

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

AIR MONITORING SUMMARY REPORT FOR PARCEL E REMEDIAL ACTION PHASE 2



SAN FRANCISCO, CALIFORNIA

October 1st, 2022 through October 31st, 2022

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HUNTERS POINT NAVAL SHIPYARD

SAN FRANCISCO, CALIFORNIA

October 1st, 2022 through October 31st, 2022

DCN: GLBN-0005-4332-0110

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 CTO _____ 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/cm³ _____ fibers per cubic centimeter Gilbane Gilbane Federal HPNS _____ Hunters Point Naval Shipyard L/min ______ liters per minute mg/m³ _____ 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/m³ _____ 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 October 1st, 2022 through October 31st, 2022 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

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

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2.0 Monitoring Site Locations

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/m³).

Table 4-1: Air Monitoring Threshold Criteria

Test Parameter	Threshold Criteria	Threshold Criteria Reference				
Asbestos	0.1 fiber/cm ³	Cal/OSHA PEL				
PM10 ^a	5,000 ug/m ³	Cal/OSHA PEL				
		Basewide HPNS Level selected to				
TSP	0.5 mg/m ³	minimize overall permissible dust release				
		from sites				
Copper	1.0 mg/m ³	Cal/OSHA PEL				
Lead	0.050 mg/m ³	Cal/OSHA PEL				
Manganese	0.200 mg/m ³	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.				

Notes:

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

fiber/cm³ = fibers per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m³ = 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

^a = The Cal/OSHA PEL for particulates not otherwise regulated (respiratory) is used for PM10 comparison. ug/m³ = micrograms per cubic meter

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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 October 1st, 2022 through October 31st, 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 October 1st, 2022 through October 31st, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from October 1st, 2022 through October 31st, 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 October 1st, 2022 through October 31st, 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 October 1st, 2022 through October 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from October 1st, 2022 through October 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 6**.

Analytical laboratory reports are included as **Attachment 7** and were subjected to cursory review by the Project Chemist. It was noted at sample receipt that the laboratory updated the sample nomenclature for filter naming to reflect the change in company name. No data quality issues were noted. The data should be considered usable for their intended purposes.

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5.0 Air Monitoring Results

6.0 References

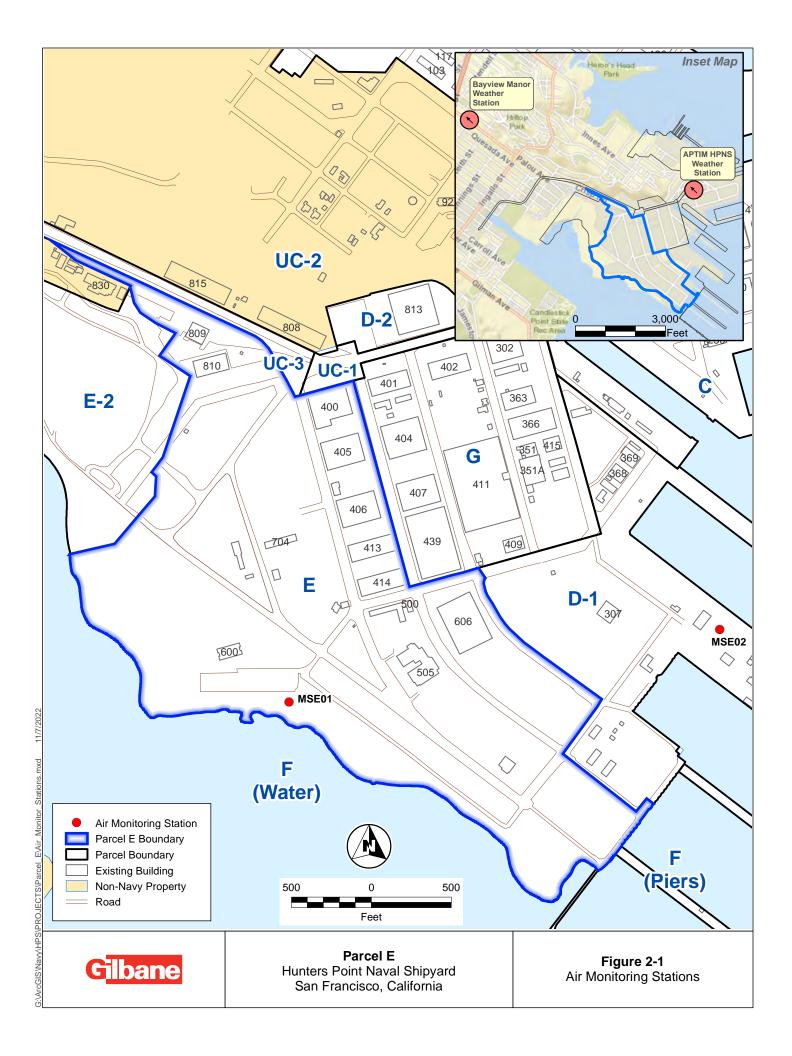
- Department of Toxic Substances Control (DTSC), 2017. Draft Technical Memorandum: Dust Action Levels for Parcel E, Hunters Point. May.
- National Institute for Occupational Safety and Health, (NIOSH), 1994. Manual of Analytical Methods.
- United States Environmental Protection Agency (EPA), 1999. Quality 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.

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6.0 References

FIGURES

Figures



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

Attachment 1

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

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
10/3/2022 ¹	30.10	61.91	W
10/4/2022 ¹	30.08	58.72	W
10/5/2022 ¹	30.07	58.81	W
10/6/2022 ¹	30.13	59.00	WNW
10/10/2022 ¹	30.04	56.15	WSW
10/11/2022 ²	30.00	56.80	WSW
10/12/2022 ²	30.08	57.44	WSW
10/13/2022 ²	30.06	57.43	WSW
10/17/2022 ²	30.03	61.84	SE
10/18/2022 ²	30.04	67.57	NW
10/19/2022 ²	30.00	66.05	WSW
10/20/2022 ²	29.97	58.79	WSW
10/24/2022 ¹	30.26	59.68	WSW
10/25/2022 ¹	30.17	55.61	W
10/26/2022 ¹	30.12	57.24	WSW
10/27/2022 ¹	30.14	59.21	SSW

Notes:

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

 $^{^{1}}$ Data collected using wunderground.com from APTIM HPNS Station - KCASANFR1504

 $^{^2\}mbox{Data}$ collected using wunderground.com from Bayview Manor - KCASANFR1775

ATTACHMENT 2 ASBESTOS MONITORING RESULTS

Attachment 2: Asbestos Monitoring Results

Sample, Date a	and Station I	nformation	Sampler Run	Information	Asbestos Fibers			
Sample ID	Sample Start Date ¹	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm³)	Exceedance (Yes/No)	
MSE01-100322	10/03/22	1	516	1032	18.0	0.009	No	
MSE02-100322	10/03/22	2	532	1064	5.0	< 0.003	No	
MSE01-100422	10/04/22	1	526	1052	8.5	0.004	No	
MSE02-100422	10/04/22	2	531	1062	6.0	0.003	No	
MSE01-100522	10/05/22	1	523	1046	6.0	0.003	No	
MSE02-100522	10/05/22	2	535	1070	7.0	0.003	No	
MSE01-100622	10/06/22	1	435	870	2.5	<0.003	No	
MSE02-100622	10/06/22	2	428	856	1.0	< 0.003	No	
MSE01-101022	10/10/22	1	528	1056	5.5	0.003	No	
MSE02-101022	10/10/22	2	527	1054	6.5	0.003	No	
MSE01-101122	10/11/22	1	518	1036	12.5	0.006	No	
MSE02-101122	10/11/22	2	521	1042	8.5	0.004	No	
MSE01-101222	10/12/22	1	518	1036	0.5	< 0.003	No	
MSE02-101222	10/12/22	2	515	1030	6.5	0.003	No	
MSE01-101322	10/13/22	1	464	928	1.0	< 0.003	No	
MSE02-101322	10/13/22	2	459	918	7.0	0.004	No	
MSE01-101722	10/17/22	1	465	930	4.0	< 0.003	No	
MSE02-101722	10/17/22	2	470	940	3.5	< 0.003	No	
MSE01-101822	10/18/22	1	549	1098	1.5	< 0.002	No	
MSE02-101822	10/18/22	2	558	1116	2.0	< 0.002	No	
MSE01-101922	10/19/22	1	532	1064	9.0	0.004	No	
MSE02-101922	10/19/22	2	516	1032	1.0	< 0.003	No	
MSE01-102022	10/20/22	1	414	828	4.5	< 0.003	No	
MSE02-102022	10/20/22	2	413	826	4.5	< 0.003	No	
MSE01-102422	10/24/22	1	519	1038	10.0	0.005	No	
MSE02-102422	10/24/22	2	536	1072	4.5	< 0.003	No	
MSE01-102522	10/25/22	1	541	1082	7.5	0.003	No	
MSE02-102522	10/25/22	2	542	1084	5.0	<0.002	No	
MSE01-102622	10/26/22	1	532	1064	5.5	0.003	No	
MSE02-102622	10/26/22	2	538	1076	3.0	< 0.003	No	
MSE01-102722	10/27/22	1	519	1038	5.0	<0.003	No	
MSE02-102722	10/27/22	2	523	1046	0.5	<0.003	No	
MSE01-103122	10/31/22	1	519	1038	5.0	< 0.003	No	
MSE02-103122	10/31/22	2	535	1070	2.0	< 0.003	No	
Notes:			•					

Notes

¹Sample "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/cm³ = fibers per cubic centimeter

< = below detection limit

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

Attachment 3

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

Sample, Date and Station Information			Sampler Run	PM10						
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m³)	Delta between Downwind and Upwind (ug/m³)	Cal/OSHA PEL (ug/m³)	Exceedance (Yes/No)	HERO Action Level ³ (ug/m ³)	Exceedance (Yes/No)
GESPM090622-264	1	10/04/22	1717.1	0.071						
GESPM090622-265	2	10/04/22	1762.27	0.02	-0.0510	-51.0	5,000	No	50	No
GESPM090622-266	1	10/05/22	1714.47	0.033						
GESPM090622-267	2	10/05/22	1755.4	0.025	-0.0080	-8.0	5,000	No	50	No
GESPM090622-268	1	10/06/22	1726.52	0.003						
GESPM090622-269	2	10/06/22	1748.73	0.01	0.0070	7.0	5,000	No	50	No
GESPM090622-270	1	10/6/22 ²	495.5	0.019						
GESPM091422-271	2	10/6/22 ²	511.12	0.011	-0.0080	-8.0	5,000	No	50	No
GESPM091422-272	1	10/11/22	1654.56	0.013						
GESPM091422-273	2	10/11/22	1746.72	0.0099	-0.0031	-3.1	5,000	No	50	No
GESPM091422-274	1	10/12/22	1708.8	0.037						
GESPM091422-275	2	10/12/22	1762.89	0.014	-0.0230	-23.0	5,000	No	50	No
GESPM091422-276	1	10/13/22	1707.63	0.02						
GESPM091422-277	2	10/13/22	1737.47	0.011	-0.0090	-9.0	5,000	No	50	No
GESPM091422-278	1	10/13/22 ²	541.52	0.013 J						
GESPM091422-279	2	10/13/22 ²	555.95	0.009	-0.0040	-4.0	5,000	No	50	No
GESPM091422-280	1	10/18/22	1695.45	0.027						
GESPM091422-281	2	10/18/22	1764.97	0.021	-0.0060	-6.0	5,000	No	50	No
GESPM091422-282	1	10/19/22	1745.47	0.034						
GESPM091422-283	2	10/19/22	1779.71	0.027	-0.0070	-7.0	5,000	No	50	No
GESPM091422-284	1	10/20/22	1720.57	0.031						
GESPM091422-285	2	10/20/22	1750.65	0.02	-0.0110	-11.0	5,000	No	50	No
GESPM091422-286	1	10/20/22 ²	481.74	0.025						
GESPM091422-287	2	10/20/22 ²	492.35	0.019	-0.0060	-6.0	5,000	No	50	No
GESPM091422-288	1	10/25/22	1675.09	0.029						
GESPM100322-361	2	10/25/22	1755.85	0.013	-0.0160	-16.0	5,000	No	50	No
GESPM100322-362	1	10/26/22	1715.94	0.039						
GESPM100322-363	2	10/26/22	1753.5	0.024	-0.0150	-15.0	5,000	No	50	No
GESPM100322-364	1	10/27/22	1695.24	0.04						
GESPM100322-365	2	10/27/22	711.25 ⁴	0.029	-0.0110	-11.0	5,000	No	50	No
GESPM100322-366	1	10/27/22 ²	593.09	0.03						
GESPM100322-367	2	10/27/22 ²	609.62	0.02	-0.0100	-10.0	5,000	No	50	No

Notes:

³PM10 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.

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

 m^3 = cubic meters

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter smaller than 10 microns in diameter

ug/m³ = micrograms per cubic meter

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

²Air sample was taken down during the afternoon after field activities ceased.

⁴ Generator malfunction

ATTACHMENT 4 COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Attachment 4

Attachment 4: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information		Sampler Run Information	Copper		Lead		Manganese		
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Exceedance (Yes/No)	Concentration in Air (mg/m³)	Exceedance (Yes/No)	Concentration in Air (mg/m³)	Exceedance (Yes/No)
GESPM090622-264	1	10/04/22	1717.1	0.000077	No	0.000012	No	0.000031	No
GESPM090622-265	2	10/04/22	1762.27	0.00002	No	0.0000019	No	0.0000058	No
GESPM090622-266	1	10/05/22	1714.47	0.000024	No	0.0000026	No	0.0000072	No
GESPM090622-267	2	10/05/22	1755.4	0.000013	No	0.0000011	No	0.0000041	No
GESPM090622-268	1	10/06/22	1726.52	0.000015	No	0.00000077	No	0.0000015	No
GESPM090622-269	2	10/06/22	1748.73	0.000011	No	0.00000089	No	0.0000033	No
GESPM090622-270	1	10/6/22 ²	495.5	0.00007	No	0.000005	No	0.000012	No
GESPM091422-271	2	10/6/22 ²	511.12	0.000095	No	0.0000037	No	0.0000072	No
GESPM091422-272	1	10/11/22	1654.56	0.000049	No	0.0000025	No	0.0000052	No
GESPM091422-273	2	10/11/22	1746.72	0.000019	No	0.0000046	No	0.0000061	No
GESPM091422-274	1	10/12/22	1708.8	0.00013	No	0.000014	No	0.000043	No
GESPM091422-275	2	10/12/22	1762.89	0.000023	No	0.0000025	No	0.0000046	No
GESPM091422-276	1	10/13/22	1707.63	0.000098	No	0.0000033	No	0.0000081	No
GESPM091422-277	2	10/13/22	1737.47	0.000019	No	0.0000027	No	0.0000047	No
GESPM091422-278	1	10/13/22 ²	541.52	0.00012	No	0.0000048	No	0.0000092	No
GESPM091422-279	2	10/13/22 ²	555.95	0.000033	No	0.0000042	No	0.000006	No
GESPM091422-280	1	10/18/22	1695.45	0.000095	No	0.0000041	No	0.000011	No
GESPM091422-281	2	10/18/22	1764.97	0.000036	No	0.0000025	No	0.0000061	No
GESPM091422-282	1	10/19/22	1745.47	0.00021	No	0.0000041	No	0.000017	No
GESPM091422-283	2	10/19/22	1779.71	0.000062	No	0.0000027	No	0.000013	No
GESPM091422-284	1	10/20/22	1720.57	0.000097	No	0.0000046	No	0.000018	No
GESPM091422-285	2	10/20/22	1750.65	0.000019	No	0.0000037	No	0.00001	No
GESPM091422-286	1	10/20/22 ²	481.74	0.00009	No	0.0000061	No	0.000016	No
GESPM091422-287	2	10/20/22 ²	492.35	0.000044	No	0.0000045	No	0.0000095	No
GESPM091422-288	1	10/25/22	1675.09	0.00011	No	0.0000073	No	0.00002	No
GESPM100322-361	2	10/25/22	1755.85	0.000019	No	0.0000021	No	0.0000064	No
GESPM100322-362	1	10/26/22	1715.94	0.00014	No	0.0000062	No	0.000017	No
GESPM100322-363	2	10/26/22	1753.5	0.000016	No	0.0000024	No	0.000005	No
GESPM100322-364	1	10/27/22	1695.24	0.00017	No	0.0000075	No	0.000018	No
GESPM100322-365	2	10/27/22	711.25 ³	0.000041	No	0.0000031	No	0.0000093	No
GESPM100322-366	1	10/27/22 ²	593.09	0.00016	No	0.0000063	No	0.000019	No
GESPM100322-367	2	10/27/22 ²	609.62	0.00018	No	0.000003	No	0.0000077	No

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

< = below detection limit

Notes:

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

 $^{^2\}mbox{Air}$ sample was taken down during the afternoon after field activities ceased.

³ Generator malfunction

 $[\]boldsymbol{J}$ = estimated concentration. See data review report for details.

ATTACHMENT 5 TOTAL SUSPENDED PARTICULATES MONITORING RESULTS

Attachment 5

Attachment 5: Total Suspended Particulates Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Total Suspended Particulates			
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concentration in Air (mg/m³)	Delta between Downwind and Upwind (mg/m ³)	Basewide HPNS Level (mg/m³)	Exceedance (Yes/No)
GESTSP090622-264	1	10/04/22	1623.96	0.0828			
GESTSP090622-265	2	10/04/22	1751.00	0.0321	-0.051	0.5	No
GESTSP090622-266	1	10/05/22	1643.58	0.0420			
GESTSP090622-267	2	10/05/22	1762.44	0.0364	-0.006	0.5	No
GESTSP090622-268	1	10/06/22	1657.21	0.0352			
GESTSP090622-269	2	10/06/22	1769.22	0.0218	-0.013	0.5	No
GESTSP090622-270	1	10/6/22 ²	475.77	0.0486			
GESTSP091422-271	2	10/6/22 ²	511.73	0.0211	-0.0275	0.5	No
GESTSP091422-272	1	10/11/22	1577.11	0.0237			
GESTSP091422-273	2	10/11/22	1734.89	0.0274	0.004	0.5	No
GESTSP091422-274	1	10/12/22	1639.06	0.0645			
GESTSP091422-275	2	10/12/22	1766.48	0.0438	-0.021	0.5	No
GESTSP091422-276	1	10/13/22	1624.49	0.0394			
GESTSP091422-277	2	10/13/22	1741.14	0.0350	-0.004	0.5	No
GESTSP091422-278	1	10/13/22 ²	518.15	0.0103 J			
GESTSP091422-279	2	10/13/22 ²	555.85	0.0306	0.0203	0.5	No
GESTSP091422-280	1	10/18/22	1619.45	0.0357			
GESTSP091422-281	2	10/18/22	1745.43	0.0324	-0.003	0.5	No
GESTSP091422-282	1	10/19/22	1659.65	0.0468			
GESTSP091422-283	2	10/19/22	1779.66	0.0442	-0.0026	0.5	No
GESTSP091422-284	1	10/20/22	1636.71	0.0447			
GESTSP091422-285	2	10/20/22	1753.4	0.0299	-0.0148	0.5	No
GESTSP091422-286	1	10/20/22 ²	460.42	0.0332			
GESTSP091422-287	2	10/20/22 ²	490.90	0.0342	0.0010	0.5	No
GESTSP091422-288	1	10/25/22	1599.97	0.0447			
GESTSP100322-361	2	10/25/22	1746.73	0.0177	-0.027	0.5	No
GESTSP100322-362	1	10/26/22	1648.33	0.0623			
GESTSP100322-363	2	10/26/22	1764.12	0.0400	-0.022	0.5	No
GESTSP100322-364	1	10/27/22	1525.01	0.0574			
GESTSP100322-365	2	10/27/22	709.23 ³	0.0472	-0.010	0.5	No
GESTSP100322-366	1	10/27/22 ²	568.10	0.0364			
GESTSP100322-367	2	10/27/22 ²	611.08	0.0388	0.002	0.5	No

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

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

m³ = cubic meters

mg/m³ = milligrams per cubic meter

Notes:

Air sample was not collected on days with rain or when contaminated soil was not disturbed.

 $^{^2\}mbox{Air}$ sample was taken down during the afternoon after field activities ceased.

³ Generator malfunction

ATTACHMENT 6 AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

Attachment 6



AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information						Effluent Air Concentration				Sampling Period			Color Codes									
				,	nation					Effluent	Air Con		1									
Contract /	Task Order Numbe	,	tle / Locati			GES Project Nun	nber:					Alpha	Beta	Air s	amples coll	ected				ent Conc (i.		
N62473	3-17-D-0005 / F433	HPNS P	arcel E Ph	ase 2 RA / Sa	in Francisco, CA	J3	10000400			Radi	onuclide	Ra-226	Sr-90	between	03 Oct 202	2		Value > 0).1 x Efflue	ent Conc (i.	e., > 10%)	
		Info	ormation et	ffective as of:	07 Nov 2022				E1	fluent Conc	(μCi/ml)	9.E-13	6.E-12	and	31 Oct 202	2		Value :	> Effluent	Conc (i.e., :	> 100%)	
			,	Sample Colle	ction							Count	Informatio	n				Sample	Results		Init	tials
Sample	Sample	Sample	Equip	Ave Flow	Start	End	Elapsed	Volume	Inst	Count	Time	Counting	Gross	Activity	Net	dpm	Activity	(µCi/ml)	Effluent	Conc (%)	Count	Data
Number	Type	Location	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-0705	Perimeter	MSE01	PE13	50	10/3/22 6:50	10/3/22 15:26	516	2.6E+07	В	10/11/22	1	cpm	0.10	5.25	0.0	8.8	0.0E+00	1.5E-13	0.0%	2.6%	DFB	BCS
AS-0706	Perimeter	MSE02	PE14	50	10/3/22 6:40	10/3/22 15:29	529	2.6E+07	В	10/11/22	1	cpm	0.15	5.05	0.2	8.3	2.9E-15	1.4E-13	0.3%	2.3%	DFB	BCS
AS-0707	Perimeter	MSE01	PE13	50	10/4/22 3:25	10/4/22 15:25	720	3.6E+07	В	10/11/22	1	cpm	0.10	4.00	0.0	5.2	0.0E+00	6.5E-14	0.0%	1.1%	DFB	BCS
AS-0708	Perimeter	MSE02	PE14	50	10/4/22 3:20	10/4/22 15:27	727	3.6E+07	В	10/11/22	1	cpm	0.05	5.10	-0.2	8.4	N/A	1.0E-13	N/A	1.7%	DFB	BCS
AS-0709	Perimeter	MSE01	PE13	50	10/5/22 3:30	10/5/22 15:25	715	3.6E+07	В	10/11/22	1	cpm	0.15	4.50	0.2	6.7	2.1E-15	8.4E-14	0.2%	1.4%	DFB	BCS
AS-0710	Perimeter	MSE02	PE14	50	10/5/22 3:25	10/5/22 15:29	724	3.6E+07	В	10/11/22	1	cpm	0.25	4.60	0.5	7.0	6.3E-15	8.7E-14	0.7%	1.4%	DFB	BCS
AS-0711	Perimeter	MSE01	PE13	50	10/6/22 3:15	10/6/22 13:40	625	3.1E+07	В	10/11/22	1	cpm	0.10	4.20	0.0	5.8	0.0E+00	8.4E-14	0.0%	1.4%	DFB	BCS
AS-0712	Perimeter	MSE02	PE14	50	10/6/22 3:10	10/6/22 13:49	639	3.2E+07	В	10/11/22	1	cpm	0.10	4.45	0.0	6.5	0.0E+00	9.2E-14	0.0%	1.5%	DFB	BCS
AS-0713	Perimeter	MSE01	PE13	50	10/10/22 7:00	10/10/22 15:16	496	2.5E+07	В	10/17/22	1	cpm	0.30	3.60	0.7	4.1	1.2E-14	7.4E-14	1.4%	1.2%	DFB	BCS
AS-0714	Perimeter	MSE02	PE14	50	10/10/22 7:00	10/10/22 15:20	500	2.5E+07	В	10/17/22	1	cpm	0.15	3.80	0.2	4.6	3.0E-15	8.4E-14	0.3%	1.4%	DFB	BCS
AS-0715	Perimeter	MSE01	PE13	50	10/11/22 4:20	10/11/22 15:20	660	3.3E+07	В	10/17/22	1	cpm	0.15	6.50	0.2	12.5	2.3E-15	1.7E-13	0.3%	2.8%	DFB	BCS
AS-0716	Perimeter	MSE02	PE14	50	10/11/22 4:15	10/11/22 15:22	667	3.3E+07	В	10/17/22	1	cpm	0.25	6.15	0.5	11.4	6.8E-15	1.5E-13	0.8%	2.6%	DFB	BCS
AS-0717	Perimeter	MSE01	PE13	50	10/12/22 4:05	10/12/22 15:15	670	3.3E+07	В	10/17/22	1	cpm	0.20	5.35	0.3	9.1	4.5E-15	1.2E-13	0.5%	2.0%	DFB	BCS
AS-0718	Perimeter	MSE02	PE14	50	10/12/22 4:00	10/12/22 15:33	693	3.5E+07	В	10/17/22	1	cpm	0.15	5.25	0.2	8.8	2.2E-15	1.1E-13	0.2%	1.9%	DFB	BCS
AS-0719	Perimeter	MSE01	PE13	50	10/13/22 4:20	10/13/22 13:56	576	2.9E+07	В	10/17/22	1	cpm	0.30	4.75	0.7	7.4	1.1E-14	1.2E-13	1.2%	1.9%	DFB	BCS
AS-0720	Perimeter	MSE02	PE14	50	10/13/22 4:15	10/13/22 14:00	585	2.9E+07	В	10/17/22	1	cpm	0.35	4.50	0.8	6.7	1.3E-14	1.0E-13	1.4%	1.7%	DFB	BCS
AS-0721	Perimeter	MSE01	PE13	50	10/17/22 6:40	10/17/22 13:56	436	2.2E+07	В	10/24/22	1	cpm	0.20	4.40	0.3	6.4	7.0E-15	1.3E-13	0.8%	2.2%	DFB	BCS
AS-0722	Perimeter	MSE02	PE14	50	10/17/22 6:50	10/17/22 14:12	442	2.2E+07	В	10/24/22	1	cpm	0.10	4.00	0.0	5.2	0.0E+00	1.1E-13	0.0%	1.8%	DFB	BCS
AS-0723	Perimeter	MSE01	PE13	50	10/18/22 3:30	10/18/22 15:43	733	3.7E+07	В	10/24/22	1	cpm	0.10	0.50	0.0	-4.9	0.0E+00	N/A	0.0%	N/A	DFB	BCS
AS-0724	Perimeter	MSE02	PE14	50	10/18/22 3:25	10/18/22 15:49	744	3.7E+07	В	10/24/22	1	cpm	0.25	5.05	0.5	8.3	6.1E-15	1.0E-13	0.7%	1.7%	DFB	BCS
AS-0725	Perimeter	MSE01	PE13	50	10/19/22 3:25	10/19/22 15:04	699	3.5E+07	В	10/24/22	1	cpm	0.05	5.45	-0.2	9.4	N/A	1.2E-13	N/A	2.0%	DFB	BCS
AS-0726	Perimeter	MSE02	PE14	50	10/19/22 3:20	10/19/22 15:07	707	3.5E+07	В	10/24/22	1	cpm	0.05	5.80	-0.2	10.4	N/A	1.3E-13	N/A	2.2%	DFB	BCS
AS-0727	Perimeter	MSE01	PE13	50	10/20/22 3:25	10/20/22 13:44	619	3.1E+07	В	10/24/22	1	cpm	0.15	4.85	0.2	7.7	2.5E-15	1.1E-13	0.3%	1.9%	DFB	BCS
AS-0728	Perimeter	MSE02	PE14	50	10/20/22 3:20	10/20/22 13:49	629	3.1E+07	В	10/24/22	1	cpm	0.10	4.60	0.0	7.0	0.0E+00	1.0E-13	0.0%	1.7%	DFB	BCS
AS-0729	Perimeter	MSE01	PE13	50	10/24/22 6:40	10/24/22 15:21	521	2.6E+07	В	10/31/22	1	cpm	0.15	4.25	0.2	5.9	2.9E-15	1.0E-13	0.3%	1.7%	JSV	BCS
AS-0730	Perimeter	MSE02	PE14	50	10/24/22 7:00	10/24/22 15:23	503	2.5E+07	В	10/31/22	1	cpm	0.15	4.25	0.2	5.9	3.0E-15	1.1E-13	0.3%	1.8%	JSV	BCS
AS-0731	Perimeter	MSE01	PE13	50	10/25/22 3:35	10/25/22 15:56	741	3.7E+07	В	10/31/22	1	cpm	0.15	3.90	0.2	4.9	2.0E-15	6.0E-14	0.2%	1.0%	JSV	BCS
AS-0732	Perimeter	MSE02	PE14	50	10/25/22 3:30	10/25/22 15:27	717	3.6E+07	В	10/31/22	1	cpm	0.05	3.95	-0.2	5.1	N/A	6.4E-14	N/A	1.1%	JSV	BCS
AS-0733	Perimeter	MSE01	PE13	50	10/26/22 4:20	10/26/22 15:34	674	3.4E+07	В	10/31/22	1	cpm	0.05	5.55	-0.2	9.7	N/A	1.3E-13	N/A	2.2%	JSV	BCS
AS-0734	Perimeter	MSE02	PE14	50	10/26/22 4:15	10/26/22 15:37	682	3.4E+07	В	10/31/22	1	cpm	0.20	4.20	0.3	5.8	4.4E-15	7.7E-14	0.5%	1.3%	JSV	BCS
AS-0735	Perimeter	MSE01	PE13	50	10/27/22 6:45	10/27/22 15:12	507	2.5E+07	В	10/31/22	1	cpm	0.35	4.30	0.8	6.1	1.5E-14	1.1E-13	1.7%	1.8%	JSV	BCS
AS-0736	Perimeter	MSE02	PE14	50	10/27/22 4:20	10/27/22 15:21	661	3.3E+07	В	10/31/22	1	cpm	0.25	4.65	0.5	7.1	6.9E-15	9.7E-14	0.8%	1.6%	JSV	BCS
AS-0737	Perimeter	MSE01	PE13	50	10/31/22 6:55	10/31/22 15:25	510	2.5E+07	В	11/07/22	1	cpm	0.15	5.15	0.2	8.6	3.0E-15	1.5E-13	0.3%	2.5%	JSV	BCS
AS-0738	Perimeter	MSE02	PE14	50	10/31/22 6:40	10/31/22 15:22	522	2.6E+07	В	11/07/22	1	cpm	0.20	4.95	0.3	8.0	5.8E-15	1.4E-13	0.6%	2.3%	JSV	BCS

