

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

November 1st, 2022 through December 1st, 2022

Approved for public release; distribution is unlimited

DCN: GLBN-0005-4332-0112



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HUNTERS POINT NAVAL SHIPYARD

SAN FRANCISCO, CALIFORNIA

November 1st, 2022 through December 1st, 2022

DCN: GLBN-0005-4332-0112

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 November 1st, 2022 through December 1st, 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

Table 4-1. All Mollitoring Threshold Officeria										
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 (MSE01) and Station 2 in Parcel D-1 (MSE02) from November 1st, 2022, through December 1st, 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 November 1st, 2022, through December 1st, 2022, did not result in the exceedance of the established threshold criteria, as described in detail below.

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

Radiological air sampling results from November 1st, 2022 through December 1st, 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.

On November 8th, 2022 there were no earth-moving tasks onsite due to rain, therefore no air monitoring was conducted. No results will be presented for November 9th, 2022.

5.0 Air Monitoring Results

Due to changing wind direction onsite the delta calculation was switched and taken from subtracting the downwind from the upwind results for sampling dates November 10th, November 22nd, and November 23rd, 2022. The site will be shut down for the remainder of 2022, with no site activities occurring and subsequently no air monitoring.

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5.0 Air Monitoring Results

6.0 References

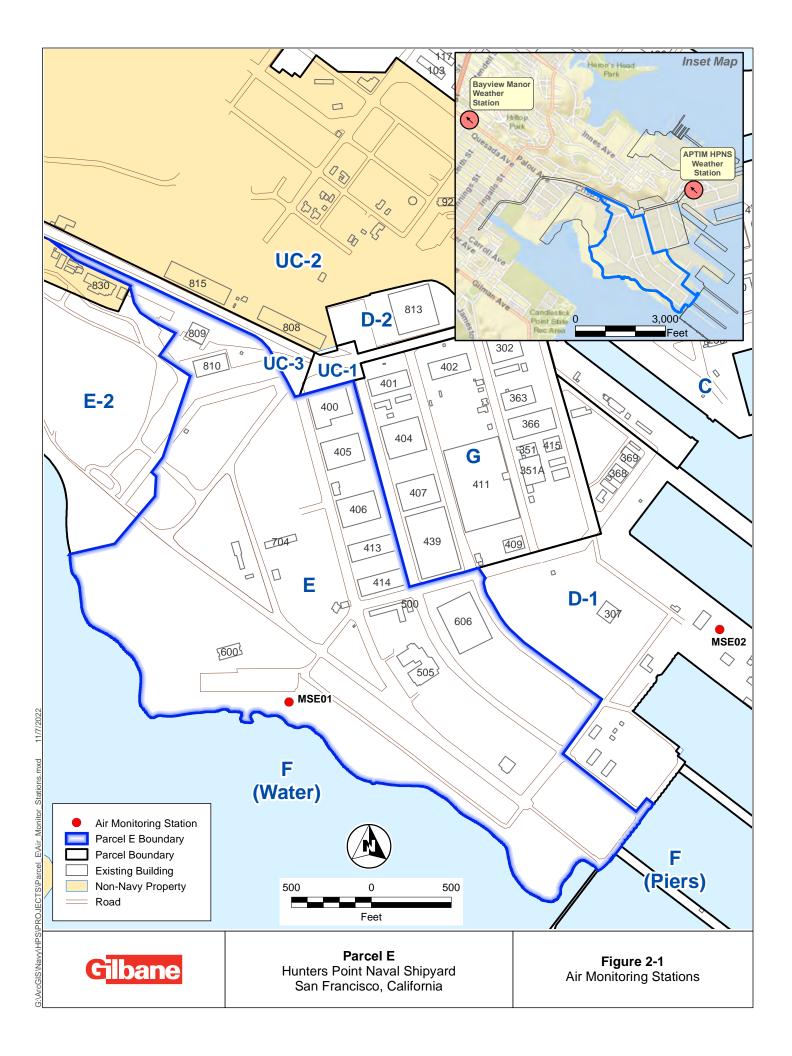
- Department of Toxic Substances Control (DTSC), 2017. Draft Technical Memorandum: Dust Action Levels for Parcel E, Hunters Point. May.
- National Institute for Occupational Safety and Health, (NIOSH), 1994. Manual of Analytical Methods.
- United States Environmental Protection Agency (EPA), 1999. Quality 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)	•			
10/31/2022 ¹	29.95	60.42	WSW		
11/1/2022 ¹	30.02	53.61	WSW		
11/2/2022 ¹	30.17	52.59	W		
11/3/2022 ¹	30.29	52.23	NNW		
11/7/2022 ¹	29.87	53.33	SW		
11/9/2022 ¹	30.27	53.10	W		
11/10/2022 ¹	30.35	53.22	ENE		
11/16/2022 ¹	30.40	55.05	SSW		
11/17/2022 ¹	30.34	54.44	NNW		
11/21/2022 ¹	30.25	49.30	Ν		
11/22/2022 ¹	30.24	53.74	NNE		
11/28/2022 ¹	30.07	51.95	WNW		
11/29/2022 ¹	30.10	49.12	NNW		
11/30/2022 ¹	29.99	52.18	S		

Notes:

¹Data collected using wunderground.com from APTIM HPNS Station - KCASANFR1504

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2 ASBESTOS MONITORING RESULTS

Attachment 2

Attachment 2: Asbestos Monitoring Results

Sample, Date a	and Station In	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)	
MSE01-110122	11/01/22	1	409	818	2.5	< 0.003	No	
MSE02-110122	11/01/22	2	435	870	1.0	< 0.003	No	
MSE01-110222	11/02/22	1	533	1066	1.5	< 0.003	No	
MSE02-110222	11/02/22	2	535	1070	5.5	0.003	No	
MSE01-110322	11/03/22	1	470	940	3.5	< 0.003	No	
MSE02-110322	11/03/22	2	477	954	3.5	< 0.003	No	
MSE01-110722	11/07/22	1	492	984	7.0	0.003	No	
MSE02-110722	11/07/22	2	517	1034	1.0	< 0.003	No	
MSE01-110922	11/09/22	1	507	1014	1.0	< 0.003	No	
MSE02-110922	11/09/22	2	514	1028	1.5	< 0.003	No	
MSE01-111722	11/17/22	1	422	844	5.5	0.003	No	
MSE02-111722	11/17/22	2	426	852	2.0	< 0.003	No	
MSE01-112122	11/21/22	1	482	964	5.5	0.003	No	
MSE02-112122	11/21/22	2	498	996	7.5	0.004	No	
MSE01-112222	11/22/22	1	521	1042	2.5	< 0.003	No	
MSE02-112222	11/22/22	2	536	1072	4.0	< 0.003	No	
MSE01-112822	11/28/22	1	486	972	6.5	0.003	No	
MSE02-112822	11/28/22	2	471	942	92.5	0.048	No	
MSE01-112922	11/29/22	1	513	1026	4.0	< 0.003	No	
MSE02-112922	11/29/22	2	527	1054	2.0	< 0.003	No	
MSE01-113022	11/30/22	1	510	1020	5.5	0.003	No	
MSE02-113022	11/30/22	2	510	1020	4.0	<0.003	No	

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

I = lite

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 Sta	Sampler Run Information	PM10								
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m³)	Concen- tration 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)
GESPM100322-368	1	11/01/22	1683.45	0.022						
GESPM100322-369	2	11/01/22	1758.61	0.023	0.0010	1.0	5,000	No	50	No
GESPM100322-370	1	11/02/22	1713.94	0.0095						
GESPM100322-371	2	11/02/22	1753.53	0.015	0.0055	5.5	5,000	No	50	No
GESPM100322-372	1	11/03/22	1650.22	0.0078						
GESPM100322-373	2	11/03/22	1757.31	0.011	0.0032	3.2	5,000	No	50	No
GESPM100322-374	1	11/03/22 ²	555.35	0.010						
GESPM100322-375	2	11/03/22 ²	580.62	0.0017	-0.0083	-8.3	5,000	No	50	No
GESPM100322-376	1	11/08/22	1719.13	0.0098						
GESPM100322-377	2	11/08/22	1749.60	0.0047	-0.0051	-5.1	5,000	No	50	No
GESPM100322-378	1	11/10/22	1709.41	0.0098						
GESPM101722-433	2	11/10/22	1730.23	0.012	0.0022	2.2	5,000	No	50	No
GESPM101722-434	1	11/10/22 ²	573.7	0.0051						
GESPM101722-435	2	11/10/22 ²	582.94	0.0034	0.0017	1.7	5,000	No	50	No
GESPM101722-436	1	11/17/22	1716.29	0.021						
GESPM101722-437	2	11/17/22	1416.47	0.015	-0.0060	-6.0	5,000	No	50	No
GESPM101722-438	1	11/17/22 ²	494.37	0.031						
GESPM101722-439	2	11/17/22 ²	498.04	0.023	-0.0080	-8.0	5,000	No	50	No
GESPM101722-440	1	11/22/22	1711.10	0.021						
GESPM101722-441	2	11/22/22	1718.76	0.029	-0.0080	-8.0	5,000	No	50	No
GESPM101722-442	1	11/23/22	1703.32	0.032						
GESPM101722-443	2	11/23/22	1768.57	0.031	0.0010	1.0	5,000	No	50	No
GESPM101722-444	1	11/29/22	1717.75	0.034						
GESPM101722-445	2	11/29/22	1716.78	0.063	0.0290	29.0	5,000	No	50	No
GESPM101722-446	1	11/30/22	1712.60	0.019						
GESPM101722-447	2	11/30/22	1705.16	0.000013	-0.0190	-19.0	5,000	No	50	No
GESPM101722-448	1	12/01/22	1753.19	0.020						
GESPM101722-449	2	12/01/22	1742.48	0.0063	-0.0137	-13.7	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

m³ = 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.

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

Attachment 4

ATTACHMENT 4 COPPER, LEAD, AND MANGANESE MONITORING RESULTS

Attachment 4: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Сорг	oer	Lea	d	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)	
GESPM100322-368	1	11/01/22	1683.45	0.000085	No	0.0000027	No	0.0000091	No	
GESPM100322-369	2	11/01/22	1758.61	0.00035	No	0.0000023	No	0.0000064	No	
GESPM100322-370	1	11/02/22	1713.94	0.000082	No	0.00000097	No	0.0000017	No	
GESPM100322-371	2	11/02/22	1753.53	0.00042	No	0.0000015	No	0.0000022	No	
GESPM100322-372	1	11/03/22	1650.22	0.000035	No	0.0000017	No	0.0000023	No	
GESPM100322-373	2	11/03/22	1757.31	0.00039	No	0.0000029	No	0.0000034	No	
GESPM100322-374	1	11/03/22 ²	555.35	0.000054	No	0.0000061	No	0.000017	No	
GESPM100322-375	2	11/03/22 ²	580.62	0.00002	No	0.0000017 J	No	0.000013	No	
GESPM100322-376	1	11/08/22	1719.13	0.000032	No	0.0000022	No	0.0000052	No	
GESPM100322-377	2	11/08/22	1749.60	0.000023	No	0.00000071	No	0.0000015	No	
GESPM100322-378	1	11/10/22	1709.41	0.000026	No	0.0000014	No	0.0000028	No	
GESPM101722-433	2	11/10/22	1730.23	0.00043	No	0.0000018	No	0.0000025	No	
GESPM101722-434	1	11/10/22 ²	573.7	0.000054	No	0.0000018 J	No	0.0000045	No	
GESPM101722-435	2	11/10/22 ²	582.94	0.000067	No	0.0000017 J	No	0.0000038	No	
GESPM101722-436	1	11/17/22	1716.29	0.000051	No	0.0000042	No	0.000011	No	
GESPM101722-437	2	11/17/22	1416.47	0.00011	No	0.0000036	No	0.000011	No	
GESPM101722-438	1	11/17/22 ²	494.37	0.000083	No	0.0000053	No	0.000015	No	
GESPM101722-439	2	11/17/22 ²	498.04	0.00017	No	0.0000046	No	0.00001	No	
GESPM101722-440	1	11/22/22	1711.10	0.000042	No	0.0000057	No	0.000014	No	
GESPM101722-441	2	11/22/22	1718.76	0.000069	No	0.0000048	No	0.000013	No	
GESPM101722-442	1	11/23/22	1703.32	0.000045	No	0.0000039	No	0.000011	No	
GESPM101722-443	2	11/23/22	1768.57	0.00016	No	0.0000036	No	0.0000097	No	
GESPM101722-444	1	11/29/22	1717.75	0.00011	No	0.000015	No	0.000026	No	
GESPM101722-445	2	11/29/22	1716.78	0.000034	No	0.000015	No	0.000025	No	
GESPM101722-446	1	11/30/22	1712.60	0.000068	No	0.0000034	No	0.0000072	No	
GESPM101722-447	2	11/30/22	1705.16	0.000027	No	0.0000016	No	0.0000035	No	
GESPM101722-448	1	12/01/22	1753.19	0.000052	No	0.0000025	No	0.0000083	No	
GESPM101722-449	2	12/01/22	1742.48	0.000024	No	0.0000012	No	0.000002	No	

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

Notes:

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.

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

< = below detection limit

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)
GESTSP100322-368	1	11/01/22	1610.74	0.029			
GESTSP100322-369	2	11/01/22	1758.15	0.0255	-0.004	0.5	No
GESTSP100322-370	1	11/02/22	1644.11	0.0171			
GESTSP100322-371	2	11/02/22	1762.84	0.0166	-0.001	0.5	No
GESTSP100322-372	1	11/03/22	1649.11	0.00891			
GESTSP100322-373	2	11/03/22	1763.21	0.00987	0.001	0.5	No
GESTSP100322-374	1	11/03/22 ²	530.73	0.0307			
GESTSP100322-375	2	11/03/22 ²	574.71	0.00435	-0.0264	0.5	No
GESTSP100322-376	1	11/08/22	1625.66	0.0189			
GESTSP100322-377	2	11/08/22	1759.94	0.0174	-0.002	0.5	No
GESTSP100322-378	1	11/10/22	1636.3	0.0113			
GESTSP101722-433	2	11/10/22	1751.75	0.0138	0.003	0.5	No
GESTSP101722-434	1	11/10/22 ²	547.1	0.00384			
GESTSP101722-435	2	11/10/22 ²	586.64	0.00511	-0.001	0.5	No
GESTSP101722-436	1	11/17/22	1634.4	0.0302			
GESTSP101722-437	2	11/17/22	1417.27	0.0226	-0.0076	0.5	No
GESTSP101722-438	1	11/17/22 ²	471.67	0.0437			
GESTSP101722-439	2	11/17/22 ²	508.18	0.0226	-0.021	0.5	No
GESTSP101722-440	1	11/22/22	1629.64	0.0399			
GESTSP101722-441	2	11/22/22	1722.26	0.0402	-0.0003	0.5	No
GESTSP101722-442	1	11/23/22	1625.83	0.0438			
GESTSP101722-443	2	11/23/22	1770.69	0.0321	0.0117	0.5	No
GESTSP101722-444	1	11/29/22	1643.51	0.0761			
GESTSP101722-445	2	11/29/22	1723.91	0.0987	0.0226	0.5	No
GESTSP101722-446	1	11/30/22	1637.13	0.0297			
GESTSP101722-447	2	11/30/22	1719.6	0.0215	-0.008	0.5	No
GESTSP101722-448	1	12/01/22	1673.62	0.0387			
GESTSP101722-449	2	12/01/22	1751.8	0.0126	-0.026	0.5	No

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

 $J=\mbox{estimated concentration}.$ See data review report for details.

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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.

ATTACHMENT 6 AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

Attachment 6

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AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

