



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

AIR MONITORING SUMMARY REPORT FOR PARCEL E REMEDIAL ACTION PHASE 2

HUNTERS POINT NAVAL SHIPYARD

SAN FRANCISCO, CALIFORNIA

May 1st, 2022 through May 26th, 2022

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Prepared for:

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Acronyms and Abbreviations

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

1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by Gilbane Federal (Gilbane) as requested by the United States Department of the Navy (Navy) under Radiological Environmental Multiple Award Contract N62473-17-D-0005, Contract Task Order (CTO) N6247317F4332. Gilbane is performing air monitoring at Hunters Point Naval Shipyard (HPNS) in accordance with the Final Dust Monitoring and Control Plan (DMCP), included as Appendix E to *Final Remedial Action Work Plan, Parcel E Remedial Action Phase 2, Hunters Point Naval Shipyard, San Francisco, California* (RAWP; Gilbane, 2019a). The Dust Monitoring and Control Plan (DMCP) describes the procedures that minimize dust during work activities and requires air monitoring to ensure these procedures are effective. The DMCP helps prevent exposure of residents and construction crews to potential airborne chemicals of concern, and dust from the work area.

This summary report describes the following:

- Where and how air monitoring samples were collected.
- What test methods were used to analyze air monitoring samples.
- How air monitoring data were evaluated.

This AMSR summarizes the air monitoring activities conducted by Gilbane at HPNS Parcel E from May 1st, 2022 through May 26th, 2022 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

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2.0 Monitoring Site Locations

Air monitoring stations were deployed at one upwind and downwind location from the work area whenever active soil handling operations were in progress. Based on past meteorological data, the prevalent wind direction at HPNS was from the west or west-southwest. The locations of Parcel E air monitoring stations are presented on **Figure 2-1**.

Air monitoring was performed to estimate and assess the impact of field activities. The locations of air monitoring stations were determined based on the prevailing wind direction and were modified as needed for accessibility and worker safety considerations. Wind direction was monitored daily using a windsock and confirmed with the prevalent wind direction recorded for the Bayview Manor - KCASANFR1775 published at Weather Underground (www.wunderground.com).

Upwind/downwind station designations were assigned based on the prevalent wind direction. Atmospheric parameters were checked daily at www.wunderground.com (see **Attachment 1**). Monitoring stations remained stationary while sampling was conducted. Each monitoring station included four different monitoring systems:

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

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3.0 Analytical Methods

3.1 Asbestos

Air samples were sampled and analyzed in accordance with National Institute for Occupational Safety and Health (NIOSH) Method 7400, from the NIOSH Manual of Analytical Methods (NIOSH, 1994). Method 7400 requires that samples be collected on three-piece cellulose ester filters fitted with conductive cowlings at a sampling rate of between 0.5 liters per minute (L/min) and 16 L/min. Each sample was collected over a period of less than 24 hours. Asbestos results were reviewed for anomalies and compliance with the action levels listed below.

3.2 PM10, Copper, Lead, and Manganese

Filter-based PM10 data are collected to ensure the protection of public health and safety during construction operations. Filter-based PM10 data are generated by sampling with calibrated air monitoring equipment that are operated continuously over a period of time (usually 8 or 24 hours) in accordance with the U.S. Environmental Protection Agency (EPA) reference sampling method for PM10 as described in Title 40 Code of Federal Regulations (CFR), Part 50, Subpart J. During the sampling, measurements are taken to precisely calculate the volume of air that has passed through the filter media sample. The period sampled is dependent on the duration of the work activity. The sample is then shipped to a certified analytical laboratory where the concentration is gravimetrically determined. The sample results are reviewed for field and laboratory anomalies to provide confidence in the data and compared to air quality criteria to ensure compliance with the action levels listed below. In this way the precise amount of PM10 present in each cubic meter of air is determined.

Once the PM10 concentration was gravimetrically determined, the filter was analyzed for copper, manganese, and lead in accordance with EPA Method 6020 (equivalent to IO-3.5 in the Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air [EPA, 1999])

3.3 TSP

TSP samples were collected with a high-volume (39 to 60 cubic feet per minute [cfm]) air sampler in accordance with EPA's reference sampling method for TSP, described in 40 CFR 50, Subpart B. Each sample was collected on a filter over an approximately 8 to 24-hour period (depending on the duration of the work activity). The filter was then weighed to determine the amount of TSP collected. The resulting concentration was compared to the HPNS Basewide level listed below to minimize permissible dust releases from the site.

3.4 Radionuclides of Concern

Radiological air samples were collected on filter media with a LV-1 low-volume air sampler. The air filter concentration is counted onsite following a decay period and are compared with public air concentration limits published in 10 CFR Part 20. Radiological air sampling methods and procedures are detailed in Gilbane Radiological Procedure PR-RP-150 *Radiological Survey and Sampling* (Gilbane, 2019b).

The radiological air sample concentration is counted on a Low Background Protean WPC-9950 and analyzed for gross alpha and beta activity. The calculated airborne concentration in microcuries is then compared to the effluent concentration limit specified in Table 2 of Appendix B to 10 CFR 20. The effluent concentration of a given radionuclide in air which, if inhaled continuously over the course of a year, results in an exposure equal to the annual regulatory limit specified in 10 CFR 20.1302. The threshold for radiological effluent concentration in air samples is 10 percent of the effluent concentration, which ensures work practices are evaluated and modified as necessary to ensure the limit is not reached.

The equipment specifications and sampling procedures have complied with the specifications provided in the regulations for the sampler, filter media, accuracy, calibration, and quality assurance.

4.0 Air Monitoring Data Interpretation and Action Levels

To facilitate the comparison to project action levels, the delta between the upwind and downwind PM10 and TSP analytical results was calculated for detected values. Calculated negative values indicating that the upwind concentration was greater than the downwind concentration and non-detected values where no delta was calculated, are interpreted as acceptable.

The resulting deltas for PM10 and TSP and analytical data from air monitoring metals and radiological samples were compared with the threshold criteria listed in **Table 4-1** reproduced from Table 1 of the approved DMCP (Appendix E of the RAWP [Gilbane, 2019a]. The PM10 delta was additionally compared to the criterion taken from the *Technical Memorandum: Draft Dust Action Levels for Parcel E, Hunters Point Shipyard, San Francisco, California* (Department of Toxic Substances Control [DTSC] 2017) of 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Table 4-1: Air Monitoring Threshold Criteria

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

Notes:

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

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

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

fiber/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

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5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as **Attachment 1**. Meteorological data for Stations 1 and 2 were sourced from the Weather Underground (wunderground.com) station Bayview Manor - KCASANFR1775.

Air Monitoring Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from May 1st, 2022 through May 26th, 2022, during which Gilbane was grading and managing radiological screening yard pads and transporting excavated material. 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 May 1st, 2022 through May 26th, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from May 1st, 2022 through May 26th, 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 May 1st, 2022 through May 26th, 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 May 1st, 2022 through May 26th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from May 1st, 2022 through May 26th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 6**.

Analytical laboratory reports and laboratory corrective actions are included as **Attachment 7** and were subjected to cursory review by the Project Chemist. It was noted during review that a second weight was not recorded by the laboratory to confirm the final tare weight of the filters. Although the final weight recording may have been miniscule, the data were qualified as estimated, due to the lack of confirmation. No other data quality issues were noted. The data, as qualified, should be considered usable for their intended purposes.

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6.0 References

Department of Toxic Substances Control (DTSC), 2017. Draft Technical Memorandum: Dust Action Levels for Parcel E, Hunters Point. May.

National Institute for Occupational Safety and Health, (NIOSH), 1994. Manual of Analytical Methods.

United States Environmental Protection Agency (EPA), 1999. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.

Gilbane Federal, 2019a. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October

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

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FIGURES

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Parcel E
Hunters Point Naval Shipyard
San Francisco, California

Figure 2-1
Air Monitoring Stations

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

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

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
5/2/2022	30.01	54.06	West
5/3/2022	29.97	56.64	West
5/4/2022	29.96	53.61	WSW
5/5/2022	30.05	55.22	WSW
5/9/2022	30.08	50.92	WSW
5/10/2022	30.19	50.74	West
5/11/2022	30.26	52.77	West
5/12/2022	30.33	54.94	West
5/16/2022	30.03	53.85	West
5/17/2022	30.04	54.79	WSW
5/18/2022	30.01	60.89	WSW
5/19/2022	29.97	60.02	WSW
5/23/2022	29.90	56.21	WSW
5/24/2022	29.80	66.74	WSW
5/25/2022	29.82	58.65	West
5/26/2022	29.89	59.63	WSW
5/31/2022	29.92	57.29	WSW

Notes:

Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

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ATTACHMENT 2

ASBESTOS MONITORING RESULTS

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Attachment 2: Asbestos Monitoring Results

Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date ¹	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm ³)	Exceedance (Yes/No)
MSE01-050222	05/02/22	1	525	1050	2.0	<0.003	No
MSE02-050222	05/02/22	2	529	1058	65.0	0.030	No
MSE01-050322	05/03/22	1	522	1044	5.0	<0.003	No
MSE02-050322	05/03/22	2	525	1050	4.0	<0.003	No
MSE01-050422	05/04/22	1	537	1074	3.0	<0.003	No
MSE02-050422	05/04/22	2	541	1082	19.5	0.009	No
MSE01-050522	05/05/22	1	448	896	1.5	<0.003	No
MSE02-050522	05/05/22	2	454	908	1.0	<0.003	No
MSE01-050922	05/09/22	1	524	1048	1.0	<0.003	No
MSE02-050922	05/09/22	2	533	1066	10.0	0.005	No
MSE01-051022	05/10/22	1	542	1084	4.5	<0.002	No
MSE02-051022	05/10/22	2	547	1094	15.0	0.007	No
MSE01-051122	05/11/22	1	566	1132	3.5	<0.002	No
MSE02-051122	05/11/22	2	566	1132	0.0	<0.002	No
MSE01-051222	05/12/22	1	453	906	1.0	<0.003	No
MSE02-051222	05/12/22	2	450	900	16.5	0.009	No
MSE01-051622	05/16/22	1	502	1004	3.0	<0.003	No
MSE02-051622	05/16/22	2	507	1014	24.0	0.012	No
MSE01-051722	05/17/22	1	514	1028	4.5	<0.003	No
MSE02-051722	05/17/22	2	514	1028	6.0	0.003	No
MSE01-051822	05/18/22	1	521	1042	1.0	<0.003	No
MSE02-051822	05/18/22	2	526	1052	1.5	<0.003	No
MSE01-051922	05/19/22	1	470	940	3.0	<0.003	No
MSE02-051922	05/19/22	2	465	930	23.0	0.012	No
MSE01-052322	05/23/22	1	500	1000	9.5	0.005	No
MSE02-052322	05/23/22	2	510	1020	0.0	<0.003	No
MSE01-052422	05/24/22	1	512	1024	6.0	0.003	No
MSE02-052422	05/24/22	2	521	1042	0.0	<0.003	No
MSE01-052522	05/25/22	1	509	1018	9.0	0.004	No
MSE02-052522	05/25/22	2	517	1034	6.0	0.003	No
MSE01-052622	05/26/22	1	402	804	0.0	<0.003	No
MSE02-052622	05/26/22	2	403	806	3.5	<0.003	No
MSE01-053122	05/31/22	1	493	986	4.5	<0.003	No
MSE02-053122	05/31/22	2	516	1032	2.0	<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

L = liter

min = minutes

fibers/cm³ = fibers per cubic centimeter

< = below detection limit

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

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

Sample, Date and Station Information			Sampler Run Information	PM10						
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concentration in Air (mg/m ³)	Delta between Downwind and Upwind (mg/m ³)	Delta between Downwind and Upwind (ug/m ³)	Cal/OSHA PEL (ug/m ³)	Exceedance (Yes/No)	HERO Action Level ² (ug/m ³)	Exceedance (Yes/No)
GILBANEPM031522-1884	1	5/3/2022	1721.40	0.032 J						
GILBANEPM031522-1885	2	5/3/2022	1726.95	0.037 J	0.0050	5.0	5,000	No	50	No
GILBANEPM031522-1886	1	5/4/2022	1712.46	0.032 J						
GILBANEPM031522-1887	2	5/4/2022	1703.60	0.03 J	-0.0020	-2.0	5,000	No	50	No
GILBANEPM031522-1888	1	5/5/2022	1744.74	0.033 J						
GILBANEPM031522-1889	2	5/5/2022	1738.60	0.029 J	-0.0040	-4.0	5,000	No	50	No
GILBANEPM031522-1890	1	5/5/2022 ²	531.97	0.019 J						
GILBANEPM031522-1891	2	5/5/2022 ²	527.57	0.034 J	0.0150	15.0	5,000	No	50	No
GILBANEPM041222-1892	1	5/10/2022	1703.34	0.013						
GILBANEPM041222-1893	2	5/10/2022	1693.05	0.023	0.0100	10.0	5,000	No	50	No
GILBANEPM041222-1894	1	5/11/2022	1730.86	0.016						
GILBANEPM041222-1895	2	5/11/2022	1725.97	0.016	0.0000	0.0	5,000	No	50	No
GILBANEPM041222-1896	1	5/12/2022	1767.37	0.022						
GILBANEPM041222-1897	2	5/12/2022	1757.78	0.019	-0.0030	-3.0	5,000	No	50	No
GILBANEPM041222-1898	1	5/12/2022 ²	533.96	0.0099						
GILBANEPM041222-1899	2	5/12/2022 ²	533.34	0.019	0.0091	9.1	5,000	No	50	No
GILBANEPM041222-1900	1	5/17/2022	1733.43	0.025						
GILBANEPM041222-1901	2	5/17/2022	1723.16	0.030	0.0050	5.0	5,000	No	50	No
GILBANEPM041222-1902	1	5/18/2022	1735.36	0.036						
GILBANEPM041222-1903	2	5/18/2022	1718.87	0.035	-0.0010	-1.0	5,000	No	50	No
GILBANEPM041222-1904	1	5/19/2022	1741.13	0.039						
GILBANEPM041222-1905	2	5/19/2022	1728.36	0.032	-0.0070	-7.0	5,000	No	50	No
GILBANEPM041222-1906	1	5/19/2022 ²	554.34	0.056						
GILBANEPM041222-1907	2	5/19/2022 ²	554.66	0.055	-0.0010	-1.0	5,000	No	50	No
GILBANEPM042622-1908	1	5/24/2022	1719.02	0.042						
GILBANEPM042622-1909	2	5/24/2022	1714.42	0.038	-0.0040	-4.0	5,000	No	50	No
GILBANEPM042622-1910	1	5/25/2022	1751.97	0.037						
GILBANEPM042622-1911	2	5/25/2022	1739.20	0.031	-0.0060	-6.0	5,000	No	50	No
GILBANEPM042622-1912	1	5/26/2022	1726.43	0.086						
GILBANEPM042622-1913	2	5/26/2022	1721.34	0.024	-0.0620	-62.0	5,000	No	50	No
GILBANEPM042622-1914	1	5/26/2022 ²	477.34	0.024						
GILBANEPM042622-1915	2	5/26/2022 ²	475.02	0.017	-0.0070	-7.0	5,000	No	50	No

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.

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.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

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

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

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ATTACHMENT 4

COPPER, LEAD, AND MANGANESE MONITORING RESULTS

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Attachment 4: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Copper		Lead		Manganese	
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)
GILBANETSP031522-1884	1	5/3/2022	1721.40	0.00004 J	No	0.0000027 J	No	0.000006 J	No
GILBANETSP031522-1885	2	5/3/2022	1726.95	0.000014 J	No	0.000005 J	No	0.000013 J	No
GILBANETSP031522-1886	1	5/4/2022	1712.46	0.000048 J	No	0.0000027 J	No	0.0000079 J	No
GILBANETSP031522-1887	2	5/4/2022	1703.60	0.0000087 J	No	0.000003 J	No	0.0000077 J	No
GILBANETSP031522-1888	1	5/5/2022 ²	1744.74	0.000035 J	No	0.0000051 J	No	0.000011 J	No
GILBANETSP031522-1889	2	5/5/2022 ²	1738.60	0.000023 J	No	0.0000067 J	No	0.00001 J	No
GILBANETSP031522-1890	1	5/5/2022	531.97	0.000037 J	No	0.000002 J	No	0.0000079 J	No
GILBANETSP031522-1891	2	5/5/2022	527.57	0.000037 J	No	0.0000054 J	No	0.000012 J	No
GILBANETSP041222-1892	1	5/10/2022	1703.34	0.000055	No	0.00000910	No	0.0000045	No
GILBANETSP041222-1893	2	5/10/2022	1693.05	0.00023	No	0.00000410	No	0.0000095	No
GILBANETSP041222-1894	1	5/11/2022	1730.86	0.000033	No	0.00000350	No	0.00000750	No
GILBANETSP041222-1895	2	5/11/2022	1725.97	0.000012	No	0.00000440	No	0.00000920	No
GILBANETSP041222-1896	1	5/12/2022	1767.37	0.000061	No	0.00001200	No	0.00001000	No
GILBANETSP041222-1897	2	5/12/2022	1757.78	0.000017	No	0.00000350	No	0.00001200	No
GILBANETSP041222-1898	1	5/12/2022 ²	533.96	0.000037	No	0.00000280	No	0.00000690	No
GILBANETSP041222-1899	2	5/12/2022 ²	533.34	0.000035	No	0.00000710	No	0.00001600	No
GILBANETSP041222-1900	1	5/17/2022	1733.43	0.000015	No	0.00000200	No	0.00000760	No
GILBANETSP041222-1901	2	5/17/2022	1723.16	0.000013	No	0.00000580	No	0.00001200	No
GILBANETSP041222-1902	1	5/18/2022	1735.36	0.000037	No	0.00000180	No	0.00000500	No
GILBANETSP041222-1903	2	5/18/2022	1718.87	0.000016	No	0.00000360	No	0.00000690	No
GILBANETSP041222-1904	1	5/19/2022	1741.13	0.000092	No	0.00000290	No	0.00000810	No
GILBANETSP041222-1905	2	5/19/2022	1728.36	0.000016	No	0.00000220	No	0.00000520	No
GILBANETSP041222-1906	1	5/19/2022 ²	554.34	0.000038	No	0.00000690	No	0.00002200	No
GILBANETSP041222-1907	2	5/19/2022 ²	554.66	0.000029	No	0.00001300	No	0.00002300	No
GILBANETSP042622-1908	1	5/24/2022	1719.02	0.000026	No	0.00000480	No	0.00000730	No
GILBANETSP042622-1909	2	5/24/2022	1714.42	0.000015	No	0.00000300	No	0.00000750	No
GILBANETSP042622-1910	1	5/25/2022	1751.97	0.000190	No	0.00000390	No	0.00000930	No
GILBANETSP042622-1911	2	5/25/2022	1739.20	0.000031	No	0.00000320	No	0.00000730	No
GILBANETSP042622-1912	1	5/26/2022	1726.43	0.000120	No	0.00001000	No	0.00003400	No
GILBANETSP042622-1913	2	5/26/2022	1721.34	0.000028	No	0.00000630	No	0.00001400	No
GILBANETSP042622-1914	1	5/26/2022 ²	477.34	0.000110	No	0.00000310	No	0.00001300	No
GILBANETSP042622-1915	2	5/26/2022 ²	475.02	0.000052	No	0.00000330	No	0.0000089	No

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.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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

