-623619/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	623619
					_

#### Analysis Batch: 623809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	6020	623630
320-92806-3	GESPM090622-263	Total/NA	Air	6020	623630
320-92806-5	GESPM090622-264	Total/NA	Air	6020	623630
320-92806-7	GESPM090622-265	Total/NA	Air	6020	623630
MB 320-623619/1-B	Method Blank	Total/NA	Air	6020	623630
LCS 320-623619/2-B	Lab Control Sample	Total/NA	Air	6020	623630
LCSD 320-623619/3-B	Lab Control Sample Dup	Total/NA	Air	6020	623630

# **General Chemistry**

#### Pre Prep Batch: 623310

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
320-92806-2	GESTSP090622-262	Total/NA	Air	Filter to Air	
320-92806-4	GESTSP090622-263	Total/NA	Air	Filter to Air	
320-92806-6	GESTSP090622-264	Total/NA	Air	Filter to Air	
320-92806-8	GESTSP090622-265	Total/NA	Air	Filter to Air	

#### Analysis Batch: 625597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-2	GESTSP090622-262	Total/NA	Air	40CFR50 App B	623310
320-92806-4	GESTSP090622-263	Total/NA	Air	40CFR50 App B	623310
320-92806-6	GESTSP090622-264	Total/NA	Air	40CFR50 App B	623310
320-92806-8	GESTSP090622-265	Total/NA	Air	40CFR50 App B	623310

### Analysis Batch: 625612

Lab Sample ID 320-92806-1	Client Sample ID GESPM090622-262	Prep Type Total/NA	Matrix Air	Method	Prep Batch
320-92806-3	GESPM090622-263	Total/NA	Air	PM10	
320-92806-5	GESPM090622-264	Total/NA	Air	PM10	
320-92806-7	GESPM090622-265	Total/NA	Air	PM10	

Dil

1

1

Factor

Run

Initial

Amount

0.08333 Sample

0 g

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

Client Sample ID: GESPM090622-262

Batch

3050B

6020

**PM10** 

Method

Filter to Air

Batch

Туре

Prep

Pre Prep

Analysis

Analysis

Client Sample ID: GESTSP090622-262

Date Collected: 09/29/22 14:31

Date Received: 10/05/22 09:55

Date Collected: 09/29/22 14:31

Date Received: 10/05/22 09:55

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Job ID: 320-92806-1

# 9

Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

EET SAC

EET SAC

EET SAC

Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst			
Analysis Pre Prep	40CFR50 App B Filter to Air		1			625597 623310	10/06/22 14:30 10/07/22 16:29		EET SAC EET SAC		
ID: GES	ID: GESPM090622-263 Lab Sample ID: 320-92806-3										

Batch

Number

623619

623630

623809

625612

Prepared

or Analyzed

10/10/22 08:01

10/10/22 08:20

10/10/22 14:25

10/06/22 11:30

Lab Sample ID: 320-92806-2

Lab Sample ID: 320-92806-4

Lab Sample ID: 320-92806-5

Final

Amount

100 mL

0.0186 g

#### Client Sample ID: GESPM090622-263 Date Collected: 09/29/22 14:44 Date Received: 10/05/22 09:55

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623619	10/10/22 08:01		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	623630	10/10/22 08:20		EET SAC
Total/NA	Analysis	6020		1			623809	10/10/22 14:35		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0166 g	625612	10/06/22 11:30		EET SAC

#### Client Sample ID: GESTSP090622-263 Date Collected: 09/29/22 14:44 Date Received: 10/05/22 09:55

	Batch	Batch Method	Bun	Dil Factor	Initial Amount	Final	Batch	Prepared	Analyst	Lab
Prep Type Total/NA	Analysis	40CFR50 App B	Run	Factor	Amount	Amount	625597	or Analyzed 10/06/22 14:30	Analyst	EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC

#### Client Sample ID: GESPM090622-264 Date Collected: 10/04/22 06:39 Date Received: 10/05/22 09:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623619	10/10/22 08:01		EET SAC
Total/NA	Prep	3050B			0.08333	100 mL	623630	10/10/22 08:20		EET SAC
					Sample					
Total/NA	Analysis	6020		1			623809	10/10/22 14:38		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.1213 g	625612	10/06/22 11:30		EET SAC