	Project Information aract / Task Order Number: Project Title / Location: GES Project Number:									Effluent	Air Cor	ncentration		Sa	mpling Per	iod			Color	Codes		
Contract /	Task Order Nu	ımber: Projec	ct Title / Locati	on:		GES Project Nur	nber:					Alpha	Beta	Air sa	amples coll	ected		Value < 0).1 x Efflue	ent Conc (i.e	e., < 10%)	
N62473	8-17-D-0005 / F	-4332 HPNS	S Parcel E Ph	ase 2 RA / Sa	an Francisco, CA	J3	10000400	İ		Radi	ionuclide	Ra-226	Sr-90	between	01 Nov 20	22		Value > 0).1 x Efflue	ent Conc (i.e	e., > 10%)	
		•	Information ef	fective as of:	21 Dec 2022				Ef	fluent Conc	(μCi/ml)	9.E-13	6.E-12	and	30 Nov 20	22		Value >	> Effluent (Conc (i.e., >	> 100%)	
			9	Sample Colle	ection							Count	Informatio	n				Sample	Results		Initi	ials
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	Туре	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-0739	Perimeter	MSE01	PE13	50	11/1/22 4:25	11/1/22 12:51	506	2.5E+07	В	11/07/22	1	cpm	0.10	4.30	0.0	6.1	0.0E+00	1.1E-13	0.0%	1.8%	JSV	BCS
AS-0740	Perimeter	MSE02	PE14	50	11/1/22 4:20	11/1/22 12:57	517	2.6E+07	В	11/07/22	1	cpm	0.30	3.80	0.7	4.6	1.2E-14	8.1E-14	1.3%	1.3%	JSV	BCS
AS-0741	Perimeter	MSE01	PE13	50	11/2/22 4:15	11/2/22 15:27	672	3.4E+07	В	11/07/22	1	cpm	0.05	4.00	-0.2	5.2	N/A	7.0E-14	N/A	1.2%	JSV	BCS
AS-0742	Perimeter	MSE02	PE14	50	11/2/22 4:20	11/2/22 15:33	673	3.4E+07	В	11/07/22	1	cpm	0.05	3.50	-0.2	3.8	N/A	5.0E-14	N/A	0.8%	JSV	BCS
AS-0743	Perimeter	MSE01	PE13	50	11/3/22 4:10	11/3/22 14:32	622	3.1E+07	В	11/07/22	1	cpm	0.10	4.10	0.0	5.5	0.0E+00	8.0E-14	0.0%	1.3%	JSV	BCS
AS-0744	Perimeter	MSE02	PE14	50	11/3/22 4:05	11/3/22 14:43	638	3.2E+07	В	11/07/22	1	cpm	0.25	4.60	0.5	7.0	7.1E-15	9.8E-14	0.8%	1.6%	JSV	BCS
AS-0745	Perimeter	MSE01	PE13	50	11/7/22 6:38	11/7/22 15:17	519	2.6E+07	В	11/14/22	1	cpm	0.40	4.30	1.0	6.1	1.8E-14	1.1E-13	1.9%	1.8%	DFB	BCS
AS-0746	Perimeter	MSE02	PE14	50	11/7/22 6:45	11/7/22 15:30	525	2.6E+07	В	11/14/22	1	cpm	0.05	3.60	-0.2	4.1	N/A	7.0E-14	N/A	1.2%	DFB	BCS
AS-0747	Perimeter	MSE01	PE13	50	11/9/22 4:10	11/9/22 15:07	657	3.3E+07	В	11/14/22	1	cpm	0.20	3.50	0.3	3.8	4.6E-15	5.2E-14	0.5%	0.9%	DFB	BCS
AS-0748	Perimeter	MSE02	PE14	50	11/9/22 4:00	11/9/22 15:02	662	3.3E+07	В	11/14/22	1	cpm	0.10	4.90	0.0	7.8	0.0E+00	1.1E-13	0.0%	1.8%	DFB	BCS
AS-0749	Perimeter	MSE01	PE13	50	11/10/22 4:00	11/10/22 14:40	640	3.2E+07	В	11/14/22	1	cpm	0.20	4.70	0.3	7.2	4.7E-15	1.0E-13	0.5%	1.7%	DFB	BCS
AS-0750	Perimeter	MSE02	PE14	50	11/10/22 3:50	11/10/22 15:00	670	3.4E+07	В	11/14/22	1	cpm	0.10	3.45	0.0	3.6	0.0E+00	4.9E-14	0.0%	0.8%	DFB	BCS
AS-0751	Perimeter	MSE01	PE13	50	11/16/22 4:10	11/16/22 14:11	601	3.0E+07	В	11/21/22	1	cpm	0.40	5.45	1.0	9.4	1.5E-14	1.4E-13	1.7%	2.4%	JSV	BCS
AS-0752	Perimeter	MSE02	PE14	50	11/16/22 4:16	11/16/22 14:16	600	3.0E+07	В	11/21/22	1	cpm	0.10	5.05	0.0	8.3	0.0E+00	1.2E-13	0.0%	2.1%	JSV	BCS
AS-0753	Perimeter	MSE01	PE13	50	11/17/22 4:20	11/17/22 15:13	653	3.3E+07	В	11/21/22	1	cpm	0.25	5.10	0.5	8.4	7.0E-15	1.2E-13	0.8%	1.9%	JSV	BCS
AS-0754	Perimeter	MSE02	PE14	50	11/17/22 4:15	11/17/22 14:59	644	3.2E+07	В	11/21/22	1	cpm	0.05	5.40	-0.2	9.3	N/A	1.3E-13	N/A	2.2%	JSV	BCS
AS-0755	Perimeter	MSE01	PE13	50	11/21/22 6:35	11/21/22 14:34	479	2.4E+07	В	11/28/22	1	cpm	0.15	5.15	0.2	8.6	3.2E-15	1.6E-13	0.4%	2.7%	JSV	BCS
AS-0756	Perimeter	MSE02	PE14	50	11/21/22 6:31	11/21/22 14:39	488	2.4E+07	В	11/28/22	1	cpm	0.25	5.15	0.5	8.6	9.3E-15	1.6E-13	1.0%	2.6%	JSV	BCS
AS-0757	Perimeter	MSE01	PE13	50	11/22/22 4:10	11/22/22 15:41	691	3.5E+07	В	11/28/22	1	cpm	0.20	4.65	0.3	7.1	4.4E-15	9.3E-14	0.5%	1.5%	JSV	BCS
AS-0758	Perimeter	MSE02	PE14	50	11/22/22 4:05	11/22/22 15:44	699	3.5E+07	В	11/28/22	1	cpm	0.15	5.75	0.2	10.3	2.2E-15	1.3E-13	0.2%	2.2%	JSV	BCS
AS-0759	Perimeter	MSE01	PE13	50	11/28/22 6:45	11/28/22 15:06	501	2.5E+07	В	12/05/22	1	cpm	0.45	4.75	1.2	7.4	2.1E-14	1.3E-13	2.4%	2.2%	DFB	BCS
AS-0760	Perimeter	MSE02	PE14	50	11/28/22 7:10	11/28/22 15:13	483	2.4E+07	В	12/05/22	1	cpm	0.20	3.95	0.3	5.1	6.3E-15	9.5E-14	0.7%	1.6%	DFB	BCS
AS-0761	Perimeter	MSE01	PE13	50	11/29/22 4:20	11/29/22 15:00	640	3.2E+07	В	12/05/22	1	cpm	0.25	3.95	0.5	5.1	7.1E-15	7.1E-14	0.8%	1.2%	DFB	BCS
AS-0762	Perimeter	MSE02	PE14	50	11/29/22 4:15	11/29/22 15:05	650	3.2E+07	В	12/05/22	1	cpm	0.20	4.30	0.3	6.1	4.7E-15	8.4E-14	0.5%	1.4%	DFB	BCS
AS-0763	Perimeter	MSE01	PE13	50	11/29/22 4:20	11/30/22 15:25	2105	1.1E+08	В	12/05/22	1	cpm	0.15	3.35	0.2	3.3	7.2E-16	1.4E-14	0.1%	0.2%	DFB	BCS
AS-0764	Perimeter	MSE02	PE14	50	11/29/22 4:15	11/30/22 15:21	2106	1.1E+08	В	12/05/22	1	cpm	0.30	3.80	0.7	4.6	2.9E-15	2.0E-14	0.3%	0.3%	DFB	BCS

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

ATTACHMENT 7 LABORATORY REPORTS

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Laboratory Analysis Report

Job ID: 22110702



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

Client Project Name :

HPNS Parcel E Phase II J310000400

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

 Attn:
 P.O.#.:
 J310000400-0015

 Client Address:
 1501 West Fountainhead Parkway, Ste. #550
 Date Received:
 11/04/2022 15:12

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
MSE01-110122	11/1/2022 13:31	Cassette	22110702.01
MSE02-110122	11/1/2022 13:43	Cassette	22110702.02
MSE01-110222	11/2/2022 15:32	Cassette	22110702.03
MSE02-110222	11/2/2022 15:57	Cassette	22110702.04

Released By:

Vice President Operations

Title:

Analyst:

Report Number: RPT221111043

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ab-q210-0321



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

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

Date 11/11/202

Job ID: 22110702

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	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 Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22110702.01	MSE01-110122	11/01/2022	Area	2			409	818	100	2.5	3.185	< 0.003		11/11/22	
22110702.02	MSE02-110122	11/01/2022	Area	2			435	870	100	1	1.274	< 0.003		11/11/22	
22110702.03	MSE01-110222	11/02/2022	Area	2			533	1066	100	1.5	1.911	< 0.003		11/11/22	
22110702.04	MSE02-110222	11/02/2022	Area	2			535	1070	100	5.5	7.006	0.003		11/11/22	

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 : 22110702	Date Received: 11/04/2022 Time R	eceived: 3:1:	2PM		
Clie	ent Name : GES - ASRC Industrial					
Ter	nperature : 21.7°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.				Х	
3.	If yes, ice in cooler.					Х
4.	Sample(s) received with chain-of-custo	ody.		Χ		
5.	C-O-C signed and dated.			Χ		
6.	Sample(s) received with signed sample	custody seal.			Х	
7.	Sample containers arrived intact. (If N	o comment)		Χ		
8.	Water Soil Liquid Slu	ndge Solid Cassette Tube Bulk Badge Fo	od Other			
9.	Samples were received in appropriate	container(s)		Χ		
10.	Sample(s) were received with Proper p	reservative				Χ
11.	All samples were tagged or labeled.			Χ		
12.	Sample ID labels match C-O-C ID's.			Χ		
13.	Bottle count on C-O-C matches bottles	found.		Χ		
14.	Sample volume is sufficient for analyse	s requested.		Χ		
15.	Samples were received with in the hold	I time.		Χ		
16.	VOA vials completely filled.					Χ
17.	Sample accepted.			Χ		
18.	Has client been contacted about sub-o	ut				Х
	nments: Include actions taken to resol		707/22			
140	assis. This received, nowever sumples die i	11/	V. LL			

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

ab-s005-0321

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

COC# KT110322ASBE

Gilbane											Chain-0	Of-Cus	tody	/
Project Name and Number:	HPNS Parcel E	Phase II I	31000040	00	- 11	_abora	atory N	ame: A&B La	abs				1/03/2022	
Project Manager: Site Location: Hunters Poi	nt, San Francisc	co, CA 94	124			Addres	ss: <u>1</u>	0100 East Fwy S ouston TX 7702		Contact N	Name:	Page: 1	of <u>1</u>	
			I I I					Analysis:						
Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Nor	rvative: e inerType: i Iter					e = 2 L/mi tructions/Cor e (min)	
MSE01-110122	11/01/2022	1331	NA	NA	1	AA	X					409		DIA
MSE02-110122	11/01/2022	1343	NA	NA	1	AA	X					435		OZA
MSE01-110222	11/02/2022	1532	NA	NA	1	AA	X					533		OBA
MSE02-110222	11/02/2022	1527	NA	NA	1	AA	Х					535		DYA
Job ID:2	2110702	2 						11-3 12						
Sampled By:				Sampl	er:						Courier/Airbill No.: Fed	Ex/ 7703 8751 01	14	
Signature:			8	Relinqui	snea E	зу/Апш	ation:		Date:	Time:	Received By/ Affiliation:		Date:	Time:
Special Instructions:				Fe	des	_			11/3/	22 1600	FEDEX		11/3/2	2 1600
Send Results to:					-									
Turnaround Time: Standard	4													



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

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Laboratory Analysis Report

Job ID: 22111144



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

Client Name: GES - ASRC Industrial Attn:

Client Address: 1501 West Fountainhead Parkway, Ste. #550

City, State, Zip: Tempe, Arizona, 85282

Total Number of Pages: 5

P.O.#.: J310000400-0015 Date Received: 11/09/2022 14:59

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
MSE01-110322	11/3/2022 14:45	Cassette	22111144.01
MSE02-110322	11/3/2022 14:36	Cassette	22111144.02
MSE01-110722	11/7/2022 15:31	Cassette	22111144.03
MSE02-110722	11/7/2022 15:26	Cassette	22111144.04

Released By:

Vice President Operations

Title:

Analyst:

Report Number: RPT221116018

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ab-q210-0321



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

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

Date 11/16/202

Job ID: 22111144

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPI	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 Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22111144.01	MSE01-110322	11/03/2022	Area	2			470	940	100	3.5	4.459	< 0.003		11/11/22	
22111144.02	MSE02-110322	11/03/2022	Area	2			477	954	100	3.5	4.459	< 0.003		11/11/22	
22111144.03	MSE01-110722	11/07/2022	Area	2			492	984	100	7.0	8.917	0.003		11/11/22	
22111144.04	MSE02-110722	11/07/2022	Area	2			517	1034	100	1	1.274	< 0.003		11/11/22	

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



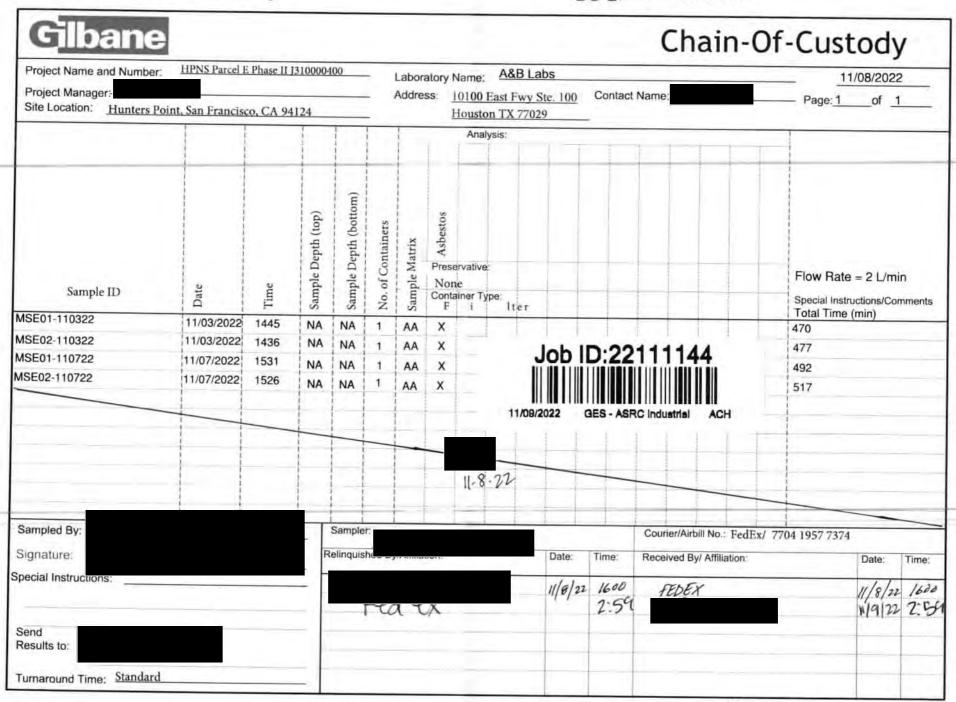
Sample Condition Checklist

A&E	3 JobID : 22111144	Date Received: 11/09/2022 Time Received: 2:	59PM		
Clie	nt Name : GES - ASRC Industrial				
Ten	nperature : 22.1°C	Sample pH: NA			
The	rmometer ID : IR4	pH Paper ID: NA			
Pei	servative :				
		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.				X
4.	Sample(s) received with chain-of-custon	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			Χ
11.	All samples were tagged or labeled.		Х		
12.	Sample ID labels match C-O-C ID's.		Х		
13.	Bottle count on C-O-C matches bottles	found.	Х		
14.	Sample volume is sufficient for analyse	es requested.	Х		
15.	Samples were received with in the hole	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 resololler was received, however samples are r				
	os.s received, novierer samples die r	11/3/22			

Received by: Check in by/date: / 11/09/2022

ab-s005-0321

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



1 ---

ORIGIN ID ICCA

200 FISHER STREET

SAN FRANCISCO, CA 94124 UNITED STATES US

SHIP DATE: 08NOV22 ACTWGT: 1.00 LB CAD: 254128867/INET4530

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TO

A & B LABS 10100 EAST FREEWAY, SUITE 100 SH ABTERET

HOUSTON TX 77029

TS1000-400 (C-19104



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Laboratory Analysis Report

Job ID: 22111468



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

Client Name: GES - ASRC Indus
Attn:

 Attn:
 P.O.#.:
 J310000400-0015

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

City, State, Zip: Tempe, Arizona, 85282 Samp

Sample Collected By :

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

 Client Sample ID
 Sample Collection Date & Time
 Matrix
 A&B Job Sample ID

 MSE01-110922
 11/9/2022 15:13
 Cassette
 22111468.01

 MSE02-110922
 11/9/2022 15:07
 Cassette
 22111468.02

Released By:

Title: Vice President Operations

Analyst:

Report Number: RPT221118037

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ab-q210-0321



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

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

Date 11/18/202

Job ID: 22111468

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES -	ASRC Industrial		Project: HPN	NS Parcel E I	Phase II	13100004	00				į	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
22111468.01	MSE01-110922	11/09/2022	Area	2			507	1014	100	1	1.274	< 0.003		11/17/22	
22111468.02	MSE02-110922	11/09/2022	Area	2			514	1028	100	1.5	1.911	< 0.003		11/17/22	

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



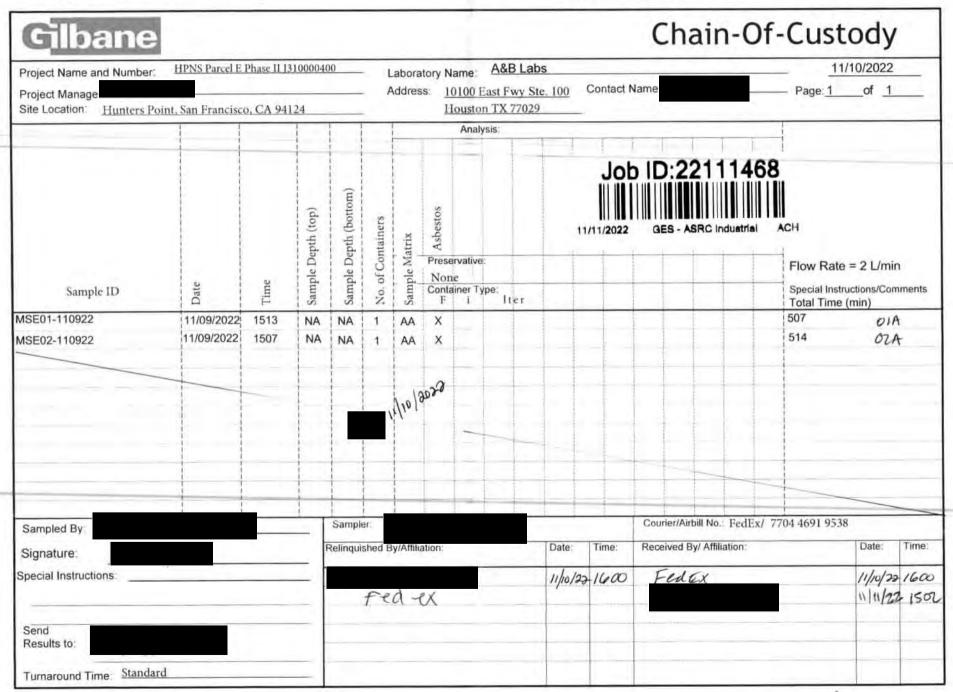
Sample Condition Checklist

A&I	B JobID : 22111468	Date Received: 11/11/2022 Time Received: 3:0	D2PM		
Clie	ent Name : GES - ASRC Industrial				
Ter	nperature : 23.1°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.		Х		
2.	Sample(s) in a cooler.			Х	
3.	If yes, ice in cooler.				Х
4.	Sample(s) received with chain-of-cust	ody.	Х		
5.	C-O-C signed and dated.		Х		
6.	Sample(s) received with signed sample	e custody seal.		Х	
7.	Sample containers arrived intact. (If N	o comment)	Х		
8.	Water Soil Liquid Slu	adge 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 hole	I time.	Х		
16.	VOA vials completely filled.				Χ
17.	Sample accepted.		Х		
18.	Has client been contacted about sub-o	ut			Χ
	nments: Include actions taken to resol	ver samples are received in a box with a custody seal. ~ 11/14/22			
DiaC	cassettes. No cooler was received, flower	ci samples are received in a box with a custouty seal. (*** 11/14/22			

Received by: Check in by/date: / 11/14/2022

ab-s005-0321

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



200 FISHER STREET

SAN FRANCISCO, CA 94124 UNITED STATES US

SHIP DATE: 10NOV22 ACTWGT: 1.00 LB CAD: 254128867/INET4530

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A & B LABS 10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029 (713) 453-6060 RE

REF: J31000,400,00,18,04

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Laboratory Analysis Report

Job ID: 22112725



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

Client Project Name :