RP 05-2 (Jul 2022) Page 1 of 1

ATTACHMENT 7 LABORATORY REPORTS

Attachment 7

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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:

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 10/05/2022 14:46

P.O.#.:

J310000400-0015

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-092922	9/29/2022 14:31	Cassette	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



Vice President Operations

Title:

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

10/12/2022

Page 1 of 5 Report Number: RPT221012045



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 - /	ASRC Industrial		Project: HPI	NS Parcel E I	Phase II :	31000040	00				ı	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)



Sample Condition Checklist

A&I	B JobID : 22100424	Date Received : 10/05/2022 Time Received : 2	:46PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 19.9°C	Sample pH: n/a			
The	ermometer ID : IR4	pH Paper ID: n/a			
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.				Χ
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.	х				
8.	Water Soil Liquid Slu	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	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	es requested.	Х		
15.	Samples were received with in the hold	I time.	Х		
16.	VOA vials completely filled.				Х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			Х
	nments: Include actions taken to resol cooler was received, however samples are re				
INO (ooier was received, nowever samples are r	Eceived III a DUX WILII a CUSLOUY Seal. 10-3-22			

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

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilba	ne												Cl	nair	1-0	f-Cust	ody	,
Project Name and	d Number:	HPNS Parcel E	Phase II I	3100004	00		Labor	atory N	ame:	A&B Lab	s					10	/04/2022	
Project Manager							Addre			ast Fwy St	e. 100	Contact	Name:		V.	Page: 1	of _1	
Site Location: I	Iunters Poin	t, San Francisc	o, CA 94	124				H	ouston	TX 77029								
				1				-	Analys	is:						1		
Job ID:	22100	1424		1	-	_			-	-						-		
	- ASRC Indus			Sample Depth (top)	Sample Depth (bottom)	No. of Containers	atrix	Asbestos		TOTAL STREET,								
				leD	le D	CO	le M	Preser	rvative							Flow Rate	= 2 L/mii	n
Sample 1	ID	Date	Time	Samp	Samp	No. o	Sample Matrix	Contai	ner Type Ler	е.						Special Instr Total Time		nments
/ISE01-092922	OIA	09/29/2022	1431	NA	NA	1	AA	X								451	(11011)	
/ISE02-092922	020	09/29/2022	1454	NA	NA	1	AA	Х								482		
MSE01-100322	034	10/03/2022	1531	NA	NA	1	AA	X								516		
MSE02-100322	048	10/03/2022	1526	NA	NA	1	AA	X								532		
				1						-			-					
									I	10/4/20								
				1					-	1-1-1						-		
																1		
Sampled By:		1		1	Sample													
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Signature:				_ [remiquis	neu b	y/Atmie	tuon.	-7		Date:	Time:	Received	By/ Affilia	ition:		Date:	Time:
pecial Instructions				_			FE	Dex	7	10-5	10/4/2	1600	F	EDEX		10-	5-22	144
Send Results to:							4,00											400
Turnaround Time:	Standard			-													-	

TEMP Page 4 pt 59 C IRI

200 FISHER STREET

SHIP DATE: 04OCT22 ACTWGT: 1.00 LB CAD: 254128867/INET4530

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Job ID: 22100665



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:

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 10/07/2022 02:44

P.O.#.:

J310000400-0015

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-100422	10/4/2022 15:22	Cassette	22100665.01
MSE02-100422	10/4/2022 15:17	Cassette	22100665.02
MSE01-100522	10/5/2022 15:18	Cassette	22100665.03
MSE02-100522	10/5/2022 15:22	Cassette	22100665.04

Released By:
Title: Vice President Operations

Analyst:

Report Number: RPT221014092

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ab-q210-0321

10/14/2022

Page 1 of 5



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & R ENVIRONMENTAL SERVIC

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC. AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 10/14/202

Job ID: 22100665

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPN	NS Parcel E F	Phase II :	31000040	00				ı	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
22100665.01	MSE01-100422	10/04/2022	Area	2			526	1052	100	8.5	10.828	0.004		10/14/22	
22100665.02	MSE02-100422	10/04/2022	Area	2			531	1062	100	6	7.643	0.003		10/14/22	
22100665.03	MSE01-100522	10/05/2022	Area	2			523	1046	100	6	7.643	0.003		10/14/22	
22100665.04	MSE02-100522	10/05/2022	Area	2			535	1070	100	7.0	8.917	0.003		10/14/22	

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)



Sample Condition Checklist

Client Name : GES - ASRC Industrial Temperature : 26.9 °C Sample pH : NA Thermometer ID : IR4 per servative : Check Points Check Points Yes No N 1. Cooler Seal present and signed. 2. Sample(s) in a cooler. 3. If yes, ice in cooler. 4. Sample(s) received with chain-of-custody. 5. C-O-C signed and dated. 6. Sample(s) received with signed sample custody seal. 7. Sample containers arrived intact. (If No comment) 8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other 9. Sample(s) were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. 13. Bottle count on C-O-C matches bottles found. 14. Sample volume is sufficient for analyses requested.	I/A
Thermometer ID: IR4 Perservative: Check Points Yes No	I/A
Check Points Check Points Yes No	I/A
Check Points Check Points Yes No	I/A
1. Cooler Seal present and signed. X 2. Sample(s) in a cooler. X 3. If yes, ice in cooler. X 4. Sample(s) received with chain-of-custody. X 5. C-O-C signed and dated. X 6. Sample(s) received with signed sample custody seal. X 7. Sample containers arrived intact. (If No comment) X 8. Matrix:	I/A
2. Sample(s) in a cooler. 3. If yes, ice in cooler. 4. Sample(s) received with chain-of-custody. 5. C-O-C signed and dated. 6. Sample(s) received with signed sample custody seal. 7. Sample containers arrived intact. (If No comment) 8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other 9. Samples were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. 13. Bottle count on C-O-C matches bottles found.	
3. If yes, ice in cooler. 4. Sample(s) received with chain-of-custody. 5. C-O-C signed and dated. 6. Sample(s) received with signed sample custody seal. 7. Sample containers arrived intact. (If No comment) 8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other 9. Samples were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. 13. Bottle count on C-O-C matches bottles found.	
4. Sample(s) received with chain-of-custody. 5. C-O-C signed and dated. 6. Sample(s) received with signed sample custody seal. 7. Sample containers arrived intact. (If No comment) 8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other 9. Samples were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. X 12. Sample ID labels match C-O-C ID's. X 13. Bottle count on C-O-C matches bottles found.	
5. C-O-C signed and dated. 6. Sample(s) received with signed sample custody seal. 7. Sample containers arrived intact. (If No comment) 8. Matrix:	Χ
6. Sample(s) received with signed sample custody seal. 7. Sample containers arrived intact. (If No comment) 8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other 9. Samples were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. 13. Bottle count on C-O-C matches bottles found.	
7. Sample containers arrived intact. (If No comment) 8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other 9. Samples were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. 13. Bottle count on C-O-C matches bottles found.	
8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other 9. Samples were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. X X X III. Bottle count on C-O-C matches bottles found.	
8. Matrix: 9. Samples were received in appropriate container(s) 10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. 13. Bottle count on C-O-C matches bottles found.	
10. Sample(s) were received with Proper preservative 11. All samples were tagged or labeled. 12. Sample ID labels match C-O-C ID's. 13. Bottle count on C-O-C matches bottles found.	
11. All samples were tagged or labeled. X 12. Sample ID labels match C-O-C ID's. X 13. Bottle count on C-O-C matches bottles found. X	
12. Sample ID labels match C-O-C ID's. X 13. Bottle count on C-O-C matches bottles found. X	Х
13. Bottle count on C-O-C matches bottles found.	
14. Sample volume is sufficient for analyses requested.	
15. Samples were received with in the hold time.	
16. VOA vials completely filled.	Χ
17. Sample accepted. X	
18. Has client been contacted about sub-out	Χ
Comments: Include actions taken to resolve discrepancies/problem: No cooler was received, however samples are received in a box with a custody seal. Cassette=Black cassettes. 10/07/22	
The cooler was received, however samples are received in a box with a custody seal. Cassette-black cassettes.	

Received by: Check in by/date: / 10/07/2022

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane												Ch	ain	-Of	-Cust	ody	
Project Name and Number: Project Manager: Site Location: Hunters Point	HPNS Parcel E			00		abora Addres		0100 East F louston TX			Contact N	ame			10/0 Page:_1	06/2022 _of _1	
								Analysis	1								
Job ID:22		Тіте	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Non	irvative: ue liner Type: I t e r						C I I I I I I I I I I I I I I I I I I I	Flow Rate Special Instru Total Time (ctions/Com	
MSE01-100422	10/04/2022	1522	NA	NA	1	AA	X								526		
UIV	10/04/2022	1517	NA	NA	1	AA	X								531		
NW	10/05/2022	1518	NA	NA	1	AA	x				1				523		
MSE01-100522	10/05/2022	1522	NA	NA	1	AA	Х								535		
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			1	Sample	0.5	1						Courier/Ai	rhill No : 1	FedEx/ 7	701 2138 2840		_
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Client Project Name :

HPNS Parcel E Phase II J310000400

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:
 10/13/2022 08:58

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

Report To:

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-100622	10/6/2022 13:53	Cassette	22101101.01
MSE02-100622	10/6/2022 13:39	Cassette	22101101.02
MSE01-101022	10/10/2022 15:21	Cassette	22101101.03
MSE02-101022	10/10/2022 15:27	Cassette	22101101.04

Released By:

Vice President Operations

Title:

Analyst:



Report Number: RPT221020064

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ab-q210-0321



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 10/20/202

Job ID: 22101101

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPN	NS Parcel E F	Phase II I	31000040	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
22101101.01	MSE01-100622	10/06/2022	Area	2			435	870	100	2.5	3.185	< 0.003		10/20/22	
22101101.02	MSE02-100622	10/06/2022	Area	2			428	856	100	1	1.274	< 0.003		10/20/22	
22101101.03	MSE01-101022	10/10/2022	Area	2			528	1056	100	5.5	7.006	0.003		10/20/22	
22101101.04	MSE02-101022	10/10/2022	Area	2			527	1054	100	6.5	8.280	0.003		10/20/22	

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)



Sample Condition Checklist

A&I	B JobID : 22101101	Date Received: 10/13/2022 Time Received: 8:	58AM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 22.2°C	Sample pH: NA			
The	ermometer ID : IR4	pH Paper ID: NA			
Pe	rservative :		1	ı	
		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.				Χ
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	Idge Solid Cassette Tube Bulk Badge Food Other			
9.	Samples were received in appropriate	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	es requested.	Х		
15.	Samples were received with in the hold	I time.	Х		
16.	VOA vials completely filled.				Χ
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			Х
	mments: Include actions taken to resol	ve discrepancies/problem: eceived in a box with a custody seal. Received samples in black cassettes. ~	10/13/	2022	
INO (was received, nowever samples are in	eccived in a box with a custody seal. Received samples in black cassettes. ~	10/13/	LU LL	

Received by: Check in by/date: // 10/13/2022

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gibane Project Name and Number		Phase II J3	1000040	00	1	.abora	tory N	ame:	A&B	Labs					10/	11/2022	
Project Manager:						ddres			ast Fw	y Ste.	100	Contact N	Name:		Page: 1	of _1_	
Site Location: Hunters P	oint, San Francisco	, CA 941	24					oustor									
7,000			1					Analy	sis:						-		
Job ID:2210		Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	iner Ty	pe:						Flow Rate	ictions/Com	
	Da		Sa	-		-	F	ilt	er		4				Total Time	(min)	
MSE01-100622	10/06/2022	1353	NA	NA	1	AA	X							-	428		
LA MSE02-100622	10/06/2022	1339	NA	NA	1	AA	X								528		
3A MSE01-101022	10/10/2022	1521	NA	NA	1	AA	X			-	-				527		
UA MSE02-101022	10/10/2022	1527	NA	NA	1	AA	X								1021		
			1	1		1									1		
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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

GES - ASRC Industrial Report To: Total Number of Pages: 5 Client Name:

Attn:

P.O.#.: J310000400-0015 Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 10/14/2022 15:08

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By:

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-101122	10/11/2022 15:26	Cassette	22101353.01
MSE02-101122	10/11/2022 15:19	Cassette	22101353.02
MSE01-101222	10/12/2022 15:27	Cassette	22101353.03
MSE02-101222	10/12/2022 15:16	Cassette	22101353.04

Released By:

Analyst:

Title: Vice President Operations

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10/21/2022

Page 1 of 5 Report Number: RPT221021029



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT NALYSIS CONDUCTED BY A S. P. ENVIRONMENTAL SERV

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC. AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 10/21/202

Job ID: 22101353

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPN	NS Parcel E F	Phase II :	31000040	00				ı	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
22101353.01	MSE01-101122	10/11/2022	Area	2			518	1036	100	12.5	15.924	0.006		10/21/22	
22101353.02	MSE02-101122	10/11/2022	Area	2			521	1042	100	8.5	10.828	0.004		10/21/22	
22101353.03	MSE01-101222	10/12/2022	Area	2			518	1036	100	0.5	0.637	< 0.003		10/21/22	
22101353.04	MSE02-101222	10/12/2022	Area	2			515	1030	100	6.5	8.280	0.003		10/21/22	

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)



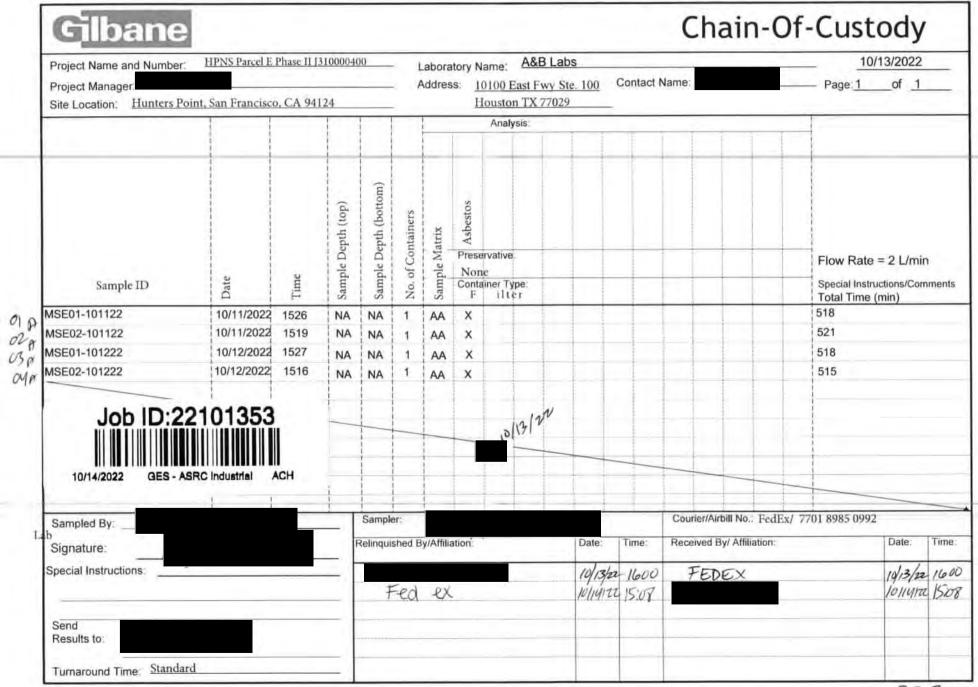
Sample Condition Checklist

A&I	ne Received : 3:08PM				
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 22.3°C	Sample pH: NA			
The	ermometer ID : IR4	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.	X				
5.	Х				
6.	Sample(s) received with signed sample	e custody seal.		Х	
7.	Sample containers arrived intact. (If N	o comment)	X		
8.	Water Soil Liquid Slu	udge Solid Cassette Tube Bulk Badge	Food Other		
9.	Samples were received in appropriate	container(s)	X		
10.	Sample(s) were received with Proper p	reservative			Х
11.	All samples were tagged or labeled.		X		
12.	Sample ID labels match C-O-C ID's.		X		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analyse	es requested.	Х		
15.	Samples were received with in the hold	I time.	Х		
16.	VOA vials completely filled.				Х
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			Х
	nments: Include actions taken to resol	ve discrepancies/problem: eceived in a box with a custody seal. Cassette=Black Casse	etts. 10/17/22		
	inesis. The received, notices sumples die in	and the second section of the section of t	10/1/22		

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Job ID: 22101735



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

GES - ASRC Industrial Report To: Total Number of Pages: 5 Client Name:

Attn:

P.O.#.: J310000400-0015 Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 10/19/2022 15:35

City, State, Zip: Tempe, Arizona, 85282

Sample Collected By:

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-101322	10/13/2022 14:19	Cassette	22101735.01
MSE02-101322	10/13/2022 14:04	Cassette	22101735.02
MSE01-101722	10/17/2022 14:22	Cassette	22101735.03
MSE02-101722	10/17/2022 14:15	Cassette	22101735.04

Released By:

Vice President Operations

Title:

Analyst:

Report Number: RPT221026031

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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 10/26/202

Job ID: 22101735

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPN	NS Parcel E I	Phase II :	31000040	00				ļ	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
22101735.01	MSE01-101322	10/13/2022	Area	2			464	928	100	1.0	1.274	< 0.003		10/21/22	
22101735.02	MSE02-101322	10/13/2022	Area	2			459	918	100	7.0	8.917	0.004		10/21/22	
22101735.03	MSE01-101722	10/17/2022	Area	2			465	930	100	4.0	5.096	< 0.003		10/21/22	
22101735.04	MSE02-101722	10/17/2022	Area	2			470	940	100	3.5	4.459	< 0.003		10/21/22	

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)



Sample Condition Checklist

A&I	A&B JobID : 22101735 Date Received : 10/19/2022 Time Received : 3										
Clie	ent Name : GES - ASRC Industrial										
Ten	nperature : 22.0°C	Sample pH: NA									
The	rmometer ID : IR4	pH Paper ID: NA									
Pe	rservative :										
		Check Points		Yes	No	N/A					
1.	Cooler Seal present and signed.			Χ							
2.	Sample(s) in a cooler.				Χ						
3.				Χ							
4.		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 N	comment)		Х							
8.	Water Soil Liquid Slu	dge Solid Cassette Tube Bulk Badge	e Food Other								
9.	Samples were received in appropriate	container(s)		Χ							
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.		Χ							
14.	Sample volume is sufficient for analyse	s requested.		Х							
15.	Samples were received with in the hold	I time.		Х							
16.	VOA vials completely filled.					Χ					
17.	Sample accepted.			Χ							
18. Has client been contacted about sub-out											
	nments: Include actions taken to resol	ve discrepancies/problem: received in a box with a custody seal. Received black ca	ssettes. ~ 10/19/202	2							
NO	cooici was received, nowever samples are i	eccived iii a box with a custody seal. Received black ca	10/19/202	.4							
<u> </u>											

Received by: Check in by/date: / 10/19/2022

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

	Gilbane												Chain-	Of	-Cust	ody	
1	Project Name and Number:	HPNS Parcel E	Phase II J3	100004	00		abora	atory N	ame:	A&B L	abs				10/	18/2022	
	Project Manage						Addres			East Fwy	Ste. 100	Contact N	lame:		— Page: 1	_of _1	
-	Site Location: Hunters Poin	t, San Francisco	o, CA 941	24				E	lousto	n TX 770	129	-					
1				1					Anal	ysis:		-					
	Job ID:2210		Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	ervative e iner Ty i I t	ype:					Flow Rate : Special Instru Total Time (i	ctions/Con	
A	MSE01-101322	10/13/2022	1419	NA	NA	1	AA	X							464	may	
	MSE02-101322	10/13/2022	1404	NA	NA	1	AA	X							459		
	MSE01-101722	10/17/2022	1422	NA	NA	1	AA	X							465		
	MSE02-101722	10/17/2022	1415	NA	NA	1	AA	X							470		
				i			1	1/4/3	20						-		
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					Relinqui	shed E	By/Affili	iation:			Date:	Time:	Received By/ Affiliatio	n:		Date:	Time:
	Signature:			_		31/2-2-2	•										
	Special Instructions:			-	-						10/18/	15:35	FEDEX			10/18/22	1600
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	Send Results to:					-											
	Turnaround Time: Standard																



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Job ID: 22102017



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: 10/21/2022 15:35

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

Title:

Vice President Operations

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-101822	10/18/2022 15:48	Cassette	22102017.01
MSE02-101822	10/18/2022 15:43	Cassette	22102017.02
MSE01-101922	10/19/2022 15:24	Cassette	22102017.03
MSE02-101922	10/19/2022 15:18	Cassette	22102017.04

Released By:	Analyst:	

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ab-q210-0321



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 10/28/202

Job ID: 22102017

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
22102017.01	MSE01-101822	10/18/2022	Area	2			549	1098	100	1.5	1.911	< 0.002		10/24/22	
22102017.02	MSE02-101822	10/18/2022	Area	2			558	1116	100	2	2.548	< 0.002		10/24/22	
22102017.03	MSE01-101922	10/19/2022	Area	2			532	1064	100	9.0	11.465	0.004		10/24/22	
22102017.04	MSE02-101922	10/19/2022	Area	2			516	1032	100	1	1.274	< 0.003		10/24/22	

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)



Sample Condition Checklist

A&B JobID: 22102017 Date Received: 10/21/2022 Time Received: 3:3										
Clie	ent Name : GES - ASRC Industrial									
Ter	nperature : 22.1°C	Sample pH: NA								
The	ermometer ID : IR4	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	e custody seal.		Х						
7.	Sample containers arrived intact. (If N	o comment)	Х							
8.	Water Soil Liquid Slu	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 hold	l time.	Х							
16.	VOA vials completely filled.				Х					
17.	Sample accepted.		Х							
18.	Has client been contacted about sub-o	ut			Х					
	mments: Include actions taken to resol	<u> </u>								
INO (cooler was received, however samples are r	eceived in a box with a custody seal. ~ 10/21/22								

Received by: Check in by/date: / 10/21/2022

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Gilbane											Chain-	Of-Cu	stody	
Project Name and Number Project Manager: Site Location: Hunters Point	HPNS Parcel E			00		Labora	ss: 1	0100 East Fwy Sto Iouston TX 77029	e. 100	Contact N	ame:	——— Page	10/20/2022 :1 of 1	
								Analysis:						
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	No	ervative: te ainer Type: i Iter				Specia	Rate = 2 L/mir I Instructions/Con Time (min)	
MSE01-101822	10/18/2022	1548	NA	NA	1	AA	X					549		
MSE02-101822	10/18/2022	1543	NA	NA	1	AA	X					558		
MSE01-101922	10/19/2022	1524	NA	NA	1	AA	×					532		
MSE02-101922	10/19/2022	1518	NA	NA	1	AA	X					516		
Job ID:22	102017	ACH						0/20/22						
	T.		1	Sampl	er.	1					Courier/Airbill No.: F	edEx/ 7702 517	5 5957	
Sampled By			-	Relinqui		Rv/Affili	ation		Date:	Time	Received By/ Affiliation	The second	Date:	Time:
Signature:			_ [temiqu	Siled I	ojn um	appir			7.00-5-	11.00		-	
Special Instructions.				Ŧ	=ed	ex			10/20 2	3:35	FEDEX		10,202	3:35
Send Results to:														
Turnaround Time: Standard			_											



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Job ID: 22102404



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:

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 10/26/2022 15:15

P.O.#.:

J310000400-0015

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-102022	10/20/2022 13:33	Cassette	22102404.01
MSE02-102022	10/20/2022 13:21	Cassette	22102404.02
MSE01-102422	10/24/2022 15:33	Cassette	22102404.03
MSE02-102422	10/24/2022 15:27	Cassette	22102404.04

Released By:			Analyst:	
Title:	Vice President Operations	3		

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ab-q210-0321

Report Number: RPT221102022



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 11/2/2022

Job ID: 22102404

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial	Project: HPNS Parcel E Phase II J310000400							ı	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
22102404.01	MSE01-102022	10/20/2022	Area	2			414	828	100	4.5	5.732	< 0.003		11/02/22	
22102404.02	MSE02-102022	10/20/2022	Area	2			413	826	100	4.5	5.732	< 0.003		11/02/22	
22102404.03	MSE01-102422	10/24/2022	Area	2			519	1038	100	10	12.739	0.005		11/02/22	
22102404.04	MSE02-102422	10/24/2022	Area	2			536	1072	100	4.5	5.732	< 0.003		11/02/22	