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ATTACHMENT 5
TOTAL SUSPENDED PARTICULATES
MONITORING RESULTS

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Attachment 5: Total Suspended Particulates Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Total Suspended Particulates			
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concentration in Air (mg/m ³)	Delta between Downwind and Upwind (mg/m ³)	Basewide HPNS Level (mg/m ³)	Exceedance (Yes/No)
GILBANETSP031522-1884	1	5/3/2022	1668.60	0.0428503 J			
GILBANETSP031522-1885	2	5/3/2022	1733.07	0.0775502 J	0.035	0.5	No
GILBANETSP031522-1886	1	5/4/2022	1658.62	0.0448566 J			
GILBANETSP031522-1887	2	5/4/2022	1707.87	0.0531071 J	0.008	0.5	No
GILBANETSP031522-1888	1	5/5/2022 ²	1670.62	0.0498617 J			
GILBANETSP031522-1889	2	5/5/2022 ²	1741.75	0.0626382 J	0.013	0.5	No
GILBANETSP031522-1890	1	5/5/2022	516.31	0.0269218 J			
GILBANETSP031522-1891	2	5/5/2022	530.25	0.038661 J	0.012	0.5	No
GILBANETSP041222-1892	1	5/10/2022	1629.20	0.0187822			
GILBANETSP041222-1893	2	5/10/2022	1697.99	0.0335102	0.015	0.5	No
GILBANETSP041222-1894	1	5/11/2022	1646.46	0.0245375			
GILBANETSP041222-1895	2	5/11/2022	1722.63	0.0323923	0.008	0.5	No
GILBANETSP041222-1896	1	5/12/2022	1684.77	0.0359693			
GILBANETSP041222-1897	2	5/12/2022	1758.76	0.0406536	0.005	0.5	No
GILBANETSP041222-1898	1	5/12/2022 ²	508.92	0.0062878			
GILBANETSP041222-1899	2	5/12/2022 ²	532.62	0.0469378	0.041	0.5	No
GILBANETSP041222-1900	1	5/17/2022	1653.65	0.0399117			
GILBANETSP041222-1901	2	5/17/2022	1723.64	0.0758279	0.036	0.5	No
GILBANETSP041222-1902	1	5/18/2022	1658.42	0.0515551			
GILBANETSP041222-1903	2	5/18/2022	1734.00	0.0585352	0.007	0.5	No
GILBANETSP041222-1904	1	5/19/2022	1666.40	0.0490278			
GILBANETSP041222-1905	2	5/19/2022	1732.70	0.0486524	-0.0004	0.5	No
GILBANETSP041222-1906	1	5/19/2022 ²	482.22	0.0966364			
GILBANETSP041222-1907	2	5/19/2022 ²	557.50	0.0965022	-0.0001	0.5	No
GILBANETSP042622-1908	1	5/24/2022	1639.04	0.059059			
GILBANETSP042622-1909	2	5/24/2022	1715.64	0.0616679	0.003	0.5	No
GILBANETSP042622-1910	1	5/25/2022	1670.87	0.0489565			
GILBANETSP042622-1911	2	5/25/2022	1745.79	0.0403829	-0.009	0.5	No
GILBANETSP042622-1912	1	5/26/2022	1647.72	0.1167067			
GILBANETSP042622-1913	2	5/26/2022	1723.08	0.0466606	-0.070	0.5	No
GILBANETSP042622-1914	1	5/26/2022 ²	458.13	0.0355794			
GILBANETSP042622-1915	2	5/26/2022 ²	480.50	0.0345473	-0.001	0.5	No

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.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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ATTACHMENT 6
AIR SAMPLING RESULTS –
PUBLIC EXPOSURE MONITORING

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Project Information									Effluent Air Concentration				Sampling Period				Color Codes					
Contract / Task Order Number: N62473-17-D-0005 / F4332			Project Title / Location: Parcel E RA HPNS, SF, CA			Gilbane Project Number: J310000400			Radionuclide		Alpha	Beta	Air samples collected between 02 May 2022 and 31 May 2022				Value < 0.1 x Effluent Conc (i.e., < 10%)					
Information effective as of: 29 Jun 2022									Effluent Conc (µCi/ml)		9.E-13	6.E-12	Value > 0.1 x Effluent Conc (i.e., > 10%)				Value > Effluent Conc (i.e., > 100%)					
Sample Collection									Count Information						Sample Results				Initials			
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0537	Perimeter	MSE01	PE11	60	5/2/22 6:45	5/2/22 15:50	545	3.3E+07	D	05/09/22	1	cpm	0.00	5.65	0.0	12.5	0.0E+00	1.7E-13	0.0%	2.9%	BCS	CB
AS-0538	Perimeter	MSE02	PE12	60	5/2/22 6:35	5/2/22 15:42	547	3.3E+07	D	05/09/22	1	cpm	0.40	3.15	1.1	5.5	1.5E-14	7.5E-14	1.7%	1.3%	BCS	CB
AS-0539	Perimeter	MSE01	PE11	60	5/3/22 4:10	5/3/22 15:34	684	4.1E+07	D	05/09/22	1	cpm	0.10	4.95	0.3	10.6	3.1E-15	1.2E-13	0.3%	1.9%	BCS	CB
AS-0540	Perimeter	MSE02	PE12	60	5/3/22 4:00	5/3/22 15:30	690	4.1E+07	D	05/09/22	1	cpm	0.20	3.65	0.6	6.9	6.1E-15	7.5E-14	0.7%	1.3%	BCS	CB
AS-0541	Perimeter	MSE01	PE11	60	5/4/22 4:10	5/4/22 15:24	674	4.0E+07	D	05/09/22	1	cpm	0.05	4.30	0.1	8.7	1.6E-15	9.7E-14	0.2%	1.6%	BCS	CB
AS-0542	Perimeter	MSE02	PE12	60	5/4/22 4:00	5/4/22 15:18	678	4.1E+07	D	05/09/22	1	cpm	0.05	3.50	0.1	6.5	1.5E-15	7.2E-14	0.2%	1.2%	BCS	CB
AS-0543	Perimeter	MSE01	PE11	60	5/5/22 3:55	5/5/22 13:55	600	3.6E+07	D	05/09/22	1	cpm	0.20	4.45	0.6	9.2	7.0E-15	1.1E-13	0.8%	1.9%	BCS	CB
AS-0544	Perimeter	MSE02	PE12	60	5/5/22 4:00	5/5/22 14:02	602	3.6E+07	D	05/09/22	1	cpm	0.05	4.30	0.1	8.7	1.7E-15	1.1E-13	0.2%	1.8%	BCS	CB
AS-0545	Perimeter	MSE01	PE11	60	5/9/22 6:40	5/9/22 15:52	552	3.3E+07	D	05/16/22	1	cpm	0.15	4.25	0.4	8.6	5.7E-15	1.2E-13	0.6%	1.9%	BCS	CB
AS-0546	Perimeter	MSE02	PE12	60	5/9/22 6:56	5/9/22 15:30	514	3.1E+07	D	05/16/22	1	cpm	0.20	5.15	0.6	11.1	8.1E-15	1.6E-13	0.9%	2.7%	BCS	CB
AS-0547	Perimeter	MSE01	PE11	60	5/10/22 4:05	5/10/22 15:53	708	4.2E+07	D	05/16/22	1	cpm	0.15	3.10	0.4	5.4	4.4E-15	5.7E-14	0.5%	0.9%	BCS	CB
AS-0548	Perimeter	MSE02	PE12	60	5/10/22 4:15	5/10/22 15:49	694	4.2E+07	D	05/16/22	1	cpm	0.10	4.65	0.3	9.7	3.0E-15	1.1E-13	0.3%	1.8%	BCS	CB
AS-0549	Perimeter	MSE01	PE11	60	5/11/22 3:50	5/11/22 15:56	726	4.4E+07	D	05/16/22	1	cpm	0.05	3.85	0.1	7.5	1.4E-15	7.7E-14	0.2%	1.3%	BCS	CB
AS-0550	Perimeter	MSE02	PE12	60	5/11/22 4:00	5/11/22 15:48	708	4.2E+07	D	05/16/22	1	cpm	0.10	4.30	0.3	8.7	3.0E-15	9.3E-14	0.3%	1.5%	BCS	CB
AS-0551	Perimeter	MSE01	PE11	60	5/12/22 4:00	5/12/22 15:18	678	4.1E+07	D	05/16/22	1	cpm	0.10	4.70	0.3	9.9	3.1E-15	1.1E-13	0.3%	1.8%	BCS	CB
AS-0552	Perimeter	MSE02	PE12	60	5/12/22 4:10	5/12/22 14:16	606	3.6E+07	D	05/16/22	1	cpm	0.15	4.35	0.4	8.9	5.2E-15	1.1E-13	0.6%	1.8%	BCS	CB
AS-0553	Perimeter	MSE01	PE11	60	5/16/22 6:50	5/16/22 15:15	505	3.0E+07	E	05/31/22	1	cpm	0.40	4.10	2.5	8.8	3.7E-14	1.3E-13	4.2%	2.2%	BCS	CB
AS-0554	Perimeter	MSE02	PE12	60	5/16/22 6:40	5/16/22 15:07	507	3.0E+07	E	05/31/22	1	cpm	0.35	3.45	2.2	6.8	3.3E-14	1.0E-13	3.6%	1.7%	BCS	CB
AS-0555	Perimeter	MSe01	PE11	60	5/17/22 3:50	5/17/22 15:22	692	4.2E+07	E	05/31/22	1	cpm	0.10	4.70	0.6	10.6	6.8E-15	1.2E-13	0.8%	1.9%	BCS	CB
AS-0556	Perimeter	MSE02	PE12	60	5/17/22 3:55	5/17/22 15:19	684	4.1E+07	E	05/31/22	1	cpm	0.15	4.05	0.9	8.6	1.0E-14	9.5E-14	1.2%	1.6%	BCS	CB
AS-0557	Perimeter	MSE01	PE11	60	5/18/22 3:55	5/18/22 15:19	684	4.1E+07	E	05/31/22	1	cpm	0.05	4.85	0.3	11.1	3.5E-15	1.2E-13	0.4%	2.0%	BCS	CB
AS-0558	Perimeter	MSE02	PE12	60	5/18/22 4:00	5/18/22 15:12	672	4.0E+07	E	05/31/22	1	cpm	0.30	4.10	1.9	8.8	2.1E-14	9.8E-14	2.3%	1.6%	BCS	CB
AS-0559	Perimeter	MSE01	PE11	60	5/19/22 4:05	5/19/22 14:15	610	3.7E+07	E	05/31/22	1	cpm	0.25	4.30	1.6	9.4	1.9E-14	1.2E-13	2.2%	1.9%	BCS	CB
AS-0560	Perimeter	MSE02	PE12	60	5/19/22 4:00	5/19/22 14:19	619	3.7E+07	E	05/31/22	1	cpm	0.30	3.55	1.9	7.1	2.3E-14	8.6E-14	2.5%	1.4%	BCS	CB
AS-0561	Perimeter	MSE01	PE11	60	5/23/22 6:36	5/23/22 15:19	523	3.1E+07	E	05/31/22	1	cpm	0.40	4.90	2.5	11.2	3.6E-14	1.6E-13	4.0%	2.7%	BCS	CB
AS-0562	Perimeter	MSE02	PE12	60	5/23/22 6:35	5/23/22 15:23	528	3.2E+07	E	05/31/22	1	cpm	0.20	3.85	1.3	8.0	1.8E-14	1.1E-13	2.0%	1.9%	BCS	CB
AS-0563	Perimeter	MSE01	PE11	60	5/24/22 4:05	5/24/22 15:13	668	4.0E+07	E	05/31/22	1	cpm	0.15	3.25	0.9	6.2	1.1E-14	7.0E-14	1.2%	1.2%	BCS	CB
AS-0564	Perimeter	MSE02	PE12	60	5/24/22 3:55	5/24/22 15:09	674	4.0E+07	E	05/31/22	1	cpm	0.30	3.90	1.9	8.2	2.1E-14	9.1E-14	2.3%	1.5%	BCS	CB
AS-0565	Perimeter	MSE01	PE11	60	5/25/22 4:00	5/25/22 15:11	671	4.0E+07	E	05/31/22	1	cpm	0.05	3.85	0.3	8.0	3.5E-15	9.0E-14	0.4%	1.5%	BCS	CB
AS-0566	Perimeter	MSE02	PE12	60	5/25/22 3:50	5/25/22 15:09	679	4.1E+07	E	05/31/22	1	cpm	0.10	5.20	0.6	12.1	7.0E-15	1.3E-13	0.8%	2.2%	BCS	CB
AS-0567	Perimeter	MSE01	PE11	60	5/26/22 3:55	5/26/22 13:10	555	3.3E+07	E	05/31/22	1	cpm	0.15	3.85	0.9	8.0	1.3E-14	1.1E-13	1.4%	1.8%	BCS	CB
AS-0568	Perimeter	MSE02	PE12	60	5/26/22 4:00	5/26/22 13:09	549	3.3E+07	E	05/31/22	1	cpm	0.10	3.80	0.6	7.9	8.6E-15	1.1E-13	1.0%	1.8%	BCS	CB
AS-0569	Perimeter	MSE01	PE11	60	5/31/22 6:45	5/31/22 15:34	529	3.2E+07	E	06/06/22	1	cpm	0.35	4.25	2.2	9.2	3.1E-14	1.3E-13	3.5%	2.2%	BCS	CB
AS-0570	Perimeter	MSE02	PE12	60	5/31/22 6:35	5/31/22 15:30	535	3.2E+07	E	06/06/22	1	cpm	0.20	4.10	1.3	8.8	1.8E-14	1.2E-13	2.0%	2.1%	BCS	CB

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ATTACHMENT 7

LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 22050377



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 05/04/2022 14:51
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-042822	4/28/2022 14:11	Cassette	22050377.01
MSE02-042822	4/28/2022 14:03	Cassette	22050377.02
MSE01-050222	5/2/2022 15:49	Cassette	22050377.03
MSE02-050222	5/2/2022 15:37	Cassette	22050377.04

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

Analyst: [REDACTED]

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

ab-q210-0321

5/11/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 5/11/2022

Job ID : 22050377
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22050377.01	MSE01-042822	04/28/2022	Area	2			446	892	100	7	8.917	0.004		05/06/22	[REDACTED]
22050377.02	MSE02-042822	04/28/2022	Area	2			446	892	100	12.5	15.924	0.007		05/06/22	[REDACTED]
22050377.03	MSE01-050222	05/02/2022	Area	2			525	1050	100	2	2.548	< 0.003		05/06/22	[REDACTED]
22050377.04	MSE02-050222	05/02/2022	Area	2			529	1058	100	65.0	82.803	0.030		05/06/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22050377	Date Received : 05/04/2022	Time Received : 2:51PM		
Client Name : GES - ASRC Industrial				
Temperature : 19.8°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input type="checkbox"/> Cassette <input checked="" type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Received black cassettes. ~EV 5/4/2022

Received by : ██████████

Check in by/date : ██████████ / 05/04/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/03/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
							None	Container Type:		
							Filter			
MSE01-042822	01A 4/28/2022	1411	NA	NA	1	AA	X			446
MSE02-042822	02A 4/28/2022	1403	NA	NA	1	AA	X			446
MSE01-050222	03A 5/02/2022	1549	NA	NA	1	AA	X			525
MSE02-050222	04A 5/02/2022	1537	NA	NA	1	AA	X			529

TP 5/3/22

Job ID: 22050377



05/04/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7767 4706 1540				
Signature: <u>[Redacted]</u>	Relinquished By: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[Redacted]</u> / Gilbane	5/3/22	1600	Fedex	5/3/22	1600
	FEDEX	5-4-22	14:51	<u>[Redacted]</u>	5-4-22	14:51
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

19.8°C
IR3
W

ORIGIN/D: JCCA [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 03MAY22
ACTWGT: 1.00 LB
CAD: 254128867/INET4490

BILL SENDER

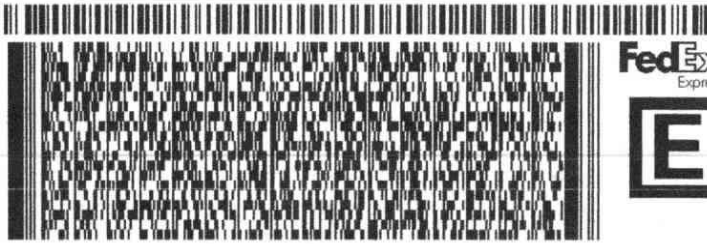
TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000.400.00.18.04

INV: PO DEPT:



577J51BD6JFE4A

WED - 04 MAY 4:30P
STANDARD OVERNIGHT

TRK# 7767 4706 1540
0201

UL HBYA

77029
TX-US IAH



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Laboratory Analysis Report

Job ID : 22050827



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: [REDACTED] Date Received : 05/06/2022 16:27
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-050322	5/3/2022 15:39	Cassette	22050827.01
MSE02-050322	5/3/2022 15:33	Cassette	22050827.02
MSE01-050422	5/4/2022 15:27	Cassette	22050827.03
MSE02-050422	5/4/2022 15:22	Cassette	22050827.04

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

Analyst: [REDACTED]

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ab-q210-0321

5/12/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 5/12/2022

Job ID : 22050827
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22050827.01	MSE01-050322	05/03/2022	Area	2			522	1044	100	5	6.369	< 0.003		05/12/22	[REDACTED]
22050827.02	MSE02-050322	05/03/2022	Area	2			525	1050	100	4.0	5.096	< 0.003		05/12/22	[REDACTED]
22050827.03	MSE01-050422	05/04/2022	Area	2			537	1074	100	3	3.822	< 0.003		05/12/22	[REDACTED]
22050827.04	MSE02-050422	05/04/2022	Area	2			541	1082	100	19.5	24.841	0.009		05/12/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22050827	Date Received : 05/06/2022	Time Received : 4:27PM		
Client Name : GES - ASRC Industrial				
Temperature : 23.1°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 No cooler was received, however samples are received in a box with a custody seal. Received black cassettes. ~EV 5/9/2022

Received by : ██████████

Check in by/date : ██████████ / 05/09/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/05/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Analysis:

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	Container Type:		
							None		Filter		
<i>01A</i> MSE01-050322	5/03/2022	1539	NA	NA	1	AA	X				522
<i>02A</i> MSE02-050322	5/03/2022	1533	NA	NA	1	AA	X				525
<i>03A</i> MSE01-050422	5/04/2022	1527	NA	NA	1	AA	X				537
<i>04A</i> MSE02-050422	5/04/2022	1522	NA	NA	1	AA	X				541

TP 5/5/22

Job ID: 22050827



05/06/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7767 6951 8538				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>—</u>	<u>[Redacted] / Gilbane</u>	<u>5/5/22</u>	<u>16:00</u>	<u>Fedex</u>	<u>5/5/22</u>	<u>16:00</u>
	<u>Fedex</u>	<u>5/6/22</u>	<u>16:47</u>	<u>[Redacted]</u>	<u>5/6/22</u>	<u>16:27</u>
			<u>16:27</u>			<u>16:27</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

23.1" IR3

ORIGIN ID: ICCA [REDACTED]
200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 05MAY22
ACTWGT: 1.00 LB
CAD: 254128867/INET4490
BILL SENDER

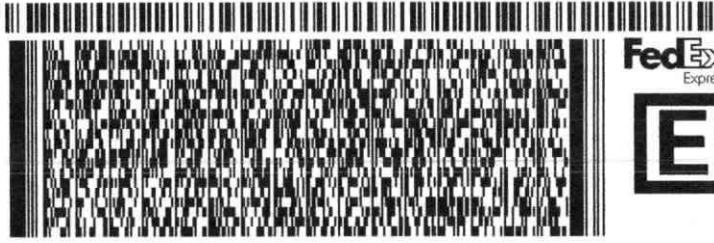
TO [REDACTED]
A & B LABS
10100 EAST FREEWAY, SUITE 100
HOUSTON TX 77029

577.611BD6IFE4A

REF: J31000 400 00 18 04

INV
PO

DEPT:



FRI - 06 MAY 4:30P
STANDARD OVERNIGHT

TRK# 7767 6951 8538
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Date: 5/5/22
Signature: [Handwritten Signature]