HPNS Parcel E Phase II J310000400

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

Attn: P.O.#.: J310000400-0015

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 11/23/2022 15:42

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
MSE01-111722	11/17/2022 13:51	Cassette	22112725.01
MSE02-111722	11/17/2022 13:58	Cassette	22112725.02
MSE01-112122	11/21/2022 14:52	Cassette	22112725.03
MSE02-112122	11/21/2022 14:44	Cassette	22112725.04

Released By:

Analyst:

Title: Vice President Operations

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ab-q210-0321

12/2/2022

Page 1 of 5 Report Number: RPT221202059



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

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

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

Date 12/2/2022

Job ID: 22112725

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial		Project: HPI	NS Parcel E I	Phase II I	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
22112725.01	MSE01-111722	11/17/2022	Area	2			422	844	100	5.5	7.006	0.003		12/02/22	
22112725.02	MSE02-111722	11/17/2022	Area	2			426	852	100	2	2.548	< 0.003		12/02/22	
22112725.03	MSE01-112122	11/21/2022	Area	2			482	964	100	5.5	7.006	0.003		12/02/22	
22112725.04	MSE02-112122	11/21/2022	Area	2			498	996	100	7.5	9.554	0.004		12/02/22	

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

Δ&	3 JobID : 22112725	Date Received: 11/23/2022 Time Received: 3:4	12PM						
	nperature: 22.1°C	Sample pH: NA							
	ermometer ID: IR4	pH Paper ID: NA							
Pe	rservative :		1		1				
		Check Points	Yes	No	N/A				
1.	Cooler Seal present and signed.		Х						
2.	Sample(s) in a cooler.			Χ					
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.	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.	Sample(s) were received with Proper p	preservative			Х				
11.	All samples were tagged or labeled.		Х						
12.	Sample ID labels match C-O-C ID's.		Х						
13.	Bottle count on C-O-C matches bottles	found.	Х						
14.	Sample volume is sufficient for analyse	es requested.	Х						
15.	Samples were received with in the hole	d 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		12						
NO (cooler was received, however samples are r	eceived in a box with a custody seal. Received black cassettes. ~ 11/23/202	.2						

Received by: Check in by/date: / 11/23/2022

ab-s005-0321

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

	Gilbane											Chair	n-Of-	Cust	ody	
	Project Name and Number:			00		ahore	atory N	A&B La	bs				11/2	22/2022		
	Project Manager. Site Location: Hunters Point						Addres	ss: 1	0100 East Fwy Souston TX 7702	Ste. 100	Contact N	Name:		Page:1	_of _1_	=
									Analysis:							
	Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Non	rvative e iner Type: i Iter					Flow Rate Special Instru Total Time (ctions/Com	
010	MSE01-111722	11/17/2022		NA	NA	1	AA	X	1 1161					422	mia)	
	MSE02-111722	11/17/2022		NA	NA	1	AA	X						426		
	MSE01-112122	11/21/2022	1452	NA	NA	1	AA	x						482		
	MSE02-112122	11/21/2022	1444	NA	NA	1	AA	X						498		
	Job ID:22	211272	5 ACH	-	Sample	er			water			Courier/Airbill No.	FedEx/ 77	705 6788 0969		
	Signature:				Relinqui	shed B	y/Affili	ation:		Date:	Time:	Received By/ Affil	ation:		Date:	Time:
	Special Instructions.			=			×			11 paps	15:42	FedEx			11/22/02	1600

22.1°C TRY ORIGIN ID: JCCA

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Page 5 of 5

Laboratory Analysis Report

Job ID: 22113234



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: 11/30/2022 15:13

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 11/30/2022 15:13
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
MSE01-112222	11/22/2022 15:45	Cassette	22113234.01
MSE02-112222	11/22/2022 15:33	Cassette	22113234.02
MSE01-112822	11/28/2022 15:03	Cassette	22113234.03
MSE02-112822	11/28/2022 14:53	Cassette	22113234.04

Released By:

Vice President Operations

Title:

Analyst:

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ab-q210-0321 12/7/2022

Page 1 of 5 Report Number: RPT221207044



ANALYSIS OF AIRBORNE FIBER SAMPLING SAMPLING PERFORMED BY CLIENT (CIC CONDUCTED BY A S. P. FRYDRONMENTAL CERV

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

Date 12/7/2022

Job ID: 22113234

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial	Project: HPNS Parcel E Phase II 1310000400						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
22113234.01	MSE01-112222	11/22/2022	Area	2			521	1042	100	2.5	3.185	< 0.003		12/02/22	
22113234.02	MSE02-112222	11/22/2022	Area	2			536	1072	100	4.0	5.096	< 0.003		12/02/22	
22113234.03	MSE01-112822	11/28/2022	Area	2			486	972	100	6.5	8.280	0.003		12/02/22	
22113234.04	MSE02-112822	11/28/2022	Area	2			471	942	100	92.5	117.834	0.048		12/02/22	

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



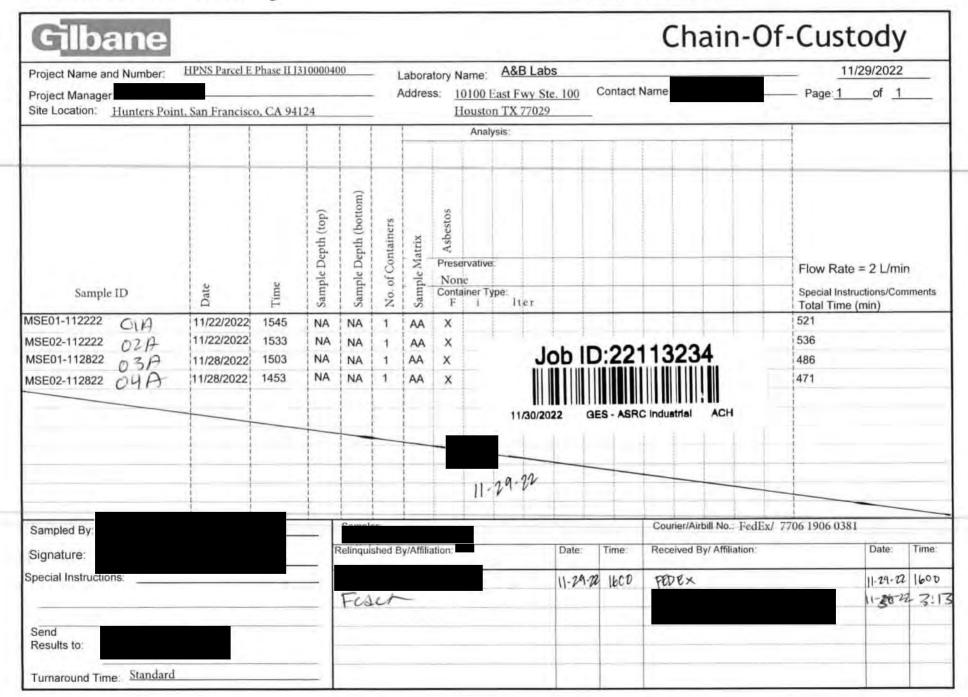
Sample Condition Checklist

AGL	3 JobID: 22113234	Date Received: 11/30/2022 Time Received: 3								
Clie	nt Name : GES - ASRC Industrial									
Ten	nperature : 22.1°C	Sample pH: NA								
The	rmometer ID : IR4	pH Paper ID : NA								
Per	servative :									
		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-custon	ody.	Х							
5.	C-O-C signed and dated.									
6.	5. Sample(s) received with signed sample custody seal.									
7.	7. Sample containers arrived intact. (If No comment)									
8.	Water Soil Liquid Slu Matrix:									
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.	Χ							
15.	Samples were received with in the hole	I time.	Х							
16.	VOA vials completely filled.				Х					
17.	Sample accepted.		Х							
18.	Has client been contacted about sub-o	ut			Х					
					1					
	nments : Include actions taken to resol Cassettes No cooler was received, howe	ve discrepancies/problem: ver samples are received in a box with a custody seal. ~ 11/30/22								
Diaci	Cousselles. The cooler was received, flower	11/30/22								

Received by: Check in by/date: / 11/30/2022

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



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Laboratory Analysis Report

Job ID: 22120249



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: P.O.#.: J310000400-0015

Sample Collected By:

Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received: 12/02/2022 15:18

City, State, Zip: Tempe, Arizona, 85282

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-112922	11/29/2022 16:01	Cassette	22120249.01
MSE02-112922	11/29/2022 15:58	Cassette	22120249.02
MSE01-113022	11/30/2022 15:42	Cassette	22120249.03
MSE02-113022	11/30/2022 15:36	Cassette	22120249.04

Released By:

Title: Vice President Operations

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ab-q210-0321

12/9/2022

Page 1 of 5 Report Number: RPT221209048

Analyst:



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

ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.

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

Date 12/9/2022

Job ID: 22120249

Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - /	ASRC Industrial	Project: HPI	NS Parcel E I	Phase II I	J1310000 ⁴	10000400 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
22120249.01	MSE01-112922	11/29/2022	Area	2			513	1026	100	4.0	5.096	< 0.003		12/07/22	
22120249.02	MSE02-112922	11/29/2022	Area	2			527	1054	100	2	2.548	< 0.003		12/07/22	
22120249.03	MSE01-113022	11/30/2022	Area	2			510	1020	100	5.5	7.006	0.003		12/07/22	
22120249.04	MSE02-113022	11/30/2022	Area	2			510	1020	100	4	5.096	< 0.003		12/07/22	

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



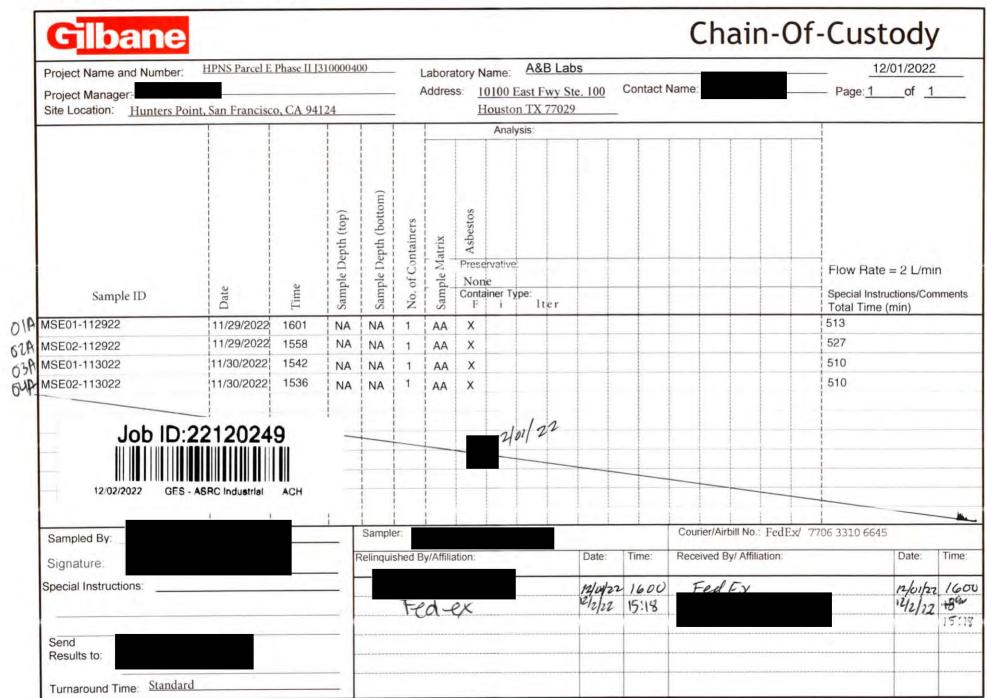
Sample Condition Checklist

A&I	3 JobID : 22120249	bID: 22120249 Date Received: 12/02/2022 Time Received: 3:18							
Clie	ent Name : GES - ASRC Industrial								
Ter	nperature : 22.1°C	Sample pH: NA							
The	rmometer ID : IR4	nometer ID : IR4 pH Paper ID : NA							
Pe	rservative :								
		Check Points	Yes	No	N/A				
1.	Cooler Seal present and signed.		Х						
2.	Sample(s) in a cooler.			Х					
3.	If yes, ice in cooler.				Х				
4.	Sample(s) received with chain-of-custon	ody.	Х						
5.	C-O-C signed and dated.		Х						
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.									
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		12/2/2	022					
NO 0	ooier was received, however samples are r	eceived in a box with a custody seal. Samples received in black cassettes. \sim	12/2/2	022					

Received by: Check in by/date: / 12/02/2022

ab-s005-0321

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





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

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ANALYTICAL REPORT

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

Laboratory Job ID: 320-94004-1

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: 11/14/2022 10:08:13 AM

Project Manager I

.....Links

Review your project results through

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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: 320-94004-1

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-94004-1

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

Glossarv

EDL

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"

Estimated Detection Limit (Dioxin)

MDA Minimum Detectable Activity (Radiochemistry) 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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Page 3 of 16

Case Narrative

Client: GES-AIS LLC Job ID: 320-94004-1

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

Job ID: 320-94004-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-94004-1

Comments

No additional comments.

Receipt

The samples were received on 11/4/2022 10:20 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 15.3° 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: 320-94004-1

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

Lab Sample ID: 320-94004-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.00097	0.00070	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.082	0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.0017	0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	9.5	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP100322-370

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Metho	od Prep Type
Total Suspended Particulates	17.0913	0.3041	0.3041 ug/m3 (Air)	1 40CFF	R50 App B Total/NA

Client Sample ID: GESPM100322-371

– Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0015		0.00068	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.42		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0022		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-371

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	16.5642		0.2836	0.2836	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-372

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017	0.00073	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.035	0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0023	0.00073	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.8	0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-372

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	8.9139	0.3032	0.3032 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-373

_ Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D I	Method	Prep Type
Lead	0.0029	0.00068	0.00010	ug/m3 (Air)	1	_ (6020	Total/NA
Copper	0.39	0.0014	0.00010	ug/m3 (Air)	1	(6020	Total/NA
Manganese	0.0034	0.00068	0.000096	ug/m3 (Air)	1	(6020	Total/NA
Particulate Matter as PM 10	11	0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-373

_					
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	9.8684	0.2836	0.2836 ug/m3 (Air)	1 40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

11/14/2022

Lab Sample ID: 320-94004-2

Lab Sample ID: 320-94004-3

Lab Sample ID: 320-94004-4

Lab Sample ID: 320-94004-5

Lab Sample ID: 320-94004-6

Lab Sample ID: 320-94004-7

Lab Sample ID: 320-94004-8

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94004-1

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

Client Sample ID: GESPM100322-370

Lab Sample ID: 320-94004-1

Date Collected: 11/02/22 06:47 Matrix: Air

Date Received: 11/04/22 10:20 Sample Container: Folder/Filter

	Method: SW846 6020 - Metals (ICP/MS)										
4	Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
ļī	Lead	0.00097	0.00070	0.00011	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:02	1		
	Copper	0.082	0.0014	0.00011	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:02	1		
	Manganese	0.0017	0.00070	0.000098	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:02	1		

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 9.5 0.29 ug/m3 11/07/22 15:30 (40CFR50J PM10)

Client Sample ID: GESTSP100322-370 Lab Sample ID: 320-94004-2

Date Collected: 11/02/22 06:47 Matrix: Air Date Received: 11/04/22 10:20

Sample Container: Folder/Filter

General Chemistry	Dogult	Ovelifier	DI	DI	11m:4	_	Dramavad	A malumad	Dil Fac
Analyte	Result	Qualifier	RL	KL	Unit	ט	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	17.0913		0.3041	0.3041	ug/m3 (Air)			11/07/22 15:30	1

Lab Sample ID: 320-94004-3 Client Sample ID: GESPM100322-371

Date Collected: 11/02/22 06:36 Matrix: Air

Date Received: 11/04/22 10:20 Sample Container: Folder/Filter

Method: SW846 6020 -	Method: SW846 6020 - Metals (ICP/MS)										
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Lead	0.0015	0.00068	0.00010	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:11	1			
Copper	0.42	0.0014	0.00010	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:11	1			
Manganese	0.0022	0.00068	0.000096	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:11	1			

General Chemistry Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.29 Particulate Matter as PM 10 15 0.29 ug/m3 11/07/22 15:30 (40CFR50J PM10)

Client Sample ID: GESTSP100322-371 Lab Sample ID: 320-94004-4

Date Collected: 11/02/22 06:36 Matrix: Air

Date Received: 11/04/22 10:20 Sample Container: Folder/Filter

General Chemistry	Decult	Ovalifier	DI	DI	11m:4	_	Drawarad	Amalumad	Dil Faa
Analyte	Result	Qualifier	RL	KL	Unit	ט	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	16.5642		0.2836	0.2836	ug/m3 (Air)			11/07/22 15:30	1

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Client Sample Results

Client: GES-AIS LLC Job ID: 320-94004-1

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

Client Sample ID: GESPM100322-372

Lab Sample ID: 320-94004-5 Date Collected: 11/03/22 06:53 **Matrix: Air**

Date Received: 11/04/22 10:20

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.0017	0.00073	0.00011	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:14	1	
Copper	0.035	0.0015	0.00011	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:14	1	
Manganese	0.0023	0.00073	0.00010	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:14	1	

General Chemistry Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	7.8	0.30	0.30 ug/m3			11/07/22 15:30	1
(40CFR50J PM10)							

Client Sample ID: GESTSP100322-372 Lab Sample ID: 320-94004-6

Date Collected: 11/03/22 06:53 Matrix: Air Date Received: 11/04/22 10:20

Sample Container: Folder/Filter

General Chemistry	D 14	0	D.	ы	119	_	D	A I	D'' F
Analyte	Result	Qualifier	RL	KL	Unit	ט	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	8.9139		0.3032	0.3032	ug/m3 (Air)			11/07/22 15:30	1

Lab Sample ID: 320-94004-7 Client Sample ID: GESPM100322-373

Date Collected: 11/03/22 06:39 Matrix: Air

Date Received: 11/04/22 10:20 Sample Container: Folder/Filter

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029	0.00068	0.00010	ug/m3 (Air)	_	11/11/22 06:30	11/11/22 12:18	1
Copper	0.39	0.0014	0.00010	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:18	1
Manganese	0.0034	0.00068	0.000096	ug/m3 (Air)		11/11/22 06:30	11/11/22 12:18	1

General Chemistry								
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11	0.28	0.28	ug/m3			11/07/22 15:30	1
(40CFR50J PM10)								

Client Sample ID: GESTSP100322-373 Lab Sample ID: 320-94004-8

Date Collected: 11/03/22 06:39 Matrix: Air

Date Received: 11/04/22 10:20 Sample Container: Folder/Filter

General Chemistry Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	9.8684	0.2836	0.2836	ug/m3 (Air)			11/07/22 15:30	1

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QC Sample Results

Client: GES-AIS LLC Job ID: 320-94004-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-632201/1-B

Matrix: Air Analysis Batch: 632552 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 632228