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)



Received by:

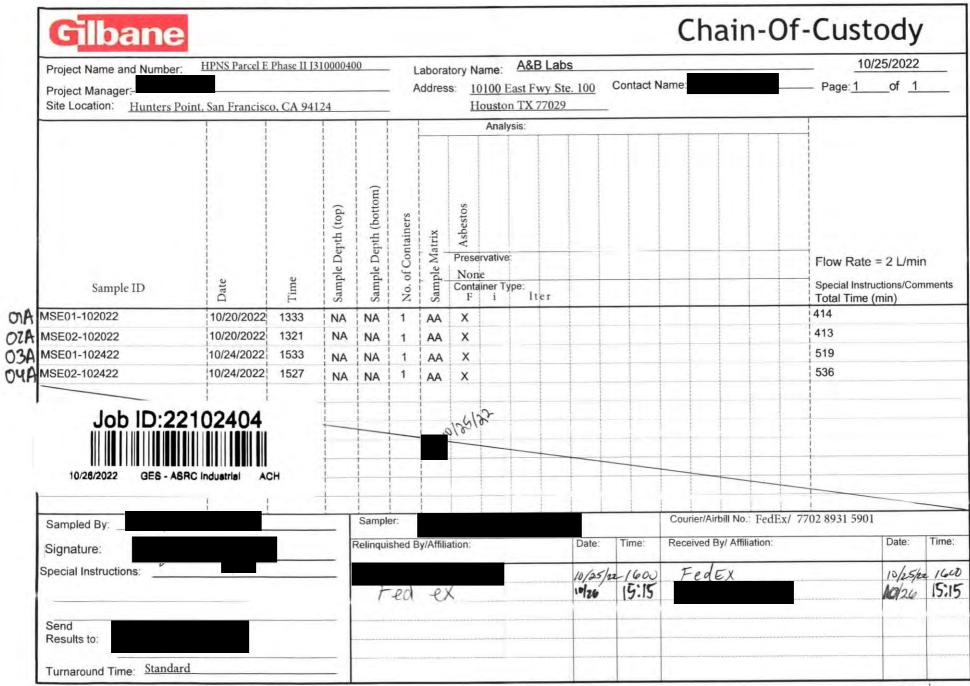
Sample Condition Checklist

A&	&B JobID: 22102404 Date Received: 10/26/2022 Time Received: 3:1									
Clie	Client Name : GES - ASRC Industrial									
Temperature : 22.1°C Sample pH : NA										
The										
Pe	rservative :									
	Yes	No	N/A							
1.	1. Cooler Seal present and signed.									
2.	2. Sample(s) in a cooler.									
3.	3. If yes, ice in cooler.									
4.	Х									
5.	5. C-O-C signed and dated.									
6.	6. Sample(s) received with signed sample custody seal.									
7.	7. Sample containers arrived intact. (If No comment)									
8. Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other										
9. Samples were received in appropriate container(s)										
10. Sample(s) were received with Proper preservative						Х				
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. VOA vials completely filled.						Х				
17. Sample accepted.										
18. Has client been contacted about sub-out						Χ				
Comments: Include actions taken to resolve discrepancies/problem: Samples were received in black cassettes. No cooler was received, however samples are received in a box with a custody seal. 10/26/2022										
10/20/2022										

ab-s005-0321

Phone: 713-453-6060 www.ablabs.com

Check in by/date : / 10/26/2022



SHIP DATE: 25OCT22 ACTWGT: 1.00 LB CAD: 254128867/INET4530

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A & B LABS 10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

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Laboratory Analysis Report

Job ID: 22102679



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 J1310000400

Report To: Client Name: GES - ASRC Industrial Total Number of Pages: 5

Attn:

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 10/28/2022 15:47

P.O.#.:

J310000400-0015

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-102522	10/25/2022 15:36	Cassette	22102679.01
MSE02-102522	10/25/2022 15:31	Cassette	22102679.02
MSE01-102622	10/26/2022 15:44	Cassette	22102679.03
MSE02-102622	10/26/2022 15:39	Cassette	22102679.04

Released By:		Analyst:
Title:	Vice President Operations	

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ab-q210-0321

Report Number: RPT221104030



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERV

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC. AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 11/4/2022

Job ID: 22102679

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPI	oject: HPNS Parcel E Phase II J1310000400							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
22102679.01	MSE01-102522	10/25/2022	Area	2			541	1082	100	7.5	9.554	0.003		11/02/22	
22102679.02	MSE02-102522	10/25/2022	Area	2			542	1084	100	5	6.369	< 0.002		11/02/22	
22102679.03	MSE01-102622	10/26/2022	Area	2			532	1064	100	5.5	7.006	0.003		11/02/22	
22102679.04	MSE02-102622	10/26/2022	Area	2			538	1076	100	3	3.822	< 0.003		11/02/22	

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



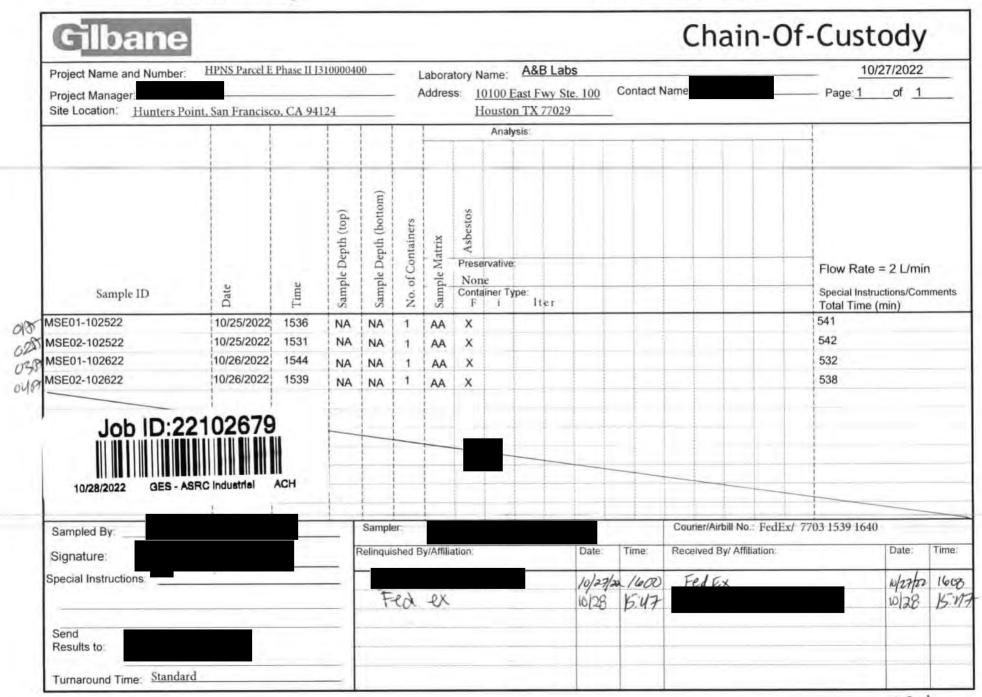
Sample Condition Checklist

A&I	3 JobID : 22102679	Date Received: 10/28/2022 Time Received: 3:4	47PM					
Clie	Client Name : GES - ASRC Industrial							
	nperature : 22.1°C	Sample pH: NA						
	ermometer ID : IR4	pH Paper ID: NA						
	rservative :							
		Check Points	Yes	No	N/A			
		CHECK POINTS	163	140	11/ A			
1.	Cooler Seal present and signed.		Х					
2.	Sample(s) in a cooler.			Χ				
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.	6. Sample(s) received with signed sample custody seal.							
7.	7. Sample containers arrived intact. (If No comment)							
8.	Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other Matrix:							
9.	Samples were received in appropriate container(s) X							
10.	0. Sample(s) were received with Proper preservative							
11.	1. All samples were tagged or labeled.							
12.	12. Sample ID labels match C-O-C ID's. X							
13.	13. Bottle count on C-O-C matches bottles found.							
14.	Sample volume is sufficient for analyse	es requested.	Х					
15.	Samples were received with in the hold	d time.	Х					
16.	6. VOA vials completely filled.							
17.	17. Sample accepted.							
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. Cassette=Black cassette. 10/28/22								

Received by: Check in by/date: / 10/28/2022

ab-s005-0321

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Laboratory Analysis Report

Job ID: 22110307



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:

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 11/02/2022 15:07

P.O.#.:

J310000400-0015

City, State, Zip: Tempe, Arizona, 85282 Sample Collected By :

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-102722	10/27/2022 15:17	Cassette	22110307.01
MSE02-102722	10/27/2022 15:11	Cassette	22110307.02
MSE01-103122	10/31/2022 15:33	Cassette	22110307.03
MSE02-103122	10/31/2022 15:22	Cassette	22110307.04

Released By:			Analyst:
Title:	Vice President Operation	ons	

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ab-q210-0321

Report Number: RPT221109023



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT NALYSIS CONDUCTED BY A S. P. ENVIRONMENTAL SERV

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC. AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080

Date 11/9/2022

Job ID: 22110307

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPI	oject: 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 Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22110307.01	MSE01-102722	10/27/2022	Area	2			519	1038	100	5	6.369	< 0.003		11/03/22	
22110307.02	MSE02-102722	10/27/2022	Area	2			523	1046	100	0.5	0.637	< 0.003		11/03/22	
22110307.03	MSE01-103122	10/31/2022	Area	2			519	1038	100	5	6.369	< 0.003		11/03/22	
22110307.04	MSE02-103122	10/31/2022	Area	2			535	1070	100	2	2.548	< 0.003		11/03/22	

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



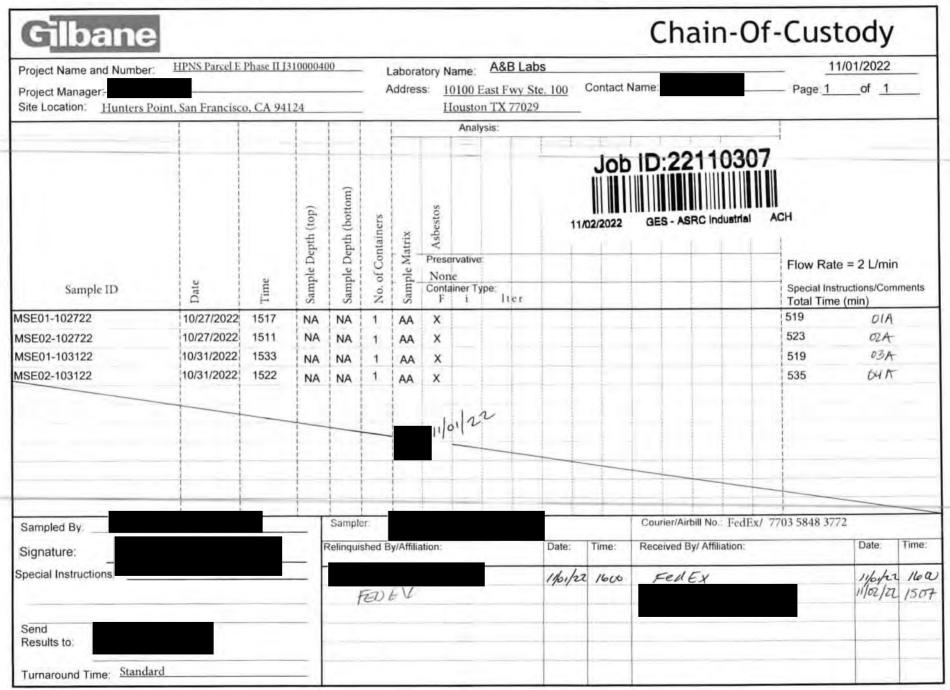
Sample Condition Checklist

A&I	B JobID : 22110307	Date Received : 11/02/2022 Time Received : 3:	07PM					
Clie	nt Name : GES - ASRC Industrial							
Ter	Femperature : 23.3°C Sample pH : NA							
The	hermometer ID : IR4 pH Paper ID : NA							
Pe	rservative :		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.	6. Sample(s) received with signed sample custody seal.							
7.	7. Sample containers arrived intact. (If No comment)							
8.	Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other Matrix:							
9.). Samples were received in appropriate container(s)							
10.	0. Sample(s) were received with Proper preservative							
11.	1. All samples were tagged or labeled.							
12.	2. Sample ID labels match C-O-C ID's.							
13.	13. Bottle count on C-O-C matches bottles found.							
14.	Sample volume is sufficient for analyse	es requested.	Х					
15.	15. Samples were received with in the hold time.							
16.	6. VOA vials completely filled.							
17.	17. Sample accepted.							
18.	Has client been contacted about sub-o	ut			Х			
	nments: Include actions taken to resol	we discrepancies/problem: ver samples are received in a box with a custody seal. ~ 11/02/22						
טומנ	Coussettes. No cooler was received, flower	ver sumples are received in a box with a custody seal. 11/02/22						

Received by: Check in by/date: / 11/02/2022

ab-s005-0321

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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: 320-92806-1

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

For:

eurofins 💸

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



Authorized for release by: 10/19/2022 10:43:51 AM

, Project Manager I

Designee for

, Project Manager I

.....LINKS

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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

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

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

Table of Contents

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Definitions/Glossary

Client: GES-AIS, LLC Job ID: 320-92806-1

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

Qualifiers

M	eta	Is

Qualifier **Qualifier Description**

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

Duplicate Error Ratio (normalized absolute difference) **DER**

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)

Estimated Detection Limit (Dioxin) **EDL** 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 MLMinimum 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**

Relative Error Ratio (Radiochemistry) **RER**

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

Page 3 of 16

Case Narrative

Client: GES-AIS, LLC Job ID: 320-92806-1

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

Job ID: 320-92806-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92806-1

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.

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Client: GES-AIS, LLC Job ID: 320-92806-1

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

Client Sample ID: 0	GESPM090622-262
---------------------	-----------------

Lab Sample ID: 320-92806-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Me	hod	Prep Type
Lead	0.0032	0.0023	0.00034	ug/m3 (Air)	1	602	0	Total/NA
Copper	0.10	0.0045	0.00034	ug/m3 (Air)	1	602	0	Total/NA
Manganese	0.010	0.0023	0.00032	ug/m3 (Air)	1	602	0	Total/NA
Particulate Matter as PM 10	35	0.94	0.94	ug/m3	1	PM	10	Total/NA

Client Sample ID: GESTSP090622-262

Lab Sample ID: 320-92806-2

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

Client Sample ID: GESPM090622-263

Lab Sample ID: 320-92806-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017	J	0.0021	0.00031	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.078		0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0035		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.87	0.87	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-263

Lab Sample ID: 320-92806-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	34.6009	0.8650	0.8650 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-264

Lab Sample ID: 320-92806-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D I	Method	Prep Type
Lead	0.012	0.00070	0.00010	ug/m3 (Air)	1	_ 6	6020	Total/NA
Copper	0.077	0.0014	0.00010	ug/m3 (Air)	1	6	6020	Total/NA
Manganese	0.031	0.00070	0.000098	ug/m3 (Air)	1	6	6020	Total/NA
Particulate Matter as PM 10	71	0.29	0.29	ug/m3	1	F	PM10	Total/NA

Client Sample ID: GESTSP090622-264

Lab Sample ID: 320-92806-6

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

Client Sample ID: GESPM090622-265

Lab Sample ID: 320-92806-7

Analyte	Result Qualifier	RL	MDL	Unit	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

Client Sample ID: GESTSP090622-265

Lab Sample ID: 320-92806-8

	Describ Occalificati	D.	DI 11-14	D'I E D	N . 41I	D T	
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type	
Total Suspended Particulates	32 0959	0.2856	0.2856 ug/m3 (Air)	1	40CFR50 App B	Total/NA	

This Detection Summary does not include radiochemical test results.

10/19/2022

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-92806-1

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

Client Sample ID: GESPM090622-262

Lab Sample ID: 320-92806-1 Date Collected: 09/29/22 14:31

Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

Method: SW846 6020 -								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032	0.0023	0.00034	ug/m3 (Air)	_	10/10/22 08:20	10/10/22 14:25	1
Copper	0.10	0.0045	0.00034	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	Rosult	Qualifier	RL	RL	Unit	n	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35	Qualifier	0.94		ug/m3		riepaieu	10/06/22 11:30	1
(40CFR50J PM10)					•				

Client Sample ID: GESTSP090622-262 Lab Sample ID: 320-92806-2

Date Collected: 09/29/22 14:31 Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

General Chemistry	- "					_			
Analyte	Result	Qualifier	RL	RL	Unit	D	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

Lab Sample ID: 320-92806-3 Client Sample ID: GESPM090622-263

Date Collected: 09/29/22 14:44 Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

Method: SW846 6020 - Me	etals (ICP/MS)								
Analyte	Result 0	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017 J	J	0.0021	0.00031	ug/m3 (Air)	_	10/10/22 08:20	10/10/22 14:35	1
Copper	0.078		0.0042	0.00031	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:35	1
Manganese	0.0035		0.0021	0.00029	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:35	1

General Guernisu y							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29	0.87	0.87 ug/m3			10/06/22 11:30	1
(40CFR50J PM10)							

Client Sample ID: GESTSP090622-263 Lab Sample ID: 320-92806-4

Date Collected: 09/29/22 14:44 Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

General Chemistry Analyte	Result C	Qualifier	RL	RL	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

10/19/2022

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-92806-1

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

Client Sample ID: GESPM090622-264

Lab Sample ID: 320-92806-5 Date Collected: 10/04/22 06:39

Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

Method: SW846 6020 - I	Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.012	0.00070	0.00010	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:38	1
Copper	0.077	0.0014	0.00010	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 0.29 71 0.29 ug/m3 10/06/22 11:30 (40CFR50J PM10)

Client Sample ID: GESTSP090622-264 Lab Sample ID: 320-92806-6

Date Collected: 10/04/22 06:39 Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

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

Lab Sample ID: 320-92806-7 Client Sample ID: GESPM090622-265

Date Collected: 10/04/22 06:28 Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0019	0.00068	0.00010	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:41	1
Copper	0.020	0.0014	0.00010	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:41	1
Manganese	0.0058	0.00068	0.000095	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:41	1

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Particulate Matter as PM 10 0.28 20 0.28 ug/m3 10/06/22 11:30 (40CFR50J PM10)

Lab Sample ID: 320-92806-8 Client Sample ID: GESTSP090622-265

Date Collected: 10/04/22 06:28 Matrix: Air

Date Received: 10/05/22 09:55 Sample Container: Folder/Filter

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analvzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	32.0959		0.2856		ug/m3 (Air)	- = -		10/06/22 14:30	1

10/19/2022

QC Sample Results

Client: GES-AIS, LLC Job ID: 320-92806-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-623619/1-B

Analysis Batch: 623809

Matrix: Air

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 623630

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)	_	10/10/22 08:20	10/10/22 14:15	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:15	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/10/22 08:20	10/10/22 14:15	1

Lab Sample ID: LCS 320-623619/2-B

Matrix: Air

Analysis Batch: 623809

MR MR

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

Prep Batch: 623630

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 0.246 ug/m3 (Air) 102 85 - 110 Copper 0.240 0.251 ug/m3 (Air) 104 88 - 110 Manganese

Lab Sample ID: LCSD 320-623619/3-B

Matrix: Air

Analysis Batch: 623809

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 623630

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec 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 0.240 0.243 ug/m3 (Air) 101 Manganese 88 - 110 3 15

QC Association Summary

Client: GES-AIS, LLC Job ID: 320-92806-1

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

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
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	Prep Type	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92806-1	GESPM090622-262	Total/NA	Air	PM10	
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	

Eurofins Sacramento

Page 9 of 16 10/19/2022

Matrix: Air

Lab Sample ID: 320-92806-1

Client Sample ID: GESPM090622-262

Date Collected: 09/29/22 14:31 D

Client: GES-AIS, LLC

Date Receive	d: 10/05/22 0	9:55									_
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Pre Pren	Filter to Air					623619	10/10/22 08:01		FFT SAC	-

	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 14:25		EET SAC	
Total/NA	Analysis	PM10		1	0 g	0.0186 g	625612	10/06/22 11:30		EET SAC	

Client Sample ID: GESTSP090622-262

Date Collected: 09/29/22 14:31 Date Received: 10/05/22 09:55 Lab Sample ID: 320-92806-2 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			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: GESPM090622-263

Date Collected: 09/29/22 14:44 Date Received: 10/05/22 09:55

Lab Sample ID: 320-92806-3 Matrix: Air

Lab Sample ID: 320-92806-4

Lab Sample ID: 320-92806-5

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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

Matrix: Air Date Received: 10/05/22 09:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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: GESPM090622-264

Date Collected: 10/04/22 06:39 Date Received: 10/05/22 09:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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

Eurofins Sacramento

Matrix: Air

Lab Chronicle

Client: GES-AIS, LLC Job ID: 320-92806-1

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

Client Sample ID: GESTSP090622-264

Lab Sample ID: 320-92806-6

Date Collected: 10/04/22 06:39 Matrix: Air Date Received: 10/05/22 09:55

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

Client Sample ID: GESPM090622-265

Lab Sample ID: 320-92806-7 Date Collected: 10/04/22 06:28 Matrix: Air

Date Received: 10/05/22 09:55

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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

Lab Sample ID: 320-92806-8 Date Collected: 10/04/22 06:28 Matrix: Air

Date Received: 10/05/22 09:55

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	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 Job ID: 320-92806-1

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

Laboratory: Eurofins Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date
ANAB	De	pt. of Defense ELAP	L2468	01-20-24
Oregon	NE	LAP	4040	01-29-23
The following analyte:	s are included in this repo	rt, but the laboratory is not	certified by the governing authority.	This list may include analytes for w
The following analytes the agency does not o	•	rt, but the laboratory is not	certified by the governing authority.	This list may include analytes for w
• • •	•	rt, but the laboratory is not Matrix	certified by the governing authority. Analyte	This list may include analytes for w
the agency does not o	offer certification.	•	, , ,	

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Method Summary

Client: GES-AIS, LLC

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

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

Protocol References:

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

None = None

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

Laboratory References:

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

Job ID: 320-92806-1

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Sample Summary

Client: GES-AIS, LLC Job ID: 320-92806-1

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

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

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CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clavton Road Suite 1050, Concord, CA 94520

COC# KT100422AIRE



Pro	ject Name: Hunters Point S	hipyard,	Parcel E RA PI	nase 2		Lab	orat	ory:	EURO	OFIN:	SEN	VIRC	MMC	EN'	T TESTING NORTHERN	CALIFORN	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	Rive	rside	Park	way,	We	st Sa	acramento, CA 95605				1	
	320-92806 Chain of d	Custody			Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu							Code Matrix A Air Code Container/Preservat 1 1x Envelope, None	ve				
	Event: Parcel E Phase 2 Air	Monitorin	ıg		1 4	1	1	1												
1 2 3 4 5	Sample ID GESPM090622-262 GESTSP090622-262 GESPM090622-263 GESTSP090622-263	Matrix A A A	Date 09/29/2022 09/29/2022 09/29/2022 09/29/2022 10/04/2022	Time 1431 1431 1444 1444 0639	Samp Init.	X	x	x x							Location ID AMSE1 AMSE1 AMSE2 AMSE2 AMSE1	Sample Type N2 N2 N2 N2 N2 N2 N2 N1		(ft bgs) Bottom 0.00 0.00 0.00 0.00 0.00	Cooler 1 1 1 1 1 1	Comments VOLUME: 531.78 (M3) VOLUME: 512.88 (M3) VOLUME: 577.09 (M3) VOLUME: 578.02 (M3) VOLUME: 1717.10 (M3)
6	GESTSP090622-264	A	10/04/2022	0639		Ĥ	Х	Ĥ	+	+					AMSE1	N1	0.00	0.00	1	VOLUME: 1623.96 (M3)
7 8 9	GESPM090622-265 GESTSP090622-265	A	10/04/2022	0628 0628		X	X	Х					9	भ	AMSE2 AMSE2	N1 N1	0.00	0.00	1	VOLUME: 1762.27 (M3) VOLUME: 1751.00 (M3)
10																				
Tur	naround Time: 5 days											4								
Rel	inquished by: (Signature)	/	Date (10/4/2)	Time //600	Receive FE			igna	ture)						Date Time 0/04/22 1/000 0 5 72 0 955		ate: 10/4	//2022 /	FedEx 77	mber 200 9607 9315 e, Date, Time) & condition

GES.Navy_COC_Field October 04, 2022

14.2'

























Client: GES-AIS, LLC Job Number: 320-92806-1

Login Number: 92806

List Source: Eurofins Sacramento

List Number: 1
Creator:

orditor.		
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	



Environment Testing

America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-92949-1

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

For:

eurofins 💸

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



Authorized for release by: 10/20/2022 3:59:43 PM

Project Manager I

Designee for

, Project Manager I



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.....LINKS

Review your project results through

EOL

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

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

Client: GES-AIS, LLC

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

Laboratory Job ID: 320-92949-1

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Definitions/Glossary

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Glossary

LOD

LOQ

Ciossaiy	
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)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

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

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Case Narrative

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Job ID: 320-92949-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-92949-1

Receipt

The samples were received on 10/7/2022 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 19.8° C.