Laboratory Analysis Report

Job ID : 22051202



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 05/11/2022 16:06
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-050522	5/5/2022 14:05	Cassette	22051202.01
MSE02-050522	5/5/2022 14:01	Cassette	22051202.02
MSE01-050922	5/9/2022 15:32	Cassette	22051202.03
MSE02-050922	5/9/2022 15:51	Cassette	22051202.04



Title: Vice President Operations

Analyst: [REDACTED]



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ab-q210-0321

5/18/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 5/18/2022

Job ID : 22051202
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22051202.01	MSE01-050522	05/05/2022	Area	2			448	896	100	1.5	1.911	< 0.003		05/18/22	[REDACTED]
22051202.02	MSE02-050522	05/05/2022	Area	2			454	908	100	1	1.274	< 0.003		05/18/22	[REDACTED]
22051202.03	MSE01-050922	05/09/2022	Area	2			524	1048	100	1	1.274	< 0.003		05/18/22	[REDACTED]
22051202.04	MSE02-050922	05/09/2022	Area	2			533	1066	100	10.0	12.739	0.005		05/18/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22051202	Date Received : 05/11/2022	Time Received : 4:06PM		
Client Name : GES - ASRC Industrial				
Temperature : 18.3°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 Black Cassettes. No cooler was received; however, sample are received in a bow with custody seal. ~JE 05/11/22

Received by : ██████████

Check in by/date : ██████████ / 05/11/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/10/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-050522	5/05/2022	1405	NA	NA	1	AA	X	None		448 01A
MSE02-050522	5/05/2022	1401	NA	NA	1	AA	X	None		454 02A
MSE01-050922	5/09/2022	1532	NA	NA	1	AA	X	Filter		524 03A
MSE02-050922	5/09/2022	1551	NA	NA	1	AA	X	Filter		533 04A

Job ID: 22051202



05/11/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7768 1072 6451

Signature: [Redacted] Relinquished By: [Redacted] Date: 5/10/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 5/10/22 Time: 1600

Special Instructions: None [Redacted] Gilbane EDEx [Redacted] 5/11/22 1606

Send Results to: [Redacted]

Turnaround Time: Standard

15.6° C 103

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

SHIP DATE: 10MAY22
ACTWGT: 1.00 LB
CAD: 254128867/NET4490

BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100
HOUSTON TX 77029

REF: J31000400001804

INV
PO

DEPT



577J51BD6/FE4A

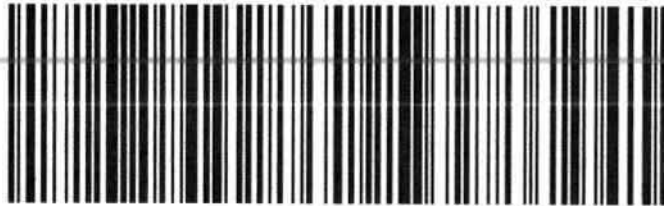
J22822348281ver

WED - 11 MAY 4:30P
STANDARD OVERNIGHT

TRK# 7768 1072 6451
0201

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TX-US 77029
IAH



CUSTODY SEAL



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Laboratory Analysis Report

Job ID : 22051587



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 05/13/2022 15:29
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-051022	5/10/2022 15:36	Cassette	22051587.01
MSE02-051022	5/10/2022 15:27	Cassette	22051587.02
MSE01-051122	5/11/2022 15:54	Cassette	22051587.03
MSE02-051122	5/11/2022 15:45	Cassette	22051587.04

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

Analyst: [REDACTED]

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ab-q210-0321

5/20/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 5/20/2022

Job ID : 22051587
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22051587.01	MSE01-051022	05/10/2022	Area	2			542	1084	100	4.5	5.732	< 0.002		05/20/22	[REDACTED]
22051587.02	MSE02-051022	05/10/2022	Area	2			547	1094	100	15.0	19.108	0.007		05/20/22	[REDACTED]
22051587.03	MSE01-051122	05/11/2022	Area	2			566	1132	100	3.5	4.459	< 0.002		05/20/22	[REDACTED]
22051587.04	MSE02-051122	05/11/2022	Area	2			566	1132	100	0	0.000	< 0.002		05/20/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22051587	Date Received : 05/13/2022	Time Received : 3:29PM		
Client Name : GES - ASRC Industrial				
Temperature : 18.7°C	Sample pH : N/A			
Thermometer ID : IR3	pH Paper ID : N/A			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received however, samples received in box with custody seal. Received black cassettes. -CH 05/16/22

Received by : ██████████

Check in by/date : ██████████ / 05/16/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/12/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-051022	01A 5/10/2022	1536	NA	NA	1	AA	X	None		542
MSE02-051022	02A 5/10/2022	1527	NA	NA	1	AA	X	None		547
MSE01-051122	03A 5/11/2022	1554	NA	NA	1	AA	X	None		566
MSE02-051122	04A 5/11/2022	1545	NA	NA	1	AA	X	None		566

Job ID: 22051587



05/13/2022 GES - ASRC Industrial ACH

TP 5/12/22

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7768 3091 2040			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date: <u>5/12/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>Fedex</u>	Date: <u>5/12/22</u> Time: <u>1600</u>
Special Instructions: <u>—</u>	<u>[Redacted]</u>	<u>Gilbane</u>	<u>5-12-22</u>	<u>1</u>	<u>5-12-22 1600</u>
		<u>FedEx</u>	<u>5-13-22</u>	<u>[Redacted]</u>	<u>5-13-22 1529</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					

18.7
FEB
CSJ

ORIGIN ID: JCCA [REDACTED]
 200 FISHER STREET
 SAN FRANCISCO, CA 94124
 UNITED STATES US

SHIP DATE: 12MAY22
 ACTWGT: 1.00 LB
 CAD: 254128867/INET4490

BILL SENDER

TO [REDACTED]
A & B LABS
 10100 EAST FREEWAY, SUITE 100
 HOUSTON TX 77029

577.5/1BD6FE4A

INV: [REDACTED] REF: J31000 400 00 18 04
 PO: [REDACTED] DEPT: [REDACTED]



TRK# 7768 3091 2040
 0201

FRI - 13 MAY 4:30P
 STANDARD OVERNIGHT

UL HBYA TX-US **77029 IAH**

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STAY
EUSTAY



Laboratory Analysis Report

Job ID : 22052024



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: [REDACTED] Date Received : 05/18/2022 15:44
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-051222	5/12/2022 14:24	Cassette	22052024.01
MSE02-051222	5/12/2022 14:12	Cassette	22052024.02
MSE01-051622	5/16/2022 15:15	Cassette	22052024.03
MSE02-051622	5/16/2022 15:09	Cassette	22052024.04

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

Analyst: [REDACTED]

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ab-q210-0321

5/25/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 5/25/2022

Job ID : 22052024
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22052024.01	MSE01-051222	05/12/2022	Area	2			453	906	100	1	1.274	< 0.003		05/25/22	[REDACTED]
22052024.02	MSE02-051222	05/12/2022	Area	2			450	900	100	16.5	21.019	0.009		05/25/22	[REDACTED]
22052024.03	MSE01-051622	05/16/2022	Area	2			502	1004	100	3	3.822	< 0.003		05/25/22	[REDACTED]
22052024.04	MSE02-051622	05/16/2022	Area	2			507	1014	100	24.0	30.573	0.012		05/25/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22052024	Date Received : 05/18/2022	Time Received : 3:44PM		
Client Name : GES - ASRC Industrial				
Temperature : 23.7°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 Black Cassettes. Noo cooler was received; however, samples are received in a box with custody seal. ~JE 05/18/22

Received by : ██████████

Check in by/date : ██████████ / 05/18/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs 5/17/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
							None	Container Type:		
							Filter			
MSE01-051222	5/12/2022	1424	NA	NA	1	AA	X			453 01A
MSE02-051222	5/12/2022	1412	NA	NA	1	AA	X			450 02A
MSE01-051622	5/16/2022	1515	NA	NA	1	AA	X			502 03A
MSE02-051622	5/16/2022	1509	NA	NA	1	AA	X			507 04A

Job ID: 22052024



05/18/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7768 6824 7900

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 5/17/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 5/17/22 Time: 1600

Special Instructions: None [Redacted] 23.7°C 123

Send Results to: [Redacted]

Turnaround Time: Standard

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

SHIP DATE: 17MAY22
ACTWGT: 1.00 LB
CAD: 254128867/NET4490

BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000 400 00 18 04

INV
PO

DEPT



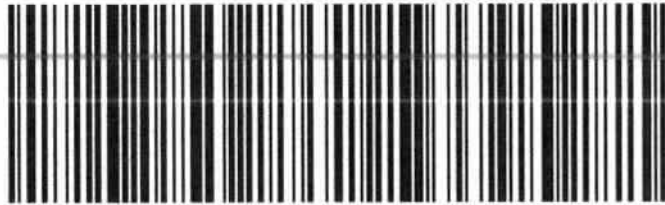
577J51B06/FE4A

TRK# 7768 6824 7900
0201

WED - 18 MAY 4:30P
STANDARD OVERNIGHT

UL HBYA

TX-US 77029
IAH



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SEAL

Gilban

Date: 5/17/22

Signature: [Handwritten Signature]

Laboratory Analysis Report

Job ID : 22052305



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: [REDACTED] Date Received : 05/20/2022 15:24
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-051722	5/17/2022 15:21	Cassette	22052305.01
MSE02-051722	5/17/2022 15:14	Cassette	22052305.02
MSE01-051822	5/18/2022 15:22	Cassette	22052305.03
MSE02-051822	5/18/2022 15:16	Cassette	22052305.04

[REDACTED]
[REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

5/27/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 5/27/2022

Job ID : 22052305
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400								Attn:				
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22052305.01	MSE01-051722	05/17/2022	Area	2			514	1028	100	4.5	5.732	< 0.003		05/26/22	█
22052305.02	MSE02-051722	05/17/2022	Area	2			514	1028	100	6.0	7.643	0.003		05/26/22	█
22052305.03	MSE01-051822	05/18/2022	Area	2			521	1042	100	1	1.274	< 0.003		05/26/22	█
22052305.04	MSE02-051822	05/18/2022	Area	2			526	1052	100	1.5	1.911	< 0.003		05/26/22	█

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22052305		Date Received : 05/20/2022	Time Received : 3:24PM									
Client Name : GES - ASRC Industrial												
Temperature : 22.8°C		Sample pH : NA										
Thermometer ID : IR3		pH Paper ID : NA										
Perservative :												
	Check Points			Yes	No	N/A						
1.	Cooler Seal present and signed.			X								
2.	Sample(s) in a cooler.				X							
3.	If yes, ice in cooler.					X						
4.	Sample(s) received with chain-of-custody.					X						
5.	C-O-C signed and dated.			X								
6.	Sample(s) received with signed sample custody seal.				X							
7.	Sample containers arrived intact. (If No comment)			X								
8.	Matrix:	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Samples were received in appropriate container(s)			X								
10.	Sample(s) were received with Proper preservative					X						
11.	All samples were tagged or labeled.			X								
12.	Sample ID labels match C-O-C ID's.			X								
13.	Bottle count on C-O-C matches bottles found.			X								
14.	Sample volume is sufficient for analyses requested.			X								
15.	Samples were received with in the hold time.			X								
16.	VOA vials completely filled.					X						
17.	Sample accepted.			X								
18.	Has client been contacted about sub-out					X						

Comments : Include actions taken to resolve discrepancies/problem:

Received samples in black cassettes. No cooler was received, however samples are received in a box with a custody seal. ~EV 5/23/2022

Received by : ██████████

Check in by/date | ██████████ / 05/23/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 5/19/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
							None	Filter		
MSE01-051722	01A 5/17/2022	1521	NA	NA	1	AA	X			514
MSE02-051722	02A 5/17/2022	1514	NA	NA	1	AA	X			514
MSE01-051822	03A 5/18/2022	1522	NA	NA	1	AA	X			521
MSE02-051822	04A 5/18/2022	1516	NA	NA	1	AA	X			526

Job ID: 22052305



05/20/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7768 9594 7502

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] / Gilbane Date: 5/19/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 5/19/22 Time: 1600

Special Instructions: None FedEx 5-20-22 15:24 FedEx 5-20-22 15:24

Send Results to: [Redacted]

Turnaround Time: Standard

22.8
IR3
W

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

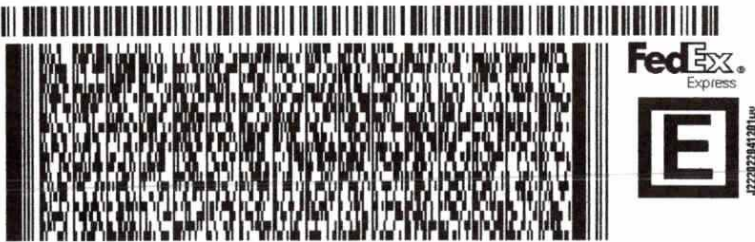
SHIP DATE: 19MAY22
ACTWGT: 1.00 LB
CAD: 254128867/INET4490
BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100
HOUSTON TX 77029

577J5/1BD6/FE4A

REF J31000400001804

INV PO DEPT

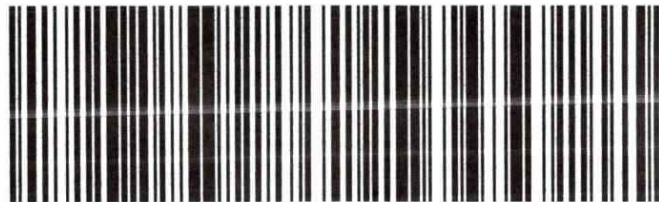


FRI - 20 MAY 4:30P
STANDARD OVERNIGHT

TRK# 7768 9594 7502
0201

UL HBYA

77029
TX-US IAH



Environment Testing
TestAmerica

eurofins

Custody Seal

DATE 5/19/22
SIGNATURE [Signature]

eurofins

Gilbee

Environment Testing
TestAmerica

1256033

1256033

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Laboratory Analysis Report

Job ID : 22052763



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: [REDACTED] Date Received : 05/25/2022 15:47
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-051922	5/19/2022 14:26	Cassette	22052763.01
MSE02-051922	5/19/2022 14:10	Cassette	22052763.02
MSE01-052322	5/23/2022 15:19	Cassette	22052763.03
MSE02-052322	5/23/2022 15:15	Cassette	22052763.04

[REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

6/2/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 6/2/2022

Job ID : 22052763
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22052763.01	MSE01-051922	05/19/2022	Area	2			470	940	100	3	3.822	< 0.003		06/02/22	[REDACTED]
22052763.02	MSE02-051922	05/19/2022	Area	2			465	930	100	23.0	29.299	0.012		06/02/22	[REDACTED]
22052763.03	MSE01-052322	05/23/2022	Area	2			500	1000	100	9.5	12.102	0.005		06/02/22	[REDACTED]
22052763.04	MSE02-052322	05/23/2022	Area	2			510	1020	100	0	0.000	< 0.003		06/02/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22052763	Date Received : 05/25/2022	Time Received : 3:47PM		
Client Name : GES - ASRC Industrial				
Temperature : 23.1°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 No cooler was received, however samples are received in a box with a custody seal. Received black cassettes. ~EV 5/26/2022

Received by : ██████████

Check in by/date : ██████████ / 05/26/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/24/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:		
MSE01-051922	01A 5/19/2022	1426	NA	NA	1	AA	X	None		470
MSE02-051922	02A 5/19/2022	1410	NA	NA	1	AA	X	None		465
MSE01-052322	03A 5/23/2022	1519	NA	NA	1	AA	X	None		500
MSE02-052322	04A 5/23/2022	1515	NA	NA	1	AA	X	None		510

Job ID: 22052763



05/25/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sample: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7769 4410 5984				
Signature: <u>[Redacted]</u>	Relinquished by/Affiliation: <u>[Redacted]</u>	Date: <u>5/24/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>Fedex</u>	Date: <u>5/24/22</u>	Time: <u>15:47</u>
Special Instructions: <u>None</u>	<u>[Redacted]</u> / Gilbane	<u>5-25-22</u>	<u>15:47</u>	<u>[Redacted]</u>	<u>5-25-22</u>	<u>15:47</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

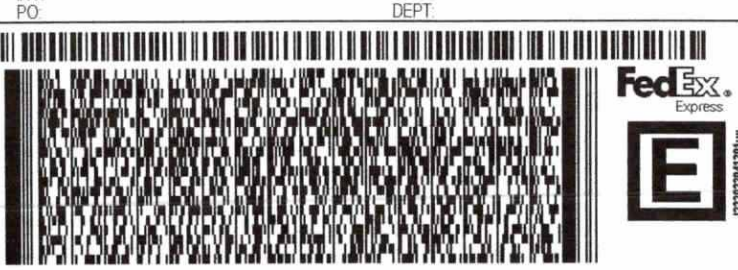
23.10
TR
W

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

SHIP DATE: 24MAY22
ACTWGT: 1.00 LB
CAD: 254128867/INET4490
BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100
HOUSTON TX 77029

REF: J31000.400 00:18:04



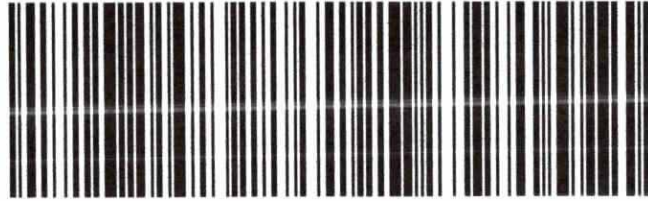
577.6/1806/FE4A

TRK# 7769 4410 5984
0201

WED - 25 MAY 4:30P
STANDARD OVERNIGHT

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77029 TX-US IAH



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GEL Laboratories, LLC CUSTC
 Person Collecting Sample (signature)
 Date Collected 5.24.22

Laboratory Analysis Report

Job ID : 22053033



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: [REDACTED] Date Received : 05/27/2022 15:10
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-052422	5/24/2022 15:18	Cassette	22053033.01
MSE02-052422	5/24/2022 15:15	Cassette	22053033.02
MSE01-052522	5/25/2022 15:15	Cassette	22053033.03
MSE02-052522	5/25/2022 15:11	Cassette	22053033.04

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

Analyst: [REDACTED]

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ab-q210-0321

6/6/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 6/6/2022

Job ID : 22053033
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Attn: [REDACTED]		
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22053033.01	MSE01-052422	05/24/2022	Area	2			512	1024	100	6.0	7.643	0.003		06/03/22	[REDACTED]
22053033.02	MSE02-052422	05/24/2022	Area	2			521	1042	100	0	0.000	< 0.003		06/03/22	[REDACTED]
22053033.03	MSE01-052522	05/25/2022	Area	2			509	1018	100	9.0	11.465	0.004		06/03/22	[REDACTED]
22053033.04	MSE02-052522	05/25/2022	Area	2			517	1034	100	6	7.643	0.003		06/03/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22053033	Date Received : 05/27/2022	Time Received : 3:10PM		
Client Name : GES - ASRC Industrial				
Temperature : 23.1°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

Black Cassettes. No cooler was received; however, samples are received in a box with custody seal. ~JE 05/27/22

Received by : ██████████

Check in by/date : ██████████ / 05/27/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/26/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22053033



05/27/2022 GES - ASRC Industrial ACH

Analysis:

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos		Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Preservative:	None		
							Container Type:			
							Filter			
MSE01-052422	5/24/2022	1518	NA	NA	1	AA	X		512	01A
MSE02-052422	5/24/2022	1515	NA	NA	1	AA	X		521	02A
MSE01-052522	5/25/2022	1515	NA	NA	1	AA	X		509	03A
MSE02-052522	5/25/2022	1511	NA	NA	1	AA	X		517	04A
TP 5/26/22										

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7769 5675 2534

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 5/26/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 5/26/22 Time: 1600