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Lead ND 0.0012 0.00018 ug/m3 (Air) 11/11/22 06:30 11/11/22 11:17 Copper ND 0.0024 0.00018 ug/m3 (Air) 11/11/22 06:30 11/11/22 11:17 ND 0.0012 0.00017 ug/m3 (Air) 11/11/22 06:30 11/11/22 11:17 Manganese

MB MB

Lab Sample ID: LCS 320-632201/2-B

Matrix: Air

Analysis Batch: 632552

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

Prep Batch: 632228

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 0.240 0.251 ug/m3 (Air) 105 86 - 111 Lead 0.240 0.252 105 Copper ug/m3 (Air) 85 - 110 0.240 0.251 ug/m3 (Air) 104 88 - 110 Manganese

Lab Sample ID: LCSD 320-632201/3-B

Matrix: Air

Analysis Batch: 632552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 632228

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Lead 0.240 0.249 ug/m3 (Air) 104 86 - 111 1 15 Copper 0.240 0.248 ug/m3 (Air) 103 85 - 110 2 15 0.240 ug/m3 (Air) 104 Manganese 0.249 88 - 110 15

QC Association Summary

Client: GES-AIS LLC Job ID: 320-94004-1

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

Metals

Pre Prep Batch: 632201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94004-1	GESPM100322-370	Total/NA	Air	Filter to Air	
320-94004-3	GESPM100322-371	Total/NA	Air	Filter to Air	
320-94004-5	GESPM100322-372	Total/NA	Air	Filter to Air	
320-94004-7	GESPM100322-373	Total/NA	Air	Filter to Air	
MB 320-632201/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-632201/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-632201/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 632228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94004-1	GESPM100322-370	Total/NA	Air	3050B	632201
320-94004-3	GESPM100322-371	Total/NA	Air	3050B	632201
320-94004-5	GESPM100322-372	Total/NA	Air	3050B	632201
320-94004-7	GESPM100322-373	Total/NA	Air	3050B	632201
MB 320-632201/1-B	Method Blank	Total/NA	Air	3050B	632201
LCS 320-632201/2-B	Lab Control Sample	Total/NA	Air	3050B	632201
LCSD 320-632201/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	632201

Analysis Batch: 632552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94004-1	GESPM100322-370	Total/NA	Air	6020	632228
320-94004-3	GESPM100322-371	Total/NA	Air	6020	632228
320-94004-5	GESPM100322-372	Total/NA	Air	6020	632228
320-94004-7	GESPM100322-373	Total/NA	Air	6020	632228
MB 320-632201/1-B	Method Blank	Total/NA	Air	6020	632228
LCS 320-632201/2-B	Lab Control Sample	Total/NA	Air	6020	632228
LCSD 320-632201/3-B	Lab Control Sample Dup	Total/NA	Air	6020	632228

General Chemistry

Pre Prep Batch: 631107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94004-2	GESTSP100322-370	Total/NA	Air	Filter to Air	
320-94004-4	GESTSP100322-371	Total/NA	Air	Filter to Air	
320-94004-6	GESTSP100322-372	Total/NA	Air	Filter to Air	
320-94004-8	GESTSP100322-373	Total/NA	Air	Filter to Air	

Analysis Batch: 631963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94004-1	GESPM100322-370	Total/NA	Air	PM10	
320-94004-3	GESPM100322-371	Total/NA	Air	PM10	
320-94004-5	GESPM100322-372	Total/NA	Air	PM10	
320-94004-7	GESPM100322-373	Total/NA	Air	PM10	

Analysis Batch: 631969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94004-2	GESTSP100322-370	Total/NA	Air	40CFR50 App B	631107
320-94004-4	GESTSP100322-371	Total/NA	Air	40CFR50 App B	631107
320-94004-6	GESTSP100322-372	Total/NA	Air	40CFR50 App B	631107
320-94004-8	GESTSP100322-373	Total/NA	Air	40CFR50 App B	631107

Eurofins Sacramento

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Client: GES-AIS LLC Job ID: 320-94004-1

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

Client Sample ID: GESPM100322-370

Date Collected: 11/02/22 06:47 Date Received: 11/04/22 10:20

Lab Sample ID: 320-94004-1

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					632201	11/11/22 04:45		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	632228	11/11/22 06:30		EET SAC
Total/NA	Analysis	6020		1	•		632552	11/11/22 12:02		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0162 g	631963	11/07/22 15:30		EET SAC

Client Sample ID: GESTSP100322-370

Date Collected: 11/02/22 06:47 Date Received: 11/04/22 10:20

Lab Sample ID: 320-94004-2

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			631969	11/07/22 15:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01		EET SAC

Client Sample ID: GESPM100322-371

Date Collected: 11/02/22 06:36 Date Received: 11/04/22 10:20

Lab Sample ID: 320-94004-3

Matrix: Air

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 632201 11/11/22 04:45 EET SAC Total/NA 3050B 632228 Prep 11/11/22 06:30 **EET SAC** 0.08333 100 mL Sample Total/NA Analysis 6020 632552 11/11/22 12:11 **EET SAC** Total/NA Analysis PM10 0 g 0.0256 g 631963 11/07/22 15:30 **EET SAC**

Client Sample ID: GESTSP100322-371

Date Collected: 11/02/22 06:36

Date Received: 11/04/22 10:20

Lab Sample	ID: 320-94004-4
------------	-----------------

Lab Sample ID: 320-94004-5

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			631969	11/07/22 15:30		EET SAC
Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01		EET SAC

Client Sample ID: GESPM100322-372

Date Collected: 11/03/22 06:53

Date Received: 11/04/22 10:20

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					632201	11/11/22 04:45		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	632228	11/11/22 06:30		EET SAC
Total/NA	Analysis	6020		1	·		632552	11/11/22 12:14		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0128 g	631963	11/07/22 15:30		EET SAC

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Lab Chronicle

Client: GES-AIS LLC Job ID: 320-94004-1

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

Client Sample ID: GESTSP100322-372

Lab Sample ID: 320-94004-6 Matrix: Air

Date Collected: 11/03/22 06:53 Date Received: 11/04/22 10:20

		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			631969	11/07/22 15:30		EET SAC
l	Total/NA	Pre Prep	Filter to Air					631107	11/08/22 09:01		EET SAC

Client Sample ID: GESPM100322-373

Date Collected: 11/03/22 06:39 Date Received: 11/04/22 10:20

Lab Sample ID: 320-94004-7

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					632201	11/11/22 04:45		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	632228	11/11/22 06:30		EET SAC
Total/NA	Analysis	6020		1			632552	11/11/22 12:18		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0196 g	631963	11/07/22 15:30		EET SAC

Client Sample ID: GESTSP100322-373

Date Collected: 11/03/22 06:39

Date Received: 11/04/22 10:20

Lab Sample ID: 320-94004-8 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 631969 11/07/22 15:30 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

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-94004-1

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	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 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.	•	, , ,	

Method Summary

Client: GES-AIS LLC

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

Job ID: 320-94004-1

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

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Sample Summary

Client: GES-AIS LLC Job ID: 320-94004-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-94004-1	GESPM100322-370	Air	11/02/22 06:47	11/04/22 10:20
320-94004-2	GESTSP100322-370	Air	11/02/22 06:47	11/04/22 10:20
320-94004-3	GESPM100322-371	Air	11/02/22 06:36	11/04/22 10:20
320-94004-4	GESTSP100322-371	Air	11/02/22 06:36	11/04/22 10:20
320-94004-5	GESPM100322-372	Air	11/03/22 06:53	11/04/22 10:20
320-94004-6	GESTSP100322-372	Air	11/03/22 06:53	11/04/22 10:20
320-94004-7	GESPM100322-373	Air	11/03/22 06:39	11/04/22 10:20
320-94004-8	GESTSP100322-373	Air	11/03/22 06:39	11/04/22 10:20

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CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT110322AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2						Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN							(EETN	Event: Parcel E Phase 2 Air							
	ect Number: J310000400					POC:							Monitoring								
WB	S Code: J310000400-016					Ship to: 880 Riverside Parkway, West Sacramento, CA 95605															
Con	nments:				P												ive				
Equ	ipment:				Analytical Test Method		_	SW6020 - Air Pb Mn Cu									320-9400	4 Chain	of Custo	ody	
_	Event: Parcel E Phase 2 Air	r Monitorir	ig .			1	1	1		1	1			_							
	Sample ID	Matrix	Date	Time	Samp Init.										Loca	ation ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM100322-370	А	11/02/2022	0647		Х		Х		T	1		П		ΑN	/ISE1	N1	0.00	0.00	1	VOLUME: 1713.94 (M3)
2	GESTSP100322-370	А	11/02/2022	0647			Х								AN	/ISE1	N1	0.00	0.00	1	VOLUME: 1644.11 (M3)
3	GESPM100322-371	А	11/02/2022	0636		X		Х							AN	/ISE2	N1	0.00	0.00	1	VOLUME: 1753.53 (M3)
4	GESTSP100322-371	А	11/02/2022	0636			Х			\top					AN	/ISE2	N1	0.00	0.00	1	VOLUME: 1762.84 (M3)
5	GESPM100322-372	А	11/03/2022	0653		X		Х		\top	\top		\Box		AN	/ISE1	N1	0.00	0.00	1	VOLUME: 1650.22 (M3)
6	GESTSP100322-372	А	11/03/2022	0653			Х								AN	/ISE1	N1	0.00	0.00	1	VOLUME: 1649.11 (M3)
7	GESPM100322-373	А	11/03/2022	0639		Х		Х			1				AN	/ISE2	N1	0.00	0.00	1	VOLUME: 1757.31 (M3)
8	GESTSP100322-373	А	11/03/2022	0639			Х			\top			П		AN	/ISE2	N1	0.00	0.00	1	VOLUME: 1763.21 (M3)
9													П								
10											1/-	2 -	21	2							
Tur	naround Time: 5 days						_				*11	<u> </u>	1-7								
			Receive	red by: (Signature)						Date		Time				er / Airbill Number					
			FEF						11-	11-3-22 1600		Shipping Date: 11/3/2022/ FedEx 7703 8751 0478									
														1//	1122	1020					
														//	7		Received b	y Labo	ratory: (Signatur	e, Date, Time) & condition
\vdash		-														+					

GES.Navy_COC_Field November 03, 2022

15.300

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List Source: Eurofins Sacramento

Client: GES-AIS LLC Job Number: 320-94004-1

Login Number: 94004

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

PREPARED FOR

Attn:

GES-AIS LLC 1501 W Fountainhead Parkway Ste 550

Tempe Arizona 85282

Generated 11/16/2022 9:07:49 AM

JOB DESCRIPTION

Hunters Point, Parcel E, Phase 2

JOB NUMBER

320-94134-1

Eurofins Sacramento 880 Riverside Parkway West Sacramento CA95605



Client: GES-AIS LLC

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

Laboratory Job ID: 320-94134-1

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-94134-1

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

Qualifiers

M	eta	le
IVI	Cla	

Qualifier Qualifier Description

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

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL 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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11/16/2022

Case Narrative

Client: GES-AIS LLC Job ID: 320-94134-1

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

Job ID: 320-94134-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-94134-1

Comments

No additional comments.

Receipt

The samples were received on 11/9/2022 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 18.3° 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: 320-94134-1

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

Client Sample ID: GESPM100322-374

Lab Sample ID: 320-94134-1

Analyte	Result Qu	ualifier RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0061	0.0022	0.00032	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.054	0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.017	0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	10	0.90	0.90	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-374

_					
Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	30.7124	0.9421	0.9421 ug/m3 (Air)	1 40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-375

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	0.020		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	1.7		0.86	0.86	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-375

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	4.3500		0.8700	0.8700	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-376

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0022		0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.032		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.8		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-376

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	18.9462	0.3076	0.3076 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM100322-377

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00071	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.023	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0015	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	4.7	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP100322-377

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	17 3870	0.2841	0.2841 ug/m3 (Air)	1 40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 320-94134-2

Lab Sample ID: 320-94134-3

Lab Sample ID: 320-94134-4

Lab Sample ID: 320-94134-5

Lab Sample ID: 320-94134-6

Lab Sample ID: 320-94134-7

Lab Sample ID: 320-94134-8

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94134-1

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

Client Sample ID: GESPM100322-374

Lab Sample ID: 320-94134-1 Date Collected: 11/03/22 14:44 Matrix: Air

Date Received: 11/09/22 09:35

Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)									
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lead	0.0061	0.0022	0.00032	ug/m3 (Air)		11/15/22 09:00	11/15/22 13:47	1	
Copper	0.054	0.0043	0.00032	ug/m3 (Air)		11/15/22 09:00	11/15/22 13:47	1	
Manganese	0.017	0.0022	0.00030	ua/m3 (Air)		11/15/22 09:00	11/15/22 13:47	1	

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.90 11/10/22 07:30 10 0.90 ug/m3 (40CFR50J PM10)

Client Sample ID: GESTSP100322-374

Date Collected: 11/03/22 14:44 Date Received: 11/09/22 09:35

Sample Container: Folder/Filter **General Chemistry** Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac **Total Suspended Particulates** 0.9421 0.9421 ug/m3 (Air) 11/10/22 07:30 30.7124

Client Sample ID: GESPM100322-375 Lab Sample ID: 320-94134-3

Date Collected: 11/03/22 14:34 Date Received: 11/09/22 09:35

(EPA 40CFR50 App B)

Sample Container: Folder/Filter Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed 0.0021 11/15/22 09:00 11/15/22 13:57 Lead 0.0017 J 0.00031 ug/m3 (Air)

Copper 0.020 0.0041 0.00031 ug/m3 (Air) 11/15/22 09:00 11/15/22 13:57 0.0021 0.00029 ug/m3 (Air) 11/15/22 09:00 11/15/22 13:57 Manganese 0.013 **General Chemistry** Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.86 Particulate Matter as PM 10 1.7 0.86 ug/m3 11/10/22 07:30

Lab Sample ID: 320-94134-4 Client Sample ID: GESTSP100322-375

Date Collected: 11/03/22 14:34

(40CFR50J PM10)

Date Received: 11/09/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.8700 11/10/22 07:30 4.3500 0.8700 ug/m3 (Air) (EPA 40CFR50 App B)

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11/16/2022

Lab Sample ID: 320-94134-2

Matrix: Air

Matrix: Air

Matrix: Air

Dil Fac

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94134-1

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

Client Sample ID: GESPM100322-376

Lab Sample ID: 320-94134-5

Date Collected: 11/08/22 07:07 **Matrix: Air**

Date Received: 11/09/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - Meta								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0022	0.00070	0.00010	ug/m3 (Air)		11/15/22 09:00	11/15/22 14:00	1
Copper	0.032	0.0014	0.00010	ug/m3 (Air)		11/15/22 09:00	11/15/22 14:00	1
Manganese	0.0052	0.00070	0.000098	ua/m3 (Air)		11/15/22 09:00	11/15/22 14:00	1

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.8		0.29	0.29	ug/m3			11/10/22 07:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP100322-376 Lab Sample ID: 320-94134-6

Date Collected: 11/08/22 07:07 Date Received: 11/09/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte	Result Qua	alifier RL	RL	Unit	D	Prepared	Analvzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	18.9462	0.3076		ug/m3 (Air)	- = .		11/10/22 07:30	1

Lab Sample ID: 320-94134-7 Client Sample ID: GESPM100322-377 Matrix: Air

Date Collected: 11/08/22 06:55 Date Received: 11/09/22 09:35 Sample Container: Folder/Filter

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00071	0.00069	0.00010	ug/m3 (Air)	_	11/15/22 09:00	11/15/22 14:04	1
Copper	0.023	0.0014	0.00010	ug/m3 (Air)		11/15/22 09:00	11/15/22 14:04	1
Manganese	0.0015	0.00069	0.000096	ug/m3 (Air)		11/15/22 09:00	11/15/22 14:04	1

Contrat Chambary								
Analyte	Result Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	4.7	0.29	0.29	ug/m3			11/10/22 07:30	1
(40CFR50J PM10)								

Lab Sample ID: 320-94134-8 Client Sample ID: GESTSP100322-377

Date Collected: 11/08/22 06:55 Date Received: 11/09/22 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)	17.3870		0.2841	0.2841	ug/m3 (Air)			11/10/22 07:30	1

Eurofins Sacramento

11/16/2022

Matrix: Air

Matrix: Air

QC Sample Results

Client: GES-AIS LLC Job ID: 320-94134-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-633057/1-B

Analysis Batch: 633265

Manganese

Client Sample ID: Method Blank Matrix: Air Prep Type: Total/NA **Prep Batch: 633091**

		MR	MR							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Lead	ND		0.0012	0.00018	ug/m3 (Air)		11/15/22 09:00	11/15/22 13:38	1
	Copper	ND		0.0024	0.00018	ug/m3 (Air)		11/15/22 09:00	11/15/22 13:38	1
Į	Manganese	ND		0.0012	0.00017	ug/m3 (Air)		11/15/22 09:00	11/15/22 13:38	1

Lab Sample ID: LCS 320-633057/2-B **Client Sample ID: Lab Control Sample** Matrix: Air **Prep Type: Total/NA Analysis Batch: 633265 Prep Batch: 633091** Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Lead 0.240 0.231 ug/m3 (Air) 96 86 - 111 0.240 0.239 ug/m3 (Air) 100 85 - 110 Copper

0.240

Lab Sample ID: LCSD 320-633057/3-B **Client Sample ID: Lab Control Sample Dup** Matrix: Air Prep Type: Total/NA **Prep Batch: 633091 Analysis Batch: 633265** Spike LCSD LCSD %Rec **RPD**

0.243

ug/m3 (Air)

101

88 - 110

Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec Lead 0.240 0.234 ug/m3 (Air) 98 86 - 111 1 15 Copper 0.240 0.244 ug/m3 (Air) 102 85 - 110 2 15 Manganese 0.240 0.249 ug/m3 (Air) 104 2 15 88 - 110

QC Association Summary

Client: GES-AIS LLC Job ID: 320-94134-1

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

Metals

Pre Prep Batch: 633057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94134-1	GESPM100322-374	Total/NA	Air	Filter to Air	
320-94134-3	GESPM100322-375	Total/NA	Air	Filter to Air	
320-94134-5	GESPM100322-376	Total/NA	Air	Filter to Air	
320-94134-7	GESPM100322-377	Total/NA	Air	Filter to Air	
MB 320-633057/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-633057/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-633057/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 633091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94134-1	GESPM100322-374	Total/NA	Air	3050B	633057
320-94134-3	GESPM100322-375	Total/NA	Air	3050B	633057
320-94134-5	GESPM100322-376	Total/NA	Air	3050B	633057
320-94134-7	GESPM100322-377	Total/NA	Air	3050B	633057
MB 320-633057/1-B	Method Blank	Total/NA	Air	3050B	633057
LCS 320-633057/2-B	Lab Control Sample	Total/NA	Air	3050B	633057
LCSD 320-633057/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	633057