Metals

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

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Client: GES-AIS, LLC Job ID: 320-92949-1

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

Cheff Sample ID. GESPN090622-200	Client Sami	ple ID:	GESPM090622-266
----------------------------------	-------------	---------	-----------------

Lab Sample ID: 320-92949-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0026	0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.024	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0072	0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	33	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP090622-266

_						
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	42.0424	0.3042	0.3042 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-267

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011	0.00068	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.013	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0041	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: GESTSP090622-267

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.3700		0.2837	0.2837	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-268

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00077		0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.015		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0015		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	3.0		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP090622-268

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	35.1796	0.3017	0.3017 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM090622-269

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00089	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	0.0033	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: GESTSP090622-269

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	21 8175	0.2826	0.2826 ug/m3 (Air)	1 40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

10/20/2022

Lab Sample ID: 320-92949-2

Lab Sample ID: 320-92949-3

Lab Sample ID: 320-92949-4

Lab Sample ID: 320-92949-5

Lab Sample ID: 320-92949-6

Lab Sample ID: 320-92949-7

Lab Sample ID: 320-92949-8

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Client Sample ID: GESPM090622-266

Lab Sample ID: 320-92949-1

Date Collected: 10/05/22 06:36 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00070	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:18	1
Copper	0.024		0.0014	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:18	1
Manganese	0.0072		0.00070	0.000098	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:18	1

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 33 0.29 ug/m3 10/11/22 13:00 (40CFR50J PM10)

Client Sample ID: GESTSP090622-266 Lab Sample ID: 320-92949-2

Date Collected: 10/05/22 06:36 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac **Total Suspended Particulates** 0.3042 0.3042 ug/m3 (Air) 10/11/22 13:00 42.0424 (EPA 40CFR50 App B)

Client Sample ID: GESPM090622-267 Lab Sample ID: 320-92949-3

Date Collected: 10/05/22 06:27 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011	0.00068	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:28	1
Copper	0.013	0.0014	0.00010	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:28	1
Manganese	0.0041	0.00068	0.000096	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:28	1

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed 0.28 Particulate Matter as PM 10 25 0.28 ug/m3 10/11/22 13:00 (40CFR50J PM10)

Lab Sample ID: 320-92949-4 Client Sample ID: GESTSP090622-267

Date Collected: 10/05/22 06:27 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	36.3700		0.2837	0.2837	ug/m3 (Air)			10/11/22 13:00	1

10/20/2022

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Client Sample ID: GESPM090622-268

Lab Sample ID: 320-92949-5

Date Collected: 10/06/22 06:46 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Lead	0.00077	0.00070	0.00010 ug/m3 (Air)		10/13/22 07:45	10/13/22 17:31	1
	Copper	0.015	0.0014	0.00010 ug/m3 (Air)		10/13/22 07:45	10/13/22 17:31	1

0.00070 0.000097 ug/m3 (Air) Manganese 10/13/22 07:45 10/13/22 17:31 0.0015 **General Chemistry**

Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 3.0 0.29 ug/m3 10/11/22 13:00 (40CFR50J PM10)

Client Sample ID: GESTSP090622-268 Lab Sample ID: 320-92949-6

Date Collected: 10/06/22 06:46 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.3017 0.3017 ug/m3 (Air) 10/11/22 13:00 35.1796 (EPA 40CFR50 App B)

Client Sample ID: GESPM090622-269 Lab Sample ID: 320-92949-7

Date Collected: 10/06/22 06:33 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac 10/13/22 07:45 10/13/22 17:35 Lead 0.00089 0.00069 0.00010 ug/m3 (Air) Copper 0.0014 0.00010 ug/m3 (Air) 10/13/22 07:45 10/13/22 17:35 0.011 0.00069 0.000096 ug/m3 (Air) 10/13/22 07:45 10/13/22 17:35 Manganese 0.0033

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed 0.29 Particulate Matter as PM 10 10 0.29 ug/m3 10/11/22 13:00 (40CFR50J PM10)

Lab Sample ID: 320-92949-8 Client Sample ID: GESTSP090622-269

Date Collected: 10/06/22 06:33 Matrix: Air

Date Received: 10/07/22 09:40 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.2826 10/11/22 13:00 21.8175 0.2826 ug/m3 (Air) (EPA 40CFR50 App B)

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10/20/2022

QC Sample Results

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-624431/1-B

Analysis Batch: 624648

Manganese

Copper

Manganese

Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA Prep Batch: 624438

•	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:09	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:09	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/13/22 07:45	10/13/22 17:09	1

Lab Sample ID: LCS 320-624431/2-B **Client Sample ID: Lab Control Sample** Matrix: Air Prep Type: Total/NA **Analysis Batch: 624648** Prep Batch: 624438 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.242 ug/m3 (Air) 86 - 111 101 0.240 0.244 ug/m3 (Air) 102 85 - 110 Copper

0.248

0.236

0.239

ug/m3 (Air)

ug/m3 (Air)

ug/m3 (Air)

103

98

100

88 - 110

85 - 110

88 - 110

3

4

15

15

Lab Sample ID: LCSD 320-624431/3-B **Client Sample ID: Lab Control Sample Dup** Matrix: Air Prep Type: Total/NA **Prep Batch: 624438 Analysis Batch: 624648** Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit Limits RPD Limit D %Rec Lead 0.240 0.240 ug/m3 (Air) 100 86 - 111 1 15

0.240

0.240

0.240

10/20/2022

QC Association Summary

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Metals

Pre Prep Batch: 624431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	Filter to Air	
320-92949-3	GESPM090622-267	Total/NA	Air	Filter to Air	
320-92949-5	GESPM090622-268	Total/NA	Air	Filter to Air	
320-92949-7	GESPM090622-269	Total/NA	Air	Filter to Air	
MB 320-624431/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-624431/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-624431/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 624438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	3050B	624431
320-92949-3	GESPM090622-267	Total/NA	Air	3050B	624431
320-92949-5	GESPM090622-268	Total/NA	Air	3050B	624431
320-92949-7	GESPM090622-269	Total/NA	Air	3050B	624431
MB 320-624431/1-B	Method Blank	Total/NA	Air	3050B	624431
LCS 320-624431/2-B	Lab Control Sample	Total/NA	Air	3050B	624431
LCSD 320-624431/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	624431

Analysis Batch: 624648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	6020	624438
320-92949-3	GESPM090622-267	Total/NA	Air	6020	624438
320-92949-5	GESPM090622-268	Total/NA	Air	6020	624438
320-92949-7	GESPM090622-269	Total/NA	Air	6020	624438
MB 320-624431/1-B	Method Blank	Total/NA	Air	6020	624438
LCS 320-624431/2-B	Lab Control Sample	Total/NA	Air	6020	624438
LCSD 320-624431/3-B	Lab Control Sample Dup	Total/NA	Air	6020	624438

General Chemistry

Pre Prep Batch: 623310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-2	GESTSP090622-266	Total/NA	Air	Filter to Air	
320-92949-4	GESTSP090622-267	Total/NA	Air	Filter to Air	
320-92949-6	GESTSP090622-268	Total/NA	Air	Filter to Air	
320-92949-8	GESTSP090622-269	Total/NA	Air	Filter to Air	

Analysis Batch: 625922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-1	GESPM090622-266	Total/NA	Air	PM10	
320-92949-3	GESPM090622-267	Total/NA	Air	PM10	
320-92949-5	GESPM090622-268	Total/NA	Air	PM10	
320-92949-7	GESPM090622-269	Total/NA	Air	PM10	

Analysis Batch: 625923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-92949-2	GESTSP090622-266	Total/NA	Air	40CFR50 App B	623310
320-92949-4	GESTSP090622-267	Total/NA	Air	40CFR50 App B	623310
320-92949-6	GESTSP090622-268	Total/NA	Air	40CFR50 App B	623310
320-92949-8	GESTSP090622-269	Total/NA	Air	40CFR50 App B	623310

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Job ID: 320-92949-1

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

Client Sample ID: GESPM090622-266

Date Collected: 10/05/22 06:36 Date Received: 10/07/22 09:40

Client: GES-AIS, LLC

Lab Sample ID: 320-92949-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					624431	10/13/22 07:09		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45		EET SAC
Total/NA	Analysis	6020		1			624648	10/13/22 17:18		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0566 g	625922	10/11/22 13:00		EET SAC

Client Sample ID: GESTSP090622-266

Date Collected: 10/05/22 06:36 Date Received: 10/07/22 09:40

Lab Sample ID: 320-92949-2

Matrix: Air

	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					623310	10/07/22 16:29		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00		EET SAC

Client Sample ID: GESPM090622-267

Date Collected: 10/05/22 06:27 Date Received: 10/07/22 09:40

Lab Sample ID: 320-92949-3

Lab Sample ID: 320-92949-4

Lab Sample ID: 320-92949-5

Matrix: Air

Matrix: Air

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					624431	10/13/22 07:09		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45		EET SAC
Total/NA	Analysis	6020		1			624648	10/13/22 17:28		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0443 g	625922	10/11/22 13:00		EET SAC

Client Sample ID: GESTSP090622-267

Date Collected: 10/05/22 06:27

Date Received: 10/07/22 09:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00		EET SAC

Client Sample ID: GESPM090622-268

Date Collected: 10/06/22 06:46

Date Received: 10/07/22 09:40

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					624431	10/13/22 07:09		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45		EET SAC
Total/NA	Analysis	6020		1	•		624648	10/13/22 17:31		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0052 g	625922	10/11/22 13:00		EET SAC

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10/20/2022

Lab Chronicle

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Client Sample ID: GESTSP090622-268

Lab Sample ID: 320-92949-6 Date Collected: 10/06/22 06:46 Matrix: Air

Date Received: 10/07/22 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					623310	10/07/22 16:29		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00		EET SAC

Client Sample ID: GESPM090622-269

Lab Sample ID: 320-92949-7 Date Collected: 10/06/22 06:33 Matrix: Air Date Received: 10/07/22 09:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					624431	10/13/22 07:09		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	624438	10/13/22 07:45		EET SAC
Total/NA	Analysis	6020		1			624648	10/13/22 17:35		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0180 g	625922	10/11/22 13:00		EET SAC

Client Sample ID: GESTSP090622-269

Date Collected: 10/06/22 06:33

Date Received: 10/07/22 09:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					623310	10/07/22 16:29		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625923	10/11/22 13:00		EET SAC

Laboratory References:

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

Matrix: Air

Lab Sample ID: 320-92949-8

Accreditation/Certification Summary

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Laboratory: Eurofins Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date
ANAB	De	pt. of Defense ELAP	L2468	01-20-24
Oregon	NE	ELAP	4040	01-29-23
The following analyte:	s are included in this repo	rt, but the laboratory is not	certified by the governing authority.	This list may include analytes for wh
The following analytes the agency does not o	•	rt, but the laboratory is not o	certified by the governing authority.	This list may include analytes for wh
	•	ort, but the laboratory is not o	certified by the governing authority. Analyte	This list may include analytes for whether the state of t
the agency does not o	offer certification.	,	, , ,	

Eurofins Sacramento

Method Summary

Client: GES-AIS, LLC

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

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

Protocol References:

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

None = None

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

Laboratory References:

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

Job ID: 320-92949-1

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Sample Summary

Client: GES-AIS, LLC Job ID: 320-92949-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-92949-1	GESPM090622-266	Air	10/05/22 06:36	10/07/22 09:40
320-92949-2	GESTSP090622-266	Air	10/05/22 06:36	10/07/22 09:40
320-92949-3	GESPM090622-267	Air	10/05/22 06:27	10/07/22 09:40
320-92949-4	GESTSP090622-267	Air	10/05/22 06:27	10/07/22 09:40
320-92949-5	GESPM090622-268	Air	10/06/22 06:46	10/07/22 09:40
320-92949-6	GESTSP090622-268	Air	10/06/22 06:46	10/07/22 09:40
320-92949-7	GESPM090622-269	Air	10/06/22 06:33	10/07/22 09:40
320-92949-8	GESTSP090622-269	Air	10/06/22 06:33	10/07/22 09:40

October 06, 2022

CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC# KT100622AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN Event: Parcel E Phase 2 Air Monitoring Project Number: J310000400 Ship to: 880 Riverside Parkway, West Sacramento, CA 95605 WBS Code: J310000400-016 Comments: Code Matrix A Air Container/Preservative 1x Envelope, None Analytical Test Method C Σ CAAIR - Air PM10 - Air Pb **Equipment:** N0500 - Air TSP SW6020 1 Event: Parcel E Phase 2 Air Monitoring Sample Depth (ft bgs) Samp Matrix Date Time Sample ID Init. Location ID Type Top - Bottom Cooler Comments GESPM090622-266 Α 10/05/2022 0636 X X AMSE1 N1 0.00 0.00 1 VOLUME: 1714.47 (M3) GESTSP090622-266 A AMSE1 0.00 0.00 1 10/05/2022 0636 VOLUME: 1643.58 (M3) N1 GESPM090622-267 Α X AMSE2 0.00 0.00 1 10/05/2022 0627 X N1 VOLUME: 1755.40 (M3) GESTSP090622-267 A 0627 X AMSE2 0.00 0.00 1 VOLUME: 1762.44 (M3) 10/05/2022 N₁ Х AMSE1 0.00 0.00 5 GESPM090622-268 Α 10/06/2022 0646 X N1 1 VOLUME: 1726.52 (M3) GESTSP090622-268 A 10/06/2022 0646 X AMSE1 N1 0.00 0.00 1 VOLUME: 1657.21 (M3) GESPM090622-269 Α 10/06/2022 0633 X X AMSE2 N1 0.00 0.00 1 VOLUME: 1748.73 (M3) X AMSE2 8 GESTSP090622-269 10/06/2022 0633 N₁ 0.00 0.00 VOLUME: 1769.22 (M3) 10 **Turnaround Time: 5 days** Relinquished by: (Signature) Received by: (Signature) Date Shipping Date / Carrier / Airbill Number Shipping Date: 10/6/2022 FedEx: 7701 2148 3195 Fedex 10/6/22 10/6/22 1600 1600 10-7-12 Received by Laboratory: (Signature, Date, Time) & condition GES.Navy_COC_Field 19.80













Page 1 of 1

Client: GES-AIS, LLC Job Number: 320-92949-1

Login Number: 92949

List Number: 1
Creator:

List Source: Eurofins Sacramento

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 ampered 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	
s 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 66mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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ANALYTICAL REPORT

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

Laboratory Job ID: 320-93124-1

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

For:

eurofins 💸

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

Attn:

Authorized for release by: 10/26/2022 10:10:58 AM

, Project Manager I

LINKS

Review your project results through

Have a Question?



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

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

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

Client: GES-AIS, LLC

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

Laboratory Job ID: 320-93124-1

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Definitions/Glossary

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Qualifiers

N/	oto	۱,
IV	ula	13

Qualifier Qualifier Description

B Compound was found in the blank and sample.

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

Glossary

Abbreviation	These commonly	y used abbreviations may	y or may not be	present in this report.
--------------	----------------	--------------------------	-----------------	-------------------------

Example 2 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

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Case Narrative

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Job ID: 320-93124-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-93124-1

Comments

No additional comments.

Receipt

The samples were received on 10/12/2022 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 19.8° C.

Metals

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

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Job ID: 320-93124-1 Client: GES-AIS, LLC

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

Analyte	Result Qua	alifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0050 B	0.0024	0.00036	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.070	0.0048	0.00036	ug/m3 (Air)	1		6020	Total/NA

Manganese 0.012 0.0024 0.00034 ug/m3 (Air) 6020 Total/NA Particulate Matter as PM 10 1.0 ug/m3 PM10 Total/NA 1.0 Lab Sample ID: 320-93124-2

Client Sample ID: GESTSP090622-270

Analyte	Result Qua	alifier RL	RL	Unit	Dil Fac	D Method		Prep Type
Total Suspended Particulates	48.5529	1.0509	1.0509	ug/m3 (Air)	1	40CFR50	0 App B	Total/NA

Client Sample ID: GESPM091422-271

- Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037	В	0.0023	0.00035	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.095		0.0047	0.00035	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0072		0.0023	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.98	0.98	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-271

Analyte	Result Qualifier	RL	RL Ur	nit	Dil Fac	Method	Prep Type
Total Suspended Particulates	21.1049	0.9771	0.9771 ug	g/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-272

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025 B	0.00073	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.049	0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052	0.00073	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13	0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-272

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	23.6509	0.3170	0.3170 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-273

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0046 B	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.019	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0061	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.9	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-273

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Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	27.3793	0.2882	0.2882 ug/m3 (Air)	1 40CFR50 App E	3 Total/NA

This Detection Summary does not include radiochemical test results.

10/26/2022

Lab Sample ID: 320-93124-1

Lab Sample ID: 320-93124-3

Lab Sample ID: 320-93124-4

Lab Sample ID: 320-93124-5

Lab Sample ID: 320-93124-6

Lab Sample ID: 320-93124-7

Lab Sample ID: 320-93124-8

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Client Sample ID: GESPM090622-270

Lab Sample ID: 320-93124-1

Date Collected: 10/06/22 13:46 **Matrix: Air**

Date Received: 10/12/22 09:25 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Lead	0.0050	В	0.0024	0.00036	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:19	1
	Copper	0.070		0.0048	0.00036	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:19	1
	Manganese	0.012		0.0024	0.00034	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:19	1

General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	19	1.0	1.0 ug/m3			10/13/22 07:30	1

Client Sample ID: GESTSP090622-270 Lab Sample ID: 320-93124-2

Date Collected: 10/06/22 13:46 Matrix: Air Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.5529		1.0509	1.0509	ug/m3 (Air)			10/13/22 07:30	1
(EPA 40CFR50 App B)									

Client Sample ID: GESPM091422-271 Lab Sample ID: 320-93124-3

Date Collected: 10/06/22 13:33 Matrix: Air

Date Received: 10/12/22 09:25 Sample Container: Folder/Filter

Method: SW846 6020 -	Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037 B	0.0023	0.00035	ug/m3 (Air)	_	10/17/22 07:50	10/17/22 18:29	1
Copper	0.095	0.0047	0.00035	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:29	1
Manganese	0.0072	0.0023	0.00033	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:29	1

General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11	0.98	0.98 ug/m3			10/13/22 07:30	1
(40CFR50J PM10)							

Client Sample ID: GESTSP091422-271 Lab Sample ID: 320-93124-4

Date Collected: 10/06/22 13:33 Matrix: Air

Date Received: 10/12/22 09:25 Sample Container: Folder/Filter

General Chemistry Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	21.1049	0.9771	0.9771	ug/m3 (Air)			10/13/22 07:30	1

Eurofins Sacramento

10/26/2022

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Client Sample ID: GESPM091422-272

Lab Sample ID: 320-93124-5 Date Collected: 10/11/22 06:50 Matrix: Air

Date Received: 10/12/22 09:25 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025	В	0.00073	0.00011	ug/m3 (Air)	_	10/17/22 07:50	10/17/22 18:33	1
Copper	0.049		0.0015	0.00011	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:33	1
Manganese	0.0052		0.00073	0.00010	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:33	1

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.30	0.30	ug/m3			10/13/22 07:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP091422-272

Date Collected: 10/11/22 06:50

Date Received: 10/12/22 09:25 Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	23.6509		0.3170	0.3170	ug/m3 (Air)			10/13/22 07:30	1

Lab Sample ID: 320-93124-7 Client Sample ID: GESPM091422-273

Date Collected: 10/11/22 06:40 Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

Method: SW846 6020 -	Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0046 B	0.00069	0.00010	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:36	1
Copper	0.019	0.0014	0.00010	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:36	1
Manganese	0.0061	0.00069	0.000096	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:36	1
_								

General Chemistry								
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.9	0.29	0.29	ug/m3			10/13/22 07:30	1
(40CFR50J PM10)								

Client Sample ID: GESTSP091422-273 Lab Sample ID: 320-93124-8

Date Collected: 10/11/22 06:40 Date Received: 10/12/22 09:25

Sample Container: Folder/Filter

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	27.3793		0.2882	0.2882	ug/m3 (Air)			10/13/22 07:30	1

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10/26/2022

Lab Sample ID: 320-93124-6

Matrix: Air

Matrix: Air

Matrix: Air

QC Sample Results

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-625156/1-B

Matrix: Air Analysis Batch: 625571 **Client Sample ID: Method Blank**

Prep Type: Total/NA

Prep Batch: 625158

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.000294	J	0.0012	0.00018	ug/m3 (Air)	_	10/17/22 07:50	10/17/22 18:10	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:10	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/17/22 07:50	10/17/22 18:10	1

MR MR

Lab Sample ID: LCS 320-625156/2-B

Matrix: Air

Analysis Batch: 625571

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

Prep Batch: 625158

Spike LCS LCS %Rec Limits Analyte Added Result Qualifier Unit D %Rec Lead 0.240 0.251 ug/m3 (Air) 104 86 - 111 0.240 0.233 ug/m3 (Air) 97 85 - 110 Copper 0.240 0.242 ug/m3 (Air) 101 88 - 110 Manganese

Lab Sample ID: LCSD 320-625156/3-B

Matrix: Air

Manganese

Analysis Batch: 625571

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

ug/m3 (Air)

107

88 - 110

0.258

Prep Batch: 625158

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Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit Limits RPD Limit D %Rec Lead 0.240 0.245 ug/m3 (Air) 102 86 - 111 2 15 Copper 0.240 0.249 ug/m3 (Air) 104 85 - 110 7 15

0.240

10/26/2022

QC Association Summary

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Metals

Pre Prep Batch: 625156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-1	GESPM090622-270	Total/NA	Air	Filter to Air	
320-93124-3	GESPM091422-271	Total/NA	Air	Filter to Air	
320-93124-5	GESPM091422-272	Total/NA	Air	Filter to Air	
320-93124-7	GESPM091422-273	Total/NA	Air	Filter to Air	
MB 320-625156/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-625156/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-625156/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 625158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-1	GESPM090622-270	Total/NA	Air	3050B	625156
320-93124-3	GESPM091422-271	Total/NA	Air	3050B	625156
320-93124-5	GESPM091422-272	Total/NA	Air	3050B	625156
320-93124-7	GESPM091422-273	Total/NA	Air	3050B	625156
MB 320-625156/1-B	Method Blank	Total/NA	Air	3050B	625156
LCS 320-625156/2-B	Lab Control Sample	Total/NA	Air	3050B	625156
LCSD 320-625156/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	625156

Analysis Batch: 625571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-1	GESPM090622-270	Total/NA	Air	6020	625158
320-93124-3	GESPM091422-271	Total/NA	Air	6020	625158
320-93124-5	GESPM091422-272	Total/NA	Air	6020	625158
320-93124-7	GESPM091422-273	Total/NA	Air	6020	625158
MB 320-625156/1-B	Method Blank	Total/NA	Air	6020	625158
LCS 320-625156/2-B	Lab Control Sample	Total/NA	Air	6020	625158
LCSD 320-625156/3-B	Lab Control Sample Dup	Total/NA	Air	6020	625158

General Chemistry

Pre Prep Batch: 625527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-2	GESTSP090622-270	Total/NA	Air	Filter to Air	-
320-93124-4	GESTSP091422-271	Total/NA	Air	Filter to Air	
320-93124-6	GESTSP091422-272	Total/NA	Air	Filter to Air	
320-93124-8	GESTSP091422-273	Total/NA	Air	Filter to Air	

Analysis Batch: 625931

Lab Sample ID 320-93124-1	Client Sample ID GESPM090622-270	Prep Type Total/NA	Matrix Air	Method PM10 Prep Batch
320-93124-3	GESPM091422-271	Total/NA	Air	PM10
320-93124-5	GESPM091422-272	Total/NA	Air	PM10
320-93124-7	GESPM091422-273	Total/NA	Air	PM10

Analysis Batch: 625950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93124-2	GESTSP090622-270	Total/NA	Air	40CFR50 App B	625527
320-93124-4	GESTSP091422-271	Total/NA	Air	40CFR50 App B	625527
320-93124-6	GESTSP091422-272	Total/NA	Air	40CFR50 App B	625527
320-93124-8	GESTSP091422-273	Total/NA	Air	40CFR50 App B	625527

Eurofins Sacramento

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Job ID: 320-93124-1

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

Client Sample ID: GESPM090622-270

Date Collected: 10/06/22 13:46 Date Received: 10/12/22 09:25

Lab Sample ID: 320-93124-1

Matrix: Air

	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					625156	10/17/22 07:37		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625158	10/17/22 07:50		EET SAC
Total/NA	Analysis	6020		1			625571	10/17/22 18:19		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0092 g	625931	10/13/22 07:30		EET SAC

Client Sample ID: GESTSP090622-270

Date Collected: 10/06/22 13:46 Date Received: 10/12/22 09:25

Lab Sample ID: 320-93124-2

Lab Sample ID: 320-93124-3

Lab Sample ID: 320-93124-4

Lab Sample ID: 320-93124-5

Matrix: Air

Matrix: Air

Matrix: Air

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			625950	10/13/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					625527	10/17/22 16:15		EET SAC

Client Sample ID: GESPM091422-271

Date Collected: 10/06/22 13:33

Matrix: Air

Date Received: 10/12/22 09:25

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625156	10/17/22 07:37		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625158	10/17/22 07:50		EET SAC
Total/NA	Analysis	6020		1			625571	10/17/22 18:29		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0058 g	625931	10/13/22 07:30		EET SAC

Client Sample ID: GESTSP091422-271

Date Collected: 10/06/22 13:33

Date Received: 10/12/22 09:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1	741104111	741104111	625950	10/13/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					625527	10/17/22 16:15		EET SAC

Client Sample ID: GESPM091422-272

Date Collected: 10/11/22 06:50

Date Received: 10/12/22 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					625156	10/17/22 07:37		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625158	10/17/22 07:50		EET SAC
Total/NA	Analysis	6020		1	•		625571	10/17/22 18:33		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0211 g	625931	10/13/22 07:30		EET SAC

Eurofins Sacramento

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Lab Chronicle

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Client Sample ID: GESTSP091422-272

Lab Sample ID: 320-93124-6 Date Collected: 10/11/22 06:50 Matrix: Air

Batch Dil Initial Batch Batch Final Prepared Method Factor or Analyzed **Prep Type** Type Run **Amount Amount** Number Analyst Lab Total/NA 40CFR50 App B 625950 10/13/22 07:30 EET SAC Analysis Total/NA Pre Prep 625527 10/17/22 16:15 Filter to Air **EET SAC**

Client Sample ID: GESPM091422-273 Lab Sample ID: 320-93124-7

Matrix: Air

Date Collected: 10/11/22 06:40 Date Received: 10/12/22 09:25

Date Received: 10/12/22 09:25

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Amount Number or Analyzed Run **Factor Amount** Analyst Lab Total/NA Pre Prep Filter to Air 625156 10/17/22 07:37 EET SAC Total/NA 3050B Prep 625158 0.08333 100 mL 10/17/22 07:50 **EET SAC** Sample Total/NA Analysis 6020 625571 10/17/22 18:36 **EET SAC** 1 Total/NA Analysis PM10 1 0 g 0.0173 g 625931 10/13/22 07:30 **EET SAC**

Client Sample ID: GESTSP091422-273

Lab Sample ID: 320-93124-8 Date Collected: 10/11/22 06:40 Matrix: Air

Date Received: 10/12/22 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			625950	10/13/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					625527	10/17/22 16:15		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 Job ID: 320-93124-1

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

Laboratory: Eurofins Sacramento

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

Authority		ogram	Identification Number	Expiration Date
ANAB	Dept. of		L2468	01-20-24
Oregon	NE	ELAP	4040	01-29-23
,	'	rt, but the laboratory is not	certified by the governing authority.	This list may include analytes for wh
the agency does not o	ffer certification.	,	, , ,	This list may include analytes for wh
,	'	rt, but the laboratory is not o	certified by the governing authority. Analyte	This list may include analytes for wh
the agency does not o	ffer certification.	,	, , ,	

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Method Summary

Client: GES-AIS, LLC

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

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 References:

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

None = None

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

Laboratory References:

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

Job ID: 320-93124-1

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Sample Summary

Client: GES-AIS, LLC Job ID: 320-93124-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93124-1	GESPM090622-270	Air	10/06/22 13:46	10/12/22 09:25
320-93124-2	GESTSP090622-270	Air	10/06/22 13:46	10/12/22 09:25
320-93124-3	GESPM091422-271	Air	10/06/22 13:33	10/12/22 09:25
320-93124-4	GESTSP091422-271	Air	10/06/22 13:33	10/12/22 09:25
320-93124-5	GESPM091422-272	Air	10/11/22 06:50	10/12/22 09:25
320-93124-6	GESTSP091422-272	Air	10/11/22 06:50	10/12/22 09:25
320-93124-7	GESPM091422-273	Air	10/11/22 06:40	10/12/22 09:25
320-93124-8	GESTSP091422-273	Air	10/11/22 06:40	10/12/22 09:25

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COC# KT101122AIRE

2300 Clayton Road, Suite 1050, Concord, CA 94520

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2 Project Number: J310000400							DC:	itory:	: EUI	ROF	INS	ENVI	RON	MEN	IT TESTING N	ORTHERN	CALIFORN	A, LLC	(EETN	Event: Monito	Parcel E Phase 2 Air
	S Code: J310000400-016					_		. 88	n Piv	orcio	do D	arkwa	10.	look (Sacramento, Ca	A 05005	-			- WOULD	inig
						Į Ņ	iip (C	. 00	URIV	ersic	Je P	arkwa	ay, vv	est	Sacramento, Ca	4 95605					
	Equipment: Equipment: Equipment: Event: Parcel E Phase 2 Air Monitoring				t Method		b Mn Cu									tive					
						_	N0500 -	SW6020									32	20-93124	4 Chain	of Custor	dy
	Event: Parcel E Phase 2 Air I	Monitorii	ng			1	1	1													
	Sample ID	Matrix	Date	Time	Sam										Local	ion ID	Sample Type	Depth	(ft bgs) Bottom	Cooler	Comments
1	GESPM090622-270	А	10/06/2022	1346		Х	\top	X	П	\Box			+			SE1	N2	0.00	0.00	1	VOLUME: 495.50 (M3)
2	GESTSP090622-270	А	10/06/2022	1346	7		×		П		\dashv	\top	\top	T	AM	SE1	N2	0.00	0.00	1	VOLUME: 475.77 (M3)
3	GESPM091422-271	А	10/06/2022	1333	7	X	†	X	П		\neg		\top	+	АМ	SE2	N2	0.00	0.00	1	VOLUME: 511.12 (M3)
4	GESTSP091422-271	А	10/06/2022	1333			X	T	П		\dashv		十	\top	AM	SE2	N2	0.00	0.00	1	VOLUME: 511.73 (M3)
5	GESPM091422-272	Α	10/11/2022	0650		X	T	Х			7				AM	SE1	N1	0.00	0.00	1	VOLUME: 1654.56 (M3)
6	GESTSP091422-272	Α	10/11/2022	0650	1	_	X	\top	П		\neg		十		AM	SE1	N1	0.00	0.00	1	VOLUME: 1577.11 (M3)
7	GESPM091422-273	Α	10/11/2022	0640		X		×	П		\neg	\top	T	\top	AM	SE2	N1	0.00	0.00	1	VOLUME: 1746.72 (M3)
8	GESTSP091422-273	Α	10/11/2022	0640			X	Т			\neg			\top	AM	SE2	N1	0.00	0.00	1	VOLUME: 1734.89 (M3)
9		-								11	7			T							
10							Т			14/			10.	-1/-	22						
Turi	naround Time: 5 days																				
Poli	inquished by (Signature)		Dete	7:			- 1-			_				_)[
	THE TRIPLET	-	Date	Time	Receiv	ed by	y: (S	igna	ture)				+	Date	Time	Shipping D				
		_	10-11-22	1600	FEI	DEX								12	0-11-22	1600	Shipping Da	ate: 10/1	1/2022 /	FedEx 7	7701 7251 3836
														14	1-12·n	0975					
																	Received b	y Labor	atory: (Signature	e, Date, Time) & condition
														+							
GES.I	Navy_COC_Field er 11, 2022														. ~						
Octob	er 11, 2022														14,	8-					Page 1 of 1

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List Source: Eurofins Sacramento

Client: GES-AIS, LLC Job Number: 320-93124-1

Login Number: 93124

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	

Eurofins Sacramento





Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 320-93245-1

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

For:

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

Attn:

Authorized for release by: 10/26/2022 10:14:02 AM

, Project Manager I

LINKS

Review your project results through

Have a Question?