Special Instructions: [Redacted] / Gilbane FedEx 05/27/22 1510
FEDEV

Send Results to: [Redacted]

Turnaround Time: Standard

23.10C
123

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 26MAY22
ACTWGT: 1.00 LB
CAD: 254128867/NET4490

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000400001804

INV
PO

DEPT



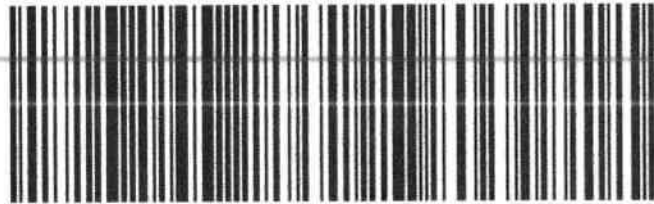
577J51EDS6FE4A

TRK# 7769 5675 2534
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Date: 5/26/22
 By: [Signature]

Laboratory Analysis Report

Job ID : 22060368



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: [REDACTED] Date Received : 06/02/2022 16:09
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-052622	5/26/2022 13:18	Cassette	22060368.01
MSE02-052622	5/26/2022 13:09	Cassette	22060368.02

[REDACTED]
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

6/8/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
 SAMPLING PERFORMED BY CLIENT
 ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
 AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 300080**

Date 6/8/2022

Job ID : 22060368
 Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400								Attn: [REDACTED]				
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22060368.01	MSE01-052622	05/26/2022	Area	2			402	804	100	0	0.000	< 0.003		06/06/22	[REDACTED]
22060368.02	MSE02-052622	05/26/2022	Area	2			403	806	100	3.5	4.459	< 0.003		06/06/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22060368	Date Received : 06/02/2022	Time Received : 4:09PM		
Client Name : GES - ASRC Industrial				
Temperature : 18.1°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Received samples in black cassettes. ~EV 6/3/2022

Received by : ██████████

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

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 5/31/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

OIA
OIA

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	Container Type:	
MSE01-052622	5/26/2022	1318	NA	NA	1	AA	X	None	Filter	402
MSE02-052622	5/26/2022	1309	NA	NA	1	AA	X	None	Filter	403

Flow Rate = 2 L/min

Job ID: 22060368



06/02/2022 GES - ASRC Industrial ACH

TP 5/31/22

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7769 9983 5467

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Gilbane Date: 5/31/22 Time: 16:00 Received By/ Affiliation: Fedex Date: 5/31/22 Time: 16:00

Special Instructions: _____ Fedex 6-3-22 16:09 6/2/22

Send Results to: [Redacted]

Turnaround Time: Standard

18.100 IR3 m

ORIGIN ID: JCCA

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 31MAY22
ACTWGT: 1.00 LB
CAD: 254128867/INET4490

BILL SENDER

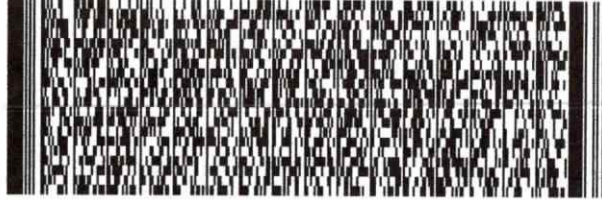
TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000.400.00.18.04

INV PO: DEPT:



577.0274FFE4A

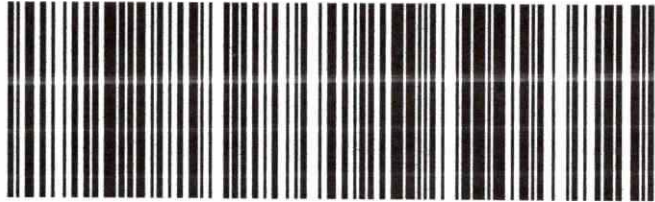
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TRK# 7769 9983 5467
0201

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Laboratory Analysis Report

Job ID : 22060448



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 06/03/2022 15:37
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-053122	5/31/2022 15:14	Cassette	22060448.01
MSE02-053122	5/31/2022 15:07	Cassette	22060448.02
MSE01-060122	6/1/2022 15:41	Cassette	22060448.03
MSE02-060122	6/1/2022 15:37	Cassette	22060448.04

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

Analyst: [REDACTED]

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ab-q210-0321

6/10/2022



**ANALYSIS OF AIRBORNE FIBER SAMPLING
SAMPLING PERFORMED BY CLIENT
ANALYSIS CONDUCTED BY A & B ENVIRONMENTAL SERVICES, INC.
AIHA Lab Accreditation # 101470 TDH PLM/PCM Lab License # 30080**

Date 6/10/2022

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

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400								Attn: [REDACTED]				
A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
22060448.01	MSE01-053122	05/31/2022	Area	2			493	986	100	4.5	5.732	< 0.003		06/06/22	[REDACTED]
22060448.02	MSE02-053122	05/31/2022	Area	2			516	1032	100	2.0	2.548	< 0.003		06/06/22	[REDACTED]
22060448.03	MSE01-060122	06/01/2022	Area	2			535	1070	100	4.5	5.732	< 0.003		06/06/22	[REDACTED]
22060448.04	MSE02-060122	06/01/2022	Area	2			540	1080	100	6.5	8.280	0.003		06/06/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22060448		Date Received : 06/03/2022	Time Received : 3:37PM									
Client Name : GES - ASRC Industrial												
Temperature : 19.8°C		Sample pH : NA										
Thermometer ID : IR3		pH Paper ID : NA										
Perservative :												
	Check Points			Yes	No	N/A						
1.	Cooler Seal present and signed.			X								
2.	Sample(s) in a cooler.				X							
3.	If yes, ice in cooler.					X						
4.	Sample(s) received with chain-of-custody.			X								
5.	C-O-C signed and dated.			X								
6.	Sample(s) received with signed sample custody seal.				X							
7.	Sample containers arrived intact. (If No comment)			X								
8.	Matrix:	Water	Soil	Liquid	Sludge	Solid	Cassette	Tube	Bulk	Badge	Food	Other
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Samples were received in appropriate container(s)			X								
10.	Sample(s) were received with Proper preservative					X						
11.	All samples were tagged or labeled.			X								
12.	Sample ID labels match C-O-C ID's.			X								
13.	Bottle count on C-O-C matches bottles found.			X								
14.	Sample volume is sufficient for analyses requested.			X								
15.	Samples were received with in the hold time.			X								
16.	VOA vials completely filled.					X						
17.	Sample accepted.			X								
18.	Has client been contacted about sub-out					X						

Comments : Include actions taken to resolve discrepancies/problem:

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

Received by : ██████████

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

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

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

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

TP 6/2/22

Job ID: 22060448



06/03/2022 GES - ASRC Industrial ACH

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

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

Special Instructions: [Redacted] Gilban 10/20/22 [Redacted] 06/03/22 1537

Send Results to: [Redacted]

Turnaround Time: Standard

17.8°C
10/20

ORIGIN ID: ICCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

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

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: JB1000 400 00 18 04

INV.
PO

DEPT



577J2Z7AF FE4A

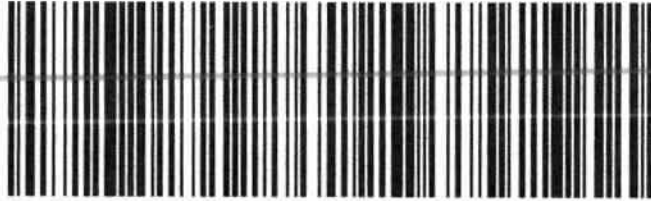
FRI - 03 JUN 4:30P

STANDARD OVERNIGHT

TRK# 7770 1157 0291
0201

UL HBYA

77029 IAH
TX-US



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ENVIRONMENTAL SAMPLING SUPPLY
www.essvial.com 800-233-8425



CUSTODY SEAL

Gilbane

Signature:

[Handwritten Signature]

Date:

6/2/22

ANALYTICAL REPORT

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

Laboratory Job ID: 320-87454-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:
5/11/2022 5:10:07 PM

[REDACTED]

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

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

Job ID: 320-87454-1

Glossary

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

Case Narrative

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

Job ID: 320-87454-1

Job ID: 320-87454-1

Laboratory: Eurofins Sacramento

Narrative

**Job Narrative
320-87454-1**

Comments

No additional comments.

Receipt

The samples were received on 5/4/2022 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.1° C.

Metals

Method PM10: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANEPM031522-1884 (320-87454-1) and GILBANEPM031522-1885 (320-87454-3)

Method 40CFR50 App B: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANETSP031522-1884 (320-87454-2) and GILBANETSP031522-1885 (320-87454-4)

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



Detection Summary

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

Job ID: 320-87454-1

Client Sample ID: GILBANEPM031522-1884

Lab Sample ID: 320-87454-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.040		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0060		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1884

Lab Sample ID: 320-87454-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.8503		0.2997	0.2997	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM031522-1885

Lab Sample ID: 320-87454-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0050		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.014		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1885

Lab Sample ID: 320-87454-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	77.5502		0.2885	0.2885	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-87454-1

Client Sample ID: GILBANEPM031522-1884

Lab Sample ID: 320-87454-1

Date Collected: 05/03/22 06:58

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00070	0.00010	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:23	1
Copper	0.040		0.0014	0.00010	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:23	1
Manganese	0.0060		0.00070	0.000098	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:23	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			05/05/22 08:00	1

Client Sample ID: GILBANETSP031522-1884

Lab Sample ID: 320-87454-2

Date Collected: 05/03/22 06:58

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.8503		0.2997	0.2997	ug/m3 (Air)			05/11/22 14:00	1

Client Sample ID: GILBANEPM031522-1885

Lab Sample ID: 320-87454-3

Date Collected: 05/03/22 06:48

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0050		0.00069	0.00010	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:27	1
Copper	0.014		0.0014	0.00010	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:27	1
Manganese	0.013		0.00069	0.000097	ug/m3 (Air)		05/09/22 12:00	05/09/22 15:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	37		0.29	0.29	ug/m3			05/05/22 08:00	1

Client Sample ID: GILBANETSP031522-1885

Lab Sample ID: 320-87454-4

Date Collected: 05/03/22 06:48

Matrix: Air

Date Received: 05/04/22 09:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	77.5502		0.2885	0.2885	ug/m3 (Air)			05/11/22 14:00	1

QC Sample Results

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

Job ID: 320-87454-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-586384/1-B
Matrix: Air
Analysis Batch: 586555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/09/22 12:00	05/09/22 14:41	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/09/22 12:00	05/09/22 14:41	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/09/22 12:00	05/09/22 14:41	1

Lab Sample ID: LCS 320-586384/2-B
Matrix: Air
Analysis Batch: 586555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586403

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.239		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110

Lab Sample ID: LCSD 320-586384/3-B
Matrix: Air
Analysis Batch: 586555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 586403

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.237		ug/m3 (Air)		99	86 - 111	1	15
Copper	0.240	0.227		ug/m3 (Air)		94	85 - 110	2	15
Manganese	0.240	0.235		ug/m3 (Air)		98	88 - 110	1	15

QC Association Summary

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

Job ID: 320-87454-1

Metals

Pre Prep Batch: 586384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-1	GILBANEPM031522-1884	Total/NA	Air	Filter to Air	
320-87454-3	GILBANEPM031522-1885	Total/NA	Air	Filter to Air	
MB 320-586384/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-586384/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-586384/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 586403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-1	GILBANEPM031522-1884	Total/NA	Air	3050B	586384
320-87454-3	GILBANEPM031522-1885	Total/NA	Air	3050B	586384
MB 320-586384/1-B	Method Blank	Total/NA	Air	3050B	586384
LCS 320-586384/2-B	Lab Control Sample	Total/NA	Air	3050B	586384
LCSD 320-586384/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	586384

Analysis Batch: 586555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-1	GILBANEPM031522-1884	Total/NA	Air	6020	586403
320-87454-3	GILBANEPM031522-1885	Total/NA	Air	6020	586403
MB 320-586384/1-B	Method Blank	Total/NA	Air	6020	586403
LCS 320-586384/2-B	Lab Control Sample	Total/NA	Air	6020	586403
LCSD 320-586384/3-B	Lab Control Sample Dup	Total/NA	Air	6020	586403

General Chemistry

Pre Prep Batch: 586983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-2	GILBANETSP031522-1884	Total/NA	Air	Filter to Air	
320-87454-4	GILBANETSP031522-1885	Total/NA	Air	Filter to Air	

Analysis Batch: 586989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-1	GILBANEPM031522-1884	Total/NA	Air	PM10	
320-87454-3	GILBANEPM031522-1885	Total/NA	Air	PM10	

Analysis Batch: 586991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87454-2	GILBANETSP031522-1884	Total/NA	Air	40CFR50 App B	586983
320-87454-4	GILBANETSP031522-1885	Total/NA	Air	40CFR50 App B	586983

Lab Chronicle

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

Job ID: 320-87454-1

Client Sample ID: GILBANEPM031522-1884

Lab Sample ID: 320-87454-1

Date Collected: 05/03/22 06:58

Matrix: Air

Date Received: 05/04/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586384	05/09/22 11:05	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586403	05/09/22 12:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			586555	05/09/22 15:23	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0545 g	586989	05/05/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1884

Lab Sample ID: 320-87454-2

Date Collected: 05/03/22 06:58

Matrix: Air

Date Received: 05/04/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			586991	05/11/22 14:00	JMD	TAL SAC

Client Sample ID: GILBANEPM031522-1885

Lab Sample ID: 320-87454-3

Date Collected: 05/03/22 06:48

Matrix: Air

Date Received: 05/04/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586384	05/09/22 11:05	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586403	05/09/22 12:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			586555	05/09/22 15:27	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0643 g	586989	05/05/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1885

Lab Sample ID: 320-87454-4

Date Collected: 05/03/22 06:48

Matrix: Air

Date Received: 05/04/22 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			586991	05/11/22 14:00	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-87454-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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

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

Method Summary

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

Job ID: 320-87454-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-87454-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87454-1	GILBANEPM031522-1884	Air	05/03/22 06:58	05/04/22 09:45
320-87454-2	GILBANETSP031522-1884	Air	05/03/22 06:58	05/04/22 09:45
320-87454-3	GILBANEPM031522-1885	Air	05/03/22 06:48	05/04/22 09:45
320-87454-4	GILBANETSP031522-1885	Air	05/03/22 06:48	05/04/22 09:45

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

**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT050322AIR



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

Comments:

Equipment:

Analytical Test Method

CAIR - Air PM10

N0500 - Air TSP

SW6020 - Air Pb Mn Cu

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None

320-87454 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring May 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GILBANEPM031522-1884	05/03/2022	0658	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1721.40 (M3)
2	GILBANETSP031522-1884	05/03/2022	0658	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1668.60 (M3)
3	GILBANEPM031522-1885	05/03/2022	0648	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1726.95 (M3)
4	GILBANETSP031522-1885	05/03/2022	0648	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1733.07 (M3)
5												
6												
7												
8												
9												
10												

Turnaround Time: 5 days

Relinquished by: (Signature) [Redacted] Date: 5/3/22 Time: 1600

Received by: (Signature) [Redacted] Date: 5-4-22 Time: 0945

Shipping Date / Carrier / Airbill Number: Shipping Date: 5/3/2022 / FedEx 7767 4711 7650

Received by Laboratory: (Signature, Date, Time) & condition

19.1



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87454-1

Login Number: 87454

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-87609-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
5/13/2022 6:23:18 PM

[REDACTED]

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

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

Job ID: 320-87609-1

Glossary

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

Case Narrative

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

Job ID: 320-87609-1

Job ID: 320-87609-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-87609-1

Comments

No additional comments.

Receipt

The samples were received on 5/6/2022 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.1° C.

Metals

Method PM10: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANEPM031522-1886 (320-87609-1), GILBANEPM031522-1887 (320-87609-3), GILBANEPM031522-1888 (320-87609-5) and GILBANEPM031522-1889 (320-87609-7)

Method 40CFR50 App B: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANETSP031522-1886 (320-87609-2), GILBANETSP031522-1887 (320-87609-4), GILBANETSP031522-1888 (320-87609-6) and GILBANETSP031522-1889 (320-87609-8)

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



Detection Summary

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

Job ID: 320-87609-1

Client Sample ID: GILBANEPM031522-1886

Lab Sample ID: 320-87609-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.048		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0079		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1886

Lab Sample ID: 320-87609-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	44.8566		0.3015	0.3015	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM031522-1887

Lab Sample ID: 320-87609-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0087		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0077		0.00070	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	30		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1887

Lab Sample ID: 320-87609-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	53.1071		0.2928	0.2928	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM031522-1888

Lab Sample ID: 320-87609-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0051		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.035		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1888

Lab Sample ID: 320-87609-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	49.8617		0.2993	0.2993	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM031522-1889

Lab Sample ID: 320-87609-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0067		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	0.010		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1889

Lab Sample ID: 320-87609-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	62.6382		0.2871	0.2871	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-87609-1

Client Sample ID: GILBANEPM031522-1886

Lab Sample ID: 320-87609-1

Date Collected: 05/04/22 06:31

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00070	0.00011	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:28	1
Copper	0.048		0.0014	0.00011	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:28	1
Manganese	0.0079		0.00070	0.000098	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:28	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			05/09/22 09:30	1

Client Sample ID: GILBANETSP031522-1886

Lab Sample ID: 320-87609-2

Date Collected: 05/04/22 06:31

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.8566		0.3015	0.3015	ug/m3 (Air)			05/09/22 09:30	1

Client Sample ID: GILBANEPM031522-1887

Lab Sample ID: 320-87609-3

Date Collected: 05/04/22 06:22

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030		0.00070	0.00011	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:37	1
Copper	0.0087		0.0014	0.00011	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:37	1
Manganese	0.0077		0.00070	0.000099	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	30		0.29	0.29	ug/m3			05/09/22 09:30	1

Client Sample ID: GILBANETSP031522-1887

Lab Sample ID: 320-87609-4

Date Collected: 05/04/22 06:22

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	53.1071		0.2928	0.2928	ug/m3 (Air)			05/09/22 09:30	1

Client Sample ID: GILBANEPM031522-1888

Lab Sample ID: 320-87609-5

Date Collected: 05/05/22 06:38

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0051		0.00069	0.00010	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:40	1
Copper	0.035		0.0014	0.00010	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:40	1
Manganese	0.011		0.00069	0.000096	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:40	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-87609-1

Client Sample ID: GILBANEPM031522-1888

Lab Sample ID: 320-87609-5

Date Collected: 05/05/22 06:38

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.29	0.29	ug/m3			05/09/22 09:30	1

Client Sample ID: GILBANETSP031522-1888

Lab Sample ID: 320-87609-6

Date Collected: 05/05/22 06:38

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.8617		0.2993	0.2993	ug/m3 (Air)			05/09/22 09:30	1

Client Sample ID: GILBANEPM031522-1889

Lab Sample ID: 320-87609-7

Date Collected: 05/05/22 06:29

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0067		0.00069	0.00010	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:44	1
Copper	0.023		0.0014	0.00010	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:44	1
Manganese	0.010		0.00069	0.000097	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.29	0.29	ug/m3			05/09/22 09:30	1

Client Sample ID: GILBANETSP031522-1889

Lab Sample ID: 320-87609-8

Date Collected: 05/05/22 06:29

Matrix: Air

Date Received: 05/06/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	62.6382		0.2871	0.2871	ug/m3 (Air)			05/09/22 09:30	1

QC Sample Results

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

Job ID: 320-87609-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-586802/1-B
Matrix: Air
Analysis Batch: 587455

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 586805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:19	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:19	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/11/22 06:30	05/12/22 14:19	1

Lab Sample ID: LCS 320-586802/2-B
Matrix: Air
Analysis Batch: 587455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 586805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.237		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110