Analysis Batch: 633265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94134-1	GESPM100322-374	Total/NA	Air	6020	633091
320-94134-3	GESPM100322-375	Total/NA	Air	6020	633091
320-94134-5	GESPM100322-376	Total/NA	Air	6020	633091
320-94134-7	GESPM100322-377	Total/NA	Air	6020	633091
MB 320-633057/1-B	Method Blank	Total/NA	Air	6020	633091
LCS 320-633057/2-B	Lab Control Sample	Total/NA	Air	6020	633091
LCSD 320-633057/3-B	Lab Control Sample Dup	Total/NA	Air	6020	633091

General Chemistry

Pre Prep Batch: 633273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94134-2	GESTSP100322-374	Total/NA	Air	Filter to Air	
320-94134-4	GESTSP100322-375	Total/NA	Air	Filter to Air	
320-94134-6	GESTSP100322-376	Total/NA	Air	Filter to Air	
320-94134-8	GESTSP100322-377	Total/NA	Air	Filter to Air	

Analysis Batch: 633274

Lab Sample ID 320-94134-2	Client Sample ID GESTSP100322-374	Prep Type Total/NA	Matrix Air	Method 40CFR50 App B	Prep Batch 633273
320-94134-4	GESTSP100322-375	Total/NA	Air	40CFR50 App B	633273
320-94134-6	GESTSP100322-376	Total/NA	Air	40CFR50 App B	633273
320-94134-8	GESTSP100322-377	Total/NA	Air	40CFR50 App B	633273

Analysis Batch: 633275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94134-1	GESPM100322-374	Total/NA	Air	PM10	
320-94134-3	GESPM100322-375	Total/NA	Air	PM10	
320-94134-5	GESPM100322-376	Total/NA	Air	PM10	
320-94134-7	GESPM100322-377	Total/NA	Air	PM10	

Eurofins Sacramento

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2

Client: GES-AIS LLC Job ID: 320-94134-1

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

Client Sample ID: GESPM100322-374

Date Collected: 11/03/22 14:44 Date Received: 11/09/22 09:35 Lab Sample ID: 320-94134-1

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					633057	11/15/22 08:22		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	633091	11/15/22 09:00		EET SAC
Total/NA	Analysis	6020		1			633265	11/15/22 13:47		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0057 g	633275	11/10/22 07:30		EET SAC

Client Sample ID: GESTSP100322-374

Date Collected: 11/03/22 14:44 Date Received: 11/09/22 09:35 Lab Sample ID: 320-94134-2

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			633274	11/10/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					633273	11/15/22 16:13		EET SAC

Client Sample ID: GESPM100322-375

Date Collected: 11/03/22 14:34 Date Received: 11/09/22 09:35 Lab Sample ID: 320-94134-3

Lab Sample ID: 320-94134-4

Lab Sample ID: 320-94134-5

Matrix: Air

Matrix: Air

Matrix: Air

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 633057 11/15/22 08:22 EET SAC Total/NA 3050B Prep 100 mL 633091 11/15/22 09:00 **EET SAC** 0.08333 Sample Total/NA Analysis 6020 11/15/22 13:57 633265 **EET SAC** Total/NA Analysis PM10 0 g 0.0010 g 633275 11/10/22 07:30 **EET SAC**

Client Sample ID: GESTSP100322-375

Date Collected: 11/03/22 14:34

Date Received: 11/09/22 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			633274	11/10/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					633273	11/15/22 16:13		EET SAC

Client Sample ID: GESPM100322-376

Date Collected: 11/08/22 07:07

Date Received: 11/09/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					633057	11/15/22 08:22		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	633091	11/15/22 09:00		EET SAC
Total/NA	Analysis	6020		1	·		633265	11/15/22 14:00		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0169 g	633275	11/10/22 07:30		EET SAC

Eurofins Sacramento

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Lab Chronicle

Client: GES-AIS LLC Job ID: 320-94134-1

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

Client Sample ID: GESTSP100322-376

Lab Sample ID: 320-94134-6 Date Collected: 11/08/22 07:07 Matrix: Air

Date Received: 11/09/22 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			633274	11/10/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					633273	11/15/22 16:13		EET SAC

Client Sample ID: GESPM100322-377

Lab Sample ID: 320-94134-7

Matrix: Air

Date Collected: 11/08/22 06:55 Date Received: 11/09/22 09:35

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 633057 11/15/22 08:22 EET SAC Total/NA 3050B Prep 633091 0.08333 100 mL 11/15/22 09:00 **EET SAC** Sample Total/NA Analysis 6020 633265 11/15/22 14:04 **EET SAC** 1 Total/NA Analysis PM10 0 g 0.0082 g 633275 11/10/22 07:30 **EET SAC**

Client Sample ID: GESTSP100322-377

Lab Sample ID: 320-94134-8

Matrix: Air

Date Collected: 11/08/22 06:55 Date Received: 11/09/22 09:35

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 40CFR50 App B 633274 11/10/22 07:30 Analysis **EET SAC** Total/NA Pre Prep Filter to Air 633273 11/15/22 16:13 **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: 320-94134-1

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	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 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.	•	, , ,	

Method Summary

Client: GES-AIS LLC

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

Job ID: 320-94134-1

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

Sample Summary

Client: GES-AIS LLC Job ID: 320-94134-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-94134-1	GESPM100322-374	Air	11/03/22 14:44	11/09/22 09:35
320-94134-2	GESTSP100322-374	Air	11/03/22 14:44	11/09/22 09:35
320-94134-3	GESPM100322-375	Air	11/03/22 14:34	11/09/22 09:35
320-94134-4	GESTSP100322-375	Air	11/03/22 14:34	11/09/22 09:35
320-94134-5	GESPM100322-376	Air	11/08/22 07:07	11/09/22 09:35
320-94134-6	GESTSP100322-376	Air	11/08/22 07:07	11/09/22 09:35
320-94134-7	GESPM100322-377	Air	11/08/22 06:55	11/09/22 09:35
320-94134-8	GESTSP100322-377	Air	11/08/22 06:55	11/09/22 09:35

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CHAIN-OF-CUSTODY RECORD

Gilhane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC # KT110822AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2				L.al	Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN							Event: Parcel E Phase 2 Air										
Project Number: J310000400					POC:									Monitoring								
WBS Code: J310000400-016				Sh	ip to	: 88	0 Rive	erside	e Pa	arkw	ay,	We	st S	acramento, CA	95605				1			
Coi	mments:																	ive				
Equ	Jipment:				Analytical Test Method	CAAIR - Air PM10		SW6020 - Air Pb Mn Cu											320-9	4134 CI	hain of C	ustody
	Event: Parcel E Phase 2 Air I	Monitorir	g			1	1	1														
	Sample ID	Matrix	Date	Time	Samp Init.											Locat	ion ID	Sample Type	Depth	(ft bgs) Bottom	Cooler	Comments
1	GESPM100322-374	Α	11/03/2022	1444		Х		х	\vdash	\top	\dagger	\top	\top			AMS		N2	0.00	0.00	1	VOLUME: 555.35 (M3)
2	GESTSP100322-374	Α	11/03/2022	1444			×		\Box	\top	7	\top	\top	\exists	\neg	AMS	SE1	N2	0.00	0.00	1	VOLUME: 530.73 (M3)
3	GESPM100322-375	Α	11/03/2022	1434		Х	Т	Х	\Box	_	1	\top	1	7		AM	SE2	N2	0.00	0.00	1	VOLUME: 580.62 (M3)
4	GESTSP100322-375	Α	11/03/2022	1434			х			\top	\dagger	\top	\top	\dashv	\neg	AMS	SE2	N2	0.00	0.00	1	VOLUME: 574.71 (M3)
5	GESPM100322-376	Α	11/08/2022	0707		Х		х	\Box	\top	\top	十	十			AMS	SE1	N1	0.00	0.00	1	VOLUME: 1719.13 (M3)
6	GESTSP100322-376	Α	11/08/2022	0707			×		\Box	\top	+	\top	\top	7		AMS	SE1	N1	0.00	0.00	1	VOLUME: 1625.66 (M3)
7	GESPM100322-377	Α	11/08/2022	0655		Х		х			\top		\top		\neg	AMS	SE2	N1	0.00	0.00	1	VOLUME: 1749.60 (M3)
8	GESTSP100322-377	Α	11/08/2022	0655			х					1	2	,		AMS	SE2	N1	0.00	0.00	1	VOLUME: 1759.94 (M3)
9		-									\forall	-8	7									
10											巾	\dashv	\dagger		-			+				
Tur	naround Time: 5 days																					
D. 1	in a clab ad by a Color of the		D	1				_			_							15				
IHE	inquished by: (Signature)		Date	Time	Receive	d by	: (S	igna	ture)							Date	Time	Shipping D				
		1/	1/8/22	1600	F	*DE	X								//	18/22	1600	Sulpping Da	ite: 11/8	/2022 / 1	⊦edEx 77	704 1960 3868
															11	.9-26	093					
															-			Received b	y Labor	atory: (Signature	e, Date, Time) & condition

GES.Navy COC Field November 08, 2022

18.3'

























Client: GES-AIS LLC Job Number: 320-94134-1

Login Number: 94134

List Source: Eurofins Sacramento

List Number: 1
Creator:

Greator.		
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	

N/A

Eurofins Sacramento

Residual Chlorine Checked.

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



PREPARED FOR

Attn:

GES-AIS LLC 1501 W Fountainhead Parkway Ste 550

Tempe Arizona 85282

Generated 11/21/2022 12:08:07 PM

JOB DESCRIPTION

Hunters Point, Parcel E, Phase 2

JOB NUMBER

320-94312-1

Eurofins Sacramento 880 Riverside Parkway West Sacramento CA 95605



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

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-94312-1

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

Glossary

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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
EPA recommended "Maximum Contaminant Level"
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Most Probable Number
Method Quantitation Limit
Not Calculated
Not Detected at the reporting limit (or MDL or EDL if shown)
Negative / Absent
Positive / Present
Practical Quantitation Limit
Presumptive

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: 320-94312-1

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

Job ID: 320-94312-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-94312-1

Receipt

The samples were received on 11/11/2022 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 18.0° C.

Metals

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

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Detection Summary

Client: GES-AIS LLC Job ID: 320-94312-1

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

I ab	Sample	ID: 320	-94312-1

Lab Sample ID: 320-94312-3

Lab Sample ID: 320-94312-4

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Me	thod	Prep Type
Lead	0.0014	0.00070	0.00011	ug/m3 (Air)	1	602	0	Total/NA
Copper	0.026	0.0014	0.00011	ug/m3 (Air)	1	602	0	Total/NA
Manganese	0.0028	0.00070	0.000098	ug/m3 (Air)	1	602	0	Total/NA
Particulate Matter as PM 10	9.8	0.29	0.29	ug/m3	1	PM	10	Total/NA

Client Sample ID: GESTSP100322-378	Lab Sample ID: 320-94312-2

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	11.3060	0.3056	0.3056 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-433

Γ						_		
Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0018	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.43	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	12	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP101722-433

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac I) Method	Prep Type
Total Suspended Particulates	13.7577		0.2854	0.2854	ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94312-1

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

Client Sample ID: GESPM100322-378

Lab Sample ID: 320-94312-1

Date Collected: 11/10/22 06:39 Matrix: Air

Date Received: 11/11/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals ((ICP/MS)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014	0.00070	0.00011 ug/m3 (Air)	_	11/17/22 11:34	11/17/22 15:27	1
Copper	0.026	0.0014	0.00011 ug/m3 (Air)		11/17/22 11:34	11/17/22 15:27	1

0.00070 0.000098 ug/m3 (Air) Manganese 0.0028 11/17/22 11:34 11/17/22 15:27

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Particulate Matter as PM 10 0.29 9.8 0.29 ug/m3 11/14/22 16:00

(40CFR50J PM10)

Client Sample ID: GESTSP100322-378 Lab Sample ID: 320-94312-2

Date Collected: 11/10/22 06:39 Date Received: 11/11/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac **Total Suspended Particulates** 11.3060 0.3056 0.3056 ug/m3 (Air) 11/14/22 16:00 (EPA 40CFR50 App B)

Client Sample ID: GESPM101722-433 Lab Sample ID: 320-94312-3

Date Collected: 11/10/22 06:31 Matrix: Air

Date Received: 11/11/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 11/17/22 11:34 11/17/22 15:36 Lead 0.0018 0.00069 0.00010 ug/m3 (Air) Copper 0.0014 0.00010 ug/m3 (Air) 11/17/22 11:34 11/17/22 15:36 0.43 0.00069 0.000097 ug/m3 (Air) 11/17/22 11:34 11/17/22 15:36 Manganese 0.0025

General Chemistry Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.29 Particulate Matter as PM 10 12 0.29 ug/m3 11/14/22 16:00 (40CFR50J PM10)

Lab Sample ID: 320-94312-4 Client Sample ID: GESTSP101722-433

Date Collected: 11/10/22 06:31 Matrix: Air

Date Received: 11/11/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.2854 11/14/22 16:00 13.7577 0.2854 ug/m3 (Air) (EPA 40CFR50 App B)

Eurofins Sacramento

11/21/2022

Dil Fac

Matrix: Air

QC Sample Results

Client: GES-AIS LLC Job ID: 320-94312-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-633580/1-B

Matrix: Air Analysis Batch: 633979 **Client Sample ID: Method Blank**

Prep Type: Total/NA

Prep Batch: 633648

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND ND	0.0012	0.00018 ug/m3 (Air)	_	11/17/22 11:34	11/18/22 11:12	1
Copper	ND	0.0024	0.00018 ug/m3 (Air)		11/17/22 11:34	11/18/22 11:12	1
Manganese	ND	0.0012	0.00017 ug/m3 (Air)		11/17/22 11:34	11/18/22 11:12	1

Lab Sample ID: LCS 320-633580/2-B **Client Sample ID: Lab Control Sample**

MR MR

Matrix: Air

Analysis Batch: 633979

Prep Type: Total/NA

Prep Batch: 633648 %Rec Limits

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Lead 0.240 0.258 ug/m3 (Air) 86 - 111 107 0.240 0.253 ug/m3 (Air) 105 85 - 110 Copper 0.240 0.258 ug/m3 (Air) 107 88 - 110 Manganese

Lab Sample ID: LCSD 320-633580/3-B **Client Sample ID: Lab Control Sample Dup** Matrix: Air Prep Type: Total/NA

Analysis Batch: 633979

Prep Batch: 633648 %Rec **RPD** Limits RPD Limit D %Rec

Spike LCSD LCSD Added Result Qualifier Unit **Analyte** Lead 0.240 0.258 ug/m3 (Air) 107 86 - 111 0 15 Copper 0.240 0.255 ug/m3 (Air) 106 85 - 110 15 0.240 0.260 ug/m3 (Air) 108 88 - 110 15 Manganese

QC Association Summary

Client: GES-AIS LLC Job ID: 320-94312-1

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

Metals

Pre Prep Batch: 633580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94312-1	GESPM100322-378	Total/NA	Air	Filter to Air	
320-94312-3	GESPM101722-433	Total/NA	Air	Filter to Air	
MB 320-633580/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-633580/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-633580/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 633648

Lab Sample ID 320-94312-1	Client Sample ID GESPM100322-378	Prep Type Total/NA	Matrix Air	Method 3050B	Prep Batch 633580
320-94312-3	GESPM101722-433	Total/NA	Air	3050B	633580
MB 320-633580/1-B	Method Blank	Total/NA	Air	3050B	633580
LCS 320-633580/2-B	Lab Control Sample	Total/NA	Air	3050B	633580
LCSD 320-633580/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	633580

Analysis Batch: 633830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94312-1	GESPM100322-378	Total/NA	Air	6020	633648
320-94312-3	GESPM101722-433	Total/NA	Air	6020	633648

Analysis Batch: 633979

Lab Sample ID MB 320-633580/1-B	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Air	Method 6020	Prep Batch 633648
LCS 320-633580/2-B	Lab Control Sample	Total/NA	Air	6020	633648
LCSD 320-633580/3-B	Lab Control Sample Dup	Total/NA	Air	6020	633648

General Chemistry

Pre Prep Batch: 633727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94312-2	GESTSP100322-378	Total/NA	Air	Filter to Air	
320-94312-4	GESTSP101722-433	Total/NA	Air	Filter to Air	

Analysis Batch: 633732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94312-1	GESPM100322-378	Total/NA	Air	PM10	
320-94312-3	GESPM101722-433	Total/NA	Air	PM10	

Analysis Batch: 633822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94312-2	GESTSP100322-378	Total/NA	Air	40CFR50 App B	633727
320-94312-4	GESTSP101722-433	Total/NA	Air	40CFR50 App B	633727

Eurofins Sacramento

11/21/2022

Lab Chronicle

Client: GES-AIS LLC Job ID: 320-94312-1

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

Client Sample ID: GESPM100322-378

Lab Sample ID: 320-94312-1 Date Collected: 11/10/22 06:39

Matrix: Air

Date Received: 11/11/22 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					633580	11/17/22 07:44		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	633648	11/17/22 11:34		EET SAC
Total/NA	Analysis	6020		1			633830	11/17/22 15:27		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0168 g	633732	11/14/22 16:00		EET SAC

Client Sample ID: GESTSP100322-378

Lab Sample ID: 320-94312-2 Date Collected: 11/10/22 06:39

Matrix: Air

Date Received: 11/11/22 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			633822	11/14/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					633727	11/17/22 14:04		EET SAC

Client Sample ID: GESPM101722-433

Lab Sample ID: 320-94312-3 Date Collected: 11/10/22 06:31 Matrix: Air

Date Received: 11/11/22 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					633580	11/17/22 07:44		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	633648	11/17/22 11:34		EET SAC
Total/NA	Analysis	6020		1	·		633830	11/17/22 15:36		EET SAC
Total/NA	Analysis	PM10		1	0 a	0.0202 q	633732	11/14/22 16:00		EET SAC

Client Sample ID: GESTSP101722-433

Date Collected: 11/10/22 06:31 Matrix: Air

Date Received: 11/11/22 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			633822	11/14/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					633727	11/17/22 14:04		EET SAC

Laboratory References:

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

Eurofins Sacramento

11/21/2022

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Lab Sample ID: 320-94312-4

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-94312-1

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. 0		pt. of Defense ELAP	L2468	01-20-24
Oregon	NE	ELAP	4040	01-29-23
	s are included in this repu	ort, but the laboratory is not o	certified by the governing authority.	This list may include analytes for which
the agency does not	offer certification.	,	, , ,	I his list may include analytes for which
0 ,	'	Matrix	Analyte	I his list may include analytes for whic
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 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: 320-94312-1

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Sample Summary

Client: GES-AIS LLC Job ID: 320-94312-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-94312-1	GESPM100322-378	Air	11/10/22 06:39	11/11/22 09:35
320-94312-2	GESTSP100322-378	Air	11/10/22 06:39	11/11/22 09:35
320-94312-3	GESPM101722-433	Air	11/10/22 06:31	11/11/22 09:35
320-94312-4	GESTSP101722-433	Air	11/10/22 06:31	11/11/22 09:35

CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC# KT111022AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	boratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN	Event: Parcel E Phase 2 Air Monitoring		
Project Number: J310000400	DC:			
WBS Code: J310000400-016	nip to: 880 Riverside Parkway, West Sacramento, CA 95605			
Comments:				
Equipment: Ednibment: Test Method	Code Matrix A Air Code Container/Preservative 1 1x Envelope, None 320-94312 C	chain of Custody		
Event: Parcel E Phase 2 Air Monitoring				
Sample ID Matrix Date Time Samp Init.	Location ID Sample Depth (ft bgs			
1 GESPM100322-378 A 11/10/2022 0639	X AMSE1 N1 0.00 0.00	1 VOLUME: 1709.41 (M3)		
2 GESTSP100322-378 A 11/10/2022 0639	X AMSE1 N1 0.00 0.00	1 VOLUME: 1636.30 (M3)		
3 GESPM101722-433 A 11/10/2022 0631	X AMSE2 N1 0.00 0.00			
4 GESTSP101722-433 A 11/10/2022 0631	X AMSE2 N1 0.00 0.00			
5	1/9/1/9			
6				
Turnaround Time: 5 days				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	11/10/22	1600	Feder	11/10/22	1600	Shipping Date: 11/10/2022/ FedEx 7704 4700 2523
				1/11/22	955	
						Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy_COC_Field November 10, 2022

18.00























Client: GES-AIS LLC Job Number: 320-94312-1

Login Number: 94312

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	

List Source: Eurofins Sacramento

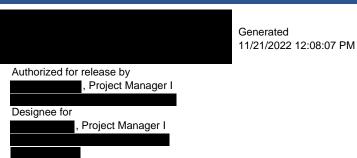
Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



ANALYTICAL REPORT

PREPARED FOR

Attn:

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

Generated 12/5/2022 11:06:36 AM

JOB DESCRIPTION

Hunters Point, Parcel E, Phase 2

JOB NUMBER

320-94682-1

Eurofins Sacramento 880 Riverside Parkway West Sacramento CA 95605



Eurofins Sacramento

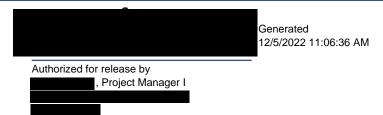
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Authorization



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

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-94682-1

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

Qualifiers

Qualifier Description

B Compound was found in the blank and sample.