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

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

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

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Client: GES-AIS, LLC

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

Laboratory Job ID: 320-93245-1

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Definitions/Glossary

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Glossary

EDL

LOD

LOQ

Ciossaiy	
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)

MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

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)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Job ID: 320-93245-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-93245-1

Comments

No additional comments.

Receipt

The samples were received on 10/14/2022 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 19.8° C.

Metals

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

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Client: GES-AIS, LLC Job ID: 320-93245-1

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

Lab Sample ID: 320-93245-1

Analyte	Result Q	Qualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.014	0.00070	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.13	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.043	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-274

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	64.5492	0.3051	0.3051 ug/m3 (Air)	1 40CFR50 Ap	p B Total/NA

Client Sample ID: GESPM091422-275

- Analyte	Result (Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0025		0.00068	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.023		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0046		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-275

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	43.7593	0.2830	0.2830 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-276

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033	0.00070	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.098	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0081	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: GESTSP091422-276

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	39.3970	0.3078	0.3078 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-277

_ Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D I	Method	Prep Type
Lead	0.0027	0.00069	0.00010	ug/m3 (Air)	1	- 6	6020	Total/NA
Copper	0.019	0.0014	0.00010	ug/m3 (Air)	1	6	6020	Total/NA
Manganese	0.0047	0.00069	0.000097	ug/m3 (Air)	1	6	6020	Total/NA
Particulate Matter as PM 10	11	0.29	0.29	ug/m3	1	F	PM10	Total/NA

Client Sample ID: GESTSP091422-277

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	34 9771	0.2872	0.2872 ug/m3 (Air)	1 40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

10/26/2022

Lab Sample ID: 320-93245-2

Lab Sample ID: 320-93245-3

Lab Sample ID: 320-93245-4

Lab Sample ID: 320-93245-5

Lab Sample ID: 320-93245-6

Lab Sample ID: 320-93245-7

Lab Sample ID: 320-93245-8

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Client Sample ID: GESPM091422-274

Lab Sample ID: 320-93245-1 Date Collected: 10/12/22 06:49

Matrix: Air

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.014	0.00070	0.00011	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:29	1	
Copper	0.13	0.0014	0.00011	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:29	1	
Manganese	0.043	0.00070	0.000098	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:29	1	

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 0.29 ug/m3 10/17/22 08:00 (40CFR50J PM10)

Client Sample ID: GESTSP091422-274

Lab Sample ID: 320-93245-2

Date Collected: 10/12/22 06:49 Matrix: Air

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	64.5492		0.3051	0.3051	ug/m3 (Air)			10/19/22 11:57	1

Lab Sample ID: 320-93245-3 Client Sample ID: GESPM091422-275

Date Collected: 10/12/22 06:45 Matrix: Air

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

Method: SW846 6020 -	Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025	0.00068	0.00010	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:39	1
Copper	0.023	0.0014	0.00010	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:39	1
Manganese	0.0046	0.00068	0.000095	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:39	1
_								

General Chemistry Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.28 Particulate Matter as PM 10 14 0.28 ug/m3 10/17/22 08:00 (40CFR50J PM10)

Client Sample ID: GESTSP091422-275 Lab Sample ID: 320-93245-4

Date Collected: 10/12/22 06:45 Matrix: Air

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

General Chemistry Analyte	Result Qua	alifier RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	43.7593	0.2830	0.2830	ug/m3 (Air)			10/19/22 11:57	1

Client Sample Results

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Client Sample ID: GESPM091422-276

Date Collected: 10/13/22 06:37

Lab Sample ID: 320-93245-5 Matrix: Air

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033	0.00070	0.00011	ug/m3 (Air)	_	10/19/22 06:30	10/19/22 18:42	1
Copper	0.098	0.0014	0.00011	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:42	1
Manganese	0.0081	0.00070	0.000098	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:42	1
	Analyte Lead Copper	Lead 0.0033 Copper 0.098	Analyte Result 0.0033 Qualifier Qualifier RL 0.00070 RL 0.00070 Copper 0.098 0.0014	Analyte Result 0.0033 Qualifier Qualifier RL 0.00070 MDL 0.00011 Copper 0.098 0.0014 0.00011	Analyte Result Lead Qualifier RL O.00070 MDL Unit Ug/m3 (Air) Copper 0.098 0.0014 0.00011 ug/m3 (Air)	Analyte Result Lead Qualifier RL 0.0033 MDL 0.00070 Unit 0.00011 D ug/m3 (Air) Copper 0.098 0.0014 0.00011 ug/m3 (Air)	Analyte Result Lead Qualifier RL 0.0033 MDL 0.0070 Unit ug/m3 (Air) D 10/19/22 06:30 Copper 0.098 0.0014 0.00011 ug/m3 (Air) 10/19/22 06:30	Analyte Result Lead Qualifier RL 0.00070 MDL ug/m3 (Air) Unit ug/m3 (Air) D 10/19/22 06:30 Prepared 10/19/22 06:30 Analyzed 10/19/22 18:42 Copper 0.098 0.0014 0.00011 ug/m3 (Air) 10/19/22 06:30 10/19/22 18:42

General Chemistry

Analyte RL Result Qualifier **RL Unit** Prepared Analyzed Dil Fac 10/17/22 08:00 Particulate Matter as PM 10 0.29 20 0.29 ug/m3 (40CFR50J PM10)

Client Sample ID: GESTSP091422-276

Date Collected: 10/13/22 06:37

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

General Chemistry

General Chemistry								
Analyte	Result Qu	ualifier RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.3970	0.3078	0.3078	ug/m3 (Air)	_		10/19/22 11:57	1
(EPA 40CFR50 App B)								

Client Sample ID: GESPM091422-277

Date Collected: 10/13/22 06:26

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

Method:	SW846	6020 -	Motale	(ICP/MS)
MICLIOU.	344040	0020 -	wetais	

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Lead	0.0027		0.00069	0.00010	ug/m3 (Air)	_	10/19/22 06:30	10/19/22 18:45	1
	Copper	0.019		0.0014	0.00010	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:45	1
L	Manganese	0.0047		0.00069	0.000097	ug/m3 (Air)		10/19/22 06:30	10/19/22 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.29	0.29	ug/m3			10/17/22 08:00	1
(40CFR50J PM10)									

Client Sample ID: GESTSP091422-277

Date Collected: 10/13/22 06:26

Date Received: 10/14/22 09:40 Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	34.9771		0.2872	0.2872	ug/m3 (Air)			10/19/22 11:57	1

Lab Sample ID: 320-93245-6

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-93245-7

Lab Sample ID: 320-93245-8

Eurofins Sacramento

QC Sample Results

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-625856/1-B

Matrix: Air

Analysis Batch: 626373

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 625871

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/19/22 06:30	10/20/22 10:43	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/19/22 06:30	10/20/22 10:43	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/19/22 06:30	10/20/22 10:43	1

Lab Sample ID: LCS 320-625856/2-B

Matrix: Air

Analysis Batch: 626373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 625871

Alialysis Datell. 020010							i iep ba	tcii. 02307 i
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	 0.240	0.262		ug/m3 (Air)	_	109	86 - 111	
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110	
9				3				

Lab Sample ID: LCSD 320-625856/3-B

Matrix: Air

Analysis Batch: 626373

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 625871

Spike LCSD LCSD %Rec RPD Added Limits Result Qualifier Unit RPD Limit **Analyte** D %Rec Lead 0.240 0.254 ug/m3 (Air) 106 86 - 111 3 15 Copper 0.240 0.250 ug/m3 (Air) 104 85 - 110 3 15 Manganese 0.240 0.254 ug/m3 (Air) 106 88 - 110 4 15

10/26/2022

QC Association Summary

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Metals

Pre Prep Batch: 625856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-1	GESPM091422-274	Total/NA	Air	Filter to Air	
320-93245-3	GESPM091422-275	Total/NA	Air	Filter to Air	
320-93245-5	GESPM091422-276	Total/NA	Air	Filter to Air	
320-93245-7	GESPM091422-277	Total/NA	Air	Filter to Air	
MB 320-625856/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-625856/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-625856/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 625871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-1	GESPM091422-274	Total/NA	Air	3050B	625856
320-93245-3	GESPM091422-275	Total/NA	Air	3050B	625856
320-93245-5	GESPM091422-276	Total/NA	Air	3050B	625856
320-93245-7	GESPM091422-277	Total/NA	Air	3050B	625856
MB 320-625856/1-B	Method Blank	Total/NA	Air	3050B	625856
LCS 320-625856/2-B	Lab Control Sample	Total/NA	Air	3050B	625856
LCSD 320-625856/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	625856

Analysis Batch: 626129

Lab Sample ID 320-93245-1	Client Sample ID GESPM091422-274	Prep Type Total/NA	Matrix Air	Method -	Prep Batch 625871
320-93245-3	GESPM091422-275	Total/NA	Air	6020	625871
320-93245-5	GESPM091422-276	Total/NA	Air	6020	625871
320-93245-7	GESPM091422-277	Total/NA	Air	6020	625871

Analysis Batch: 626373

Lab Sample ID MB 320-625856/1-B	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Air	Method 6020	Prep Batch 625871
LCS 320-625856/2-B	Lab Control Sample	Total/NA	Air	6020	625871
LCSD 320-625856/3-B	Lab Control Sample Dup	Total/NA	Air	6020	625871

General Chemistry

Pre Prep Batch: 625595

Lab Sample ID 320-93245-2	Client Sample ID GESTSP091422-274	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-93245-4	GESTSP091422-275	Total/NA	Air	Filter to Air	
320-93245-6	GESTSP091422-276	Total/NA	Air	Filter to Air	
320-93245-8	GESTSP091422-277	Total/NA	Air	Filter to Air	

Analysis Batch: 625982

Lab Sample ID 320-93245-1	Client Sample ID GESPM091422-274	Prep Type Total/NA	Matrix Air	Method PM10	Prep Batch
320-93245-3	GESPM091422-275	Total/NA	Air	PM10	
320-93245-5	GESPM091422-276	Total/NA	Air	PM10	
320-93245-7	GESPM091422-277	Total/NA	Air	PM10	

Analysis Batch: 625985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-2	GESTSP091422-274	Total/NA	Air	40CFR50 App B	625595
320-93245-4	GESTSP091422-275	Total/NA	Air	40CFR50 App B	625595

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QC Association Summary

Client: GES-AIS, LLC Job ID: 320-93245-1

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

General Chemistry (Continued)

Analysis Batch: 625985 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93245-6	GESTSP091422-276	Total/NA	Air	40CFR50 App B	625595
320-93245-8	GESTSP091422-277	Total/NA	Air	40CFR50 App B	625595

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Matrix: Air

EET SAC

Matrix: Air

Matrix: Air

Matrix: Air

Lab Sample ID: 320-93245-1

Lab Sample ID: 320-93245-3

Lab Sample ID: 320-93245-4

Lab Sample ID: 320-93245-5

Client Sample ID: GESPM091422-274

Date Collected: 10/12/22 06:49

Date Received: 10/14/22 09:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625856	10/19/22 05:07		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30		EET SAC
Total/NA	Analysis	6020		1	·		626129	10/19/22 18:29		EET SAC

Client Sample ID: GESTSP091422-274

PM10

Analysis

Total/NA

Lab Sample ID: 320-93245-2 Date Collected: 10/12/22 06:49 Matrix: Air Date Received: 10/14/22 09:40

0 g

0.0638 g

625982

10/17/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625595	10/18/22 09:35		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57		EET SAC

Client Sample ID: GESPM091422-275

Date Collected: 10/12/22 06:45 Date Received: 10/14/22 09:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625856	10/19/22 05:07		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30		EET SAC
Total/NA	Analysis	6020		1			626129	10/19/22 18:39		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0250 g	625982	10/17/22 08:00		EET SAC

Client Sample ID: GESTSP091422-275

Date Collected: 10/12/22 06:45

Date Received: 10/14/22 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					625595	10/18/22 09:35		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57		EET SAC

Client Sample ID: GESPM091422-276

Date Collected: 10/13/22 06:37

Date Received: 10/14/22 09:40

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					625856	10/19/22 05:07		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30		EET SAC
Total/NA	Analysis	6020		1	•		626129	10/19/22 18:42		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0340 g	625982	10/17/22 08:00		EET SAC

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Client Sample ID: GESTSP091422-276

Lab Sample ID: 320-93245-6 Date Collected: 10/13/22 06:37 Matrix: Air

Date Received: 10/14/22 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					625595	10/18/22 09:35		EET SAC
l	Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57		EET SAC

Client Sample ID: GESPM091422-277

Lab Sample ID: 320-93245-7 Date Collected: 10/13/22 06:26 Matrix: Air Date Received: 10/14/22 09:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					625856	10/19/22 05:07		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	625871	10/19/22 06:30		EET SAC
Total/NA	Analysis	6020		1			626129	10/19/22 18:45		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0196 g	625982	10/17/22 08:00		EET SAC

Client Sample ID: GESTSP091422-277

Date Collected: 10/13/22 06:26

Date Received: 10/14/22 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					625595	10/18/22 09:35		EET SAC
Total/NA	Analysis	40CFR50 App B		1			625985	10/19/22 11:57		EET SAC

Laboratory References:

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

Matrix: Air

Lab Sample ID: 320-93245-8

Accreditation/Certification Summary

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Laboratory: Eurofins Sacramento

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

Authority	rity Program		Identification Number	Expiration Date
ANAB	De	pt. of Defense ELAP	L2468	01-20-24
Oregon	NE	ELAP	4040	01-29-23
,	•	rt, but the laboratory is not	certified by the governing authority.	This list may include analytes for whi
the agency does not o	offer certification.	,	, , ,	This list may include analytes for whi
,	•	rt, but the laboratory is not o	certified by the governing authority. Analyte	This list may include analytes for whi
the agency does not o	offer certification.	,	, , ,	

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Method Summary

Client: GES-AIS, LLC

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

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 References:

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

None = None

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

Laboratory References:

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

Job ID: 320-93245-1

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Sample Summary

Client: GES-AIS, LLC Job ID: 320-93245-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93245-1	GESPM091422-274	Air	10/12/22 06:49	10/14/22 09:40
320-93245-2	GESTSP091422-274	Air	10/12/22 06:49	10/14/22 09:40
320-93245-3	GESPM091422-275	Air	10/12/22 06:45	10/14/22 09:40
320-93245-4	GESTSP091422-275	Air	10/12/22 06:45	10/14/22 09:40
320-93245-5	GESPM091422-276	Air	10/13/22 06:37	10/14/22 09:40
320-93245-6	GESTSP091422-276	Air	10/13/22 06:37	10/14/22 09:40
320-93245-7	GESPM091422-277	Air	10/13/22 06:26	10/14/22 09:40
320-93245-8	GESTSP091422-277	Air	10/13/22 06:26	10/14/22 09:40

COC# KT101322AIRE

2300 Clayton Road, Suite 1050, Concord, CA 94520

Gilbane

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2		Labo	orato	ry: E	UROF	INS	ENVII	RONI	MEN	T TESTING N	ORTHERN	CALIFORNI	ALIC	(FETN	Event: Parcel E Phase 2 Air		
Project Number: J310000400		POC										TOTAL OTTO	74, 110	(CC114	Monitoring		
WBS Code: J310000400-016		Ship	to: 8	380	Riversi	de Pa	arkwa	ıv. W	est S	acramento, C.	A 95605						
								,,									
Comments:										Code Ma	atrix						
F - 3										A Air	•						
320-93245 Chain of Custody	Method	0	3	Mn Cu							iner/Preservat velope, None	tive	45-				
Equipment:	Analytical Test Method	1 1	N0500 - Air TSP	SW6020 - Air Pb Mn													
	An	8	ğ	SS													
Event: Parcel E Phase 2 Air Monitoring				1													
	Samp											Sample	Depth	(ft bgs)			
Sample ID Matrix Date Time	Init.									Local	tion ID	Туре	Top -	Bottom	Cooler	Comments	
1 GESPM091422-274 A 10/12/2022 0649		Х		x						AM	SE1	N1	0.00	0.00	1	VOLUME: 1708.80 (M3)	
2 GESTSP091422-274 A 10/12/2022 0649			X	Т				Т		AM	SE1	N1	0.00	0.00	1	VOLUME: 1639.06 (M3)	
3 GESPM091422-275 A 10/12/2022 0645		Х		x						AM	SE2	N1	0.00	0.00	1	VOLUME: 1762.89 (M3)	
4 GESTSP091422-275 A 10/12/2022 0645			X	T				T	Г	AM	SE2	N1	0.00	0.00	1	VOLUME: 1766.48 (M3)	
5 GESPM091422-276 A 10/13/2022 0637		Х		x					П	AM	SE1	N1	0.00	0.00	1	VOLUME: 1707.63 (M3)	
6 GESTSP091422-276 A 10/13/2022 0637			X	T				\top		AM	SE1	N1	0.00	0.00	1	VOLUME: 1624.49 (M3)	
7 GESPM091422-277 A 10/13/2022 0626		Х		x				\top		AM	SE2	N1	0.00	0.00	1	VOLUME: 1737.47 (M3)	
8 GESTSP091422-277 A 10/13/2022 0626			x	1			1	\top	T	, , AM	SE2	N1	0.00	0.00	1	VOLUME: 1741.14 (M3)	
9								I	01	5/1/							
10												=					
Turnaround Time: 5 days					•												
Relinquished by: (Signature) Date Time	Received	by:	(Sig	natu	rre)					Date	Time	Shipping D					
18/13/22 1600	I	E	E	X					1	0/13/22	1	Shipping Da	ite: 10/1	3/2022/	FedEx 7	701 8989 6126	
									14	0-1422	0940	Received b	v Labo	ratory: /	Signatur	e, Date, Time) & condition	
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October 13, 2022

10/26/2022

19,80

List Source: Eurofins Sacramento

Client: GES-AIS, LLC Job Number: 320-93245-1

Login Number: 93245 List Number: 1

Creator:

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



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ANALYTICAL REPORT

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

Laboratory Job ID: 320-93376-1

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

For:

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

Attn:



Authorized for release by: 11/8/2022 3:47:18 PM

, Project Manager I

····· Links ·····

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

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

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

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-93376-1

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

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** Detection Limit (DoD/DOE) DL 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 MI 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

Page 3 of 17

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Case Narrative

Client: GES-AIS LLC Job ID: 320-93376-1

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

Job ID: 320-93376-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-93376-1

Comments

No additional comments.

Receipt

The samples were received on 10/19/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.2° C.

Metals

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

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Client: GES-AIS LLC Job ID: 320-93376-1

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

Client Sample ID: GESP	M091422-278
------------------------	-------------

Lab Sample ID: 320-93376-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0048	0.0022	0.00033	ug/m3 (Air)	1	6020	Total/NA
Copper	0.12	0.0044	0.00033	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0092	0.0022	0.00031	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	13	0.92	0.92	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP091422-278

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	10.3413	0.9233	0.9233 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-279

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0042	0.0022	0.00032	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.033	0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0060	0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.0	0.90	0.90	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-279

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.5783		0.8994	0.8994	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-280

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0041	0.00071	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.095	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011	0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-280

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	35.6837	0.2949	0.2949 ug/m3 (Air)		40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-281

_ Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Metho	d Prep Type
Lead	0.0025	0.00068	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.036	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0061	0.00068	0.000095	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	21	0.28	0.28	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP091422-281

_						
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	32.3518	0.2833	0.2833 ug/m3 (Air)		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

11/8/2022

Lab Sample ID: 320-93376-2

Lab Sample ID: 320-93376-3

Lab Sample ID: 320-93376-4

Lab Sample ID: 320-93376-5

Lab Sample ID: 320-93376-6

Lab Sample ID: 320-93376-7

Lab Sample ID: 320-93376-8

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93376-1

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

Client Sample ID: GESPM091422-278

Lab Sample ID: 320-93376-1 Date Collected: 10/13/22 14:15

Matrix: Air

Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

Method: SW846 60)20 - Metals	(ICP/MS)
Analyte		Resu

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0048	0.0022	0.00033 ug/m3 (Air)		10/25/22 06:00	10/26/22 15:45	1
Copper	0.12	0.0044	0.00033 ug/m3 (Air)		10/25/22 06:00	10/26/22 15:45	1
Manganese	0.0092	0.0022	0.00031 ug/m3 (Air)		10/25/22 06:00	10/26/22 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.92	0.92	ug/m3			10/20/22 12:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP091422-278

Lab Sample ID: 320-93376-2 Date Collected: 10/13/22 14:15 Matrix: Air

Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

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General	Cnemistry
Analysta	_

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	10.3413		0.9233	0.9233	ug/m3 (Air)			10/20/22 12:30	1

Client Sample ID: GESPM091422-279

Lab Sample ID: 320-93376-3 Date Collected: 10/13/22 14:03 Matrix: Air

Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

Mothod: SINRAR ROOD - Motals (ICP/MS)

Method: 544846 6020 - Metais	(ICP/IVIS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0042	0.0022	0.00032	ug/m3 (Air)	_	10/25/22 06:00	10/26/22 15:54	1
Copper	0.033	0.0043	0.00032	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:54	1
Manganese	0.0060	0.0022	0.00030	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:54	1

General Chemistry

Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.0	0.90	0.90	ug/m3			10/20/22 12:30	1
(40CFR50J PM10)								

Client Sample ID: GESTSP091422-279

Lab Sample ID: 320-93376-4 Date Collected: 10/13/22 14:03 Matrix: Air

Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.5783	·	0.8994	0.8994	ug/m3 (Air)			10/20/22 12:30	1

Total Suspended Particulates (EPA 40CFR50 App B)

Eurofins Sacramento

11/8/2022

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93376-1

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

Client Sample ID: GESPM091422-280

Lab Sample ID: 320-93376-5 Date Collected: 10/18/22 06:36

Matrix: Air

Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

Method:	SW846	6020 -	Metals	(ICP/MS)
---------	-------	--------	--------	----------

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0041	0.00071	0.00011	ug/m3 (Air)	_	10/25/22 06:00	10/26/22 15:58	1
Copper	0.095	0.0014	0.00011	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:58	1
Manganese	0.011	0.00071	0.000099	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	27		0.29	0.29	ug/m3			10/20/22 12:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP091422-280

Lab Sample ID: 320-93376-6 Date Collected: 10/18/22 06:36 Matrix: Air

Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

Gonoral Chomietry

General	Cnemistry
A maluda	

Analyte	Result (Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.6837		0.2949	0.2949	ug/m3 (Air)			10/20/22 12:30	1
(EPA 40CFR50 App B)									

Client Sample ID: GESPM091422-281

Lab Sample ID: 320-93376-7

Date Collected: 10/18/22 06:24 Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

Mothod: SINRAR ROOD - Motals (ICP/MS)

Method: 544846 6020 - Metals	(ICP/IVIS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025	0.00068	0.00010	ug/m3 (Air)	_	10/25/22 06:00	10/26/22 16:01	1
Copper	0.036	0.0014	0.00010	ug/m3 (Air)		10/25/22 06:00	10/26/22 16:01	1
Manganese	0.0061	0.00068	0.000095	ug/m3 (Air)		10/25/22 06:00	10/26/22 16:01	1

General Chemistry

Analyte	Result C	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.28	0.28	ug/m3			10/20/22 12:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP091422-281

Lab Sample ID: 320-93376-8 Date Collected: 10/18/22 06:24 Matrix: Air

Date Received: 10/19/22 09:00 Sample Container: Folder/Filter

General Chemis	·tm/

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	32.3518		0.2833	0.2833	ug/m3 (Air)			10/20/22 12:30	1

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Matrix: Air

11/8/2022

QC Sample Results

Client: GES-AIS LLC Job ID: 320-93376-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-627278/1-B

Matrix: Air

Analysis Batch: 627762

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627286

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:36	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:36	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/25/22 06:00	10/26/22 15:36	1

Lab Sample ID: LCS 320-627278/2-B

Matrix: Air

Analysis Batch: 627762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 627286

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.240	0.265		ug/m3 (Air)	_	110	86 - 111	
Copper	0.240	0.251		ug/m3 (Air)		104	85 - 110	
Manganese	0.240	0.255		ug/m3 (Air)		106	88 - 110	

Lab Sample ID: LCSD 320-627278/3-B

Matrix: Air

Analysis Batch: 627762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 627286

%Rec **RPD**

Spike LCSD LCSD Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec Copper 0.240 0.245 ug/m3 (Air) 102 85 - 110 2 15 Manganese 0.240 0.251 ug/m3 (Air) 105 88 - 110 15

Lab Sample ID: LCSD 320-627278/3-B

Matrix: Air

Analysis Batch: 628032

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 627286

%Rec **RPD**

Spike LCSD LCSD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Lead 0.240 0.256 ug/m3 (Air) 107 86 - 111