Lab Sample ID: LCSD 320-586802/3-B
Matrix: Air
Analysis Batch: 587455

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 586805

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.244		ug/m3 (Air)		102	86 - 111	3	15
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.252		ug/m3 (Air)		105	88 - 110	6	15

QC Association Summary

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

Job ID: 320-87609-1

Metals

Pre Prep Batch: 586802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	Filter to Air	
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	Filter to Air	
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	Filter to Air	
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	Filter to Air	
MB 320-586802/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-586802/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-586802/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 586805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	3050B	586802
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	3050B	586802
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	3050B	586802
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	3050B	586802
MB 320-586802/1-B	Method Blank	Total/NA	Air	3050B	586802
LCS 320-586802/2-B	Lab Control Sample	Total/NA	Air	3050B	586802
LCSD 320-586802/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	586802

Analysis Batch: 587455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	6020	586805
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	6020	586805
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	6020	586805
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	6020	586805
MB 320-586802/1-B	Method Blank	Total/NA	Air	6020	586805
LCS 320-586802/2-B	Lab Control Sample	Total/NA	Air	6020	586805
LCSD 320-586802/3-B	Lab Control Sample Dup	Total/NA	Air	6020	586805

General Chemistry

Pre Prep Batch: 586983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-2	GILBANETSP031522-1886	Total/NA	Air	Filter to Air	
320-87609-4	GILBANETSP031522-1887	Total/NA	Air	Filter to Air	
320-87609-6	GILBANETSP031522-1888	Total/NA	Air	Filter to Air	
320-87609-8	GILBANETSP031522-1889	Total/NA	Air	Filter to Air	

Analysis Batch: 587590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-1	GILBANEPM031522-1886	Total/NA	Air	PM10	
320-87609-3	GILBANEPM031522-1887	Total/NA	Air	PM10	
320-87609-5	GILBANEPM031522-1888	Total/NA	Air	PM10	
320-87609-7	GILBANEPM031522-1889	Total/NA	Air	PM10	

Analysis Batch: 587592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87609-2	GILBANETSP031522-1886	Total/NA	Air	40CFR50 App B	586983
320-87609-4	GILBANETSP031522-1887	Total/NA	Air	40CFR50 App B	586983
320-87609-6	GILBANETSP031522-1888	Total/NA	Air	40CFR50 App B	586983
320-87609-8	GILBANETSP031522-1889	Total/NA	Air	40CFR50 App B	586983

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-87609-1

Client Sample ID: GILBANEPM031522-1886

Lab Sample ID: 320-87609-1

Date Collected: 05/04/22 06:31

Matrix: Air

Date Received: 05/06/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:28	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0553 g	587590	05/09/22 09:30	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1886

Lab Sample ID: 320-87609-2

Date Collected: 05/04/22 06:31

Matrix: Air

Date Received: 05/06/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			587592	05/09/22 09:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC

Client Sample ID: GILBANEPM031522-1887

Lab Sample ID: 320-87609-3

Date Collected: 05/04/22 06:22

Matrix: Air

Date Received: 05/06/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:37	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0517 g	587590	05/09/22 09:30	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1887

Lab Sample ID: 320-87609-4

Date Collected: 05/04/22 06:22

Matrix: Air

Date Received: 05/06/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			587592	05/09/22 09:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC

Client Sample ID: GILBANEPM031522-1888

Lab Sample ID: 320-87609-5

Date Collected: 05/05/22 06:38

Matrix: Air

Date Received: 05/06/22 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:40	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0573 g	587590	05/09/22 09:30	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-87609-1

Client Sample ID: GILBANETSP031522-1888
Date Collected: 05/05/22 06:38
Date Received: 05/06/22 10:05

Lab Sample ID: 320-87609-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			587592	05/09/22 09:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC

Client Sample ID: GILBANEPM031522-1889
Date Collected: 05/05/22 06:29
Date Received: 05/06/22 10:05

Lab Sample ID: 320-87609-7
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					586802	05/11/22 06:01	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	586805	05/11/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			587455	05/12/22 14:44	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0508 g	587590	05/09/22 09:30	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1889
Date Collected: 05/05/22 06:29
Date Received: 05/06/22 10:05

Lab Sample ID: 320-87609-8
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			587592	05/09/22 09:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					586983	05/11/22 14:00	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-87609-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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



Method Summary

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

Job ID: 320-87609-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-87609-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87609-1	GILBANEPM031522-1886	Air	05/04/22 06:31	05/06/22 10:05
320-87609-2	GILBANETSP031522-1886	Air	05/04/22 06:31	05/06/22 10:05
320-87609-3	GILBANEPM031522-1887	Air	05/04/22 06:22	05/06/22 10:05
320-87609-4	GILBANETSP031522-1887	Air	05/04/22 06:22	05/06/22 10:05
320-87609-5	GILBANEPM031522-1888	Air	05/05/22 06:38	05/06/22 10:05
320-87609-6	GILBANETSP031522-1888	Air	05/05/22 06:38	05/06/22 10:05
320-87609-7	GILBANEPM031522-1889	Air	05/05/22 06:29	05/06/22 10:05
320-87609-8	GILBANETSP031522-1889	Air	05/05/22 06:29	05/06/22 10:05

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT050522AIR



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

Comments:

Equipment:

Analytical Test Method

Code	Matrix
A	Air
Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
										Top	Bottom		
1	GILBANEPM031522-1886	05/04/2022	0631	KT	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1712.46 (M3)
2	GILBANETSP031522-1886	05/04/2022	0631	KT	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1658.62 (M3)
3	GILBANEPM031522-1887	05/04/2022	0622	KT	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1703.60 (M3)
4	GILBANETSP031522-1887	05/04/2022	0622	KT	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1707.87 (M3)
5	GILBANEPM031522-1888	05/05/2022	0638	KT	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1744.74 (M3)
6	GILBANETSP031522-1888	05/05/2022	0638	KT	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1670.62 (M3)
7	GILBANEPM031522-1889	05/05/2022	0629	KT	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1738.60 (M3)
8	GILBANETSP031522-1889	05/05/2022	0629	KT	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1741.75 (M3)
9													
10													

Turnaround Time: 5 days

Received by: (Signature) [Redacted] Date: 5/5/22 Time: 1600

Received by: (Signature) [Redacted] Date: 5.6.22 Time: 1005

Shipping Date / Carrier / Airbill Number: 5/5/2022 / FedEx 7767 6954 3480

Received by Laboratory: (Signature, Date, Time) & condition



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87609-1

Login Number: 87609

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-87735-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

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results through



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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

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

Job ID: 320-87735-1

Qualifiers

Metals

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

Glossary

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

Case Narrative

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

Job ID: 320-87735-1

Job ID: 320-87735-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-87735-1

Comments

No additional comments.

Receipt

The samples were received on 5/11/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.4° C.

Metals

Method PM10: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANEPM031522-1890 (320-87735-1) and GILBANEPM031522-1891 (320-87735-3)

Method 40CFR50 App B: A second weight was not taken during the initial tare weight process. The value of the first weight was entered in the 2nd tare weight column on the particulate spreadsheet for calculation purposes.

GILBANETSP031522-1890 (320-87735-2) and GILBANETSP031522-1891 (320-87735-4)

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



Detection Summary

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

Job ID: 320-87735-1

Client Sample ID: GILBANEPM031522-1890

Lab Sample ID: 320-87735-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0020	J	0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.037		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0079		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.94	0.94	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1890

Lab Sample ID: 320-87735-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.9218		0.9684	0.9684	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM031522-1891

Lab Sample ID: 320-87735-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0054		0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.37		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34		1.2	1.2	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP031522-1891

Lab Sample ID: 320-87735-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	38.6610		0.9430	0.9430	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1892

Lab Sample ID: 320-87735-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0091		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.055		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0045		0.00070	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1892

Lab Sample ID: 320-87735-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	18.7822		0.3069	0.3069	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1893

Lab Sample ID: 320-87735-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0041		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.23		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0095		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1893

Lab Sample ID: 320-87735-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	33.5102		0.2945	0.2945	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-87735-1

Client Sample ID: GILBANEPM031522-1890

Lab Sample ID: 320-87735-1

Date Collected: 05/05/22 14:03

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020	J	0.0023	0.00034	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:28	1
Copper	0.037		0.0045	0.00034	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:28	1
Manganese	0.0079		0.0023	0.00032	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.94	0.94	ug/m3			05/12/22 11:00	1

Client Sample ID: GILBANETSP031522-1890

Lab Sample ID: 320-87735-2

Date Collected: 05/05/22 14:03

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.9218		0.9684	0.9684	ug/m3 (Air)			05/12/22 11:00	1

Client Sample ID: GILBANEPM031522-1891

Lab Sample ID: 320-87735-3

Date Collected: 05/05/22 13:50

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054		0.0023	0.00034	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:37	1
Copper	0.37		0.0045	0.00034	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:37	1
Manganese	0.012		0.0023	0.00032	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		1.2	1.2	ug/m3			05/12/22 11:00	1

Client Sample ID: GILBANETSP031522-1891

Lab Sample ID: 320-87735-4

Date Collected: 05/05/22 13:50

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	38.6610		0.9430	0.9430	ug/m3 (Air)			05/12/22 11:00	1

Client Sample ID: GILBANEPM041222-1892

Lab Sample ID: 320-87735-5

Date Collected: 05/10/22 06:34

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0091		0.00070	0.00011	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:40	1
Copper	0.055		0.0014	0.00011	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:40	1
Manganese	0.0045		0.00070	0.000099	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:40	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-87735-1

Client Sample ID: GILBANEPM041222-1892

Lab Sample ID: 320-87735-5

Date Collected: 05/10/22 06:34

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.29	0.29	ug/m3			05/12/22 11:00	1

Client Sample ID: GILBANETSP041222-1892

Lab Sample ID: 320-87735-6

Date Collected: 05/10/22 06:34

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	18.7822		0.3069	0.3069	ug/m3 (Air)			05/12/22 11:00	1

Client Sample ID: GILBANEPM041222-1893

Lab Sample ID: 320-87735-7

Date Collected: 05/10/22 06:20

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0041		0.00071	0.00011	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:43	1
Copper	0.23		0.0014	0.00011	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:43	1
Manganese	0.0095		0.00071	0.000099	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.30	0.30	ug/m3			05/12/22 11:00	1

Client Sample ID: GILBANETSP041222-1893

Lab Sample ID: 320-87735-8

Date Collected: 05/10/22 06:20

Matrix: Air

Date Received: 05/11/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	33.5102		0.2945	0.2945	ug/m3 (Air)			05/12/22 11:00	1

QC Sample Results

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

Job ID: 320-87735-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-588236/1-B
Matrix: Air
Analysis Batch: 588367

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:03	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:03	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/17/22 06:00	05/17/22 10:03	1

Lab Sample ID: LCS 320-588236/2-B
Matrix: Air
Analysis Batch: 588367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588238

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.241		ug/m3 (Air)		100	86 - 111
Copper	0.240	0.230		ug/m3 (Air)		96	85 - 110
Manganese	0.240	0.235		ug/m3 (Air)		98	88 - 110

Lab Sample ID: LCSD 320-588236/3-B
Matrix: Air
Analysis Batch: 588367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588238

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.249		ug/m3 (Air)		104	86 - 111	3	15
Copper	0.240	0.259		ug/m3 (Air)		108	85 - 110	12	15
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110	2	15

QC Association Summary

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

Job ID: 320-87735-1

Metals

Pre Prep Batch: 588236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-1	GILBANEPM031522-1890	Total/NA	Air	Filter to Air	
320-87735-3	GILBANEPM031522-1891	Total/NA	Air	Filter to Air	
320-87735-5	GILBANEPM041222-1892	Total/NA	Air	Filter to Air	
320-87735-7	GILBANEPM041222-1893	Total/NA	Air	Filter to Air	
MB 320-588236/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-588236/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-588236/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 588238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-1	GILBANEPM031522-1890	Total/NA	Air	3050B	588236
320-87735-3	GILBANEPM031522-1891	Total/NA	Air	3050B	588236
320-87735-5	GILBANEPM041222-1892	Total/NA	Air	3050B	588236
320-87735-7	GILBANEPM041222-1893	Total/NA	Air	3050B	588236
MB 320-588236/1-B	Method Blank	Total/NA	Air	3050B	588236
LCS 320-588236/2-B	Lab Control Sample	Total/NA	Air	3050B	588236
LCSD 320-588236/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	588236

Analysis Batch: 588367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-1	GILBANEPM031522-1890	Total/NA	Air	6020	588238
320-87735-3	GILBANEPM031522-1891	Total/NA	Air	6020	588238
320-87735-5	GILBANEPM041222-1892	Total/NA	Air	6020	588238
320-87735-7	GILBANEPM041222-1893	Total/NA	Air	6020	588238
MB 320-588236/1-B	Method Blank	Total/NA	Air	6020	588238
LCS 320-588236/2-B	Lab Control Sample	Total/NA	Air	6020	588238
LCSD 320-588236/3-B	Lab Control Sample Dup	Total/NA	Air	6020	588238

General Chemistry

Pre Prep Batch: 588671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-2	GILBANETSP031522-1890	Total/NA	Air	Filter to Air	
320-87735-4	GILBANETSP031522-1891	Total/NA	Air	Filter to Air	
320-87735-6	GILBANETSP041222-1892	Total/NA	Air	Filter to Air	
320-87735-8	GILBANETSP041222-1893	Total/NA	Air	Filter to Air	

Analysis Batch: 588695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-1	GILBANEPM031522-1890	Total/NA	Air	PM10	
320-87735-3	GILBANEPM031522-1891	Total/NA	Air	PM10	
320-87735-5	GILBANEPM041222-1892	Total/NA	Air	PM10	
320-87735-7	GILBANEPM041222-1893	Total/NA	Air	PM10	

Analysis Batch: 588709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87735-2	GILBANETSP031522-1890	Total/NA	Air	40CFR50 App B	588671
320-87735-4	GILBANETSP031522-1891	Total/NA	Air	40CFR50 App B	588671
320-87735-6	GILBANETSP041222-1892	Total/NA	Air	40CFR50 App B	588671
320-87735-8	GILBANETSP041222-1893	Total/NA	Air	40CFR50 App B	588671

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-87735-1

Client Sample ID: GILBANEPM031522-1890

Lab Sample ID: 320-87735-1

Date Collected: 05/05/22 14:03

Matrix: Air

Date Received: 05/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			588367	05/17/22 10:28	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0103 g	588695	05/12/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1890

Lab Sample ID: 320-87735-2

Date Collected: 05/05/22 14:03

Matrix: Air

Date Received: 05/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			588709	05/12/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588671	05/18/22 16:09	JMD	TAL SAC

Client Sample ID: GILBANEPM031522-1891

Lab Sample ID: 320-87735-3

Date Collected: 05/05/22 13:50

Matrix: Air

Date Received: 05/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			588367	05/17/22 10:37	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0146 g	588695	05/12/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP031522-1891

Lab Sample ID: 320-87735-4

Date Collected: 05/05/22 13:50

Matrix: Air

Date Received: 05/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			588709	05/12/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588671	05/18/22 16:09	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1892

Lab Sample ID: 320-87735-5

Date Collected: 05/10/22 06:34

Matrix: Air

Date Received: 05/11/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			588367	05/17/22 10:40	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0228 g	588695	05/12/22 11:00	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-87735-1

Client Sample ID: GILBANETSP041222-1892
Date Collected: 05/10/22 06:34
Date Received: 05/11/22 10:00

Lab Sample ID: 320-87735-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			588709	05/12/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588671	05/18/22 16:09	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1893
Date Collected: 05/10/22 06:20
Date Received: 05/11/22 10:00

Lab Sample ID: 320-87735-7
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					588236	05/17/22 05:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588238	05/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			588367	05/17/22 10:43	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0393 g	588695	05/12/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1893
Date Collected: 05/10/22 06:20
Date Received: 05/11/22 10:00

Lab Sample ID: 320-87735-8
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			588709	05/12/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588671	05/18/22 16:09	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-87735-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	05-17-22
Oregon	NELAP	4040	01-29-23

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 13
- 14

Method Summary

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

Job ID: 320-87735-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-87735-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87735-1	GILBANEPM031522-1890	Air	05/05/22 14:03	05/11/22 10:00
320-87735-2	GILBANETSP031522-1890	Air	05/05/22 14:03	05/11/22 10:00
320-87735-3	GILBANEPM031522-1891	Air	05/05/22 13:50	05/11/22 10:00
320-87735-4	GILBANETSP031522-1891	Air	05/05/22 13:50	05/11/22 10:00
320-87735-5	GILBANEPM041222-1892	Air	05/10/22 06:34	05/11/22 10:00
320-87735-6	GILBANETSP041222-1892	Air	05/10/22 06:34	05/11/22 10:00
320-87735-7	GILBANEPM041222-1893	Air	05/10/22 06:20	05/11/22 10:00
320-87735-8	GILBANETSP041222-1893	Air	05/10/22 06:20	05/11/22 10:00

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT051022AIR



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

Comments:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



320-87735 Chain of Custody

Equipment:

Event: Parcel E Phase 2 Air Monitoring May 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GILBANEPM031522-1890	05/05/2022	1403	KT	X		X	AMSE1	N2	0.00 0.00	1	VOLUME: 531.97 (M3)
2	GILBANETSP031522-1890	05/05/2022	1403	KT	X	X		AMSE1	N2	0.00 0.00	1	VOLUME: 516.31 (M3)
3	GILBANEPM031522-1891	05/05/2022	1350	KT	X		X	AMSE2	N2	0.00 0.00	1	VOLUME: 527.57 (M3)
4	GILBANETSP031522-1891	05/05/2022	1350	KT	X	X		AMSE2	N2	0.00 0.00	1	VOLUME: 530.25 (M3)
5	GILBANEPM041222-1892	05/10/2022	0634	KT	X		X	AMSE1	N1	0.00 0.00	1	VOLUME: 1703.34 (M3)
6	GILBANETSP041222-1892	05/10/2022	0634	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1629.20 (M3)
7	GILBANEPM041222-1893	05/10/2022	0620	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1693.05 (M3)
8	GILBANETSP041222-1893	05/10/2022	0620	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1697.99 (M3)
9												
10												

Turnaround Time: 5 days

Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	5/10/22	1600	Shipping Date: 5/10/2022 / FedEx 7768 1074 8630
[Redacted]	5-11-22	1000	Received by Laboratory: (Signature, Date, Time) & condition

19.4°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87735-1

Login Number: 87735

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-87858-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
5/20/2022 6:37:17 PM

[REDACTED]

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

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

Job ID: 320-87858-1

Glossary

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

Case Narrative

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

Job ID: 320-87858-1

Job ID: 320-87858-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-87858-1

Comments

No additional comments.

Receipt

The samples were received on 5/13/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.1° C.