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

Glossary

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

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

Eurofins Sacramento

12/5/2022

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Case Narrative

Client: GES-AIS LLC Job ID: 320-94682-1

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

Job ID: 320-94682-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-94682-1

Comments

No additional comments.

Receipt

The samples were received on 11/23/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.5° C.

Receipt Exceptions

The container label for the samples did not match the information listed on the Chain-of-Custody (COC). There was no date or time on the samples.

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: 320-94682-1

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

Client Sample ID	D: GESPM101722-438
------------------	--------------------

Lab Sample ID: 320-94682-1

Analyte	Result Q	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0053		0.0024	0.00036	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.083 B	3	0.0049	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.0024	0.00034	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP101722-438

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	43.6746	1.0601	1.0601 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-439

Lab Sample ID: 320-94682-3

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Lead	0.0046	0.0024	0.00036	ug/m3 (Air)	1	6020	Total/NA
Copper	0.17 B	0.0048	0.00036	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.010	0.0024	0.00034	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	23	1.0	1.0	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP101722-439

Lab Sample ID: 320-94682-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	22.6298	0.9839	0.9839 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-440

Lab Sample ID: 320-94682-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac [Method	Prep Type
Lead	0.0057	0.00070	0.00011	ug/m3 (Air)	1	6020	Total/NA
Copper	0.042 B	0.0014	0.00011	ug/m3 (Air)	1	6020	Total/NA
Manganese	0.014	0.00070	0.000098	ug/m3 (Air)	1	6020	Total/NA
Particulate Matter as PM 10	21	0.29	0.29	ug/m3	1	PM10	Total/NA

Client Sample ID: GESTSP101722-440

Lab Sample ID: 320-94682-6

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	39.8861	0.3068	0.3068 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-441

Lab Sample ID: 320-94682-7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0048	0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.069 B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP101722-441

Lab Sample ID: 320-94682-8

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type	
Total Suspended Particulates	40.2378	0.2903	0.2903 ug/m3 (Air)		40CFR50 App B	Total/NA	-

This Detection Summary does not include radiochemical test results.

12/5/2022

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94682-1

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

Client Sample ID: GESPM101722-438

Lab Sample ID: 320-94682-1 Date Collected: 11/17/22 13:50

Matrix: Air

Date Received: 11/23/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)									
	Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Lead	0.0053	0.0024	0.00036	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:41	1
	Copper	0.083 B	0.0049	0.00036	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:41	1
	Manganese	0.015	0.0024	0.00034	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:41	1

General Chemistry RL Analyte Result Qualifier **RL Unit** Prepared Analyzed Dil Fac Particulate Matter as PM 10 1.0 11/30/22 07:30 31 1.0 ug/m3 (40CFR50J PM10)

Client Sample ID: GESTSP101722-438 Lab Sample ID: 320-94682-2

Date Collected: 11/17/22 13:50 Matrix: Air

Date Received: 11/23/22 09:35 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac **Total Suspended Particulates** 1.0601 1.0601 ug/m3 (Air) 11/30/22 07:30 43.6746 (EPA 40CFR50 App B)

Client Sample ID: GESPM101722-439 Lab Sample ID: 320-94682-3

Date Collected: 11/17/22 13:38 Matrix: Air

Date Received: 11/23/22 09:35 Sample Container: Folder/Filter

Method: SW846 6020 - I	Method: SW846 6020 - Metals (ICP/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Lead	0.0046		0.0024	0.00036	ug/m3 (Air)	_	12/02/22 06:00	12/02/22 11:51	1		
Copper	0.17	В	0.0048	0.00036	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:51	1		
Manganese	0.010		0.0024	0.00034	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:51	1		

General Chemistry Analyte Result Qualifier RL**RL** Unit Prepared Analyzed 1.0 Particulate Matter as PM 10 23 1.0 ug/m3 11/30/22 07:30 (40CFR50J PM10)

Client Sample ID: GESTSP101722-439 Lab Sample ID: 320-94682-4

Date Collected: 11/17/22 13:38 Matrix: Air

Date Received: 11/23/22 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)	22.6298		0.9839	0.9839	ug/m3 (Air)			11/30/22 07:30	1

12/5/2022

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94682-1

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

Client Sample ID: GESPM101722-440

Lab Sample ID: 320-94682-5 Date Collected: 11/22/22 07:04

Matrix: Air

Date Received: 11/23/22 09:35 Sample Container: Folder/Filter

Method:	SW846	6020	- Metals	(ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0057		0.00070	0.00011	ug/m3 (Air)	_	12/02/22 06:00	12/02/22 11:54	1
Copper	0.042	В	0.0014	0.00011	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:54	1
Manganese	0.014		0.00070	0.000098	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.29	0.29	ug/m3			11/30/22 07:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP101722-440

Lab Sample ID: 320-94682-6 Date Collected: 11/22/22 07:04 Matrix: Air

Date Received: 11/23/22 09:35 Sample Container: Folder/Filter

General Chemistry

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.8861		0.3068	0.3068	ug/m3 (Air)	_		11/30/22 07:30	1
(EPA 40CFR50 App B)									

Client Sample ID: GESPM101722-441

Lab Sample ID: 320-94682-7 Date Collected: 11/22/22 07:26 Matrix: Air

Date Received: 11/23/22 09:35

Sample Container: Folder/Filter

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

Analyte	,	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0048	·	0.00070	0.00010	ug/m3 (Air)	_	12/02/22 06:00	12/02/22 12:04	1
Copper	0.069	В	0.0014	0.00010	ug/m3 (Air)		12/02/22 06:00	12/02/22 12:04	1
Manganese	0.013		0.00070	0.000098	ug/m3 (Air)		12/02/22 06:00	12/02/22 12:04	1

General Chemistry

Analyte	Result Qualifi	er RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29	0.29	0.29	ug/m3			11/30/22 07:30	1
(40CFR50J PM10)								

Client Sample ID: GESTSP101722-441

Lab Sample ID: 320-94682-8 Date Collected: 11/22/22 07:26 Matrix: Air

Date Received: 11/23/22 09:35 Sample Container: Folder/Filter

	nera	$\cdot \cdot \cdot \cap \vdash$		4
1 176	311612		ems	IIV

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	40.2378		0.2903	0.2903	ug/m3 (Air)			11/30/22 07:30	1

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Eurofins Sacramento

12/5/2022

QC Sample Results

Client: GES-AIS LLC Job ID: 320-94682-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-636765/1-B

Lab Sample ID: LCS 320-636765/2-B

Matrix: Air

Matrix: Air

Analysis Batch: 636896

Client	Sample	ID:	Meth	od	В	lan	k

Prep Type: Total/NA

Prep Batch: 636772

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)	_	12/02/22 06:00	12/02/22 11:32	1
Copper	0.000240	J	0.0024	0.00018	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:32	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		12/02/22 06:00	12/02/22 11:32	1

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

Prep Batch: 636772

Analysis Batch: 636896							Prep Ba	atch: 63677
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	0.240	0.256		ug/m3 (Air)	_	107	86 - 111	
Copper	0.240	0.255		ug/m3 (Air)		106	85 - 110	
Manganese	0.240	0.257		ug/m3 (Air)		107	88 - 110	

Lab Sample ID: LCSD 320-636765/3-B **Client Sample ID: Lab Control Sample Dup Matrix: Air** Prep Type: Total/NA

Analysis Batch: 636896

Spike LCSD LCSD %Rec Added Result Qualifier Unit Limits RPD Limit **Analyte** D %Rec 86 - 111 Lead 0.240 0.249 ug/m3 (Air) 104 3 15 Copper 0.240 0.254 ug/m3 (Air) 106 85 - 110 0 15 Manganese 0.240 0.257 ug/m3 (Air) 107 88 - 110 15 0

QC Association Summary

Client: GES-AIS LLC Job ID: 320-94682-1

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

Metals

Pre Prep Batch: 636765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94682-1	GESPM101722-438	Total/NA	Air	Filter to Air	
320-94682-3	GESPM101722-439	Total/NA	Air	Filter to Air	
320-94682-5	GESPM101722-440	Total/NA	Air	Filter to Air	
320-94682-7	GESPM101722-441	Total/NA	Air	Filter to Air	
MB 320-636765/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-636765/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-636765/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 636772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94682-1	GESPM101722-438	Total/NA	Air	3050B	636765
320-94682-3	GESPM101722-439	Total/NA	Air	3050B	636765
320-94682-5	GESPM101722-440	Total/NA	Air	3050B	636765
320-94682-7	GESPM101722-441	Total/NA	Air	3050B	636765
MB 320-636765/1-B	Method Blank	Total/NA	Air	3050B	636765
LCS 320-636765/2-B	Lab Control Sample	Total/NA	Air	3050B	636765
LCSD 320-636765/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	636765

Analysis Batch: 636896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94682-1	GESPM101722-438	Total/NA	Air	6020	636772
320-94682-3	GESPM101722-439	Total/NA	Air	6020	636772
320-94682-5	GESPM101722-440	Total/NA	Air	6020	636772
320-94682-7	GESPM101722-441	Total/NA	Air	6020	636772
MB 320-636765/1-B	Method Blank	Total/NA	Air	6020	636772
LCS 320-636765/2-B	Lab Control Sample	Total/NA	Air	6020	636772
LCSD 320-636765/3-B	Lab Control Sample Dup	Total/NA	Air	6020	636772

General Chemistry

Pre Prep Batch: 636842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
320-94682-2	GESTSP101722-438	Total/NA	Air	Filter to Air
320-94682-4	GESTSP101722-439	Total/NA	Air	Filter to Air
320-94682-6	GESTSP101722-440	Total/NA	Air	Filter to Air
320-94682-8	GESTSP101722-441	Total/NA	Air	Filter to Air

Analysis Batch: 636853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94682-1	GESPM101722-438	Total/NA	Air	PM10	_
320-94682-3	GESPM101722-439	Total/NA	Air	PM10	
320-94682-5	GESPM101722-440	Total/NA	Air	PM10	
320-94682-7	GESPM101722-441	Total/NA	Air	PM10	

Analysis Batch: 636919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94682-2	GESTSP101722-438	Total/NA	Air	40CFR50 App B	636842
320-94682-4	GESTSP101722-439	Total/NA	Air	40CFR50 App B	636842
320-94682-6	GESTSP101722-440	Total/NA	Air	40CFR50 App B	636842
320-94682-8	GESTSP101722-441	Total/NA	Air	40CFR50 App B	636842

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12/5/2022

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Job ID: 320-94682-1

Client: GES-AIS LLC

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

Client Sample ID: GESPM101722-438

Date Collected: 11/17/22 13:50 Date Received: 11/23/22 09:35 Lab Sample ID: 320-94682-1

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					636765	12/02/22 05:08		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	636772	12/02/22 06:00		EET SAC
Total/NA	Analysis	6020		1			636896	12/02/22 11:41		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0152 g	636853	11/30/22 07:30		EET SAC

Client Sample ID: GESTSP101722-438

Date Collected: 11/17/22 13:50 Date Received: 11/23/22 09:35

Lab Sample ID: 320-94682-2

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			636919	11/30/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					636842	12/02/22 09:58		EET SAC

Client Sample ID: GESPM101722-439

Date Collected: 11/17/22 13:38 Date Received: 11/23/22 09:35 Lab Sample ID: 320-94682-3 Matrix: Air

Matrix: Air

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 636765 12/02/22 05:08 EET SAC Total/NA 3050B 636772 Prep 100 mL 12/02/22 06:00 **EET SAC** 0.08333 Sample Total/NA Analysis 6020 636896 12/02/22 11:51 **EET SAC** Total/NA Analysis PM10 0 g 0.0113 g 636853 11/30/22 07:30 **EET SAC**

Client Sample ID: GESTSP101722-439

Date Collected: 11/17/22 13:38

Date Received: 11/23/22 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			636919	11/30/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					636842	12/02/22 09:58		EET SAC

Client Sample ID: GESPM101722-440

Date Collected: 11/22/22 07:04 Date Received: 11/23/22 09:35

Lab Sample ID.	320-34002-3
	Matrix: Air

Lab Cample ID: 220 04692 E

Lab Sample ID: 320-94682-4

_	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					636765	12/02/22 05:08		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	636772	12/02/22 06:00		EET SAC
Total/NA	Analysis	6020		1	•		636896	12/02/22 11:54		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0359 g	636853	11/30/22 07:30		EET SAC

Eurofins Sacramento

Lab Chronicle

Client: GES-AIS LLC Job ID: 320-94682-1

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

Client Sample ID: GESTSP101722-440

Lab Sample ID: 320-94682-6 Matrix: Air

Date Collected: 11/22/22 07:04 Date Received: 11/23/22 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			636919	11/30/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					636842	12/02/22 09:58		EET SAC

Client Sample ID: GESPM101722-441

Date Collected: 11/22/22 07:26	Matrix: Air
Date Received: 11/23/22 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					636765	12/02/22 05:08		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	636772	12/02/22 06:00		EET SAC
Total/NA	Analysis	6020		1			636896	12/02/22 12:04		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0507 g	636853	11/30/22 07:30		EET SAC

Client Sample ID: GESTSP101722-441

Date Collected: 11/22/22 07:26

Date Received: 11/23/22 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			636919	11/30/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					636842	12/02/22 09:58		EET SAC

Laboratory References:

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

Lab Sample ID: 320-94682-7

Lab Sample ID: 320-94682-8

Matrix: Air

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-94682-1

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
,	•	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.	,	, , ,	

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: 320-94682-1

Sample Summary

Client: GES-AIS LLC Job ID: 320-94682-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-94682-1	GESPM101722-438	Air	11/17/22 13:50	11/23/22 09:35
320-94682-2	GESTSP101722-438	Air	11/17/22 13:50	11/23/22 09:35
320-94682-3	GESPM101722-439	Air	11/17/22 13:38	11/23/22 09:35
320-94682-4	GESTSP101722-439	Air	11/17/22 13:38	11/23/22 09:35
320-94682-5	GESPM101722-440	Air	11/22/22 07:04	11/23/22 09:35
320-94682-6	GESTSP101722-440	Air	11/22/22 07:04	11/23/22 09:35
320-94682-7	GESPM101722-441	Air	11/22/22 07:26	11/23/22 09:35
320-94682-8	GESTSP101722-441	Air	11/22/22 07:26	11/23/22 09:35

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CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520

COC# KT112222AIRE



Proj	ect Name: Hunters Point Shipyard, Parcel E RA Phase 2				Lab	orat	ory: El	JROFIN	ISEN	VIRC	MMC	ENT	TESTING N	ORTHERI	CALIFORNI	A, LLC	(EETN			
Proj	ect Number: J310000400					РО	C:												Monito	ring
WB:	S Code: J310000400-016					Shi	p to:	880 R	iverside	Parl	kway,	Wes	st Sa	cramento, C	A 95605					
	ipme 320-94682 Chair	n of Cust	ody	_	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu												
	Event: Parcel E Phase 2 Air	Monitorin	00		4	1	1	1	++	+	+									
	Sample ID	Matrix	Date	Time	Samp Init.						П			Loca	tion ID	Sample	_	(ft bgs) Bottom	Cooler	Comments
1	GESPM101722-438	A	11/17/2022	1350	Iriit.	X		Х	+++	+	+-				SE1	N2	0.00	0.00	1	VOLUME: 494.37 (M3)
2	GESTSP101722-438	A	11/17/2022	1350			×		++	+	+ +				SE1	N2	0.00	0.00	1	VOLUME: 471.67 (M3)
3	GESPM101722-439	A	11/17/2022	1338	-	х	Н	х		+	+ +				SE2	N2	0.00	0.00	1	VOLUME: 498.04 (M3)
4	GESTSP101722-439	A	11/17/2022	1338			x		11					AM	SE2	N2	0.00	0.00	1	VOLUME: 508.18 (M3)
5	GESPM101722-440	A	11/22/2022	0704		×		х			\Box			AM	SE1	N1	0.00	0.00	1	VOLUME: 1711.10 (M3)
6	GESTSP101722-440	A	11/22/2022	0704			X							AM	SE1	N1	0.00	0.00	1	VOLUME: 1629.64 (M3)
7	GESPM101722-441	A	11/22/2022	0726		х		x						AM	SE2	N1	0.00	0.00	1	VOLUME: 1718.76 (M3)
8	GESTSP101722-441	A	11/22/2022	0726			х							AM	SE2	N1	0.00	0.00	1	VOLUME: 1722.26 (M3)
9		-																		
10										11.	22	27								
Turi	naround Time: NA																			
Rai	inquished by: (Signature)		Date	Time	Receive	d hy	· /Si	anatu	re)	_	-			Date	Time	Shipping D	ate / C:	prior / A	irbitt Nu	mhar
[1101	materior by Ferginator						. (0.	9,,0,0,0						, ,		Shipping Da				
		/	1/22/2022	1600	FEDE.	X							11/	22/2022	1600					
													1/h	3hr	938					
													1110	7.00	107	Received b	y Labo	ratory: (Signatur	e, Date, Time) & condition
_												_								
GES	Navy COC Field mber 22, 2022														-				4	Page 1 of 1

20.5 %

Page 1 of 1



















Login Sample Receipt Checklist

Client: GES-AIS LLC Job Number: 320-94682-1

Login Number: 94682

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.