QC Association Summary

Client: GES-AIS LLC Job ID: 320-93376-1

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

Metals

Pre Prep Batch: 627278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	Filter to Air	
320-93376-3	GESPM091422-279	Total/NA	Air	Filter to Air	
320-93376-5	GESPM091422-280	Total/NA	Air	Filter to Air	
320-93376-7	GESPM091422-281	Total/NA	Air	Filter to Air	
MB 320-627278/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-627278/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 627286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	3050B	627278
320-93376-3	GESPM091422-279	Total/NA	Air	3050B	627278
320-93376-5	GESPM091422-280	Total/NA	Air	3050B	627278
320-93376-7	GESPM091422-281	Total/NA	Air	3050B	627278
MB 320-627278/1-B	Method Blank	Total/NA	Air	3050B	627278
LCS 320-627278/2-B	Lab Control Sample	Total/NA	Air	3050B	627278
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	627278

Analysis Batch: 627762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	6020	627286
320-93376-3	GESPM091422-279	Total/NA	Air	6020	627286
320-93376-5	GESPM091422-280	Total/NA	Air	6020	627286
320-93376-7	GESPM091422-281	Total/NA	Air	6020	627286
MB 320-627278/1-B	Method Blank	Total/NA	Air	6020	627286
LCS 320-627278/2-B	Lab Control Sample	Total/NA	Air	6020	627286
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	6020	627286

Analysis Batch: 628032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 320-627278/3-B	Lab Control Sample Dup	Total/NA	Air	6020	627286

General Chemistry

Pre Prep Batch: 627254

Lab Sample ID 320-93376-2	Client Sample ID GESTSP091422-278	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-93376-4	GESTSP091422-279	Total/NA	Air	Filter to Air	
320-93376-6	GESTSP091422-280	Total/NA	Air	Filter to Air	
320-93376-8	GESTSP091422-281	Total/NA	Air	Filter to Air	

Analysis Batch: 627258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-2	GESTSP091422-278	Total/NA	Air	40CFR50 App B	627254
320-93376-4	GESTSP091422-279	Total/NA	Air	40CFR50 App B	627254
320-93376-6	GESTSP091422-280	Total/NA	Air	40CFR50 App B	627254
320-93376-8	GESTSP091422-281	Total/NA	Air	40CFR50 App B	627254

Analysis Batch: 627753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-1	GESPM091422-278	Total/NA	Air	PM10	

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QC Association Summary

Client: GES-AIS LLC Job ID: 320-93376-1

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

General Chemistry (Continued)

Analysis Batch: 627753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93376-3	GESPM091422-279	Total/NA	Air	PM10	
320-93376-5	GESPM091422-280	Total/NA	Air	PM10	
320-93376-7	GESPM091422-281	Total/NA	Air	PM10	

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Job ID: 320-93376-1

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

Client Sample ID: GESPM091422-278

Date Collected: 10/13/22 14:15 Date Received: 10/19/22 09:00

Client: GES-AIS LLC

Lab Sample ID: 320-93376-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00		EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 15:45		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0069 g	627753	10/20/22 12:30		EET SAC

Client Sample ID: GESTSP091422-278

Date Collected: 10/13/22 14:15 Date Received: 10/19/22 09:00

Lab Sample ID: 320-93376-2

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30		EET SAC
Total/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12		EET SAC

Client Sample ID: GESPM091422-279

Date Collected: 10/13/22 14:03 Date Received: 10/19/22 09:00

Lab Sample ID: 320-93376-3

Lab Sample ID: 320-93376-4

Matrix: Air

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00		EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 15:54		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0050 g	627753	10/20/22 12:30		EET SAC

Client Sample ID: GESTSP091422-279

Date Collected: 10/13/22 14:03

Date Received: 10/19/22 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30		EET SAC
Total/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12		EET SAC

Client Sample ID: GESPM091422-280

Date Collected: 10/18/22 06:36

Date Received: 10/19/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00		EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 15:58		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0464 g	627753	10/20/22 12:30		EET SAC

Eurofins Sacramento

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EET SAC Lab Sample ID: 320-93376-5

Matrix: Air

Matrix: Air

Lab Chronicle

Client: GES-AIS LLC Job ID: 320-93376-1

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

Client Sample ID: GESTSP091422-280

Lab Sample ID: 320-93376-6 Matrix: Air

Date Collected: 10/18/22 06:36 Date Received: 10/19/22 09:00

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
P	rep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Ī	otal/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30		EET SAC
LT	otal/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12		EET SAC

Client Sample ID: GESPM091422-281

Date Collected: 10/18/22 06:24 Date Received: 10/19/22 09:00

Lab Sample ID: 320-93376-7 Matrix: Air

Lab Sample ID: 320-93376-8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627278	10/25/22 04:45		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627286	10/25/22 06:00		EET SAC
Total/NA	Analysis	6020		1			627762	10/26/22 16:01		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0365 g	627753	10/20/22 12:30		EET SAC

Client Sample ID: GESTSP091422-281

Date Collected: 10/18/22 06:24

Date Received: 10/19/22 09:00

	Batch	Batch	D	Dil	Initial	Final	Batch	Prepared	A I 4	Lab
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			627258	10/20/22 12:30		EET SAC
Total/NA	Pre Prep	Filter to Air					627254	10/24/22 17:12		EET SAC

Laboratory References:

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

Matrix: Air

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-93376-1

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

Laboratory: Eurofins Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date
ANAB	Der	pt. of Defense ELAP	L2468	01-20-24
Oregon		LAP	4040	01-29-23
The following analytes	s are included in this repor	rt, but the laboratory is not o	certified by the governing authority.	This list may include analytes for whi
the agency does not o	offer certification.	•	, , ,	This list may include analytes for whi
the agency does not of Analysis Method		rt, but the laboratory is not o	Analyte	
the agency does not o	offer certification.	•	, , ,	

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Method Summary

Client: GES-AIS LLC

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

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

Protocol References:

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

None = None

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

Laboratory References:

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

Job ID: 320-93376-1

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Sample Summary

Client: GES-AIS LLC Job ID: 320-93376-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93376-1	GESPM091422-278	Air	10/13/22 14:15	10/19/22 09:00
320-93376-2	GESTSP091422-278	Air	10/13/22 14:15	10/19/22 09:00
320-93376-3	GESPM091422-279	Air	10/13/22 14:03	10/19/22 09:00
320-93376-4	GESTSP091422-279	Air	10/13/22 14:03	10/19/22 09:00
320-93376-5	GESPM091422-280	Air	10/18/22 06:36	10/19/22 09:00
320-93376-6	GESTSP091422-280	Air	10/18/22 06:36	10/19/22 09:00
320-93376-7	GESPM091422-281	Air	10/18/22 06:24	10/19/22 09:00
320-93376-8	GESTSP091422-281	Air	10/18/22 06:24	10/19/22 09:00

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CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT101822AIRE



Proj	ect Name: Hunters Point Sh	ipyard,	Parcel E RA PI	nase 2		Lat	ooral	tory:	EURO	FINS	ENV	/IRO	MM	EN	T TESTING NO	ORTHERN	CALIFORNI	A. LLC	(EETN	Event F	Parcel E Phase 2 Air
Proj	ject Number: J310000400					PO	C:								-			,	(Monitoring	
WB	S Code: J310000400-016					Shi	p to:	880	Rive	side	Parkw	ay, '	Wes	st S	acramento, CA	95605					
Comments: Equipment:				Analytical Test Method		N0500 - Air TSP	SW6020 - Air Pb Mn Cu	River	side	Parkw	yay, T	vves	SIS	Code Ma A Air Code Contai 1 1x Env	trix ner/Preservat	ive	J. J				
	Event: Parcel E Phase 2 Air	Monitori	20		1 4	1	1	_		+	H	+									
	Sample ID	Matrix		Time	Samp Init.										Locati	on ID	Sample		(ft bgs)	Cooler	Comments
1	GESPM091422-278	Α	10/13/2022	1415		Х		х							AMS	SE1	N2	0.00	0.00	1	VOLUME: 541.52 (M3)
2	GESTSP091422-278	Α	10/13/2022	1415			Х								AMS	SE1	N2	0.00	0.00	1	VOLUME: 518.15 (M3)
3	GESPM091422-279	Α	10/13/2022	1403		Х		х		1					AMS	SE2	N2	0.00	0.00	1	VOLUME: 555.95 (M3)
4	GESTSP091422-279	Α	10/13/2022	1403			х				П				AMS	SE2	N2	0.00	0.00	1	VOLUME: 555.85 (M3)
5	GESPM091422-280	Α	10/18/2022	0636		Х		х							AMS	SE1	N1	0.00	0.00	1	VOLUME: 1695.45 (M3)
6	GESTSP091422-280	Α	10/18/2022	0636			Х				П				AMS	SE1	N1	0.00	0.00	1	VOLUME: 1619.45 (M3)
7	GESPM091422-281	Α	10/18/2022	0624		Х		х				T			AMS	SE2	N1	0.00	0.00	1	VOLUME: 1764.97 (M3)
8	GESTSP091422-281	Α	10/18/2022	0624			Х			T	П			^	AMS	SE2	N1	0.00	0.00	1	VOLUME: 1745.43 (M3)
9										1		14/	20	,			1				
10										T		1	'								
Turi	naround Time: 5 days																				
Reli	inquished by: (Signature)		Date	Time	Receive	l hv	· (Si	anat	ture)					_	Date	Time	Shinning D	-t- 10-		:_L :II NI	
								9///					-				Shipping Da				7702 2364 9000
-			10/18/2022	1600	FEI	VE.	X							10	18/2022	1600	ompping 50	10. 10/1	O/ZUZZ /	reuex /	702 2304 9000
														10	19.2	0900					
																	Received b	ved by Laboratory: (Signature, Date, Time) & condition			
\vdash		-											-								
			·																		
GES.f	Navy_COC_Field er 18, 2022																101 200	,			

Login Sample Receipt Checklist

Client: GES-AIS LLC Job Number: 320-93376-1

Login Number: 93376

List Number: 1 Creator:

List Source: Eurofins Sacramento

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	



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ANALYTICAL REPORT

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

Laboratory Job ID: 320-93485-1

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

For:

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

Attn:



Authorized for release by: 10/28/2022 11:10:26 AM

, Project Manager I

.....LINKS

Review your project results through

Have a Question?



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

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

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

Client: GES-AIS LLC

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

Laboratory Job ID: 320-93485-1

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-93485-1

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

Qualifiers

ΝЛ	212	10
IVI	HIA	1.5

Qualifier Qualifier Description

B Compound was found in the blank and sample.

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

Glossary

Abbreviation	These commonly used	abbreviations may o	or may not be preser	nt in this report.
--------------	---------------------	---------------------	----------------------	--------------------

Example 2 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

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Eurofins Sacramento

Case Narrative

Client: GES-AIS LLC Job ID: 320-93485-1

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

Job ID: 320-93485-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-93485-1

Comments

No additional comments.

Receipt

The samples were received on 10/21/2022 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.7° C.

Metals

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

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Client: GES-AIS LLC Job ID: 320-93485-1

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

Lab Sample ID: 320-93485-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D N	Method	Prep Type
Lead	0.0041	В	0.00069	0.00010	ug/m3 (Air)	1	_ 6	6020	Total/NA
Copper	0.21		0.0014	0.00010	ug/m3 (Air)	1	6	6020	Total/NA
Manganese	0.017		0.00069	0.000096	ug/m3 (Air)	1	6	6020	Total/NA
Particulate Matter as PM 10	34		0.29	0.29	ug/m3	1	F	PM10	Total/NA

Client Sample ID: GESTSP091422-282

Lab Sample ID: 320-93485-2

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	46.8171	0.3013	0.3013 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-283

Lab Sample ID: 320-93485-3

Analyte	Result Qua	alifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027 B	0.00067	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.062	0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013	0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27	0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-283

Lab Sample ID: 320-93485-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	44.2219	0.2810	0.2810 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-284

Lab Sample ID: 320-93485-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D I	Method	Prep Type
Lead	0.0046 B	0.00070	0.00010	ug/m3 (Air)	1	_ 6	6020	Total/NA
Copper	0.097	0.0014	0.00010	ug/m3 (Air)	1	6	6020	Total/NA
Manganese	0.018	0.00070	0.000098	ug/m3 (Air)	1	6	6020	Total/NA
Particulate Matter as PM 10	31	0.29	0.29	ug/m3	1	F	PM10	Total/NA

Client Sample ID: GESTSP091422-284

Lab Sample ID: 320-93485-6

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	44.7239	0.3055	0.3055 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-285

Lab Sample ID: 320-93485-7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037 B	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.019	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-285

Lab Sample ID: 320-93485-8

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	29.9418	0.2852	0.2852 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: GES-AIS LLC Job ID: 320-93485-1

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

Client Sample ID: GESPM091422-282

Date Collected: 10/19/22 06:47

Lab Sample ID: 320-93485-1 Matrix: Air

Matrix: Air

Matrix: Air

Date Received: 10/21/22 09:15 Sample Container: Folder/Filter

Method: SW846 6020 -	Method: SW846 6020 - Metals (ICP/MS)										
Analyte	Result Qualifier	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Lead	0.0041 B	0.00069	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:42	1			
Copper	0.21	0.0014	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:42	1			
Manganese	0.017	0.00069	0.000096	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:42	1			

General Chemistry
Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac
Particulate Matter as PM 10 34 0.29 0.29 ug/m3 0.29 ug/m3 10/24/22 16:15 1

(40CFR50J PM10)

Client Sample ID: GESTSP091422-282 Lab Sample ID: 320-93485-2

Date Collected: 10/19/22 06:47 Date Received: 10/21/22 09:15 Sample Container: Folder/Filter

General Chemistry
Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)

Result Qualifier RL O.3013 0.3013 ug/m3 (Air)

O.3013 Ug/m3 (Air)

D Prepared Analyzed Dil Fac
10/24/22 16:15 1

Client Sample ID: GESPM091422-283 Lab Sample ID: 320-93485-3

Date Collected: 10/19/22 06:37 Matrix: Air

Date Received: 10/21/22 09:15
Sample Container: Folder/Filter

Total Suspended Particulates

(EPA 40CFR50 App B)

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00067 10/27/22 05:45 10/27/22 15:45 Lead 0.0027 B 0.00010 ug/m3 (Air) Copper 0.062 0.0013 0.00010 ug/m3 (Air) 10/27/22 05:45 10/27/22 15:45 0.00067 0.000094 ug/m3 (Air) 10/27/22 05:45 10/27/22 15:45 Manganese 0.013

General ChemistryAnalyteResultQualifierRLRLUnitDPreparedAnalyzedDil FacParticulate Matter as PM 10
(40CFR50J PM10)270.280.28ug/m310/24/22 16:151

Client Sample ID: GESTSP091422-283 Lab Sample ID: 320-93485-4

Date Collected: 10/19/22 06:37
Date Received: 10/21/22 09:15

44.2219

Sample Container: Folder/Filter

General Chemistry
Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac

0.2810

0.2810 ug/m3 (Air)

Eurofins Sacramento

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10/24/22 16:15

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93485-1

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

Client Sample ID: GESPM091422-284

Lab Sample ID: 320-93485-5 Date Collected: 10/20/22 06:41

Matrix: Air

Date Received: 10/21/22 09:15 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.0046 B	0.00070	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:48	1	
Copper	0.097	0.0014	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:48	1	
Manganese	0.018	0.00070	0.000098	ua/m3 (Air)		10/27/22 05:45	10/27/22 15:48	1	

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	31		0.29	0.29	ug/m3			10/24/22 16:15	1

Client Sample ID: GESTSP091422-284 Lab Sample ID: 320-93485-6

Date Collected: 10/20/22 06:41 Matrix: Air Date Received: 10/21/22 09:15

Sample Container: Folder/Filter

General Chemistry								
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.7239	0.3055	0.3055	ug/m3 (Air)	_		10/24/22 16:15	1
(EPA 40CFR50 App B)								

Client Sample ID: GESPM091422-285 Lab Sample ID: 320-93485-7

Date Collected: 10/20/22 06:30 Matrix: Air

Date Received: 10/21/22 09:15 Sample Container: Folder/Filter

Method: SW846 6020 - Me Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037 B	0.00069	0.00010	ug/m3 (Air)	_	10/27/22 05:45	10/27/22 15:51	1
Copper	0.019	0.0014	0.00010	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:51	1
Manganese	0.010	0.00069	0.000096	ug/m3 (Air)		10/27/22 05:45	10/27/22 15:51	1

ocheral offeringly							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20	0.29	0.29 ug/m3			10/24/22 16:15	1
(40CFR50J PM10)							

Client Sample ID: GESTSP091422-285 Lab Sample ID: 320-93485-8

Date Collected: 10/20/22 06:30 Matrix: Air

Date Received: 10/21/22 09:15 Sample Container: Folder/Filter

General Chemistry	D 14	0	ъ.	D.	119	_	B	Anabasal	D!! F
Analyte	Result	Qualifier	RL	KL	Unit	ט	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	29.9418		0.2852	0.2852	ug/m3 (Air)			10/24/22 16:15	1

QC Sample Results

Client: GES-AIS LLC Job ID: 320-93485-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-627785/1-B

Matrix: Air

Analysis Batch: 628221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 627856

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.000206	J	0.0012	0.00018	ug/m3 (Air)		10/27/22 05:45	10/27/22 14:30	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		10/27/22 05:45	10/27/22 14:30	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		10/27/22 05:45	10/27/22 14:30	1

MD MD

Lab Sample ID: LCS 320-627785/2-B

Matrix: Air

Analysis Batch: 628221

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

Prep Batch: 627856

,								
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	 0.240	0.252		ug/m3 (Air)	_	105	86 - 111	
Copper	0.240	0.253		ug/m3 (Air)		105	85 - 110	
Manganese	0.240	0.254		ug/m3 (Air)		106	88 - 110	

Lab Sample ID: LCSD 320-627785/3-B

Matrix: Air

Analysis Batch: 628221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 627856

Spike LCSD LCSD %Rec RPD Limits Added Result Qualifier Unit RPD Limit **Analyte** D %Rec Lead 0.240 0.252 ug/m3 (Air) 105 86 - 111 0 15 Copper 0.240 0.250 ug/m3 (Air) 104 85 - 110 15 Manganese 0.240 0.252 ug/m3 (Air) 105 88 - 110 15

QC Association Summary

Client: GES-AIS LLC Job ID: 320-93485-1

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

Metals

Pre Prep Batch: 627785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	Filter to Air	
320-93485-3	GESPM091422-283	Total/NA	Air	Filter to Air	
320-93485-5	GESPM091422-284	Total/NA	Air	Filter to Air	
320-93485-7	GESPM091422-285	Total/NA	Air	Filter to Air	
MB 320-627785/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-627785/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-627785/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 627856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	3050B	627785
320-93485-3	GESPM091422-283	Total/NA	Air	3050B	627785
320-93485-5	GESPM091422-284	Total/NA	Air	3050B	627785
320-93485-7	GESPM091422-285	Total/NA	Air	3050B	627785
MB 320-627785/1-B	Method Blank	Total/NA	Air	3050B	627785
LCS 320-627785/2-B	Lab Control Sample	Total/NA	Air	3050B	627785
LCSD 320-627785/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	627785

Analysis Batch: 628221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	6020	627856
320-93485-3	GESPM091422-283	Total/NA	Air	6020	627856
320-93485-5	GESPM091422-284	Total/NA	Air	6020	627856
320-93485-7	GESPM091422-285	Total/NA	Air	6020	627856
MB 320-627785/1-B	Method Blank	Total/NA	Air	6020	627856
LCS 320-627785/2-B	Lab Control Sample	Total/NA	Air	6020	627856
LCSD 320-627785/3-B	Lab Control Sample Dup	Total/NA	Air	6020	627856

General Chemistry

Pre Prep Batch: 628054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-2	GESTSP091422-282	Total/NA	Air	Filter to Air	
320-93485-4	GESTSP091422-283	Total/NA	Air	Filter to Air	
320-93485-6	GESTSP091422-284	Total/NA	Air	Filter to Air	
320-93485-8	GESTSP091422-285	Total/NA	Air	Filter to Air	

Analysis Batch: 628110

Lab Sample ID 320-93485-2	Client Sample ID GESTSP091422-282	Prep Type Total/NA	Matrix Air	Method 40CFR50 App B	Prep Batch 628054
320-93485-4	GESTSP091422-283	Total/NA	Air	40CFR50 App B	628054
320-93485-6	GESTSP091422-284	Total/NA	Air	40CFR50 App B	628054
320-93485-8	GESTSP091422-285	Total/NA	Air	40CFR50 App B	628054

Analysis Batch: 628118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93485-1	GESPM091422-282	Total/NA	Air	PM10	
320-93485-3	GESPM091422-283	Total/NA	Air	PM10	
320-93485-5	GESPM091422-284	Total/NA	Air	PM10	
320-93485-7	GESPM091422-285	Total/NA	Air	PM10	

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Job ID: 320-93485-1

Client: GES-AIS LLC

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

Client Sample ID: GESPM091422-282

Date Collected: 10/19/22 06:47 Date Received: 10/21/22 09:15 Lab Sample ID: 320-93485-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627785	10/27/22 04:13		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627856	10/27/22 05:45		EET SAC
Total/NA	Analysis	6020		1			628221	10/27/22 15:42		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0588 g	628118	10/24/22 16:15		EET SAC

Client Sample ID: GESTSP091422-282

Date Collected: 10/19/22 06:47 Date Received: 10/21/22 09:15 Lab Sample ID: 320-93485-2

Lab Sample ID: 320-93485-3

Lab Sample ID: 320-93485-4

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			628110	10/24/22 16:15		EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06		EET SAC

Client Sample ID: GESPM091422-283

Date Collected: 10/19/22 06:37 Date Received: 10/21/22 09:15

19/22 06:37 21/22 09:15

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Pre Prep Filter to Air 627785 10/27/22 04:13 EET SAC Total/NA 3050B 627856 Prep 100 mL 10/27/22 05:45 **EET SAC** 0.08333 Sample Total/NA Analysis 6020 628221 10/27/22 15:45 **EET SAC** Total/NA Analysis PM10 0 g 0.0486 g 628118 10/24/22 16:15 **EET SAC**

Client Sample ID: GESTSP091422-283

Date Collected: 10/19/22 06:37

Date Received: 10/21/22 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			628110	10/24/22 16:15		EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06		EET SAC

Client Sample ID: GESPM091422-284

Date Collected: 10/20/22 06:41

Date Received: 10/21/22 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					627785	10/27/22 04:13		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	627856	10/27/22 05:45		EET SAC
Total/NA	Analysis	6020		1	•		628221	10/27/22 15:48		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0529 g	628118	10/24/22 16:15		EET SAC

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Lab Sample ID: 320-93485-5 Matrix: Air

Matrix: Air

Lab Chronicle

Client: GES-AIS LLC Job ID: 320-93485-1

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

Client Sample ID: GESTSP091422-284

Lab Sample ID: 320-93485-6 Date Collected: 10/20/22 06:41

Matrix: Air

Date Received: 10/21/22 09:15

	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			628110	10/24/22 16:15		EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06		EET SAC

Client Sample ID: GESPM091422-285 Lab Sample ID: 320-93485-7

Date Collected: 10/20/22 06:30 Date Received: 10/21/22 09:15

Matrix: Air

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type **Amount** Number or Analyzed Run **Factor Amount** Analyst Lab Total/NA Pre Prep Filter to Air 627785 10/27/22 04:13 **EET SAC** Total/NA 3050B Prep 627856 0.08333 100 mL 10/27/22 05:45 **EET SAC** Sample Total/NA 6020 Analysis 628221 10/27/22 15:51 **EET SAC** 1 Total/NA Analysis PM10 0 g 0.0343 g 628118 10/24/22 16:15 **EET SAC**

Client Sample ID: GESTSP091422-285

Lab Sample ID: 320-93485-8

Matrix: Air

Date Collected: 10/20/22 06:30 Date Received: 10/21/22 09:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B	- <u></u>	1			628110	10/24/22 16:15		EET SAC
Total/NA	Pre Prep	Filter to Air					628054	10/27/22 14:06		EET SAC

Laboratory References:

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

Eurofins Sacramento

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-93485-1

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

Laboratory: Eurofins Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date
ANAB	De	pt. of Defense ELAP	L2468	01-20-24
Oregon	NE	LAP	4040	01-29-23
The following analytes	s are included in this repor	rt, but the laboratory is not o	certified by the governing authority.	This list may include analytes for wh
The following analytes the agency does not o	•	rt, but the laboratory is not o	certified by the governing authority.	This list may include analytes for wh
,	•	rt, but the laboratory is not o	certified by the governing authority. Analyte	This list may include analytes for wh
the agency does not o	offer certification.	•	, , ,	

Method Summary

Client: GES-AIS LLC

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

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

Protocol References:

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

None = None

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

Laboratory References:

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

Job ID: 320-93485-1

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Sample Summary

Client: GES-AIS LLC Job ID: 320-93485-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93485-1	GESPM091422-282	Air	10/19/22 06:47	10/21/22 09:15
320-93485-2	GESTSP091422-282	Air	10/19/22 06:47	10/21/22 09:15
320-93485-3	GESPM091422-283	Air	10/19/22 06:37	10/21/22 09:15
320-93485-4	GESTSP091422-283	Air	10/19/22 06:37	10/21/22 09:15
320-93485-5	GESPM091422-284	Air	10/20/22 06:41	10/21/22 09:15
320-93485-6	GESTSP091422-284	Air	10/20/22 06:41	10/21/22 09:15
320-93485-7	GESPM091422-285	Air	10/20/22 06:30	10/21/22 09:15
320-93485-8	GESTSP091422-285	Air	10/20/22 06:30	10/21/22 09:15

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COC # KT102022AIRE

2300 Clayton Road, Suite 1050, Concord, CA 94520

Gilbane

Project Number: J310000400						Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN Event: Parcel E Phase 2 Air Monitoring														
_	S Code: J310000400-016					_		880	Rive	side	Parkw	ay, V	Vest	Sacramento, C.	A 95605					
Cor	nments:				thod			Cu						A Air	atrix iner/Preservat velope, None	ive				, 1000 (1011 (1011 (1011 (1011
				Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn									320-93	485 Cha	ain of Cus	stody	
	Event: Parcel E Phase 2 Air	Monitorin	ig .			1	1	1	_	_		_	1							į
	Sample ID	Matrix	Date	Time	Samp Init.									Locat	ion ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM091422-282	Α	10/19/2022	0647		Х		Х						AM	SE1	N1	0.00	0.00	1	VOLUME: 1745.47 (M3)
2	GESTSP091422-282	Α	10/19/2022	0647			Х							AM	SE1	N1	0.00	0.00	1	VOLUME: 1659.65 (M3)
3	GESPM091422-283	Α	10/19/2022	0637		X		X						AM	SE2	N1	0.00	0.00	1	VOLUME: 1779.71 (M3)
4	GESTSP091422-283	Α	10/19/2022	0637			Х			T		1		AM	SE2	N1	0.00	0.00	1	VOLUME: 1779.66 (M3)
5	GESPM091422-284	A	10/20/2022	0641		X		Х						AM	SE1	N1	0.00	0.00	1	VOLUME: 1720.57 (M3)
6	GESTSP091422-284	Α	10/20/2022	0641			Х							AM	SE1	N1	0.00	0.00	1	VOLUME: 1636.71 (M3)
7	GESPM091422-285	Α	10/20/2022	0630		Х		Х						AM	SE2	N1	0.00	0.00	1	VOLUME: 1750.65 (M3)
8	GESTSP091422-285	Α	10/20/2022	0630			Х			/				AM	SE2	N1	0.00	0.00	1	VOLUME: 1753.40 (M3)
9									N/	/A .										
10									′ ′ ′	'		10	- 2	0-22						
Tur	naround Time: 5 days																			
Rel	inquished by: (Signature)		Date	Time	Receive	d by	: (Si	anaf	ture)					Date	Time	Shipping D	eto I Ce	mine / A	inhill Man	
	, , ,							9	,				+	Date						702 5178 9933
		/	10-20-22	1600	FEL	E.	X						1	0-20-22	1600	- inpping De	10/2	.0,2022	I CULX /	102 0110 3333
				1									11	21-21	0915					
																Received b	y Laboi	ratory: (Signature	e, Date, Time) & condition
		-		-									+							
GES.	Navy_COC_Field per 20, 2022															10 201				

10/28/2022









19,700









Page 1 of 1

List Source: Eurofins Sacramento

Client: GES-AIS LLC Job Number: 320-93485-1

Login Number: 93485

List Number: 1

Creator:

Answer	Comment
True	
True	SEAL
N/A	
True	
False	Thermal preservation not required.
True	
N/A	
True	
True	
True	
True	
N/A	
	True N/A True False True True True True True True True Tru



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ANALYTICAL REPORT

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

Laboratory Job ID: 320-93641-1

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

For:

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

Attn:



Authorized for release by: 11/8/2022 9:12:48 AM

, Project Manager I

..... LINKS

Review your project results through

Have a Question?