Metals

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

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Detection Summary

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

Job ID: 320-87858-1

Client Sample ID: GILBANEPM041222-1894

Lab Sample ID: 320-87858-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0035		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.033		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0075		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1894

Lab Sample ID: 320-87858-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.5375		0.3037	0.3037	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1895

Lab Sample ID: 320-87858-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0044		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.012		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0092		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1895

Lab Sample ID: 320-87858-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.3923		0.2903	0.2903	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1896

Lab Sample ID: 320-87858-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.012		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.061		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1896

Lab Sample ID: 320-87858-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	35.9693		0.2968	0.2968	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1897

Lab Sample ID: 320-87858-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0035		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.017		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1897

Lab Sample ID: 320-87858-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.6536		0.2843	0.2843	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-87858-1

Client Sample ID: GILBANEPM041222-1894

Lab Sample ID: 320-87858-1

Date Collected: 05/11/22 06:30

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0035		0.00069	0.00010	ug/m3 (Air)		05/19/22 06:30	05/19/22 12:55	1
Copper	0.033		0.0014	0.00010	ug/m3 (Air)		05/19/22 06:30	05/20/22 12:43	1
Manganese	0.0075		0.00069	0.000097	ug/m3 (Air)		05/19/22 06:30	05/19/22 12:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.29	0.29	ug/m3			05/16/22 11:30	1

Client Sample ID: GILBANETSP041222-1894

Lab Sample ID: 320-87858-2

Date Collected: 05/11/22 06:30

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.5375		0.3037	0.3037	ug/m3 (Air)			05/16/22 11:30	1

Client Sample ID: GILBANEPM041222-1895

Lab Sample ID: 320-87858-3

Date Collected: 05/11/22 06:20

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0044		0.00070	0.00010	ug/m3 (Air)		05/19/22 06:30	05/19/22 13:05	1
Copper	0.012		0.0014	0.00010	ug/m3 (Air)		05/19/22 06:30	05/20/22 12:46	1
Manganese	0.0092		0.00070	0.000097	ug/m3 (Air)		05/19/22 06:30	05/19/22 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.29	0.29	ug/m3			05/16/22 11:30	1

Client Sample ID: GILBANETSP041222-1895

Lab Sample ID: 320-87858-4

Date Collected: 05/11/22 06:20

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.3923		0.2903	0.2903	ug/m3 (Air)			05/16/22 11:30	1

Client Sample ID: GILBANEPM041222-1896

Lab Sample ID: 320-87858-5

Date Collected: 05/12/22 06:52

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.012		0.00068	0.00010	ug/m3 (Air)		05/19/22 06:30	05/19/22 13:08	1
Copper	0.061		0.0014	0.00010	ug/m3 (Air)		05/19/22 06:30	05/20/22 12:49	1
Manganese	0.010		0.00068	0.000095	ug/m3 (Air)		05/19/22 06:30	05/19/22 13:08	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-87858-1

Client Sample ID: GILBANEPM041222-1896

Lab Sample ID: 320-87858-5

Date Collected: 05/12/22 06:52

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.28	0.28	ug/m3			05/16/22 11:30	1

Client Sample ID: GILBANETSP041222-1896

Lab Sample ID: 320-87858-6

Date Collected: 05/12/22 06:52

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.9693		0.2968	0.2968	ug/m3 (Air)			05/16/22 11:30	1

Client Sample ID: GILBANEPM041222-1897

Lab Sample ID: 320-87858-7

Date Collected: 05/12/22 06:43

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0035		0.00068	0.00010	ug/m3 (Air)		05/19/22 06:30	05/19/22 13:11	1
Copper	0.017		0.0014	0.00010	ug/m3 (Air)		05/19/22 06:30	05/20/22 12:53	1
Manganese	0.012		0.00068	0.000096	ug/m3 (Air)		05/19/22 06:30	05/19/22 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.28	0.28	ug/m3			05/16/22 11:30	1

Client Sample ID: GILBANETSP041222-1897

Lab Sample ID: 320-87858-8

Date Collected: 05/12/22 06:43

Matrix: Air

Date Received: 05/13/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.6536		0.2843	0.2843	ug/m3 (Air)			05/16/22 11:30	1

QC Sample Results

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

Job ID: 320-87858-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-588788/1-B
Matrix: Air
Analysis Batch: 589121

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/19/22 06:30	05/19/22 12:27	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/19/22 06:30	05/19/22 12:27	1

Lab Sample ID: MB 320-588788/1-B
Matrix: Air
Analysis Batch: 589263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 588793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/19/22 06:30	05/20/22 12:24	1

Lab Sample ID: LCS 320-588788/2-B
Matrix: Air
Analysis Batch: 589121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.250		ug/m3 (Air)		104	86 - 111
Manganese	0.240	0.234		ug/m3 (Air)		98	88 - 110

Lab Sample ID: LCS 320-588788/2-B
Matrix: Air
Analysis Batch: 589263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 588793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110

Lab Sample ID: LCSD 320-588788/3-B
Matrix: Air
Analysis Batch: 589121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.243		ug/m3 (Air)		101	86 - 111	3	15
Manganese	0.240	0.237		ug/m3 (Air)		99	88 - 110	1	15

Lab Sample ID: LCSD 320-588788/3-B
Matrix: Air
Analysis Batch: 589263

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 588793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	0.240	0.233		ug/m3 (Air)		97	85 - 110	4	15

QC Association Summary

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

Job ID: 320-87858-1

Metals

Pre Prep Batch: 588788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	Filter to Air	
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	Filter to Air	
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	Filter to Air	
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	Filter to Air	
MB 320-588788/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 588793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	3050B	588788
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	3050B	588788
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	3050B	588788
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	3050B	588788
MB 320-588788/1-B	Method Blank	Total/NA	Air	3050B	588788
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	3050B	588788
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	588788

Analysis Batch: 589121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	6020	588793
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	6020	588793
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	6020	588793
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	6020	588793
MB 320-588788/1-B	Method Blank	Total/NA	Air	6020	588793
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	6020	588793
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	6020	588793

Analysis Batch: 589263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	6020	588793
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	6020	588793
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	6020	588793
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	6020	588793
MB 320-588788/1-B	Method Blank	Total/NA	Air	6020	588793
LCS 320-588788/2-B	Lab Control Sample	Total/NA	Air	6020	588793
LCSD 320-588788/3-B	Lab Control Sample Dup	Total/NA	Air	6020	588793

General Chemistry

Pre Prep Batch: 588931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-2	GILBANETSP041222-1894	Total/NA	Air	Filter to Air	
320-87858-4	GILBANETSP041222-1895	Total/NA	Air	Filter to Air	
320-87858-6	GILBANETSP041222-1896	Total/NA	Air	Filter to Air	
320-87858-8	GILBANETSP041222-1897	Total/NA	Air	Filter to Air	

Analysis Batch: 589341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-1	GILBANEPM041222-1894	Total/NA	Air	PM10	
320-87858-3	GILBANEPM041222-1895	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-87858-1

General Chemistry (Continued)

Analysis Batch: 589341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-5	GILBANEPM041222-1896	Total/NA	Air	PM10	
320-87858-7	GILBANEPM041222-1897	Total/NA	Air	PM10	

Analysis Batch: 589342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-87858-2	GILBANETSP041222-1894	Total/NA	Air	40CFR50 App B	588931
320-87858-4	GILBANETSP041222-1895	Total/NA	Air	40CFR50 App B	588931
320-87858-6	GILBANETSP041222-1896	Total/NA	Air	40CFR50 App B	588931
320-87858-8	GILBANETSP041222-1897	Total/NA	Air	40CFR50 App B	588931



Lab Chronicle

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

Job ID: 320-87858-1

Client Sample ID: GILBANEPM041222-1894

Lab Sample ID: 320-87858-1

Date Collected: 05/11/22 06:30

Matrix: Air

Date Received: 05/13/22 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					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589121	05/19/22 12:55	SP	TAL SAC
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589263	05/20/22 12:43	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0284 g	589341	05/16/22 11:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1894

Lab Sample ID: 320-87858-2

Date Collected: 05/11/22 06:30

Matrix: Air

Date Received: 05/13/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			589342	05/16/22 11:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1895

Lab Sample ID: 320-87858-3

Date Collected: 05/11/22 06:20

Matrix: Air

Date Received: 05/13/22 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					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589121	05/19/22 13:05	SP	TAL SAC
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589263	05/20/22 12:46	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0280 g	589341	05/16/22 11:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1895

Lab Sample ID: 320-87858-4

Date Collected: 05/11/22 06:20

Matrix: Air

Date Received: 05/13/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			589342	05/16/22 11:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-87858-1

Client Sample ID: GILBANEPM041222-1896

Lab Sample ID: 320-87858-5

Date Collected: 05/12/22 06:52

Matrix: Air

Date Received: 05/13/22 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					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589121	05/19/22 13:08	SP	TAL SAC
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589263	05/20/22 12:49	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0390 g	589341	05/16/22 11:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1896

Lab Sample ID: 320-87858-6

Date Collected: 05/12/22 06:52

Matrix: Air

Date Received: 05/13/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			589342	05/16/22 11:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1897

Lab Sample ID: 320-87858-7

Date Collected: 05/12/22 06:43

Matrix: Air

Date Received: 05/13/22 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					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589121	05/19/22 13:11	SP	TAL SAC
Total/NA	Pre Prep	Filter to Air					588788	05/19/22 05:30	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	588793	05/19/22 06:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			589263	05/20/22 12:53	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0339 g	589341	05/16/22 11:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1897

Lab Sample ID: 320-87858-8

Date Collected: 05/12/22 06:43

Matrix: Air

Date Received: 05/13/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			589342	05/16/22 11:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-87858-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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

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

Method Summary

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

Job ID: 320-87858-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-87858-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-87858-1	GILBANEPM041222-1894	Air	05/11/22 06:30	05/13/22 09:35
320-87858-2	GILBANETSP041222-1894	Air	05/11/22 06:30	05/13/22 09:35
320-87858-3	GILBANEPM041222-1895	Air	05/11/22 06:20	05/13/22 09:35
320-87858-4	GILBANETSP041222-1895	Air	05/11/22 06:20	05/13/22 09:35
320-87858-5	GILBANEPM041222-1896	Air	05/12/22 06:52	05/13/22 09:35
320-87858-6	GILBANETSP041222-1896	Air	05/12/22 06:52	05/13/22 09:35
320-87858-7	GILBANEPM041222-1897	Air	05/12/22 06:43	05/13/22 09:35
320-87858-8	GILBANETSP041222-1897	Air	05/12/22 06:43	05/13/22 09:35

- 1
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- 11
- 12
- 13
- 14

**CHAIN-OF-CUSTODY
RECORD**

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bwomack@ges-ais.com

COC # KT051222AIR



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

Comments:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None

Equipment:

320-87858 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring May 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs)	Cooler	Comments
1	A	05/11/2022	0630	KT	X	X	X	AMSE1	N1	0.00	0.00	VOLUME: 1730.86 (M3)
2	A	05/11/2022	0630	KT	X	X	X	AMSE1	N1	0.00	0.00	VOLUME: 1646.46 (M3)
3	A	05/11/2022	0620	KT	X	X	X	AMSE2	N1	0.00	0.00	VOLUME: 1725.97 (M3)
4	A	05/11/2022	0620	KT	X	X	X	AMSE2	N1	0.00	0.00	VOLUME: 1722.63 (M3)
5	A	05/12/2022	0652	KT	X	X	X	AMSE1	N1	0.00	0.00	VOLUME: 1767.37 (M3)
6	A	05/12/2022	0652	KT	X	X	X	AMSE1	N1	0.00	0.00	VOLUME: 1684.77 (M3)
7	A	05/12/2022	0643	KT	X	X	X	AMSE2	N1	0.00	0.00	VOLUME: 1757.78 (M3)
8	A	05/12/2022	0643	KT	X	X	X	AMSE2	N1	0.00	0.00	VOLUME: 1758.76 (M3)
9												
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	5/12/22	1600	Fedex	5/12/22	1600	Shipping Date: 5/12/2022 / FedEx 7768 3093 5431
				5/13/22	935	Received by Laboratory: (Signature, Date, Time) & condition

21.1°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-87858-1

Login Number: 87858

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-88029-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:
5/25/2022 3:18:26 PM

[REDACTED]
[REDACTED]
[REDACTED]

LINKS

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results through



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

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

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



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Definitions/Glossary

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

Job ID: 320-88029-1

Glossary

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

Case Narrative

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

Job ID: 320-88029-1

Job ID: 320-88029-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-88029-1

Comments

No additional comments.

Receipt

The samples were received on 5/18/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.9° C.

Metals

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

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

Detection Summary

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

Job ID: 320-88029-1

Client Sample ID: GILBANEPM041222-1898

Lab Sample ID: 320-88029-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.0022	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.037		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0069		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.9		0.94	0.94	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1898

Lab Sample ID: 320-88029-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	6.2878		0.9825	0.9825	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1899

Lab Sample ID: 320-88029-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0071		0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.035		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.016		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.94	0.94	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1899

Lab Sample ID: 320-88029-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.9378		0.9388	0.9388	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1900

Lab Sample ID: 320-88029-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0020		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.015		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0076		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1900

Lab Sample ID: 320-88029-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.9117		0.3024	0.3024	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1901

Lab Sample ID: 320-88029-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0058		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.013		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	30		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1901

Lab Sample ID: 320-88029-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	75.8279		0.2901	0.2901	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88029-1

Client Sample ID: GILBANEPM041222-1898

Lab Sample ID: 320-88029-1

Date Collected: 05/12/22 14:19

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.0022	0.00034	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:27	1
Copper	0.037		0.0045	0.00034	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:27	1
Manganese	0.0069		0.0022	0.00031	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.9		0.94	0.94	ug/m3			05/19/22 09:15	1

Client Sample ID: GILBANETSP041222-1898

Lab Sample ID: 320-88029-2

Date Collected: 05/12/22 14:19

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	6.2878		0.9825	0.9825	ug/m3 (Air)			05/19/22 09:15	1

Client Sample ID: GILBANEPM041222-1899

Lab Sample ID: 320-88029-3

Date Collected: 05/12/22 14:09

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0071		0.0023	0.00034	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:30	1
Copper	0.035		0.0045	0.00034	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:30	1
Manganese	0.016		0.0023	0.00032	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.94	0.94	ug/m3			05/19/22 09:15	1

Client Sample ID: GILBANETSP041222-1899

Lab Sample ID: 320-88029-4

Date Collected: 05/12/22 14:09

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.9378		0.9388	0.9388	ug/m3 (Air)			05/19/22 09:15	1

Client Sample ID: GILBANEPM041222-1900

Lab Sample ID: 320-88029-5

Date Collected: 05/17/22 06:48

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020		0.00069	0.00010	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:34	1
Copper	0.015		0.0014	0.00010	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:34	1
Manganese	0.0076		0.00069	0.000097	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:34	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88029-1

Client Sample ID: GILBANEPM041222-1900

Lab Sample ID: 320-88029-5

Date Collected: 05/17/22 06:48

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		0.29	0.29	ug/m3			05/19/22 09:15	1

Client Sample ID: GILBANETSP041222-1900

Lab Sample ID: 320-88029-6

Date Collected: 05/17/22 06:48

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.9117		0.3024	0.3024	ug/m3 (Air)			05/19/22 09:15	1

Client Sample ID: GILBANEPM041222-1901

Lab Sample ID: 320-88029-7

Date Collected: 05/17/22 06:37

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0058		0.00070	0.00010	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:37	1
Copper	0.013		0.0014	0.00010	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:37	1
Manganese	0.012		0.00070	0.000097	ug/m3 (Air)		05/23/22 07:00	05/23/22 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	30		0.29	0.29	ug/m3			05/19/22 09:15	1

Client Sample ID: GILBANETSP041222-1901

Lab Sample ID: 320-88029-8

Date Collected: 05/17/22 06:37

Matrix: Air

Date Received: 05/18/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	75.8279		0.2901	0.2901	ug/m3 (Air)			05/19/22 09:15	1

QC Sample Results

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

Job ID: 320-88029-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-589639/1-B
Matrix: Air
Analysis Batch: 589954

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 589655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/23/22 07:00	05/23/22 15:49	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/23/22 07:00	05/23/22 15:49	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/23/22 07:00	05/23/22 15:49	1

Lab Sample ID: LCS 320-589639/2-B
Matrix: Air
Analysis Batch: 589954

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 589655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.248		ug/m3 (Air)		103	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-589639/3-B
Matrix: Air
Analysis Batch: 589954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 589655

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.244		ug/m3 (Air)		102	86 - 111	2	15
Copper	0.240	0.244		ug/m3 (Air)		102	85 - 110	1	15
Manganese	0.240	0.251		ug/m3 (Air)		104	88 - 110	3	15

QC Association Summary

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

Job ID: 320-88029-1

Metals

Pre Prep Batch: 589639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	Filter to Air	
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	Filter to Air	
320-88029-5	GILBANEPM041222-1900	Total/NA	Air	Filter to Air	
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	Filter to Air	
MB 320-589639/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-589639/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-589639/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 589655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	3050B	589639
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	3050B	589639
320-88029-5	GILBANEPM041222-1900	Total/NA	Air	3050B	589639
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	3050B	589639
MB 320-589639/1-B	Method Blank	Total/NA	Air	3050B	589639
LCS 320-589639/2-B	Lab Control Sample	Total/NA	Air	3050B	589639
LCSD 320-589639/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	589639

Analysis Batch: 589954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	6020	589655
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	6020	589655
320-88029-5	GILBANEPM041222-1900	Total/NA	Air	6020	589655
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	6020	589655
MB 320-589639/1-B	Method Blank	Total/NA	Air	6020	589655
LCS 320-589639/2-B	Lab Control Sample	Total/NA	Air	6020	589655
LCSD 320-589639/3-B	Lab Control Sample Dup	Total/NA	Air	6020	589655

General Chemistry

Pre Prep Batch: 588931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-2	GILBANETSP041222-1898	Total/NA	Air	Filter to Air	
320-88029-4	GILBANETSP041222-1899	Total/NA	Air	Filter to Air	
320-88029-6	GILBANETSP041222-1900	Total/NA	Air	Filter to Air	
320-88029-8	GILBANETSP041222-1901	Total/NA	Air	Filter to Air	

Analysis Batch: 590258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-1	GILBANEPM041222-1898	Total/NA	Air	PM10	
320-88029-3	GILBANEPM041222-1899	Total/NA	Air	PM10	
320-88029-5	GILBANEPM041222-1900	Total/NA	Air	PM10	
320-88029-7	GILBANEPM041222-1901	Total/NA	Air	PM10	

Analysis Batch: 590259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88029-2	GILBANETSP041222-1898	Total/NA	Air	40CFR50 App B	588931
320-88029-4	GILBANETSP041222-1899	Total/NA	Air	40CFR50 App B	588931
320-88029-6	GILBANETSP041222-1900	Total/NA	Air	40CFR50 App B	588931
320-88029-8	GILBANETSP041222-1901	Total/NA	Air	40CFR50 App B	588931

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-88029-1

Client Sample ID: GILBANEPM041222-1898

Lab Sample ID: 320-88029-1

Date Collected: 05/12/22 14:19

Matrix: Air

Date Received: 05/18/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			589954	05/23/22 16:27	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0053 g	590258	05/19/22 09:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1898

Lab Sample ID: 320-88029-2

Date Collected: 05/12/22 14:19

Matrix: Air

Date Received: 05/18/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1899

Lab Sample ID: 320-88029-3

Date Collected: 05/12/22 14:09

Matrix: Air

Date Received: 05/18/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			589954	05/23/22 16:30	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0101 g	590258	05/19/22 09:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1899

Lab Sample ID: 320-88029-4

Date Collected: 05/12/22 14:09

Matrix: Air

Date Received: 05/18/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1900

Lab Sample ID: 320-88029-5

Date Collected: 05/17/22 06:48

Matrix: Air

Date Received: 05/18/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			589954	05/23/22 16:34	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0438 g	590258	05/19/22 09:15	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-88029-1

Client Sample ID: GILBANETSP041222-1900
Date Collected: 05/17/22 06:48
Date Received: 05/18/22 10:00

Lab Sample ID: 320-88029-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1901
Date Collected: 05/17/22 06:37
Date Received: 05/18/22 10:00

Lab Sample ID: 320-88029-7
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					589639	05/23/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	589655	05/23/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			589954	05/23/22 16:37	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0514 g	590258	05/19/22 09:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1901
Date Collected: 05/17/22 06:37
Date Received: 05/18/22 10:00

Lab Sample ID: 320-88029-8
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			590259	05/19/22 09:15	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					588931	05/19/22 11:55	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-88029-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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

- 1
- 2
- 3
- 4
- 5
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- 13
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Method Summary

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

Job ID: 320-88029-1

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

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-88029-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88029-1	GILBANEPM041222-1898	Air	05/12/22 14:19	05/18/22 10:00
320-88029-2	GILBANETSP041222-1898	Air	05/12/22 14:19	05/18/22 10:00
320-88029-3	GILBANEPM041222-1899	Air	05/12/22 14:09	05/18/22 10:00
320-88029-4	GILBANETSP041222-1899	Air	05/12/22 14:09	05/18/22 10:00
320-88029-5	GILBANEPM041222-1900	Air	05/17/22 06:48	05/18/22 10:00
320-88029-6	GILBANETSP041222-1900	Air	05/17/22 06:48	05/18/22 10:00
320-88029-7	GILBANEPM041222-1901	Air	05/17/22 06:37	05/18/22 10:00
320-88029-8	GILBANETSP041222-1901	Air	05/17/22 06:37	05/18/22 10:00

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT051722AIR



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

Comments:

Code Matrix
 A Air
 Code Container/Preservative
 1 1x 250-mL Plastic, 4 Degrees C
 1 1x Envelope, None

Equipment:

320-88029 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring May 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	05/12/2022	1419	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 533.96 (M3)
2	A	05/12/2022	1419	KT	X	X		AMSE1	N2	0.00 0.00	1	VOLUME: 508.92 (M3)
3	A	05/12/2022	1409	KT	X	X		AMSE2	N2	0.00 0.00	1	VOLUME: 533.34 (M3)
4	A	05/12/2022	1409	KT	X	X		AMSE2	N2	0.00 0.00	1	VOLUME: 532.62 (M3)
5	A	05/17/2022	0648	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1733.43 (M3)
6	A	05/17/2022	0648	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1653.65 (M3)
7	A	05/17/2022	0637	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1723.16 (M3)
8	A	05/17/2022	0637	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1723.64 (M3)
9												
10												

Turnaround Time: 5 days

Received by: (Signature) [Redacted]

Date: 5/17/22 Time: 1600

Shipping Date / Carrier / Airbill Number
 Shipping Date: 5/17/2022 / FedEx 7768 6833 0415

Received by Laboratory: (Signature, Date, Time) & condition



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88029-1

Login Number: 88029

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-88125-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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



Authorized for release by:
5/27/2022 6:13:22 PM



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

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

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

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Definitions/Glossary

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

Job ID: 320-88125-1

Glossary

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

Case Narrative

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

Job ID: 320-88125-1

Job ID: 320-88125-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-88125-1

Comments

No additional comments.