ANALYTICAL REPORT

PREPARED FOR

Attn:

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

Generated 12/7/2022 3:49:47 PM

JOB DESCRIPTION

Hunters Point, Parcel E, Phase 2

JOB NUMBER

320-94754-1

Eurofins Sacramento 880 Riverside Parkway West Sacramento CA 95605



Eurofins Sacramento

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



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Client: GES-AIS LLC

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

Laboratory Job ID: 320-94754-1

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-94754-1

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

Negative / Absent

Positive / Present

Presumptive

Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Glossary

NEG POS

PQL

QC

RER

RL RPD

TEF

TEQ

TNTC

PRES

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)

Case Narrative

Client: GES-AIS LLC Job ID: 320-94754-1

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

Job ID: 320-94754-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-94754-1

Comments

No additional comments.

Receipt

The samples were received on 11/30/2022 10:35 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 16.9° 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: 320-94754-1

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

Client Sam	ple ID:	GESPM101722-442
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Lab Sample ID: 320-94754-1

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Met	hod	Prep Type
Lead	0.0039	0.00070	0.00011	ug/m3 (Air)	1	602	0	Total/NA
Copper	0.045	0.0014	0.00011	ug/m3 (Air)	1	602	0	Total/NA
Manganese	0.011	0.00070	0.000099	ug/m3 (Air)	1	602	0	Total/NA
Particulate Matter as PM 10	32	0.29	0.29	ug/m3	1	PM	10	Total/NA

Client Sample ID: GESTSP101722-442

Lab Sample ID: 320-94754-2

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	43.7930	0.3075	0.3075 ug/m3 (Air)		40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-443

Lab Sample ID: 320-94754-3

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Met	hod Prep Type
Lead	0.0036	0.00068	0.00010	ug/m3 (Air)	1	602	0 Total/NA
Copper	0.16	0.0014	0.00010	ug/m3 (Air)	1	602	0 Total/NA
Manganese	0.0097	0.00068	0.000095	ug/m3 (Air)	1	602	0 Total/NA
Particulate Matter as PM 10	31	0.28	0.28	ug/m3	1	PM	10 Total/NA

Client Sample ID: GESTSP101722-443

Lab Sample ID: 320-94754-4

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	32.0779	0.2824	0.2824 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-444

Lab Sample ID: 320-94754-5

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.015	0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.11	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.026	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP101722-444

Lab Sample ID: 320-94754-6

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	76.1176	0.3042	0.3042 ug/m3 (Air)	1	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-445

Lab Sample ID: 320-94754-7

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.015	0.00070	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.034	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.025	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	63	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP101722-445

Lab Sample ID: 320-94754-8

Amalista	Decult O		DI.	11:4	Dil Faa F	Mathad	D T	
Analyte	Result Qu	ualitier RL	RL	Unit	Dil Fac D	Method	Prep Type	
Total Suspended Particulates	98 7291	0.2900	0.2900	ug/m3 (Air)	1	40CFR50 App B	Total/NA	

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94754-1

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

Client Sample ID: GESPM101722-442

Date Collected: 11/23/22 07:01

Lab Sample ID: 320-94754-1 Matrix: Air

Matrix: Air

Matrix: Air

Matrix: Air

Date Received: 11/30/22 10:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals	(ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039	0.00070	0.00011	ug/m3 (Air)	_	12/06/22 05:49	12/06/22 15:12	1
Copper	0.045	0.0014	0.00011	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:12	1
Manganese	0.011	0.00070	0.000099	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:12	1

General Chemistry Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	32		0.29	0.29	ug/m3			12/02/22 16:00	1
(40CFR50J PM10)									

Client Sample ID: GESTSP101722-442 Lab Sample ID: 320-94754-2

Date Collected: 11/23/22 07:01 Date Received: 11/30/22 10:35

Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.7930		0.3075	0.3075	ug/m3 (Air)			12/02/22 16:00	1
(EPA 40CFR50 App B)									

Client Sample ID: GESPM101722-443 Lab Sample ID: 320-94754-3

Date Collected: 11/23/22 07:10 Date Received: 11/30/22 10:35

Sample Container: Folder/Filter

Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036	0.00068	0.00010	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:22	1
Copper	0.16	0.0014	0.00010	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:22	1
Manganese	0.0097	0.00068	0.000095	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:22	1

General Oneillistry							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31	0.28	0.28 ug/m3			12/02/22 16:00	1
(40CFR50J PM10)							

Client Sample ID: GESTSP101722-443 Lab Sample ID: 320-94754-4

Date Collected: 11/23/22 07:10 Date Received: 11/30/22 10:35 Sample Container: Folder/Filter

General Chemistry Analyte	Popult	Qualifier	RL	ы	Unit	_	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	KL	KL	UIIIL	U	Prepareu	Allalyzeu	DII Fac
Total Suspended Particulates (EPA 40CFR50 App B)	32.0779		0.2824	0.2824	ug/m3 (Air)			12/02/22 16:00	1

Eurofins Sacramento

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94754-1

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

Client Sample ID: GESPM101722-444

Lab Sample ID: 320-94754-5 Date Collected: 11/29/22 07:31

Matrix: Air

Matrix: Air

Date Received: 11/30/22 10:35 Sample Container: Folder/Filter

Method: SW846 6020 - Metals	(ICP/MS)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.015	0.00070	0.00010	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:25	1
Copper	0.11	0.0014	0.00010	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:25	1
Manganese	0.026	0.00070	0.000098	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:25	1

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 12/02/22 16:00 0.29 ug/m3 (40CFR50J PM10)

Client Sample ID: GESTSP101722-444 Lab Sample ID: 320-94754-6

Date Collected: 11/29/22 07:31 Date Received: 11/30/22 10:35

Sample Container: Folder/Filter **General Chemistry**

Analyte Result Qualifier RL **RL** Unit Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.3042 0.3042 ug/m3 (Air) 12/02/22 16:00 76.1176 (EPA 40CFR50 App B)

Client Sample ID: GESPM101722-445 Lab Sample ID: 320-94754-7

Date Collected: 11/29/22 07:13 Matrix: Air

Date Received: 11/30/22 10:35 Sample Container: Folder/Filter

Method: SW846 6020 - Met								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.015	0.00070	0.00010	ug/m3 (Air)	_	12/06/22 05:49	12/06/22 15:34	1
Copper	0.034	0.0014	0.00010	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:34	1
Manganese	0.025	0.00070	0.000098	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:34	1

General Chemistry Analyte Result Qualifier RL **RL** Unit Prepared Analyzed 0.29 Particulate Matter as PM 10 63 0.29 ug/m3 12/02/22 16:00 (40CFR50J PM10)

Client Sample ID: GESTSP101722-445 Lab Sample ID: 320-94754-8

Date Collected: 11/29/22 07:13 Matrix: Air

Date Received: 11/30/22 10:35 Sample Container: Folder/Filter

General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates (EPA 40CFR50 App B)	98.7291		0.2900	0.2900	ug/m3 (Air)			12/02/22 16:00	1

Eurofins Sacramento

QC Sample Results

Client: GES-AIS LLC Job ID: 320-94754-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-637681/1-B

Analysis Batch: 637942

Matrix: Air

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 637683

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:02	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:02	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		12/06/22 05:49	12/06/22 15:02	1

Lab Sample ID: LCS 320-637681/2-B

Matrix: Air

Analysis Batch: 637942

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 637683

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Lead	 0.240	0.243		ug/m3 (Air)	_	101	86 - 111	
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	
Manganese	0.240	0.246		ug/m3 (Air)		102	88 - 110	

Lab Sample ID: LCSD 320-637681/3-B

Matrix: Air

Analysis Batch: 637942

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 637683

LCSD LCSD Spike %Rec RPD Added Result Qualifier Unit D %Rec Limits RPD Limit **Analyte** Lead 0.240 0.235 ug/m3 (Air) 98 86 - 111 3 15 Copper 0.240 0.236 ug/m3 (Air) 98 85 - 110 3 15 Manganese 0.240 0.237 ug/m3 (Air) 99 88 - 110 4 15

QC Association Summary

Client: GES-AIS LLC Job ID: 320-94754-1

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

Metals

Pre Prep Batch: 637681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94754-1	GESPM101722-442	Total/NA	Air	Filter to Air	
320-94754-3	GESPM101722-443	Total/NA	Air	Filter to Air	
320-94754-5	GESPM101722-444	Total/NA	Air	Filter to Air	
320-94754-7	GESPM101722-445	Total/NA	Air	Filter to Air	
MB 320-637681/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-637681/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-637681/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 637683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94754-1	GESPM101722-442	Total/NA	Air	3050B	637681
320-94754-3	GESPM101722-443	Total/NA	Air	3050B	637681
320-94754-5	GESPM101722-444	Total/NA	Air	3050B	637681
320-94754-7	GESPM101722-445	Total/NA	Air	3050B	637681
MB 320-637681/1-B	Method Blank	Total/NA	Air	3050B	637681
LCS 320-637681/2-B	Lab Control Sample	Total/NA	Air	3050B	637681
LCSD 320-637681/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	637681

Analysis Batch: 637942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94754-1	GESPM101722-442	Total/NA	Air	6020	637683
320-94754-3	GESPM101722-443	Total/NA	Air	6020	637683
320-94754-5	GESPM101722-444	Total/NA	Air	6020	637683
320-94754-7	GESPM101722-445	Total/NA	Air	6020	637683
MB 320-637681/1-B	Method Blank	Total/NA	Air	6020	637683
LCS 320-637681/2-B	Lab Control Sample	Total/NA	Air	6020	637683
LCSD 320-637681/3-B	Lab Control Sample Dup	Total/NA	Air	6020	637683

General Chemistry

Pre Prep Batch: 637742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94754-2	GESTSP101722-442	Total/NA	Air	Filter to Air	
320-94754-4	GESTSP101722-443	Total/NA	Air	Filter to Air	
320-94754-6	GESTSP101722-444	Total/NA	Air	Filter to Air	
320-94754-8	GESTSP101722-445	Total/NA	Air	Filter to Air	

Analysis Batch: 637793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94754-1	GESPM101722-442	Total/NA	Air	PM10	
320-94754-3	GESPM101722-443	Total/NA	Air	PM10	
320-94754-5	GESPM101722-444	Total/NA	Air	PM10	
320-94754-7	GESPM101722-445	Total/NA	Air	PM10	

Analysis Batch: 638002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94754-2	GESTSP101722-442	Total/NA	Air	40CFR50 App B	637742
320-94754-4	GESTSP101722-443	Total/NA	Air	40CFR50 App B	637742
320-94754-6	GESTSP101722-444	Total/NA	Air	40CFR50 App B	637742
320-94754-8	GESTSP101722-445	Total/NA	Air	40CFR50 App B	637742

Eurofins Sacramento

12/7/2022

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Job ID: 320-94754-1

Client: GES-AIS LLC

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

Client Sample ID: GESPM101722-442

Lab Sample ID: 320-94754-1 Date Collected: 11/23/22 07:01 Date Received: 11/30/22 10:35

Matrix: Air

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 637681 12/06/22 05:06 EET SAC Total/NA 3050B 637683 100 mL 12/06/22 05:49 **EET SAC** Prep 0.083333 Sample Total/NA Analysis 6020 637942 **EET SAC** 12/06/22 15:12 Total/NA Analysis PM10 637793 12/02/22 16:00 0 g 0.0543 g **EET SAC**

Client Sample ID: GESTSP101722-442

Date Collected: 11/23/22 07:01 Date Received: 11/30/22 10:35

Lab Sample ID: 320-94754-2

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			638002	12/02/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					637742	12/06/22 11:49		EET SAC

Client Sample ID: GESPM101722-443

Date Collected: 11/23/22 07:10

Date Received: 11/30/22 10:35

Lab Sample ID: 320-94754-3

Lab Sample ID: 320-94754-4

Lab Sample ID: 320-94754-5

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					637681	12/06/22 05:06		EET SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	637683	12/06/22 05:49		EET SAC
Total/NA	Analysis	6020		1			637942	12/06/22 15:22		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0550 g	637793	12/02/22 16:00		EET SAC

Client Sample ID: GESTSP101722-443

Date Collected: 11/23/22 07:10

Date Received: 11/30/22 10:35

	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			638002	12/02/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					637742	12/06/22 11:49		EET SAC

Client Sample ID: GESPM101722-444

Date Collected: 11/29/22 07:31

Date Received: 11/30/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					637681	12/06/22 05:06		EET SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	637683	12/06/22 05:49		EET SAC
Total/NA	Analysis	6020		1			637942	12/06/22 15:25		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0583 g	637793	12/02/22 16:00		EET SAC

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Lab Chronicle

Client: GES-AIS LLC Job ID: 320-94754-1

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

Client Sample ID: GESTSP101722-444

Lab Sample ID: 320-94754-6 Date Collected: 11/29/22 07:31 Matrix: Air

Date Received: 11/30/22 10:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			638002	12/02/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					637742	12/06/22 11:49		EET SAC

Client Sample ID: GESPM101722-445

Date Collected: 11/29/22 07:13

Date Received: 11/30/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					637681	12/06/22 05:06		EET SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	637683	12/06/22 05:49		EET SAC
Total/NA	Analysis	6020		1			637942	12/06/22 15:34		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.1086 g	637793	12/02/22 16:00		EET SAC

Client Sample ID: GESTSP101722-445

Date Collected: 11/29/22 07:13

Date Received: 11/30/22 10:35

_	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			638002	12/02/22 16:00		EET SAC
Total/NA	Pre Prep	Filter to Air					637742	12/06/22 11:49		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: 320-94754-7

Lab Sample ID: 320-94754-8

Accreditation/Certification Summary

Client: GES-AIS LLC Job ID: 320-94754-1

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		
	•	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 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: 320-94754-1

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Sample Summary

Client: GES-AIS LLC Job ID: 320-94754-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-94754-1	GESPM101722-442	Air	11/23/22 07:01	11/30/22 10:35
320-94754-2	GESTSP101722-442	Air	11/23/22 07:01	11/30/22 10:35
320-94754-3	GESPM101722-443	Air	11/23/22 07:10	11/30/22 10:35
320-94754-4	GESTSP101722-443	Air	11/23/22 07:10	11/30/22 10:35
320-94754-5	GESPM101722-444	Air	11/29/22 07:31	11/30/22 10:35
320-94754-6	GESTSP101722-444	Air	11/29/22 07:31	11/30/22 10:35
320-94754-7	GESPM101722-445	Air	11/29/22 07:13	11/30/22 10:35
320-94754-8	GESTSP101722-445	Air	11/29/22 07:13	11/30/22 10:35

2300 Clayton Road, Suite 1050, Concord, CA 94520

Gilbane Federal

COC# KT112922AIRE



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2					Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN							Event: Parcel E Phase 2 Air								
Project Number: J310000400					POC.								(== 114	Monitoring						
WB:	S Code: J310000400-016					Ship to: 880 Riverside Parkway, West Sacramento, CA 95605														
Con	nments:													Code Ma						
														A Air						
														Code Contain	ner/Preservat	live				
														1 1x Env	relope, None					
					-															
					‡			2												
Equ	ipment:				Analytical Test Method	5	ا ا	Pb Mn												
	•				Tes	Air PM10	TSP	Air P												
					ca S	1 . 1	- Air													
					a XE	CAAIR	N0500	SW6020								320-94	754 Cha	in of Cu	stody	
					₹	δ	2	S S											1	
	Event: Parcel E Phase 2 Air N	/lonitori	ng			1	1	1												
					Samp						T					Sample	Depth	(ft bgs)		
	Sample ID	Matrix		Time	Init.			4						Locati	ion ID	Туре	Top -	Bottom	Cooler	Comments
1	GESPM101722-442	A	11/23/2022	0701	_	×	_	X	\perp	\sqcup		\perp		AMS	SE1	N1	0.00	0.00	1	VOLUME: 1703.32 (M3)
2	GESTSP101722-442	A	11/23/2022	0701	_	Ц	X	_	\bot	Ш	\perp	\perp	Ц	AMS	SE1	N1	0.00	0.00	1	VOLUME: 1625.83 (M3)
3	GESPM101722-443	Α	11/23/2022	0710		X	_	× l	\bot	Ш		\perp	Ц	AMS	SE2	N1	0.00	0.00	1	VOLUME: 1768.57 (M3)
4	GESTSP101722-443	A	11/23/2022	0710	_		×	_	\perp	\sqcup				AMS	SE2	N1	0.00	0.00	1	VOLUME: 1770.69 (M3)
5	GESPM101722-444	Α	11/29/2022	0731	_	X	_	X	\perp	\sqcup	\perp			AMS	SE1	N1	0.00	0.00	1	VOLUME: 1717.75 (M3)
6	GESTSP101722-444	Α	11/29/2022	0731	_	Ц	Х	\perp			\perp			AMS	SE1	N1	0.00	0.00	1	VOLUME: 1643.51 (M3)
7	GESPM101722-445	Α	11/29/2022	0713		X		X			\perp	\perp	Ш	AMS	SE2	N1	0.00	0.00	1	VOLUME: 1716.78 (M3)
8	GESTSP101722-445	A	11/29/2022	0713		Ц	×			Ш	\perp			AMS	SE2	N1	0.00	0.00	1	VOLUME: 1723.91 (M3)
9													-	n 29 22						
10																1				
Turr	naround Time: 5 days																			
Reli	nquished by: (Signature)		Date	Time	Receive	l by:	(8)	unati	real					Dete						
	, (orginataro)		/ /	Time				_	ii e)					Date	Time	Shipping D				
			11/21/2022	levo	FL	11	DX.						11/	29/2022	1600	Snipping Da	ite: 11/2	9/2022	FEDEX	/ 7706 1908 8580
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CEC.	Navy COC Field																			

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November 29, 2022

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Page 1 of 1

























Login Sample Receipt Checklist

Client: GES-AIS LLC Job Number: 320-94754-1

Login Number: 94754

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	

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List Source: Eurofins Sacramento

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PREPARED FOR

Attn:

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

Generated 12/13/2022 10:54:50 AM

JOB DESCRIPTION

Hunters Point, Parcel E, Phase 2

JOB NUMBER

320-94840-1

Eurofins Sacramento 880 Riverside Parkway West Sacramento CA 95605

Eurofins Sacramento

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization



Client: GES-AIS LLC

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

Laboratory Job ID: 320-94840-1

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Definitions/Glossary

Client: GES-AIS LLC Job ID: 320-94840-1

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

Glossary

EDL

LOD

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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)

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

Estimated Detection Limit (Dioxin)

Limit of Detection (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: 320-94840-1

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

Job ID: 320-94840-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-94840-1

Comments

No additional comments.