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

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

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

Laboratory Job ID: 320-93641-1

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

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-93641-1

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

Glossary

EDL

Giossaiy	
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)

LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Estimated Detection Limit (Dioxin)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin) Most Probable Number

MPN Method Quantitation Limit MQL NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

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) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

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Case Narrative

Client: GES-AIS LLC Job ID: 320-93641-1

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

Job ID: 320-93641-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-93641-1

Comments

No additional comments.

Receipt

The samples were received on 10/26/2022 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 19.7° C.

Metals

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

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Client: GES-AIS LLC Job ID: 320-93641-1

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

Client Sampl	e ID:	GESPM091422-286
---------------------	-------	-----------------

Lab Sample ID: 320-93641-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0061	0.0025	0.00037	ug/m3 (Air)	1	6020	Total/NA
Copper	0.090	0.0050	0.00037	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.016	0.0025	0.00035	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	25	1.0	1.0	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP091422-286

_						
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	33.2305	1.0860	1.0860 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-287

- Analyte	Result Qualif	ier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0045	0.0024	0.00037	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.044	0.0049	0.00037	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0095	0.0024	0.00034	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19	1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-287

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.2229		1.0185	1.0185	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GESPM091422-288

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0073	0.00072	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.11	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.020	0.00072	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29	0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP091422-288

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	44.6883	0.3125	0.3125 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-361

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021	0.00068	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.019	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0064	0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13	0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-361

_						
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	17.6902	0.2862	0.2862 ug/m3 (Air)		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

11/8/2022

Lab Sample ID: 320-93641-2

Lab Sample ID: 320-93641-3

Lab Sample ID: 320-93641-4

Lab Sample ID: 320-93641-5

Lab Sample ID: 320-93641-6

Lab Sample ID: 320-93641-7

Lab Sample ID: 320-93641-8

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93641-1

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

Client Sample ID: GESPM091422-286

Lab Sample ID: 320-93641-1

Date Collected: 10/20/22 13:32 Matrix: Air

Date Received: 10/26/22 09:20 Sample Container: Folder/Filter

Method: SW846 6020 - Metals	(ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0061	0.0025	0.00037	ug/m3 (Air)	_	10/31/22 06:30	11/01/22 10:30	1
Copper	0.090	0.0050	0.00037	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:30	1
Manganese	0.016	0.0025	0.00035	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:30	1

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		1.0	1.0	ug/m3			10/26/22 16:00	1
(40CFR50J PM10)									

Client Sample ID: GESTSP091422-286 Lab Sample ID: 320-93641-2 Date Collected: 10/20/22 13:32 Matrix: Air

Date Received: 10/26/22 09:20 Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	33.2305		1.0860	1.0860	ug/m3 (Air)			10/26/22 16:00	1

Lab Sample ID: 320-93641-3 Client Sample ID: GESPM091422-287

Date Collected: 10/20/22 13:17 Matrix: Air

Date Received: 10/26/22 09:20 Sample Container: Folder/Filter

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0045	0.0024	0.00037	ug/m3 (Air)	_	10/31/22 06:30	11/01/22 10:39	1
Copper	0.044	0.0049	0.00037	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:39	1
Manganese	0.0095	0.0024	0.00034	ug/m3 (Air)		10/31/22 06:30	11/01/22 10:39	1

General Chemistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19	1.0	1.0 ug/m3			10/26/22 16:00	1
(40CFR50.I PM10)							

Client Sample ID: GESTSP091422-287 Lab Sample ID: 320-93641-4

Date Collected: 10/20/22 13:17 Date Received: 10/26/22 09:20 Sample Container: Folder/Filter

General Chemistry Analyte	Result Qualifi	ier RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	34.2229	1.0185	1.0185	ug/m3 (Air)			10/26/22 16:00	1

11/8/2022

Matrix: Air

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93641-1

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

Client Sample ID: GESPM091422-288

Lab Sample ID: 320-93641-5 Date Collected: 10/25/22 06:45 Matrix: Air

Date Received: 10/26/22 09:20 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed 0.00072 10/31/22 06:30 11/01/22 10:43 Lead 0.00011 ug/m3 (Air) 0.0073

Copper 0.11 0.0014 0.00011 ug/m3 (Air) 10/31/22 06:30 11/01/22 10:43 Manganese 0.00072 0.00010 ug/m3 (Air) 10/31/22 06:30 11/01/22 10:43 0.020

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.30 29 0.30 ug/m3 10/26/22 16:00

(40CFR50J PM10)

Client Sample ID: GESTSP091422-288 Lab Sample ID: 320-93641-6 Date Collected: 10/25/22 06:45 Matrix: Air Date Received: 10/26/22 09:20

Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac **Total Suspended Particulates** 0.3125 0.3125 ug/m3 (Air) 10/26/22 16:00 44.6883 (EPA 40CFR50 App B)

Client Sample ID: GESPM100322-361 Lab Sample ID: 320-93641-7

Date Collected: 10/25/22 06:34 Matrix: Air

Date Received: 10/26/22 09:20 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 10/31/22 06:30 11/01/22 10:46 Lead 0.0021 0.00068 0.00010 ug/m3 (Air) Copper 0.019 0.0014 0.00010 ug/m3 (Air) 10/31/22 06:30 11/01/22 10:46 0.00068 0.000096 ug/m3 (Air) 10/31/22 06:30 11/01/22 10:46 Manganese 0.0064

General Chemistry Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.28 Particulate Matter as PM 10 13 0.28 ug/m3 10/26/22 16:00 (40CFR50J PM10)

Client Sample ID: GESTSP100322-361 Lab Sample ID: 320-93641-8

Date Collected: 10/25/22 06:34 Matrix: Air

Date Received: 10/26/22 09:20 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.2862 10/26/22 16:00 17.6902 0.2862 ug/m3 (Air) (EPA 40CFR50 App B)

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11/8/2022

Dil Fac

QC Sample Results

Client: GES-AIS LLC Job ID: 320-93641-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-628968/1-B

Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA Prep Batch: 628975 Analysis Batch: 629478 MD MD

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND ND	0.0012	0.00018 ug/m	3 (Air)	10/31/22 06:30	11/01/22 10:14	1
Copper	ND	0.0024	0.00018 ug/m	13 (Air)	10/31/22 06:30	11/01/22 10:14	1
Manganese	ND	0.0012	0.00017 ug/m	13 (Air)	10/31/22 06:30	11/01/22 10:14	1

Lab Sample ID: LCS 320-628968/2-B **Client Sample ID: Lab Control Sample Matrix: Air Prep Type: Total/NA Analysis Batch: 629478 Prep Batch: 628975**

	Spike	LUS	LUS			%Rec	
Analyte	Added	Result	Qualifier	Unit	D %Re	c Limits	
Lead	0.240	0.240		ug/m3 (Air)	10	86 - 111	
Copper	0.240	0.242		ug/m3 (Air)	10	1 85 - 110	
Manganese	0.240	0.243		ug/m3 (Air)	10	1 88 - 110	

Lab Sample ID: LCSD 320-628968/3-B **Client Sample ID: Lab Control Sample Dup Matrix: Air** Prep Type: Total/NA **Analysis Batch: 629478 Prep Batch: 628975**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.251		ug/m3 (Air)	_	105	86 - 111	5	15
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110	3	15
Manganese	0.240	0.250		ug/m3 (Air)		104	88 - 110	3	15

QC Association Summary

Client: GES-AIS LLC Job ID: 320-93641-1

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

Metals

Pre Prep Batch: 628968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	Filter to Air	
320-93641-3	GESPM091422-287	Total/NA	Air	Filter to Air	
320-93641-5	GESPM091422-288	Total/NA	Air	Filter to Air	
320-93641-7	GESPM100322-361	Total/NA	Air	Filter to Air	
MB 320-628968/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-628968/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-628968/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 628975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	3050B	628968
320-93641-3	GESPM091422-287	Total/NA	Air	3050B	628968
320-93641-5	GESPM091422-288	Total/NA	Air	3050B	628968
320-93641-7	GESPM100322-361	Total/NA	Air	3050B	628968
MB 320-628968/1-B	Method Blank	Total/NA	Air	3050B	628968
LCS 320-628968/2-B	Lab Control Sample	Total/NA	Air	3050B	628968
LCSD 320-628968/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	628968

Analysis Batch: 629478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	6020	628975
320-93641-3	GESPM091422-287	Total/NA	Air	6020	628975
320-93641-5	GESPM091422-288	Total/NA	Air	6020	628975
320-93641-7	GESPM100322-361	Total/NA	Air	6020	628975
MB 320-628968/1-B	Method Blank	Total/NA	Air	6020	628975
LCS 320-628968/2-B	Lab Control Sample	Total/NA	Air	6020	628975
LCSD 320-628968/3-B	Lab Control Sample Dup	Total/NA	Air	6020	628975

General Chemistry

Pre Prep Batch: 630343

Lab Sample ID 320-93641-2	Client Sample ID GESTSP091422-286	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-93641-4	GESTSP091422-280	Total/NA	Air	Filter to Air	
320-93641-6	GESTSP091422-288	Total/NA	Air	Filter to Air	
320-93641-8	GESTSP100322-361	Total/NA	Air	Filter to Air	

Analysis Batch: 630356

Lab Sample ID 320-93641-2	Client Sample ID GESTSP091422-286	Prep Type Total/NA	Matrix Air	Method 40CFR50 App B	Prep Batch 630343
320-93641-4	GESTSP091422-287	Total/NA	Air	40CFR50 App B	630343
320-93641-6	GESTSP091422-288	Total/NA	Air	40CFR50 App B	630343
320-93641-8	GESTSP100322-361	Total/NA	Air	40CFR50 App B	630343

Analysis Batch: 630375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93641-1	GESPM091422-286	Total/NA	Air	PM10	
320-93641-3	GESPM091422-287	Total/NA	Air	PM10	
320-93641-5	GESPM091422-288	Total/NA	Air	PM10	
320-93641-7	GESPM100322-361	Total/NA	Air	PM10	

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Client: GES-AIS LLC Job ID: 320-93641-1

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

Client Sample ID: GESPM091422-286

Lab Sample ID: 320-93641-1 Date Collected: 10/20/22 13:32

Matrix: Air

Batch Batch Dil Initial Batch Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Amount Amount Analyst Lab Total/NA Pre Prep Filter to Air 628968 10/31/22 05:00 EET SAC Total/NA 3050B 628975 100 mL 10/31/22 06:30 **EET SAC** Prep 0.08333 Sample Total/NA Analysis 6020 629478 **EET SAC** 11/01/22 10:30 Total/NA Analysis PM10 630375 10/26/22 16:00 0 g 0.0121 g **EET SAC**

Client Sample ID: GESTSP091422-286

Date Collected: 10/20/22 13:32

Lab Sample ID: 320-93641-2 **Matrix: Air**

Date Received: 10/26/22 09:20

Date Received: 10/26/22 09:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	40CFR50 App B		1			630356	10/26/22 16:00		EET SAC	
Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51		EET SAC	

Client Sample ID: GESPM091422-287

Lab Sample ID: 320-93641-3 Date Collected: 10/20/22 13:17

Matrix: Air

Date Received: 10/26/22 09:20

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					628968	10/31/22 05:00		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	628975	10/31/22 06:30		EET SAC
Total/NA	Analysis	6020		1			629478	11/01/22 10:39		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0096 g	630375	10/26/22 16:00		EET SAC

Client Sample ID: GESTSP091422-287

Lab Sample ID: 320-93641-4

Matrix: Air

Date Collected: 10/20/22 13:17 Date Received: 10/26/22 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			630356	10/26/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51		EET SAC

Client Sample ID: GESPM091422-288

Lab Sample ID: 320-93641-5

Matrix: Air

Date Collected: 10/25/22 06:45 Date Received: 10/26/22 09:20

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					628968	10/31/22 05:00		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	628975	10/31/22 06:30		EET SAC
Total/NA	Analysis	6020		1	•		629478	11/01/22 10:43		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0486 g	630375	10/26/22 16:00		EET SAC

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Lab Chronicle

Client: GES-AIS LLC Job ID: 320-93641-1

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

Client Sample ID: GESTSP091422-288

Lab Sample ID: 320-93641-6 Matrix: Air

Date Collected: 10/25/22 06:45 Date Received: 10/26/22 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			630356	10/26/22 16:00		EET SAC
Į	Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51		EET SAC

Client Sample ID: GESPM100322-361

Date Collected: 10/25/22 06:34

Date Received: 10/26/22 09:20

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					628968	10/31/22 05:00		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	628975	10/31/22 06:30		EET SAC
Total/NA	Analysis	6020		1			629478	11/01/22 10:46		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0224 g	630375	10/26/22 16:00		EET SAC

Client Sample ID: GESTSP100322-361

Date Collected: 10/25/22 06:34

Date Received: 10/26/22 09:20

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			630356	10/26/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					630343	11/04/22 12:51		EET SAC

Laboratory References:

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

Matrix: Air

Matrix: Air

Lab Sample ID: 320-93641-7

Lab Sample ID: 320-93641-8

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-93641-1

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

Laboratory: Eurofins Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date		
ANAB		pt. of Defense ELAP	L2468	01-20-24		
Oregon	NE	LAP	4040	01-29-23		
The following analytes	are included in this repor	rt, but the laboratory is not o	certified by the governing authority.	This list may include analytes for whi		
the agency does not o	offer certification.	•	, , ,	This list may include analytes for whi		
the agency does not o	•	rt, but the laboratory is not o	Analyte			
the agency does not o	offer certification.	•	, , ,			

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Method Summary

Client: GES-AIS LLC

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

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

Protocol References:

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

None = None

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

Laboratory References:

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

Job ID: 320-93641-1

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Sample Summary

Client: GES-AIS LLC Job ID: 320-93641-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93641-1	GESPM091422-286	Air	10/20/22 13:32	10/26/22 09:20
320-93641-2	GESTSP091422-286	Air	10/20/22 13:32	10/26/22 09:20
320-93641-3	GESPM091422-287	Air	10/20/22 13:17	10/26/22 09:20
320-93641-4	GESTSP091422-287	Air	10/20/22 13:17	10/26/22 09:20
320-93641-5	GESPM091422-288	Air	10/25/22 06:45	10/26/22 09:20
320-93641-6	GESTSP091422-288	Air	10/25/22 06:45	10/26/22 09:20
320-93641-7	GESPM100322-361	Air	10/25/22 06:34	10/26/22 09:20
320-93641-8	GESTSP100322-361	Air	10/25/22 06:34	10/26/22 09:20

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CHAIN-OF-CUSTODY RECORD

Gilhane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC# KT102522AIRE



Pro	roject Name: Hunters Point Shipyard, Parcel E RA Phase 2						Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN							Event: Parcel E Phase 2 Air							
Pro	ject Number: J310000400					POC:								Monitoring							
WB	S Code: J310000400-016	_				Sh	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605														
Comments: Equipment:				CAAIR - Air PM10	TSP	Air Pb Mn Cu									ive						
						-	NO500 - Air TSP	SW6020 -									320	-93641	Chain o	f Custod	y
_	Event: Parcel E Phase 2 Air	Monitoni	ng			1	1	1		-	-		4	-							
	Sample ID	1	D-4-	man .	Samp												Sample		(ft bgs)		
1	GESPM091422-286	Matrix	10/20/2022	Time	Init.	- V	-	V			-		-	-	Locat		Туре		Bottom	Cooler	Comments
2	GESTSP091422-286			1332		X	+	Х		+	-		\dashv	+	AM		N2	0.00	0.00	1	VOLUME: 481.74 (M3)
	GESPM091422-287	A	10/20/2022	1332			×		-	_	-	Н	-	-	AM		N2	0.00	0.00	1	VOLUME: 460.42 (M3)
3		A	10/20/2022	1317		X	+	X		\bot	\downarrow	Ш	_	4		SE2	N2	0.00	0.00	1	VOLUME: 492.35 (M3)
4	GESTSP091422-287	Α	10/20/2022	1317		_	X	Щ		\bot	\perp				AM	SE2	N2	0.00	0.00	1	VOLUME: 490.90 (M3)
5	GESPM091422-288	A	10/25/2022	0645	_	×	上	Х							AM	SE1	N1	0.00	0.00	1	VOLUME: 1675.09 (M3)
6	GESTSP091422-288	A	10/25/2022	0645			X								AMS	SE1	N1	0.00	0.00	1	VOLUME: 1599.97 (M3)
7	GESPM100322-361	A	10/25/2022	0634		X		Х							AM	SE2	N1	0.00	0.00	1	VOLUME: 1755.85 (M3)
8	GESTSP100322-361	Α	10/25/2022	0634			Х				Г	П			AMS	SE2	N1	0.00	0.00	1	VOLUME: 1746.73 (M3)
9												П			Monta.	J					
10							Г					П									
Turi	naround Time: 5 days																				
Dal	inguished by (Cinneture)		Date	T																	
Kei	inquished by: (Signature)		Date	Time	Receive	ed by	ı: (Si	gnat	ture)						Date	Time	Shipping D				
-			10/25/22	1600	Fe	ede	EX							10/.	25/22	1600	Shipping Da	ite: 10/2	:5/2022 /	FedEx 7	702 8947 8817
														10-0	600	0920					
																Received b	y Labor	ratory: (Signatur	e, Date, Time) & condition	
GES.	Navy_COC_Field er 25, 2022																				

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Client: GES-AIS LLC Job Number: 320-93641-1

Login Number: 93641

List Number: 1
Creator:

Answer Comment Question Radioactivity wasn't checked or is </= background as measured by a survey The cooler's custody seal, if present, is intact. True **SEAL** N/A Sample custody seals, if present, are intact. The cooler or samples do not appear to have been compromised or True tampered with. False Samples were received on ice. 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 True HTs) 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 N/A Sample Preservation Verified. There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs Containers requiring zero headspace have no headspace or bubble is True <6mm (1/4"). Multiphasic samples are not present. True Samples do not require splitting or compositing. True

N/A

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List Source: Eurofins Sacramento

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Residual Chlorine Checked.



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Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 320-93743-1

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

For:

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

Attn:



Authorized for release by: 11/8/2022 10:51:17 AM

, Project Manager I

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

Client: GES-AIS LLC

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

Laboratory Job ID: 320-93743-1

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-93743-1

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

Quality Control

Relative Error Ratio (Radiochemistry)

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

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Glossary

QC

RER

RL RPD

TEF

TEQ TNTC

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

Eurofins Sacramento

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Case Narrative

Client: GES-AIS LLC Job ID: 320-93743-1

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

Job ID: 320-93743-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-93743-1

Comments

No additional comments.

Receipt

The samples were received on 10/28/2022 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 21.5° C.

Metals

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

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Client: GES-AIS LLC Job ID: 320-93743-1

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

Client Sample ID:	GESPM100322-362
--------------------------	-----------------

Lab Sample ID: 320-93743-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	d Prep Type
Lead	0.0062	0.00070	0.00010	ug/m3 (Air)	1	6020	Total/NA
Copper	0.14	0.0014	0.00010	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.017	0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	39	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP100322-362

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	62.3055	0.3033	0.3033 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-363

Lab Sample ID: 320-93743-3

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0024	0.00068	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.016	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0050	0.00068	0.000096	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: GESTSP100322-363

Lab Sample ID: 320-93743-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	39.9633	0.2834	0.2834 ug/m3 (Air)		40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-364

Lab Sample ID: 320-93743-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D N	lethod	Prep Type
Lead	0.0075	0.00071	0.00011	ug/m3 (Air)	1	_ 6	020	Total/NA
Copper	0.17	0.0014	0.00011	ug/m3 (Air)	1	6	020	Total/NA
Manganese	0.018	0.00071	0.000099	ug/m3 (Air)	1	6	020	Total/NA
Particulate Matter as PM 10	40	0.29	0.29	ug/m3	1	F	M10	Total/NA

Client Sample ID: GESTSP100322-364

Lab Sample ID: 320-93743-6

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	57.3767	0.3279	0.3279 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-365

Lab Sample ID: 320-93743-7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031	0.0017	0.00025	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.041	0.0034	0.00025	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0093	0.0017	0.00024	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29	0.70	0.70	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-365

Lab Sample ID: 320-93743-8

Analyte	Posult	Qualifier	DI	DI	Unit	Dil Fac	n	Method	Prep Type	
Allalyte	Nesuit	Qualifiei	KL	KL	Ollit	Diriac	_	Metriou	rieb ishe	
Total Suspended Particulates	47 2343		0.7050	0.7050	ug/m3 (Air)	1		40CFR50 App B	Total/NA	

This Detection Summary does not include radiochemical test results.

11/8/2022

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93743-1

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

Client Sample ID: GESPM100322-362

Lab Sample ID: 320-93743-1 Date Collected: 10/26/22 06:54 Matrix: Air

Date Received: 10/28/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

	,							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0062	0.00070	0.00010	ug/m3 (Air)	_	11/02/22 06:10	11/02/22 12:22	1
Copper	0.14	0.0014	0.00010	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:22	1
Manganese	0.017	0.00070	0.000098	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:22	1

General Chemistry Analyte Result Qualifier RL **RL Unit** Prepared Analyzed Dil Fac 10/31/22 07:30 Particulate Matter as PM 10 0.29 39 0.29 ug/m3 (40CFR50J PM10)

Client Sample ID: GESTSP100322-362

Date Collected: 10/26/22 06:54

Date Received: 10/28/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte	Result Quali	fier RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	62.3055	0.3033	0.3033	ug/m3 (Air)	_		10/31/22 07:30	1

Lab Sample ID: 320-93743-3 Client Sample ID: GESPM100322-363

Date Collected: 10/26/22 06:44 Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

Method: SW846 6020 -	Metals (ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024	0.00068	0.00010	ug/m3 (Air)	_	11/02/22 06:10	11/02/22 12:31	1
Copper	0.016	0.0014	0.00010	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:31	1
Manganese	0.0050	0.00068	0.000096	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:31	1

General Chemistry Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.29 Particulate Matter as PM 10 24 0.29 ug/m3 10/31/22 07:30 (40CFR50J PM10)

Client Sample ID: GESTSP100322-363 Lab Sample ID: 320-93743-4

Date Collected: 10/26/22 06:44 Date Received: 10/28/22 09:35

Sample Container: Folder/Filter

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	39.9633		0.2834	0.2834	ug/m3 (Air)			10/31/22 07:30	1

Eurofins Sacramento

11/8/2022

Lab Sample ID: 320-93743-2

Matrix: Air

Matrix: Air

Matrix: Air

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93743-1

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

Client Sample ID: GESPM100322-364

Lab Sample ID: 320-93743-5

Date Collected: 10/27/22 06:43 Matrix: Air

Date Received: 10/28/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00071 11/02/22 12:35 Lead 0.00011 ug/m3 (Air) 11/02/22 06:10 0.0075 Copper 0.17 0.0014 0.00011 ug/m3 (Air) 11/02/22 06:10 11/02/22 12:35

Manganese 0.00071 0.000099 ug/m3 (Air) 11/02/22 06:10 11/02/22 12:35 0.018

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 40 0.29 ug/m3 10/31/22 07:30 (40CFR50J PM10)

Client Sample ID: GESTSP100322-364 Lab Sample ID: 320-93743-6

Date Collected: 10/27/22 06:43 Matrix: Air

Date Received: 10/28/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac 0.3279 ug/m3 (Air) **Total Suspended Particulates** 0.3279 10/31/22 07:30 57.3767 (EPA 40CFR50 App B)

Client Sample ID: GESPM100322-365 Lab Sample ID: 320-93743-7

Date Collected: 10/27/22 06:33 Matrix: Air

Date Received: 10/28/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.0017 11/02/22 06:10 11/02/22 12:38 Lead 0.0031 0.00025 ug/m3 (Air) Copper 0.041 0.0034 0.00025 ug/m3 (Air) 11/02/22 06:10 11/02/22 12:38 0.0017 0.00024 ug/m3 (Air) 11/02/22 06:10 11/02/22 12:38 Manganese 0.0093

General Chemistry Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.70 Particulate Matter as PM 10 29 0.70 ug/m3 10/31/22 07:30 (40CFR50J PM10)

Client Sample ID: GESTSP100322-365 Lab Sample ID: 320-93743-8

Date Collected: 10/27/22 06:33 Matrix: Air

Date Received: 10/28/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac **Total Suspended Particulates** 47.2343 0.7050 10/31/22 07:30 0.7050 ug/m3 (Air) (EPA 40CFR50 App B)

Eurofins Sacramento

11/8/2022

QC Sample Results

Client: GES-AIS LLC Job ID: 320-93743-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-629611/1-B

Lab Sample ID: LCS 320-629611/2-B

Matrix: Air

Matrix: Air

Manganese

Analysis Batch: 629826

Prep Type: Total/NA

Prep Batch: 629626

	MB MB							
Analyte	Result Quali	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND	0.0012	0.00018	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:12	1
Copper	ND	0.0024	0.00018	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:12	1
Manganese	ND	0.0012	0.00017	ug/m3 (Air)		11/02/22 06:10	11/02/22 12:12	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 629826							Prep Bate	ch: 629626
_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.240	0.239		ug/m3 (Air)	_	100	86 - 111	
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	
Manganese	0.240	0.246		ug/m3 (Air)		103	88 - 110	

Lab Sample ID: LCSD 320-629611/3-B **Client Sample ID: Lab Control Sample Dup Matrix: Air** Prep Type: Total/NA

0.247

ug/m3 (Air)

103

88 - 110

Analysis Batch: 629826

Prep Batch: 629626 LCSD LCSD Spike %Rec RPD Added Limits Result Qualifier Unit RPD Limit **Analyte** D %Rec 86 - 111 Lead 0.240 0.246 ug/m3 (Air) 102 3 15 Copper 0.240 0.245 ug/m3 (Air) 102 85 - 110 1 15