Receipt

The samples were received on 5/20/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.6° C.

Metals

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

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Detection Summary

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

Job ID: 320-88125-1

Client Sample ID: GILBANEPM041222-1902

Lab Sample ID: 320-88125-1

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	0.037		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0050		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	36		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1902

Lab Sample ID: 320-88125-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	51.5551		0.3015	0.3015	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1903

Lab Sample ID: 320-88125-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0036		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0069		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	35		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1903

Lab Sample ID: 320-88125-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	58.5352		0.2884	0.2884	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1904

Lab Sample ID: 320-88125-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0029		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.092		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0081		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	39		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1904

Lab Sample ID: 320-88125-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	49.0278		0.3000	0.3000	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1905

Lab Sample ID: 320-88125-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0022		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1905

Lab Sample ID: 320-88125-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	48.6524		0.2886	0.2886	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88125-1

Client Sample ID: GILBANEPM041222-1902

Lab Sample ID: 320-88125-1

Date Collected: 05/18/22 06:42

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0018		0.00069	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:05	1
Copper	0.037		0.0014	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:05	1
Manganese	0.0050		0.00069	0.000097	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	36		0.29	0.29	ug/m3			05/23/22 10:30	1

Client Sample ID: GILBANETSP041222-1902

Lab Sample ID: 320-88125-2

Date Collected: 05/18/22 06:42

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	51.5551		0.3015	0.3015	ug/m3 (Air)			05/23/22 10:30	1

Client Sample ID: GILBANEPM041222-1903

Lab Sample ID: 320-88125-3

Date Collected: 05/18/22 06:31

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036		0.00070	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:21	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:21	1
Manganese	0.0069		0.00070	0.000098	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35		0.29	0.29	ug/m3			05/23/22 10:30	1

Client Sample ID: GILBANETSP041222-1903

Lab Sample ID: 320-88125-4

Date Collected: 05/18/22 06:31

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	58.5352		0.2884	0.2884	ug/m3 (Air)			05/23/22 10:30	1

Client Sample ID: GILBANEPM041222-1904

Lab Sample ID: 320-88125-5

Date Collected: 05/19/22 06:37

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029		0.00069	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:24	1
Copper	0.092		0.0014	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:24	1
Manganese	0.0081		0.00069	0.000096	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:24	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88125-1

Client Sample ID: GILBANEPM041222-1904

Lab Sample ID: 320-88125-5

Date Collected: 05/19/22 06:37

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	39		0.29	0.29	ug/m3			05/23/22 10:30	1

Client Sample ID: GILBANETSP041222-1904

Lab Sample ID: 320-88125-6

Date Collected: 05/19/22 06:37

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.0278		0.3000	0.3000	ug/m3 (Air)			05/23/22 10:30	1

Client Sample ID: GILBANEPM041222-1905

Lab Sample ID: 320-88125-7

Date Collected: 05/19/22 06:26

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0022		0.00069	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:28	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:28	1
Manganese	0.0052		0.00069	0.000097	ug/m3 (Air)		05/26/22 08:15	05/26/22 10:28	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			05/23/22 10:30	1

Client Sample ID: GILBANETSP041222-1905

Lab Sample ID: 320-88125-8

Date Collected: 05/19/22 06:26

Matrix: Air

Date Received: 05/20/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.6524		0.2886	0.2886	ug/m3 (Air)			05/23/22 10:30	1

QC Sample Results

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

Job ID: 320-88125-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-590573/1-B
Matrix: Air
Analysis Batch: 590913

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 590589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/26/22 08:15	05/26/22 09:55	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/26/22 08:15	05/26/22 09:55	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		05/26/22 08:15	05/26/22 09:55	1

Lab Sample ID: LCS 320-590573/2-B
Matrix: Air
Analysis Batch: 590913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 590589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.248		ug/m3 (Air)		103	86 - 111
Copper	0.240	0.229		ug/m3 (Air)		95	85 - 110
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110

Lab Sample ID: LCSD 320-590573/3-B
Matrix: Air
Analysis Batch: 590913

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 590589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.246		ug/m3 (Air)		103	86 - 111	1	15
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110	1	15
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110	1	15

QC Association Summary

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

Job ID: 320-88125-1

Metals

Pre Prep Batch: 590573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	Filter to Air	
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	Filter to Air	
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	Filter to Air	
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	Filter to Air	
MB 320-590573/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-590573/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-590573/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 590589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	3050B	590573
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	3050B	590573
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	3050B	590573
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	3050B	590573
MB 320-590573/1-B	Method Blank	Total/NA	Air	3050B	590573
LCS 320-590573/2-B	Lab Control Sample	Total/NA	Air	3050B	590573
LCSD 320-590573/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	590573

Analysis Batch: 590913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	6020	590589
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	6020	590589
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	6020	590589
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	6020	590589
MB 320-590573/1-B	Method Blank	Total/NA	Air	6020	590589
LCS 320-590573/2-B	Lab Control Sample	Total/NA	Air	6020	590589
LCSD 320-590573/3-B	Lab Control Sample Dup	Total/NA	Air	6020	590589

General Chemistry

Pre Prep Batch: 591174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-2	GILBANETSP041222-1902	Total/NA	Air	Filter to Air	
320-88125-4	GILBANETSP041222-1903	Total/NA	Air	Filter to Air	
320-88125-6	GILBANETSP041222-1904	Total/NA	Air	Filter to Air	
320-88125-8	GILBANETSP041222-1905	Total/NA	Air	Filter to Air	

Analysis Batch: 591175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-1	GILBANEPM041222-1902	Total/NA	Air	PM10	
320-88125-3	GILBANEPM041222-1903	Total/NA	Air	PM10	
320-88125-5	GILBANEPM041222-1904	Total/NA	Air	PM10	
320-88125-7	GILBANEPM041222-1905	Total/NA	Air	PM10	

Analysis Batch: 591176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88125-2	GILBANETSP041222-1902	Total/NA	Air	40CFR50 App B	591174
320-88125-4	GILBANETSP041222-1903	Total/NA	Air	40CFR50 App B	591174
320-88125-6	GILBANETSP041222-1904	Total/NA	Air	40CFR50 App B	591174
320-88125-8	GILBANETSP041222-1905	Total/NA	Air	40CFR50 App B	591174

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-88125-1

Client Sample ID: GILBANEPM041222-1902

Lab Sample ID: 320-88125-1

Date Collected: 05/18/22 06:42

Matrix: Air

Date Received: 05/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:05	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0618 g	591175	05/23/22 10:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1902

Lab Sample ID: 320-88125-2

Date Collected: 05/18/22 06:42

Matrix: Air

Date Received: 05/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1903

Lab Sample ID: 320-88125-3

Date Collected: 05/18/22 06:31

Matrix: Air

Date Received: 05/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:21	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0595 g	591175	05/23/22 10:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1903

Lab Sample ID: 320-88125-4

Date Collected: 05/18/22 06:31

Matrix: Air

Date Received: 05/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1904

Lab Sample ID: 320-88125-5

Date Collected: 05/19/22 06:37

Matrix: Air

Date Received: 05/20/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:24	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0673 g	591175	05/23/22 10:30	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-88125-1

Client Sample ID: GILBANETSP041222-1904
Date Collected: 05/19/22 06:37
Date Received: 05/20/22 10:00

Lab Sample ID: 320-88125-6
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1905
Date Collected: 05/19/22 06:26
Date Received: 05/20/22 10:00

Lab Sample ID: 320-88125-7
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					590573	05/26/22 07:44	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	590589	05/26/22 08:15	NIM	TAL SAC
Total/NA	Analysis	6020		1			590913	05/26/22 10:28	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0552 g	591175	05/23/22 10:30	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1905
Date Collected: 05/19/22 06:26
Date Received: 05/20/22 10:00

Lab Sample ID: 320-88125-8
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			591176	05/23/22 10:30	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-88125-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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



Method Summary

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

Job ID: 320-88125-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-88125-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88125-1	GILBANEPM041222-1902	Air	05/18/22 06:42	05/20/22 10:00
320-88125-2	GILBANETSP041222-1902	Air	05/18/22 06:42	05/20/22 10:00
320-88125-3	GILBANEPM041222-1903	Air	05/18/22 06:31	05/20/22 10:00
320-88125-4	GILBANETSP041222-1903	Air	05/18/22 06:31	05/20/22 10:00
320-88125-5	GILBANEPM041222-1904	Air	05/19/22 06:37	05/20/22 10:00
320-88125-6	GILBANETSP041222-1904	Air	05/19/22 06:37	05/20/22 10:00
320-88125-7	GILBANEPM041222-1905	Air	05/19/22 06:26	05/20/22 10:00
320-88125-8	GILBANETSP041222-1905	Air	05/19/22 06:26	05/20/22 10:00

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT051922AIR



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

Comments:

Equipment:

Analytical Test Method

Code	Matrix
A	Air
Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Sample Type	Depth (ft bgs)		Cooler	Comments
									Top	Bottom		
1	GILBANEPM041222-1902	05/18/2022	0642	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1735.36 (M3)
2	GILBANETSP041222-1902	05/18/2022	0642	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1658.42 (M3)
3	GILBANEPM041222-1903	05/18/2022	0631	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1718.87 (M3)
4	GILBANETSP041222-1903	05/18/2022	0631	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1734.00 (M3)
5	GILBANEPM041222-1904	05/19/2022	0637	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1741.13 (M3)
6	GILBANETSP041222-1904	05/19/2022	0637	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1666.40 (M3)
7	GILBANEPM041222-1905	05/19/2022	0626	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1728.36 (M3)
8	GILBANETSP041222-1905	05/19/2022	0626	KT	X	X	X	N1	0.00	0.00	1	VOLUME: 1732.70 (M3)
9												
10												

Turnaround Time: 5 days

Received by: (Signature)	Date	Time
[Signature]	5/19/22	1600
Received by Laboratory: (Signature, Date, Time) & condition	Date	Time
[Signature]	5-20-22	1030
Shipping Date / Carrier / Airbill Number	Shipping Date: 5/19/2022 / FedEx 7768 9600 6191	



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88125-1

Login Number: 88125

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1256035
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

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

Laboratory Job ID: 320-88295-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:
6/2/2022 5:27:40 PM

[REDACTED]
[REDACTED]
[REDACTED]

LINKS

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

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

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



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Definitions/Glossary

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

Job ID: 320-88295-1

Qualifiers

Metals

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

Glossary

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

Case Narrative

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

Job ID: 320-88295-1

Job ID: 320-88295-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-88295-1

Comments

No additional comments.

Receipt

The samples were received on 5/25/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.6° C.

Metals

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

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Detection Summary

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

Job ID: 320-88295-1

Client Sample ID: GILBANEPM041222-1906

Lab Sample ID: 320-88295-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0069		0.0022	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.038		0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.022	B	0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	56		0.90	0.90	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1906

Lab Sample ID: 320-88295-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	96.6364		1.0369	1.0369	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM041222-1907

Lab Sample ID: 320-88295-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.013		0.0022	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.023	B	0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	55		0.90	0.90	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP041222-1907

Lab Sample ID: 320-88295-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	96.5022		0.8969	0.8969	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1908

Lab Sample ID: 320-88295-5

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	0.026		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0073	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	42		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1908

Lab Sample ID: 320-88295-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	59.0590		0.3051	0.3051	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1909

Lab Sample ID: 320-88295-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.015		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0075	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	38		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1909

Lab Sample ID: 320-88295-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	61.6679		0.2914	0.2914	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88295-1

Client Sample ID: GILBANEPM041222-1906

Lab Sample ID: 320-88295-1

Date Collected: 05/19/22 14:21

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0069		0.0022	0.00032	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:29	1
Copper	0.038		0.0043	0.00032	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:29	1
Manganese	0.022	B	0.0022	0.00030	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	56		0.90	0.90	ug/m3			05/26/22 08:15	1

Client Sample ID: GILBANETSP041222-1906

Lab Sample ID: 320-88295-2

Date Collected: 05/19/22 14:21

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	96.6364		1.0369	1.0369	ug/m3 (Air)			05/26/22 15:19	1

Client Sample ID: GILBANEPM041222-1907

Lab Sample ID: 320-88295-3

Date Collected: 05/19/22 14:11

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.0022	0.00032	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:38	1
Copper	0.029		0.0043	0.00032	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:38	1
Manganese	0.023	B	0.0022	0.00030	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	55		0.90	0.90	ug/m3			05/26/22 08:15	1

Client Sample ID: GILBANETSP041222-1907

Lab Sample ID: 320-88295-4

Date Collected: 05/19/22 14:11

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	96.5022		0.8969	0.8969	ug/m3 (Air)			05/26/22 15:19	1

Client Sample ID: GILBANEPM042622-1908

Lab Sample ID: 320-88295-5

Date Collected: 05/24/22 06:46

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0048		0.00070	0.00010	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:41	1
Copper	0.026		0.0014	0.00010	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:41	1
Manganese	0.0073	B	0.00070	0.000098	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:41	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88295-1

Client Sample ID: GILBANEPM042622-1908

Lab Sample ID: 320-88295-5

Date Collected: 05/24/22 06:46

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	42		0.29	0.29	ug/m3			05/26/22 08:15	1

Client Sample ID: GILBANETSP042622-1908

Lab Sample ID: 320-88295-6

Date Collected: 05/24/22 06:46

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.0590		0.3051	0.3051	ug/m3 (Air)			05/26/22 15:19	1

Client Sample ID: GILBANEPM042622-1909

Lab Sample ID: 320-88295-7

Date Collected: 05/24/22 06:36

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030		0.00070	0.00010	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:45	1
Copper	0.015		0.0014	0.00010	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:45	1
Manganese	0.0075	B	0.00070	0.000098	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	38		0.29	0.29	ug/m3			05/26/22 08:15	1

Client Sample ID: GILBANETSP042622-1909

Lab Sample ID: 320-88295-8

Date Collected: 05/24/22 06:36

Matrix: Air

Date Received: 05/25/22 10:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.6679		0.2914	0.2914	ug/m3 (Air)			05/26/22 15:19	1

QC Sample Results

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

Job ID: 320-88295-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-591367/1-B
Matrix: Air
Analysis Batch: 591672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:19	1
Manganese	0.000229	J	0.0012	0.00017	ug/m3 (Air)		05/31/22 06:00	05/31/22 13:19	1

Lab Sample ID: MB 320-591367/1-B
Matrix: Air
Analysis Batch: 591951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		05/31/22 06:00	06/01/22 13:44	1

Lab Sample ID: LCS 320-591367/2-B
Matrix: Air
Analysis Batch: 591672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.253		ug/m3 (Air)		106	86 - 111
Copper	0.240	0.235		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-591367/3-B
Matrix: Air
Analysis Batch: 591672

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 591419

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Lead	0.240	0.254		ug/m3 (Air)		106	86 - 111	0	15
Copper	0.240	0.229		ug/m3 (Air)		95	85 - 110	3	15
Manganese	0.240	0.234		ug/m3 (Air)		98	88 - 110	4	15

QC Association Summary

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

Job ID: 320-88295-1

Metals

Pre Prep Batch: 591367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-1	GILBANEPM041222-1906	Total/NA	Air	Filter to Air	
320-88295-3	GILBANEPM041222-1907	Total/NA	Air	Filter to Air	
320-88295-5	GILBANEPM042622-1908	Total/NA	Air	Filter to Air	
320-88295-7	GILBANEPM042622-1909	Total/NA	Air	Filter to Air	
MB 320-591367/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-591367/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-591367/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 591419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-1	GILBANEPM041222-1906	Total/NA	Air	3050B	591367
320-88295-3	GILBANEPM041222-1907	Total/NA	Air	3050B	591367
320-88295-5	GILBANEPM042622-1908	Total/NA	Air	3050B	591367
320-88295-7	GILBANEPM042622-1909	Total/NA	Air	3050B	591367
MB 320-591367/1-B	Method Blank	Total/NA	Air	3050B	591367
LCS 320-591367/2-B	Lab Control Sample	Total/NA	Air	3050B	591367
LCSD 320-591367/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	591367

Analysis Batch: 591672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-1	GILBANEPM041222-1906	Total/NA	Air	6020	591419
320-88295-3	GILBANEPM041222-1907	Total/NA	Air	6020	591419
320-88295-5	GILBANEPM042622-1908	Total/NA	Air	6020	591419
320-88295-7	GILBANEPM042622-1909	Total/NA	Air	6020	591419
MB 320-591367/1-B	Method Blank	Total/NA	Air	6020	591419
LCS 320-591367/2-B	Lab Control Sample	Total/NA	Air	6020	591419
LCSD 320-591367/3-B	Lab Control Sample Dup	Total/NA	Air	6020	591419

Analysis Batch: 591951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-591367/1-B	Method Blank	Total/NA	Air	6020	591419

General Chemistry

Pre Prep Batch: 591174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-2	GILBANETSP041222-1906	Total/NA	Air	Filter to Air	
320-88295-4	GILBANETSP041222-1907	Total/NA	Air	Filter to Air	
320-88295-6	GILBANETSP042622-1908	Total/NA	Air	Filter to Air	
320-88295-8	GILBANETSP042622-1909	Total/NA	Air	Filter to Air	

Analysis Batch: 592291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-1	GILBANEPM041222-1906	Total/NA	Air	PM10	
320-88295-3	GILBANEPM041222-1907	Total/NA	Air	PM10	
320-88295-5	GILBANEPM042622-1908	Total/NA	Air	PM10	
320-88295-7	GILBANEPM042622-1909	Total/NA	Air	PM10	