Receipt

The samples were received on 12/2/2022 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 18.2° 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: 320-94840-1

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

Lab Sample ID: 320-94840-1

Lab Sample ID: 320-94840-2

Lab Sample ID: 320-94840-3

Lab Sample ID: 320-94840-4

Lab Sample ID: 320-94840-5

Lab Sample ID: 320-94840-6

Lab Sample ID: 320-94840-7

Lab Sample ID: 320-94840-8

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D I	Method	Prep Type
Lead	0.0034	0.00070	0.00011	ug/m3 (Air)	1	_ 6	5020	Total/NA
Copper	0.068	0.0014	0.00011	ug/m3 (Air)	1	6	6020	Total/NA
Manganese	0.0072	0.00070	0.000098	ug/m3 (Air)	1	6	6020	Total/NA
Particulate Matter as PM 10	19	0.29	0.29	ug/m3	1	F	PM10	Total/NA

Client Sample ID: GESTSP101722-446

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D	Method	Prep Type
Total Suspended Particulates	29.7472	0.3054	0.3054 ug/m3 (Air)	1 -	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-447

	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016		0.00070	0.00011	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.027		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0035		0.00070	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	0.013		0.00029	0.00029	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP101722-447

	Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
l	Total Suspended Particulates	21.4585		0.2908	0.2908	ug/m3 (Air)	1	_	40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-448

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	0.052	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0083	0.00068	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: GESTSP101722-448

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	38.7185	0.2988	0.2988 ug/m3 (Air)	1 40CFR50 App B	Total/NA

Client Sample ID: GESPM101722-449

Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0012	0.00069	0.00010	ug/m3 (Air)	1	_	6020	Total/NA
Copper	0.024	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0020	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.3	0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GESTSP101722-449

Analyte	Result Qualifier	RL	RL Unit	Dil Fac D Method	Prep Type
Total Suspended Particulates	12 5585	0.2854	0.2854 ug/m3 (Air)	1 40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

12/13/2022

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94840-1

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

Client Sample ID: GESPM101722-446

Lab Sample ID: 320-94840-1

Date Collected: 11/30/22 07:20 Matrix: Air

Date Received: 12/02/22 09:20 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00070 12/08/22 07:31 12/08/22 14:44 Lead 0.00011 ug/m3 (Air) 0.0034 Copper 0.068 0.0014 0.00011 ug/m3 (Air) 12/08/22 07:31 12/08/22 14:44 Manganese 0.00070 0.000098 ug/m3 (Air) 12/08/22 07:31 12/08/22 14:44 0.0072

General Chemistry Analyte Result Qualifier RL **RL Unit** D Prepared Analyzed Dil Fac Particulate Matter as PM 10 0.29 19 0.29 ug/m3 12/06/22 07:30 (40CFR50J PM10)

Client Sample ID: GESTSP101722-446 Lab Sample ID: 320-94840-2

Date Collected: 11/30/22 07:20 Matrix: Air Date Received: 12/02/22 09:20

Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL **RL** Unit Analyzed Prepared Dil Fac **Total Suspended Particulates** 29.7472 0.3054 0.3054 ug/m3 (Air) 12/06/22 07:30 (EPA 40CFR50 App B)

Client Sample ID: GESPM101722-447 Lab Sample ID: 320-94840-3

Date Collected: 11/30/22 07:09 Matrix: Air

Date Received: 12/02/22 09:20 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.00070 12/08/22 14:53 Lead 0.0016 0.00011 ug/m3 (Air) 12/08/22 07:31 Copper 0.0014 0.00011 ug/m3 (Air) 12/08/22 07:31 12/08/22 14:53 0.027 0.00070 0.000099 ug/m3 (Air) 12/08/22 07:31 12/08/22 14:53 Manganese 0.0035

General Chemistry Analyte Result Qualifier RL RL Unit Prepared Analyzed 0.00029 Particulate Matter as PM 10 0.013 0.00029 ug/m3 12/06/22 07:30 (40CFR50J PM10)

Client Sample ID: GESTSP101722-447 Lab Sample ID: 320-94840-4

Date Collected: 11/30/22 07:09 Matrix: Air

Date Received: 12/02/22 09:20 Sample Container: Folder/Filter

General Chemistry Analyte Result Qualifier RL RL Unit D Prepared Analyzed Dil Fac **Total Suspended Particulates** 0.2908 12/06/22 07:30 21.4585 0.2908 ug/m3 (Air) (EPA 40CFR50 App B)

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12/13/2022

Client Sample Results

Client: GES-AIS LLC Job ID: 320-94840-1

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

Client Sample ID: GESPM101722-448

Date Collected: 12/01/22 07:36

Date Received: 12/02/22 09:20

Sample Container: Folder/Filter

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

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0025	0.00068	0.00010	ug/m3 (Air)	_	12/08/22 07:31	12/08/22 14:56	1
Copper	0.052	0.0014	0.00010	ug/m3 (Air)		12/08/22 07:31	12/08/22 14:56	1
Manganese	0.0083	0.00068	0.000096	ug/m3 (Air)		12/08/22 07:31	12/08/22 14:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.29	0.29	ug/m3			12/06/22 07:30	1
(40CFR50J PM10)									

Client Sample ID: GESTSP101722-448

Date Collected: 12/01/22 07:36 Date Received: 12/02/22 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)	38.7185		0.2988	0.2988	ug/m3 (Air)	_		12/06/22 07:30	1

Client Sample ID: GESPM101722-449

Lab Sample ID: 320-94840-7 Date Collected: 12/01/22 07:30 Matrix: Air

Date Received: 12/02/22 09:20 Sample Container: Folder/Filter

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0012	0.00069	0.00010	ug/m3 (Air)	_	12/08/22 07:31	12/08/22 14:59	1
Copper	0.024	0.0014	0.00010	ug/m3 (Air)		12/08/22 07:31	12/08/22 14:59	1
Manganese	0.0020	0.00069	0.000096	ug/m3 (Air)		12/08/22 07:31	12/08/22 14:59	1

General Chemistry

- Contract Charles							
Analyte	Result Qualifier	RL	RL Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.3	0.29	0.29 ug/m3			12/06/22 07:30	1
(40CFR50J PM10)							

Client Sample ID: GESTSP101722-449

Lab Sample ID: 320-94840-8 Date Collected: 12/01/22 07:30 Matrix: Air

Date Received: 12/02/22 09:20 Sample Container: Folder/Filter

Gen	O POL	Cha	mia	ton.
Gen	erai	CHE	#11115	LI V

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	12.5585	·	0.2854	0.2854	ug/m3 (Air)			12/06/22 07:30	1
(EPA 40CER50 App B)									

Eurofins Sacramento

12/13/2022

Lab Sample ID: 320-94840-5

Lab Sample ID: 320-94840-6

Matrix: Air

Matrix: Air

QC Sample Results

Client: GES-AIS LLC Job ID: 320-94840-1

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

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-638293/1-B

Matrix: Air

Analysis Batch: 638578

Client	Samp	ole	ID	: N	leth	od	В	lar	١k	(
		_		_		_				ı

Prep Type: Total/NA

	Prep Batch:	030295
d	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.6	0.40	ug/m3 (Air)	_	12/08/22 07:31	12/08/22 14:34	1
Copper	ND		5.3	0.40	ug/m3 (Air)		12/08/22 07:31	12/08/22 14:34	1
Manganese	ND		2.6	0.37	ug/m3 (Air)		12/08/22 07:31	12/08/22 14:34	1

MB MB

Lab Sample ID: LCS 320-638293/2-B

Matrix: Air

Client Sample ID:	Lab Control Samp
	Prop Type: Total/N

Prep Type: Total/NA Prep Batch: 638295

Analysis Batch: 638578							Prep Ba	itcn: 630	5295
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Lead	0.240	0.237		ug/m3 (Air)	_	99	86 - 111		
Copper	0.240	0.229		ug/m3 (Air)		96	85 - 110		
Manganese	0.240	0.227		ug/m3 (Air)		95	88 - 110		

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 320-638293/3-B

Matrix: Air

Prep Type: Total/NA

Analysis balch: 636576							Prep Da	aten: 63	00293
_	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	0.240	0.230		ug/m3 (Air)	_	96	86 - 111	3	15
Copper	0.240	0.223		ug/m3 (Air)		93	85 - 110	3	15
Manganese	0.240	0.220		ug/m3 (Air)		92	88 - 110	3	15

12/13/2022

QC Association Summary

Client: GES-AIS LLC Job ID: 320-94840-1

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

Metals

Pre Prep Batch: 638293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94840-1	GESPM101722-446	Total/NA	Air	Filter to Air	
320-94840-3	GESPM101722-447	Total/NA	Air	Filter to Air	
320-94840-5	GESPM101722-448	Total/NA	Air	Filter to Air	
320-94840-7	GESPM101722-449	Total/NA	Air	Filter to Air	
MB 320-638293/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-638293/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-638293/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 638295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94840-1	GESPM101722-446	Total/NA	Air	3050B	638293
320-94840-3	GESPM101722-447	Total/NA	Air	3050B	638293
320-94840-5	GESPM101722-448	Total/NA	Air	3050B	638293
320-94840-7	GESPM101722-449	Total/NA	Air	3050B	638293
MB 320-638293/1-B	Method Blank	Total/NA	Air	3050B	638293
LCS 320-638293/2-B	Lab Control Sample	Total/NA	Air	3050B	638293
LCSD 320-638293/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	638293

Analysis Batch: 638578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94840-1	GESPM101722-446	Total/NA	Air	6020	638295
320-94840-3	GESPM101722-447	Total/NA	Air	6020	638295
320-94840-5	GESPM101722-448	Total/NA	Air	6020	638295
320-94840-7	GESPM101722-449	Total/NA	Air	6020	638295
MB 320-638293/1-B	Method Blank	Total/NA	Air	6020	638295
LCS 320-638293/2-B	Lab Control Sample	Total/NA	Air	6020	638295
LCSD 320-638293/3-B	Lab Control Sample Dup	Total/NA	Air	6020	638295

General Chemistry

Pre Prep Batch: 639210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94840-2	GESTSP101722-446	Total/NA	Air	Filter to Air	
320-94840-4	GESTSP101722-447	Total/NA	Air	Filter to Air	
320-94840-6	GESTSP101722-448	Total/NA	Air	Filter to Air	
320-94840-8	GESTSP101722-449	Total/NA	Air	Filter to Air	

Analysis Batch: 639216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94840-1	GESPM101722-446	Total/NA	Air	PM10	
320-94840-3	GESPM101722-447	Total/NA	Air	PM10	
320-94840-5	GESPM101722-448	Total/NA	Air	PM10	
320-94840-7	GESPM101722-449	Total/NA	Air	PM10	

Analysis Batch: 639231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-94840-2	GESTSP101722-446	Total/NA	Air	40CFR50 App B	639210
320-94840-4	GESTSP101722-447	Total/NA	Air	40CFR50 App B	639210
320-94840-6	GESTSP101722-448	Total/NA	Air	40CFR50 App B	639210
320-94840-8	GESTSP101722-449	Total/NA	Air	40CFR50 App B	639210

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Job ID: 320-94840-1

Matrix: Air

EET SAC

Matrix: Air

Matrix: Air

Matrix: Air

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

Client Sample ID: GESPM101722-446

PM10

Date Collected: 11/30/22 07:20 Date Received: 12/02/22 09:20

Client: GES-AIS LLC

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					638293	12/08/22 07:15		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	638295	12/08/22 07:31		EET SAC
Total/NA	Analysis	6020		1	·		638578	12/08/22 14:44		EET SAC

0 g

0.0329 g

639216

Client Sample ID: GESTSP101722-446

Analysis

Date Collected: 11/30/22 07:20 Date Received: 12/02/22 09:20 Lab Sample ID: 320-94840-2 Matrix: Air

Lab Sample ID: 320-94840-3

Lab Sample ID: 320-94840-4

Lab Sample ID: 320-94840-5

12/06/22 07:30

Lab Sample ID: 320-94840-1

	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			639231	12/06/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					639210	12/12/22 13:17		EET SAC

Client Sample ID: GESPM101722-447

Date Collected: 11/30/22 07:09 Date Received: 12/02/22 09:20

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 638293 12/08/22 07:15 EET SAC 3050B Total/NA Prep 638295 12/08/22 07:31 **EET SAC** 0.08333 100 mL Sample Total/NA Analysis 6020 638578 12/08/22 14:53 **EET SAC** Total/NA Analysis PM10 0 g 0.0224 g 639216 12/06/22 07:30 **EET SAC**

Client Sample ID: GESTSP101722-447

Date Collected: 11/30/22 07:09

Date Received: 12/02/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1	Amount	Amount	639231	12/06/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					639210	12/12/22 13:17		EET SAC

Client Sample ID: GESPM101722-448

Date Collected: 12/01/22 07:36

Date Received: 12/02/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					638293	12/08/22 07:15		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	638295	12/08/22 07:31		EET SAC
Total/NA	Analysis	6020		1	•		638578	12/08/22 14:56		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0343 g	639216	12/06/22 07:30		EET SAC

Eurofins Sacramento

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Lab Chronicle

Client: GES-AIS LLC Job ID: 320-94840-1

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

Client Sample ID: GESTSP101722-448

Lab Sample ID: 320-94840-6

Date Collected: 12/01/22 07:36

Matrix: Air

Date Received: 12/02/22 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			639231	12/06/22 07:30		EET SAC	
Total/NA	Pre Prep	Filter to Air					639210	12/12/22 13:17		EET SAC	

Client Sample ID: GESPM101722-449 Lab Sample ID: 320-94840-7

Date Collected: 12/01/22 07:30 Date Received: 12/02/22 09:20

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					638293	12/08/22 07:15		EET SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	638295	12/08/22 07:31		EET SAC
Total/NA	Analysis	6020		1			638578	12/08/22 14:59		EET SAC
Total/NA	Analysis	PM10		1	0 g	0.0109 g	639216	12/06/22 07:30		EET SAC

Client Sample ID: GESTSP101722-449

Lab Sample ID: 320-94840-8 Date Collected: 12/01/22 07:30 Matrix: Air

Date Received: 12/02/22 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			639231	12/06/22 07:30		EET SAC
Total/NA	Pre Prep	Filter to Air					639210	12/12/22 13:17		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: 320-94840-1

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 analytes	are included in this repo	rt, 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 o	•	ort, 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

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Job ID: 320-94840-1

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Sample Summary

Client: GES-AIS LLC Job ID: 320-94840-1

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-94840-1	GESPM101722-446	Air	11/30/22 07:20	12/02/22 09:20
320-94840-2	GESTSP101722-446	Air	11/30/22 07:20	12/02/22 09:20
320-94840-3	GESPM101722-447	Air	11/30/22 07:09	12/02/22 09:20
320-94840-4	GESTSP101722-447	Air	11/30/22 07:09	12/02/22 09:20
320-94840-5	GESPM101722-448	Air	12/01/22 07:36	12/02/22 09:20
320-94840-6	GESTSP101722-448	Air	12/01/22 07:36	12/02/22 09:20
320-94840-7	GESPM101722-449	Air	12/01/22 07:30	12/02/22 09:20
320-94840-8	GESTSP101722-449	Air	12/01/22 07:30	12/02/22 09:20

CHAIN-OF-CUSTODY RECORD

Gilbane Federal

2300 Clayton Road, Suite 1050, Concord, CA 94520 bwomack@ges-ais.com





Pro	ject Name: Hunters Point S	hipyard,	Parcel E RA PI	nase 2		La	bora	atory	: EUR	OFI	NS EN	IVIR	MNC	EN	T TESTIN	NORTHERN	CALIFORN	IA, LLC	(EETN	Event: P	Parcel E Phase 2 Air
Pro	ject Number: J310000400					POC:								Monitor	ring						
WB	S Code: J310000400-016					SI	nip to	o: 88	30 Rive	erside	e Parl	way,	Wes	st S	acramento	, CA 95605				1	
Cor	nments:					hod		i G							A Code C	Matrix Air container/Preserval x Envelope, None	ive				-
Equ	ipment:					Analytical Test Method	N0500 - Air TSP	SW6020 - Air Ph Mn									320	-94840	Chain of	Custody	
	Event: Parcel E Phase 2 Air	Monitorir	ng			1	_	_													
	Sample ID	Matrix	Date	Time	Sam										L	ocation ID	Sample Type		(ft bgs) Bottom	Cooler	Comments
1	GESPM101722-446	Α	11/30/2022	0720		×		X		\top		\vdash	Н			AMSE1	N1	0.00	0.00	1	VOLUME: 1712.6 (M3)
2	GESTSP101722-446	Α	11/30/2022	0720			X	T				П				AMSE1	N1	0.00	0.00	1	VOLUME: 1637.13 (M3)
3	GESPM101722-447	Α	11/30/2022	0709		×		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1705.16 (M3)
4	GESTSP101722-447	Α	11/30/2022	0709			X			\top						AMSE2	N1	0.00	0.00	1	VOLUME: 1719.60 (M3)
5	GESPM101722-448	Α	12/01/2022	0736		×		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1753.19 (M3)
6	GESTSP101722-448	Α	12/01/2022	0736			Х	T				П				AMSE1	N1	0.00	0.00	1	VOLUME: 1673.62 (M3)
7	GESPM101722-449	Α	12/01/2022	0730		×		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1742.48 (M3)
8	GESTSP101722-449	Α	12/01/2022	0730			Х							1		AMSE2	N1	0.00	0.00	1	VOLUME: 1751.80 (M3)
9													12	01	2						
10																					
Tur	naround Time: 5 days											1									
Rel	inquished by: (Signature)		Date	Time	Recei	ved h	v: (S	ian	aturol						Date	Time	Shipping E	ato / Ca	arrior / A	irbill Nu	mhor
	, 10.3.1.1.3.0)	/	12/01/20	1600		ed								16	, ,	22 1600	Shipping D				
														0100	Received t	y Labo	ratory:	(Signature	e, Date, Time) & condition		

GES.Navy_COC_Field December 01, 2022 18.200

Login Sample Receipt Checklist

Client: GES-AIS LLC Job Number: 320-94840-1

Login Number: 94840

List Number: 1

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

List Source: Eurofins Sacramento