Job ID: 320-92806-1

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-92806-6

Lab Sample ID: 320-92806-7

Lab Sample ID: 320-92806-8

#### Client Sample ID: GESTSP090622-264 Date Collected: 10/04/22 06:39 Date Received: 10/05/22 09:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared	A	1.4
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625597	10/06/22 14:30		EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC

#### Client Sample ID: GESPM090622-265 Date Collected: 10/04/22 06:28 Date Received: 10/05/22 09:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623619	10/10/22 08:01		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	623630	10/10/22 08:20		EET SAC
Total/NA	Analysis	6020		1			623809	10/10/22 14:41		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0360 g	625612	10/06/22 11:30		EET SAC

#### Client Sample ID: GESTSP090622-265 Date Collected: 10/04/22 06:28 Date Received: 10/05/22 09:55

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625597	10/06/22 14:30		EET SAC
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC

#### Laboratory References:

EET 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

### 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

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

-1	
_	
	5
	8
	9
	11

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

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:

EET 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

<mark>12</mark> 

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92806-1	GESPM090622-262	Air	09/29/22 14:31	10/05/22 09:55
320-92806-2	GESTSP090622-262	Air	09/29/22 14:31	10/05/22 09:55
320-92806-3	GESPM090622-263	Air	09/29/22 14:44	10/05/22 09:55
320-92806-4	GESTSP090622-263	Air	09/29/22 14:44	10/05/22 09:55
320-92806-5	GESPM090622-264	Air	10/04/22 06:39	10/05/22 09:55
320-92806-6	GESTSP090622-264	Air	10/04/22 06:39	10/05/22 09:55
320-92806-7	GESPM090622-265	Air	10/04/22 06:28	10/05/22 09:55
320-92806-8	GESTSP090622-265	Air	10/04/22 06:28	10/05/22 09:55

#### CHAIN-OF-CUSTODY RECORD



#### COC # KT100422AIRE



Page 1 of 1

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2						Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN										(EETN	Event: Parcel E Phase 2 Air			
Project Number: J310000400						POC: L										Monitoring				
WBS Code: J310000400-016						Shi	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605													
Comments: 320-92806 Chain of Custody Equipment:						CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu						A Code C	Matrix Air Container/Preservative ix Envelope, None					
Event: Parcel E Phase 2 Air Monitoring						1	1	1												
	Sample ID	Matrix	Date	Time	Samp Init.		0							L	ocation ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM090622-262	A	09/29/2022	1431		х		X						_	AMSE1	N2	0.00	0.00	1	VOLUME: 531.78 (M3)
2	GESTSP090622-262	A	09/29/2022	1431			X								AMSE1	N2	0.00	0.00	1	VOLUME: 512.88 (M3)
3	GESPM090622-263	A	09/29/2022	1444		х		X							AMSE2	N2	0.00	0.00	1	VOLUME: 577.09 (M3)
4	GESTSP090622-263	A	09/29/2022	1444			x								AMSE2	N2	0.00	0.00	1	VOLUME: 578.02 (M3)
5	GESPM090622-264	A	10/04/2022	0639		х		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1717.10 (M3)
6	GESTSP090622-264	A	10/04/2022	0639			X								AMSE1	N1	0.00	0.00	1	VOLUME: 1623.96 (M3)
7	GESPM090622-265	A	10/04/2022	0628		х		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1762.27 (M3)
8	GESTSP090622-265	A	10/04/2022	0628		-	X						1		AMSE2	N1	0.00	0.00	1	VOLUME: 1751.00 (M3)
9																				
10												1								
Tur	maround Time: 5 days																			

Relinguished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
1	10/4/22	1600	FEDEX	10/04/22	1000	Shipping Date: 10/4/2022 / FedEx 7700 9607 9315
	, ,			10-5-22	0955	
			· · · · · · · · · · · · · · · · · · ·		0.00	Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy\_COC\_Field October 04, 2022 19.2%

# Login Sample Receipt Checklist

#### Client: GES-AIS, LLC

#### Login Number: 92806 List Number: 1

Creator:

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

List Source: Eurofins Sacramento