0.240

15

0

Eurofins Sacramento

11/8/2022

QC Association Summary

Client: GES-AIS LLC Job ID: 320-93743-1

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

Metals

Pre Prep Batch: 629611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-1	GESPM100322-362	Total/NA	Air	Filter to Air	
320-93743-3	GESPM100322-363	Total/NA	Air	Filter to Air	
320-93743-5	GESPM100322-364	Total/NA	Air	Filter to Air	
320-93743-7	GESPM100322-365	Total/NA	Air	Filter to Air	
MB 320-629611/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-629611/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-629611/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 629626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-1	GESPM100322-362	Total/NA	Air	3050B	629611
320-93743-3	GESPM100322-363	Total/NA	Air	3050B	629611
320-93743-5	GESPM100322-364	Total/NA	Air	3050B	629611
320-93743-7	GESPM100322-365	Total/NA	Air	3050B	629611
MB 320-629611/1-B	Method Blank	Total/NA	Air	3050B	629611
LCS 320-629611/2-B	Lab Control Sample	Total/NA	Air	3050B	629611
LCSD 320-629611/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	629611

Analysis Batch: 629826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
320-93743-1	GESPM100322-362	Total/NA	Air	6020	629626	
320-93743-3	GESPM100322-363	Total/NA	Air	6020	629626	
320-93743-5	GESPM100322-364	Total/NA	Air	6020	629626	
320-93743-7	GESPM100322-365	Total/NA	Air	6020	629626	
MB 320-629611/1-B	Method Blank	Total/NA	Air	6020	629626	
LCS 320-629611/2-B	Lab Control Sample	Total/NA	Air	6020	629626	
LCSD 320-629611/3-B	Lab Control Sample Dup	Total/NA	Air	6020	629626	

General Chemistry

Pre Prep Batch: 631107

Lab Sample ID 320-93743-2	Client Sample ID GESTSP100322-362	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-93743-2	GESTSP100322-362 GESTSP100322-363	Total/NA	Air	Filler to Air	
320-93743-6	GESTSP100322-364	Total/NA	Air	Filter to Air	
320-93743-8	GESTSP100322-365	Total/NA	Air	Filter to Air	

Analysis Batch: 631118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-1	GESPM100322-362	Total/NA	Air	PM10	
320-93743-3	GESPM100322-363	Total/NA	Air	PM10	
320-93743-5	GESPM100322-364	Total/NA	Air	PM10	
320-93743-7	GESPM100322-365	Total/NA	Air	PM10	

Analysis Batch: 631119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93743-2	GESTSP100322-362	Total/NA	Air	40CFR50 App B	631107
320-93743-4	GESTSP100322-363	Total/NA	Air	40CFR50 App B	631107
320-93743-6	GESTSP100322-364	Total/NA	Air	40CFR50 App B	631107
320-93743-8	GESTSP100322-365	Total/NA	Air	40CFR50 App B	631107

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Job ID: 320-93743-1

Client: GES-AIS LLC

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

Client Sample ID: GESPM100322-362

Lab Sample ID: 320-93743-1 Date Collected: 10/26/22 06:54 Date Received: 10/28/22 09:35

Matrix: Air

Batch Batch Batch Dil Initial Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA Pre Prep Filter to Air 629611 EET SAC 11/02/22 04:56 Total/NA 3050B 100 mL 629626 11/02/22 06:10 **EET SAC** Prep 0.08333 Sample Total/NA 6020 629826 Analysis 11/02/22 12:22 **EET SAC** 1 Analysis 10/31/22 07:30 Total/NA PM₁₀ 0 g 0.0661 g 631118 **EET SAC**

Client Sample ID: GESTSP100322-362

Lab Sample ID: 320-93743-2

Matrix: Air

Date Collected: 10/26/22 06:54 Date Received: 10/28/22 09:35

Dil Initial Batch Batch Final Batch Prepared Method **Amount** Amount Number or Analyzed **Prep Type** Type Run **Factor** Analyst Lab Total/NA 40CFR50 App B 631119 10/31/22 07:30 EET SAC Analysis Total/NA Pre Prep Filter to Air 631107 11/08/22 09:01 **EET SAC**

Client Sample ID: GESPM100322-363

Lab Sample ID: 320-93743-3 Date Collected: 10/26/22 06:44 Matrix: Air

Date Received: 10/28/22 09:35

Batch Dil Initial Final Batch Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Pre Prep Filter to Air 629611 11/02/22 04:56 EET SAC 3050B Total/NA Prep 629626 11/02/22 06:10 **EET SAC** 0.08333 100 mL Sample Total/NA Analysis 6020 629826 11/02/22 12:31 **EET SAC** Total/NA Analysis PM10 1 0 g 0.0419 g 631118 10/31/22 07:30 **EET SAC**

Client Sample ID: GESTSP100322-363

Lab Sample ID: 320-93743-4 Date Collected: 10/26/22 06:44

Date Received: 10/28/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631119	10/31/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01		EET SAC

Client Sample ID: GESPM100322-364

Date Collected: 10/27/22 06:43 Matrix: Air

Date Received: 10/28/22 09:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					629611	11/02/22 04:56		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	629626	11/02/22 06:10		EET SAC
Total/NA	Analysis	6020		1	•		629826	11/02/22 12:35		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0676 g	631118	10/31/22 07:30		EET SAC

Eurofins Sacramento

11/8/2022

Matrix: Air

Lab Chronicle

Client: GES-AIS LLC Job ID: 320-93743-1

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

Pre Prep

Client Sample ID: GESTSP100322-364

Lab Sample ID: 320-93743-6 Matrix: Air

Date Collected: 10/27/22 06:43 Date Received: 10/28/22 09:35

Batch Batch Dil Initial Final Batch Prepared Method or Analyzed **Prep Type** Type Run **Factor** Amount **Amount** Number Analyst Total/NA Analysis 40CFR50 App B 631119 10/31/22 07:30 EET SAC

Filter to Air

Client Sample ID: GESPM100322-365 Lab Sample ID: 320-93743-7 Date Collected: 10/27/22 06:33 Matrix: Air

Date Received: 10/28/22 09:35

Total/NA

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					629611	11/02/22 04:56		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	629626	11/02/22 06:10		EET SAC
Total/NA	Analysis	6020		1			629826	11/02/22 12:38		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0204 g	631118	10/31/22 07:30		EET SAC

Client Sample ID: GESTSP100322-365

Lab Sample ID: 320-93743-8 Date Collected: 10/27/22 06:33 Matrix: Air

Date Received: 10/28/22 09:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631119	10/31/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01		EET SAC

Laboratory References:

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

EET SAC

11/08/22 09:01

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-93743-1

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

Laboratory: Eurofins Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date		
ANAB	Dept. of Defen		L2468	01-20-24		
Oregon		ELAP	4040	01-29-23		
The following analyte	s are included in this repo	ort, but the laboratory is not	certified by the governing authority.	This list may include		
the agency does not	offer certification.	,	, , ,	This list may include		
the agency does not of Analysis Method	•	Matrix	Analyte	· 		
the agency does not	offer certification.	,	, , ,	· 		

Method Summary

Client: GES-AIS LLC

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

Laboratory Method **Method Description** Protocol Metals (ICP/MS) SW846 EET SAC 6020 Suspended Particulate Matter in Ambient Air EPA 40CFR50 App B **EET SAC** PM10 Particulate Matter 40CFR50J **EET SAC** SW846 3050B Preparation, Metals EET SAC

Protocol References:

Filter to Air

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

Filter to Air volume ratio

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

Job ID: 320-93743-1

EET SAC

None

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Sample Summary

Client: GES-AIS LLC Job ID: 320-93743-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93743-1	GESPM100322-362	Air	10/26/22 06:54	10/28/22 09:35
320-93743-2	GESTSP100322-362	Air	10/26/22 06:54	10/28/22 09:35
320-93743-3	GESPM100322-363	Air	10/26/22 06:44	10/28/22 09:35
320-93743-4	GESTSP100322-363	Air	10/26/22 06:44	10/28/22 09:35
320-93743-5	GESPM100322-364	Air	10/27/22 06:43	10/28/22 09:35
320-93743-6	GESTSP100322-364	Air	10/27/22 06:43	10/28/22 09:35
320-93743-7	GESPM100322-365	Air	10/27/22 06:33	10/28/22 09:35
320-93743-8	GESTSP100322-365	Air	10/27/22 06:33	10/28/22 09:35

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Gilbane Federal

Proj	ject Name: Hunters Point Shi	pyard,	Parcel E RA Ph	ase 2		Labo	rato	ory: E	EUR	OFIN:	SEN	VIR	MNC	ENT	TESTING NO	DRTHERN	CALIFORN	IA, LLC	(EETN	Event: F	Parcel E Phase 2 Air
Proj	ject Number: J310000400					POC													1	Monito	
WB	S Code: J310000400-016					Ship	to:	880	Rive	rside	Park	way,	Wes	st Sa	acramento, CA	95605					
Comments: Equipment:								Pb Mn Cu									ive				
Equ	ipment:				Analytical Test Method	CAAIR - Air	N0500 - Air T	SW6020 - Air Pb !									320-9	3743 Ch	ain of Cu	istody	
	Event: Parcel E Phase 2 Air N	Nonitorin	g			1	1	1													
	Sample ID	Matrix	Date	Time	Samp Init.										Locati	ion ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM100322-362	Α	10/26/2022	0654		x		Х							AMS	SE1	N1	0.00	0.00	1	VOLUME: 1715.94 (M3)
2	GESTSP100322-362	Α	10/26/2022	0654	11		Х								AMS	SE1	N1	0.00	0.00	1	VOLUME: 1648.33 (M3)
3	GESPM100322-363	Α	10/26/2022	0644		X		Х						П	AMS	SE2	N1	0.00	0.00	1	VOLUME: 1753.50 (M3)
4	GESTSP100322-363	Α	10/26/2022	0644			х	\Box		Т	Π				AMS	SE2	N1	0.00	0.00	1	VOLUME: 1764.12 (M3)
5	GESPM100322-364	Α	10/27/2022	0643		Χ		х			П				AMS	SE1	N1	0.00	0.00	1	VOLUME: 1695.24 (M3)
6	GESTSP100322-364	Α	10/27/2022	0643			х								AMS	SE1	N1	0.00	0.00	1	VOLUME: 1525.01 (M3)
7	GESPM100322-365	Α	10/27/2022	0633		X		Х			Г			П	AMS	SE2	N1	0.00	0.00	1	VOLUME: 711.25 (M3)
8	GESTSP100322-365	Α	10/27/2022	0633			x								AMS	SE2	N1	0.00	0.00	1	VOLUME: 709.23 (M3)
9													_}	636	<i>J</i> °						
10																					
Turi	naround Time: 5 days																				
Rali	inquished by: (Signature)		Date	Time	Received	h	/C:-								5.4						
-	inquisited by: (Signature)	-	Date						ure)				-		Date	Time	Shipping [
10/27/22 /600						FedEX						10/27/22 1600 S W-18n 0535			Shipping Date: 10/27/2022 / FedEx 7703 1543 2312						
														00	con	V (2)	Received b	y Labo	ratory: (Signatur	e, Date, Time) & condition
-		-																			

GES.Navy_COC_Field October 27, 2022

11/8/2022

21. (° C

Page 1 of 1



























List Source: Eurofins Sacramento

Client: GES-AIS LLC Job Number: 320-93743-1

Login Number: 93743

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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Environment Testing

ANALYTICAL REPORT

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

Laboratory Job ID: 320-93855-1

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

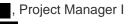
For:

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

Attn:



Authorized for release by: 11/8/2022 3:22:00 PM



LINKS

Review your project results through

Have a Question?



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

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

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

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-93855-1

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

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

MQL Method Quantitation Limit NC Not Calculated

ML

MPN

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

Minimum Level (Dioxin)

Most Probable Number

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: GES-AIS LLC Job ID: 320-93855-1

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

Job ID: 320-93855-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-93855-1

Comments

No additional comments.

Receipt

The samples were received on 11/2/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.4° C.

Metals

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

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Client: GES-AIS LLC Job ID: 320-93855-1

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

Lab Sample ID: 320-93855-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0063	0.0020	0.00030	ug/m3 (Air)	1	6020	Total/NA
Copper	0.16	0.0040	0.00030	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.019	0.0020	0.00028	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	30	0.84	0.84	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP100322-366	Lab Sample ID: 320-93855-2

Analyte	Result Qualifier	RL	RL Unit	t Dil Fac	D Method	Prep Type
Total Suspended Particulates	36.4372	0.8801	0.8801 ug/m	m3 (Air) 1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-367

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Me	thod	Prep Type
Lead	0.0030	0.0020	0.00030	ug/m3 (Air)	1	60	20	Total/NA
Copper	0.18	0.0039	0.00030	ug/m3 (Air)	1	60	20	Total/NA
Manganese	0.0077	0.0020	0.00028	ug/m3 (Air)	1	60	20	Total/NA
Particulate Matter as PM 10	20	0.82	0.82	ug/m3	1	PI\	110	Total/NA

Client Sample ID: GESTSP100322-367

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	38.7838	0.8182	0.8182 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-368

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027	0.00071	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.085	0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0091	0.00071	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22	0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-368

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	28.9929	0.3104	0.3104 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-369

_ Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023	0.00068	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.35	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0064	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: GESTSP100322-369

_						
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	25.5382	0.2844	0.2844 ug/m3 (Air)		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 320-93855-3

Lab Sample ID: 320-93855-4

Lab Sample ID: 320-93855-5

Lab Sample ID: 320-93855-6

Lab Sample ID: 320-93855-7

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93855-1

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

Client Sample ID: GESPM100322-366

Lab Sample ID: 320-93855-1 Date Collected: 10/27/22 15:05

Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)									
	Analyte	Result Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
	Lead	0.0063	0.0020	0.00030 t	ug/m3 (Air)	_	11/07/22 11:10	11/07/22 14:37	1
	Copper	0.16	0.0040	0.00030 ι	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:37	1
	Manganese	0.019	0.0020	0.00028 ι	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:37	1

General Chen Analyte	nistry	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matt (40CFR50J PM1		30		0.84	0.84	ug/m3			11/03/22 07:30	1

Lab Sample ID: 320-93855-2 Client Sample ID: GESTSP100322-366 Date Collected: 10/27/22 15:05 Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.8801 0.8801 ug/m3 (Air) 11/03/22 07:30 36.4372 (EPA 40CFR50 App B)

Client Sample ID: GESPM100322-367 Lab Sample ID: 320-93855-3

Date Collected: 10/27/22 14:53 Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

Method: SW846 6020 -	Method: SW846 6020 - Metals (ICP/MS)							
Analyte	Result Qualif	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030	0.0020	0.00030	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:46	1
Copper	0.18	0.0039	0.00030	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:46	1
Manganese	0.0077	0.0020	0.00028	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:46	1

General Chemistry								
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10 (40CFR50J PM10)	20	0.82	0.82	ug/m3			11/03/22 07:30	1

Lab Sample ID: 320-93855-4 Client Sample ID: GESTSP100322-367

Date Collected: 10/27/22 14:53 Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

General Chemistry	Decult	Ovalifier	DI	DI	11m:4	_	Dramavad	A malumad	Dil Faa
Analyte	Result	Qualifier	RL	KL	Unit	ט	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	38.7838		0.8182	0.8182	ug/m3 (Air)			11/03/22 07:30	1

Client Sample Results

Client: GES-AIS LLC Job ID: 320-93855-1

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

Client Sample ID: GESPM100322-368

Lab Sample ID: 320-93855-5 Date Collected: 11/01/22 06:41

Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

Method:	SW846	6020	- Metals	(ICP/MS)
				_

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027	0.00071	0.00011	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:49	1
Copper	0.085	0.0014	0.00011	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:49	1
Manganese	0.0091	0.00071	0.00010	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:49	1

General Chemistry

Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22	0.30	0.30	ug/m3			11/03/22 07:30	1
(40CFR50J PM10)								

Client Sample ID: GESTSP100322-368

Lab Sample ID: 320-93855-6 Date Collected: 11/01/22 06:41 Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

General Chemistry

Ocheral Onemistry								
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	28.9929	0.3104	0.3104	ug/m3 (Air)			11/03/22 07:30	1
(EPA 40CFR50 App B)								

Client Sample ID: GESPM100322-369

Lab Sample ID: 320-93855-7 Date Collected: 11/01/22 06:31 Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

Mothod: SW846 6020 - Motale (ICD/MS)

Welliou. 344040 6020 - Welais	(ICP/IVIO)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0023	0.00068	0.00010	ug/m3 (Air)	_	11/07/22 11:10	11/07/22 14:53	1
Copper	0.35	0.0014	0.00010	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:53	1
Manganese	0.0064	0.00068	0.000096	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.28	0.28	ug/m3			11/03/22 07:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP100322-369

Lab Sample ID: 320-93855-8 Date Collected: 11/01/22 06:31 Matrix: Air

Date Received: 11/02/22 09:30 Sample Container: Folder/Filter

_			
Car	NO MOL	Chem	intm.
1 1 1	IHI AI	CALIBITI	ISIIV

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	25.5382		0.2844	0.2844	ug/m3 (Air)			11/03/22 07:30	1

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QC Sample Results

Client: GES-AIS LLC Job ID: 320-93855-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-630819/1-B

Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA Prep Batch: 630871 Analysis Batch: 631043 MD MD

Analyte	Result Qualif	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND ND	0.0012	0.00018	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:27	1
Copper	ND	0.0024	0.00018	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:27	1
Manganese	ND	0.0012	0.00017	ug/m3 (Air)		11/07/22 11:10	11/07/22 14:27	1

Lab Sample ID: LCS 320-630819/2-B **Client Sample ID: Lab Control Sample** Matrix: Air **Prep Type: Total/NA Analysis Batch: 631043 Prep Batch: 630871**

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.240	0.253		ug/m3 (Air)	_	105	86 - 111	
Copper	0.240	0.247		ug/m3 (Air)		103	85 - 110	
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110	

Lab Sample ID: LCSD 320-630819/3-B **Client Sample ID: Lab Control Sample Dup Matrix: Air** Prep Type: Total/NA **Analysis Batch: 631043 Prep Batch: 630871**

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.253		ug/m3 (Air)	_	106	86 - 111	0	15
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110	1	15

QC Association Summary

Client: GES-AIS LLC Job ID: 320-93855-1

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

Metals

Pre Prep Batch: 630819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	Filter to Air	
320-93855-3	GESPM100322-367	Total/NA	Air	Filter to Air	
320-93855-5	GESPM100322-368	Total/NA	Air	Filter to Air	
320-93855-7	GESPM100322-369	Total/NA	Air	Filter to Air	
MB 320-630819/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-630819/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-630819/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 630871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	3050B	630819
320-93855-3	GESPM100322-367	Total/NA	Air	3050B	630819
320-93855-5	GESPM100322-368	Total/NA	Air	3050B	630819
320-93855-7	GESPM100322-369	Total/NA	Air	3050B	630819
MB 320-630819/1-B	Method Blank	Total/NA	Air	3050B	630819
LCS 320-630819/2-B	Lab Control Sample	Total/NA	Air	3050B	630819
LCSD 320-630819/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	630819

Analysis Batch: 631043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	6020	630871
320-93855-3	GESPM100322-367	Total/NA	Air	6020	630871
320-93855-5	GESPM100322-368	Total/NA	Air	6020	630871
320-93855-7	GESPM100322-369	Total/NA	Air	6020	630871
MB 320-630819/1-B	Method Blank	Total/NA	Air	6020	630871
LCS 320-630819/2-B	Lab Control Sample	Total/NA	Air	6020	630871
LCSD 320-630819/3-B	Lab Control Sample Dup	Total/NA	Air	6020	630871

General Chemistry

Pre Prep Batch: 631015

Lab Sample ID 320-93855-2	Client Sample ID GESTSP100322-366	Prep Type Total/NA	Matrix Air	Method Filter to Air	Prep Batch
320-93855-4	GESTSP100322-367	Total/NA	Air	Filter to Air	
320-93855-6	GESTSP100322-368	Total/NA	Air	Filter to Air	
320-93855-8	GESTSP100322-369	Total/NA	Air	Filter to Air	

Analysis Batch: 631028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-1	GESPM100322-366	Total/NA	Air	PM10	
320-93855-3	GESPM100322-367	Total/NA	Air	PM10	
320-93855-5	GESPM100322-368	Total/NA	Air	PM10	
320-93855-7	GESPM100322-369	Total/NA	Air	PM10	

Analysis Batch: 631111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-93855-2	GESTSP100322-366	Total/NA	Air	40CFR50 App B	631015
320-93855-4	GESTSP100322-367	Total/NA	Air	40CFR50 App B	631015
320-93855-6	GESTSP100322-368	Total/NA	Air	40CFR50 App B	631015
320-93855-8	GESTSP100322-369	Total/NA	Air	40CFR50 App B	631015

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Client: GES-AIS LLC Job ID: 320-93855-1

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

Client Sample ID: GESPM100322-366

Date Collected: 10/27/22 15:05 Date Received: 11/02/22 09:30 Lab Sample ID: 320-93855-1

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10		EET SAC
Total/NA	Analysis	6020		1			631043	11/07/22 14:37		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0177 g	631028	11/03/22 07:30		EET SAC

Client Sample ID: GESTSP100322-366

Date Collected: 10/27/22 15:05 Date Received: 11/02/22 09:30 Lab Sample ID: 320-93855-2

Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631111	11/03/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48		EET SAC

Client Sample ID: GESPM100322-367

Date Collected: 10/27/22 14:53 Date Received: 11/02/22 09:30 Lab Sample ID: 320-93855-3

Lab Sample ID: 320-93855-4

Lab Sample ID: 320-93855-5

Matrix: Air

Matrix: Air

Matrix: Air

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10		EET SAC
Total/NA	Analysis	6020		1	•		631043	11/07/22 14:46		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0120 g	631028	11/03/22 07:30		EET SAC

Client Sample ID: GESTSP100322-367

Date Collected: 10/27/22 14:53

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631111	11/03/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48		EET SAC

Client Sample ID: GESPM100322-368

Date Collected: 11/01/22 06:41

Date Received: 11/02/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10		EET SAC
Total/NA	Analysis	6020		1			631043	11/07/22 14:49		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0366 g	631028	11/03/22 07:30		EET SAC

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Lab Chronicle

Client: GES-AIS LLC Job ID: 320-93855-1

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

Client Sample ID: GESTSP100322-368

Lab Sample ID: 320-93855-6 Date Collected: 11/01/22 06:41

Matrix: Air

Date Received: 11/02/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			631111	11/03/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48		EET SAC

Client Sample ID: GESPM100322-369

Date Collected: 11/01/22 06:31

Lab Sample ID: 320-93855-7

Matrix: Air

Date Received: 11/02/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					630819	11/07/22 09:35		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	630871	11/07/22 11:10		EET SAC
Total/NA	Analysis	6020		1			631043	11/07/22 14:53		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0411 g	631028	11/03/22 07:30		EET SAC

Client Sample ID: GESTSP100322-369

Lab Sample ID: 320-93855-8 Date Collected: 11/01/22 06:31 Matrix: Air

Date Received: 11/02/22 09:30

_	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			631111	11/03/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631015	11/07/22 15:48		EET SAC

Laboratory References:

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

Eurofins Sacramento

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-93855-1

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

Laboratory: Eurofins Sacramento

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

Authority	Pro	ogram	Identification Number	Expiration Date			
ANAB	De	pt. of Defense ELAP	L2468	01-20-24			
Oregon		ELAP	4040	01-29-23			
	•	ort, but the laboratory is not	certified by the governing authority.	This list may include analytes for wh			
the agency does not o	offer certification.	,	, , ,	This list may include analytes for wh			
the agency does not on Analysis Method	•	rt, but the laboratory is not	Analyte				
the agency does not o	offer certification.	,	, , ,				

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Method Summary

Client: GES-AIS LLC

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

Laboratory Method **Method Description** Protocol Metals (ICP/MS) SW846 EET SAC 6020 Suspended Particulate Matter in Ambient Air EPA 40CFR50 App B **EET SAC** PM10 Particulate Matter 40CFR50J **EET SAC** SW846 3050B Preparation, Metals EET SAC

Protocol References:

Filter to Air

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

Filter to Air volume ratio

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

Job ID: 320-93855-1

EET SAC

None

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Sample Summary

Client: GES-AIS LLC Job ID: 320-93855-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-93855-1	GESPM100322-366	Air	10/27/22 15:05	11/02/22 09:30
320-93855-2	GESTSP100322-366	Air	10/27/22 15:05	11/02/22 09:30
320-93855-3	GESPM100322-367	Air	10/27/22 14:53	11/02/22 09:30
320-93855-4	GESTSP100322-367	Air	10/27/22 14:53	11/02/22 09:30
320-93855-5	GESPM100322-368	Air	11/01/22 06:41	11/02/22 09:30
320-93855-6	GESTSP100322-368	Air	11/01/22 06:41	11/02/22 09:30
320-93855-7	GESPM100322-369	Air	11/01/22 06:31	11/02/22 09:30
320-93855-8	GESTSP100322-369	Air	11/01/22 06:31	11/02/22 09:30

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CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC# KT110122AIRE



Pro	ject Name: Hunters Point Sh	ipyard,	Parcel E RA P	hase 2		La	bora	tory:	EUR	OFIN	SEN	VIR	ONN	MEN	IT TESTING N	ORTHER	CALIFORN	A. LLC	(FETN	Event:	Parcel E Phase 2 Air
Pro	ject Number: J310000400					PC												,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(===114	Monitoring	
WB	S Code: J310000400-016					Sh	ip to	: 880	Rive	rside	Park	way	, We	st S	Sacramento, C/	A 95605					
	mments: uipment:				Analytica Test Method		- Air TSP	0 - Air Pb Mn Cu							Code Ma	atrix		93855 C	hain of (Custody	
	Event: Parcel E Phase 2 Air I	Monitorii	na			1	1			+	+										
	Sample ID	Matrix		Time	Samp Init.										Locat	ion ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM100322-366	A	10/27/2022	1505		X		Х							AM	SE1	N2	0.00	0.00	1	VOLUME: 593.09 (M3)
2	GESTSP100322-366	Α	10/27/2022	1505			Х								AM	SE1	N2	0.00	0.00	1	VOLUME: 568.10 (M3)
3	GESPM100322-367	A	10/27/2022	1453		X		Х							AM	SE2	N2	0.00	0.00	1	VOLUME: 609.62 (M3)
4	GESTSP100322-367	Α	10/27/2022	1453		П	Х			T					AM	SE2	N2	0.00	0.00	1	VOLUME: 611.08 (M3)
5	GESPM100322-368	Α	11/01/2022	0641		X		Х			Т				AM	SE1	N1	0.00	0.00	1	VOLUME: 1683.45 (M3)
6	GESTSP100322-368	Α	11/01/2022	0641		П	X			T					AM	SE1	N1	0.00	0.00	1	VOLUME: 1610.74 (M3)
7	GESPM100322-369	Α	11/01/2022	0631		X		Х							AM	SE2	N1	0.00	0.00	1	VOLUME: 1758.61 (M3)
8	GESTSP100322-369	Α	11/01/2022	0631			Х	П					Ι.	1	AM	SE2	N1	0.00	0.00	1	VOLUME: 1758.15 (M3)
9												١, ١	01	V							
10												14									
Tur	naround Time: 5 days																				
Pal	linquished by: (Signature)		Date	Time	Danaina	ما ام	. /0		41												
176	inquisited by: (Signature)		/ /	Time	Receive			igna	ture)						Date	Time	Shipping D				
		- 1	11/01/22	1600	Fea	d E	X	•						1	1/01/22	1400	Snipping D	ate: 11/1	12022 /	-edEx 77	703 5851 5977
		-												LI	1-2-26	0750	Received b	y Labo	ratory: (Signatur	e, Date, Time) & condition
GES	.Navy_COC_Field																				

November 01, 2022

19.4.0























List Source: Eurofins Sacramento

Client: GES-AIS LLC Job Number: 320-93855-1

Login Number: 93855

List Number: 1

Creator:

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	

Eurofins Sacramento