Analysis Batch: 592292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-2	GILBANETSP041222-1906	Total/NA	Air	40CFR50 App B	591174

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-88295-1

General Chemistry (Continued)

Analysis Batch: 592292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88295-4	GILBANETSP041222-1907	Total/NA	Air	40CFR50 App B	591174
320-88295-6	GILBANETSP042622-1908	Total/NA	Air	40CFR50 App B	591174
320-88295-8	GILBANETSP042622-1909	Total/NA	Air	40CFR50 App B	591174

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Lab Chronicle

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

Job ID: 320-88295-1

Client Sample ID: GILBANEPM041222-1906

Lab Sample ID: 320-88295-1

Date Collected: 05/19/22 14:21

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:29	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0310 g	592291	05/26/22 08:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1906

Lab Sample ID: 320-88295-2

Date Collected: 05/19/22 14:21

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			592292	05/26/22 15:19	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM041222-1907

Lab Sample ID: 320-88295-3

Date Collected: 05/19/22 14:11

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:38	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0304 g	592291	05/26/22 08:15	JMD	TAL SAC

Client Sample ID: GILBANETSP041222-1907

Lab Sample ID: 320-88295-4

Date Collected: 05/19/22 14:11

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			592292	05/26/22 15:19	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1908

Lab Sample ID: 320-88295-5

Date Collected: 05/24/22 06:46

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:41	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0726 g	592291	05/26/22 08:15	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-88295-1

Client Sample ID: GILBANETSP042622-1908

Lab Sample ID: 320-88295-6

Date Collected: 05/24/22 06:46

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			592292	05/26/22 15:19	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1909

Lab Sample ID: 320-88295-7

Date Collected: 05/24/22 06:36

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					591367	05/31/22 05:34	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	591419	05/31/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			591672	05/31/22 13:45	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0659 g	592291	05/26/22 08:15	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1909

Lab Sample ID: 320-88295-8

Date Collected: 05/24/22 06:36

Matrix: Air

Date Received: 05/25/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			592292	05/26/22 15:19	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					591174	05/27/22 15:50	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-88295-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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

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Method Summary

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

Job ID: 320-88295-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-88295-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88295-1	GILBANEPM041222-1906	Air	05/19/22 14:21	05/25/22 10:30
320-88295-2	GILBANETSP041222-1906	Air	05/19/22 14:21	05/25/22 10:30
320-88295-3	GILBANEPM041222-1907	Air	05/19/22 14:11	05/25/22 10:30
320-88295-4	GILBANETSP041222-1907	Air	05/19/22 14:11	05/25/22 10:30
320-88295-5	GILBANEPM042622-1908	Air	05/24/22 06:46	05/25/22 10:30
320-88295-6	GILBANETSP042622-1908	Air	05/24/22 06:46	05/25/22 10:30
320-88295-7	GILBANEPM042622-1909	Air	05/24/22 06:36	05/25/22 10:30
320-88295-8	GILBANETSP042622-1909	Air	05/24/22 06:36	05/25/22 10:30

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
Brett Wormack
2300 Clayton Road, Suite 1050, Concord, CA 94520
bwormack@ges-ais.com

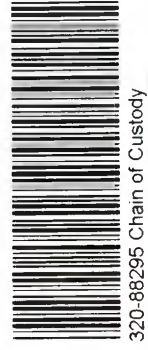
COC # KT052422AIR



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

Comments:

Code	Matrix
A	Air
Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



Equipment:

Analytical Test Method
 CAIR - Air PM10
 N0500 - Air TSP
 SW6020 - Air Pb Mn Cu

Event: Parcel E Phase 2 Air Monitoring May 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	05/19/2022	1421	KT	X		X	AMSE1	N2	0.00 0.00	1	VOLUME: 554.34 (M3)
2	A	05/19/2022	1421	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 482.22 (M3)
3	A	05/19/2022	1411	KT	X		X	AMSE2	N2	0.00 0.00	1	VOLUME: 554.66 (M3)
4	A	05/19/2022	1411	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 557.50 (M3)
5	A	05/24/2022	0646	KT	X		X	AMSE1	N1	0.00 0.00	1	VOLUME: 1719.02 (M3)
6	A	05/24/2022	0646	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1639.04 (M3)
7	A	05/24/2022	0636	KT	X		X	AMSE2	N1	0.00 0.00	1	VOLUME: 1714.42 (M3)
8	A	05/24/2022	0636	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1715.64 (M3)
9												
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	05/24/2022	1600	[Redacted]	05/24/22	1600	Shipping Date: 5/24/2022 / FedEx 7769 4412 4751
			[Redacted]	05/24/22	1030	Received by Laboratory: (Signature, Date, Time) & condition

GES.Navy.COC_Field
May 24, 2022

17.6°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88295-1

Login Number: 88295

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-88398-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:
6/6/2022 4:12:14 PM

[REDACTED]
[REDACTED]
[REDACTED]

LINKS

Review your project
results through



Have a Question?



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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

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

Job ID: 320-88398-1

Glossary

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

Case Narrative

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

Job ID: 320-88398-1

Job ID: 320-88398-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-88398-1

Comments

No additional comments.

Receipt

The samples were received on 5/27/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.1° C.

Metals

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

- 1
- 2
- 3
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Detection Summary

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

Job ID: 320-88398-1

Client Sample ID: GILBANEPM042622-1910

Lab Sample ID: 320-88398-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.19		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0093		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	37		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1910

Lab Sample ID: 320-88398-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	48.9565		0.2992	0.2992	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1911

Lab Sample ID: 320-88398-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0032		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.031		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0073		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1911

Lab Sample ID: 320-88398-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.3829		0.2864	0.2864	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1912

Lab Sample ID: 320-88398-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.010		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.034		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	86		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1912

Lab Sample ID: 320-88398-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	116.7067		0.3034	0.3034	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1913

Lab Sample ID: 320-88398-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0063		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.028		0.0014	0.00010	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	24		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1913

Lab Sample ID: 320-88398-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.6606		0.2902	0.2902	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88398-1

Client Sample ID: GILBANEPM042622-1910

Lab Sample ID: 320-88398-1

Date Collected: 05/25/22 06:48

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.00068	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:07	1
Copper	0.19		0.0014	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:07	1
Manganese	0.0093		0.00068	0.000096	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	37		0.29	0.29	ug/m3			05/31/22 08:00	1

Client Sample ID: GILBANETSP042622-1910

Lab Sample ID: 320-88398-2

Date Collected: 05/25/22 06:48

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.9565		0.2992	0.2992	ug/m3 (Air)			05/31/22 08:00	1

Client Sample ID: GILBANEPM042622-1911

Lab Sample ID: 320-88398-3

Date Collected: 05/25/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032		0.00069	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:16	1
Copper	0.031		0.0014	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:16	1
Manganese	0.0073		0.00069	0.000097	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			05/31/22 08:00	1

Client Sample ID: GILBANETSP042622-1911

Lab Sample ID: 320-88398-4

Date Collected: 05/25/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.3829		0.2864	0.2864	ug/m3 (Air)			05/31/22 08:00	1

Client Sample ID: GILBANEPM042622-1912

Lab Sample ID: 320-88398-5

Date Collected: 05/26/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.010		0.00070	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:19	1
Copper	0.12		0.0014	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:19	1
Manganese	0.034		0.00070	0.000097	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:19	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88398-1

Client Sample ID: GILBANEPM042622-1912

Lab Sample ID: 320-88398-5

Date Collected: 05/26/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	86		0.29	0.29	ug/m3			05/31/22 08:00	1

Client Sample ID: GILBANETSP042622-1912

Lab Sample ID: 320-88398-6

Date Collected: 05/26/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	116.7067		0.3034	0.3034	ug/m3 (Air)			05/31/22 08:00	1

Client Sample ID: GILBANEPM042622-1913

Lab Sample ID: 320-88398-7

Date Collected: 05/26/22 06:27

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0063		0.00070	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:23	1
Copper	0.028		0.0014	0.00010	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:23	1
Manganese	0.014		0.00070	0.000098	ug/m3 (Air)		06/02/22 08:53	06/02/22 15:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	24		0.29	0.29	ug/m3			05/31/22 08:00	1

Client Sample ID: GILBANETSP042622-1913

Lab Sample ID: 320-88398-8

Date Collected: 05/26/22 06:27

Matrix: Air

Date Received: 05/27/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.6606		0.2902	0.2902	ug/m3 (Air)			05/31/22 08:00	1

QC Sample Results

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

Job ID: 320-88398-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-592059/1-B
Matrix: Air
Analysis Batch: 592447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/02/22 08:53	06/02/22 13:58	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/02/22 08:53	06/02/22 13:58	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/02/22 08:53	06/02/22 13:58	1

Lab Sample ID: LCS 320-592059/2-B
Matrix: Air
Analysis Batch: 592447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592083

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.245		ug/m3 (Air)		102	86 - 111
Copper	0.240	0.236		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.246		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCSD 320-592059/3-B
Matrix: Air
Analysis Batch: 592447

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 592083

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.246		ug/m3 (Air)		102	86 - 111	0	15
Copper	0.240	0.236		ug/m3 (Air)		98	85 - 110	0	15
Manganese	0.240	0.244		ug/m3 (Air)		102	88 - 110	1	15

QC Association Summary

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

Job ID: 320-88398-1

Metals

Pre Prep Batch: 592059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	Filter to Air	
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	Filter to Air	
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	Filter to Air	
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	Filter to Air	
MB 320-592059/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-592059/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-592059/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 592083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	3050B	592059
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	3050B	592059
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	3050B	592059
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	3050B	592059
MB 320-592059/1-B	Method Blank	Total/NA	Air	3050B	592059
LCS 320-592059/2-B	Lab Control Sample	Total/NA	Air	3050B	592059
LCSD 320-592059/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	592059

Analysis Batch: 592447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	6020	592083
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	6020	592083
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	6020	592083
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	6020	592083
MB 320-592059/1-B	Method Blank	Total/NA	Air	6020	592083
LCS 320-592059/2-B	Lab Control Sample	Total/NA	Air	6020	592083
LCSD 320-592059/3-B	Lab Control Sample Dup	Total/NA	Air	6020	592083

General Chemistry

Pre Prep Batch: 593195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-2	GILBANETSP042622-1910	Total/NA	Air	Filter to Air	
320-88398-4	GILBANETSP042622-1911	Total/NA	Air	Filter to Air	
320-88398-6	GILBANETSP042622-1912	Total/NA	Air	Filter to Air	
320-88398-8	GILBANETSP042622-1913	Total/NA	Air	Filter to Air	

Analysis Batch: 593213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-1	GILBANEPM042622-1910	Total/NA	Air	PM10	
320-88398-3	GILBANEPM042622-1911	Total/NA	Air	PM10	
320-88398-5	GILBANEPM042622-1912	Total/NA	Air	PM10	
320-88398-7	GILBANEPM042622-1913	Total/NA	Air	PM10	

Analysis Batch: 593224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88398-2	GILBANETSP042622-1910	Total/NA	Air	40CFR50 App B	593195
320-88398-4	GILBANETSP042622-1911	Total/NA	Air	40CFR50 App B	593195
320-88398-6	GILBANETSP042622-1912	Total/NA	Air	40CFR50 App B	593195
320-88398-8	GILBANETSP042622-1913	Total/NA	Air	40CFR50 App B	593195

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-88398-1

Client Sample ID: GILBANEPM042622-1910

Lab Sample ID: 320-88398-1

Date Collected: 05/25/22 06:48

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					592059	06/02/22 08:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	592083	06/02/22 08:53	NIM	TAL SAC
Total/NA	Analysis	6020		1			592447	06/02/22 15:07	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0654 g	593213	05/31/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1910

Lab Sample ID: 320-88398-2

Date Collected: 05/25/22 06:48

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			593224	05/31/22 08:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					593195	06/06/22 14:57	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1911

Lab Sample ID: 320-88398-3

Date Collected: 05/25/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					592059	06/02/22 08:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	592083	06/02/22 08:53	NIM	TAL SAC
Total/NA	Analysis	6020		1			592447	06/02/22 15:16	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0541 g	593213	05/31/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1911

Lab Sample ID: 320-88398-4

Date Collected: 05/25/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			593224	05/31/22 08:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					593195	06/06/22 14:57	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1912

Lab Sample ID: 320-88398-5

Date Collected: 05/26/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					592059	06/02/22 08:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	592083	06/02/22 08:53	NIM	TAL SAC
Total/NA	Analysis	6020		1			592447	06/02/22 15:19	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.1491 g	593213	05/31/22 08:00	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-88398-1

Client Sample ID: GILBANETSP042622-1912

Lab Sample ID: 320-88398-6

Date Collected: 05/26/22 06:37

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			593224	05/31/22 08:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					593195	06/06/22 14:57	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1913

Lab Sample ID: 320-88398-7

Date Collected: 05/26/22 06:27

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					592059	06/02/22 08:16	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	592083	06/02/22 08:53	NIM	TAL SAC
Total/NA	Analysis	6020		1			592447	06/02/22 15:23	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0414 g	593213	05/31/22 08:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1913

Lab Sample ID: 320-88398-8

Date Collected: 05/26/22 06:27

Matrix: Air

Date Received: 05/27/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			593224	05/31/22 08:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					593195	06/06/22 14:57	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-88398-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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



Method Summary

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

Job ID: 320-88398-1

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

Protocol References:

40CFR50J = 40 CFR Part 50 Appendix J

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-88398-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88398-1	GILBANEPM042622-1910	Air	05/25/22 06:48	05/27/22 09:40
320-88398-2	GILBANETSP042622-1910	Air	05/25/22 06:48	05/27/22 09:40
320-88398-3	GILBANEPM042622-1911	Air	05/25/22 06:37	05/27/22 09:40
320-88398-4	GILBANETSP042622-1911	Air	05/25/22 06:37	05/27/22 09:40
320-88398-5	GILBANEPM042622-1912	Air	05/26/22 06:37	05/27/22 09:40
320-88398-6	GILBANETSP042622-1912	Air	05/26/22 06:37	05/27/22 09:40
320-88398-7	GILBANEPM042622-1913	Air	05/26/22 06:27	05/27/22 09:40
320-88398-8	GILBANETSP042622-1913	Air	05/26/22 06:27	05/27/22 09:40

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT052622AIR



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

Comments:

Equipment:

Analytical Test Method

CAIR - Air PM10
 N0500 - Air TSP
 SW6020 - Air Pb Mn Cu

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



320-88398 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring May 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GILBANEPM042622-1910	05/25/2022	0648	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1751.97 (M3)
2	GILBANETSP042622-1910	05/25/2022	0648	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1670.87 (M3)
3	GILBANEPM042622-1911	05/25/2022	0637	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1739.20 (M3)
4	GILBANETSP042622-1911	05/25/2022	0637	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1745.79 (M3)
5	GILBANEPM042622-1912	05/26/2022	0637	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1726.43 (M3)
6	GILBANETSP042622-1912	05/26/2022	0637	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1647.72 (M3)
7	GILBANEPM042622-1913	05/26/2022	0627	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1721.34 (M3)
8	GILBANETSP042622-1913	05/26/2022	0627	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1723.08 (M3)
9												
10												

Turnaround Time: 5 days

TP 5/26/22

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	5/26/22	1600	Fedex	5/26/22	1600	Shipping Date: 5/26/2022 / FedEx 7769 5677 1562
						Received by Laboratory: (Signature, Date, Time) & condition

19.12



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88398-1

Login Number: 88398

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-88535-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
6/10/2022 8:42:16 AM

[REDACTED]

LINKS

Review your project
results through



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www.eurofinsus.com/Env

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

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

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



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Definitions/Glossary

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

Job ID: 320-88535-1

Glossary

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

Case Narrative

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

Job ID: 320-88535-1

Job ID: 320-88535-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-88535-1

Comments

No additional comments.

Receipt

The samples were received on 6/2/2022 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.1° C.

Metals

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

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Detection Summary

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

Job ID: 320-88535-1

Client Sample ID: GILBANEPM042622-1914

Lab Sample ID: 320-88535-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.0025	0.00038	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0050	0.00038	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.0025	0.00035	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	24		1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1914

Lab Sample ID: 320-88535-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	35.5794		1.0914	1.0914	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM042622-1915

Lab Sample ID: 320-88535-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.0025	0.00038	ug/m3 (Air)	1		6020	Total/NA
Copper	0.052		0.0051	0.00038	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0089		0.0025	0.00035	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	17		1.1	1.1	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP042622-1915

Lab Sample ID: 320-88535-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.5473		1.0406	1.0406	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-88535-1

Client Sample ID: GILBANEPM042622-1914

Lab Sample ID: 320-88535-1

Date Collected: 05/26/22 13:17

Matrix: Air

Date Received: 06/02/22 09:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.0025	0.00038	ug/m3 (Air)		06/07/22 08:30	06/08/22 14:07	1
Copper	0.11		0.0050	0.00038	ug/m3 (Air)		06/07/22 08:30	06/08/22 14:07	1
Manganese	0.013		0.0025	0.00035	ug/m3 (Air)		06/07/22 08:30	06/08/22 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	24		1.0	1.0	ug/m3			06/03/22 11:00	1

Client Sample ID: GILBANETSP042622-1914

Lab Sample ID: 320-88535-2

Date Collected: 05/26/22 13:17

Matrix: Air

Date Received: 06/02/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	35.5794		1.0914	1.0914	ug/m3 (Air)			06/03/22 11:00	1

Client Sample ID: GILBANEPM042622-1915

Lab Sample ID: 320-88535-3

Date Collected: 05/26/22 13:06

Matrix: Air

Date Received: 06/02/22 09:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.0025	0.00038	ug/m3 (Air)		06/07/22 08:30	06/08/22 14:23	1
Copper	0.052		0.0051	0.00038	ug/m3 (Air)		06/07/22 08:30	06/08/22 14:23	1
Manganese	0.0089		0.0025	0.00035	ug/m3 (Air)		06/07/22 08:30	06/08/22 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	17		1.1	1.1	ug/m3			06/03/22 11:00	1

Client Sample ID: GILBANETSP042622-1915

Lab Sample ID: 320-88535-4

Date Collected: 05/26/22 13:06

Matrix: Air

Date Received: 06/02/22 09:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.5473		1.0406	1.0406	ug/m3 (Air)			06/03/22 11:00	1

QC Sample Results

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

Job ID: 320-88535-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-593357/1-B
Matrix: Air
Analysis Batch: 594087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 593375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		06/07/22 08:30	06/08/22 13:47	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		06/07/22 08:30	06/08/22 13:47	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		06/07/22 08:30	06/08/22 13:47	1

Lab Sample ID: LCS 320-593357/2-B
Matrix: Air
Analysis Batch: 594087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 593375

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.245		ug/m3 (Air)		102	86 - 111
Copper	0.240	0.249		ug/m3 (Air)		104	85 - 110
Manganese	0.240	0.253		ug/m3 (Air)		105	88 - 110

Lab Sample ID: LCSD 320-593357/3-B
Matrix: Air
Analysis Batch: 594087

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 593375

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.244		ug/m3 (Air)		102	86 - 111	0	15
Copper	0.240	0.252		ug/m3 (Air)		105	85 - 110	1	15
Manganese	0.240	0.255		ug/m3 (Air)		106	88 - 110	1	15

QC Association Summary

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

Job ID: 320-88535-1

Metals

Pre Prep Batch: 593357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-1	GILBANEPM042622-1914	Total/NA	Air	Filter to Air	
320-88535-3	GILBANEPM042622-1915	Total/NA	Air	Filter to Air	
MB 320-593357/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-593357/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-593357/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 593375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-1	GILBANEPM042622-1914	Total/NA	Air	3050B	593357
320-88535-3	GILBANEPM042622-1915	Total/NA	Air	3050B	593357
MB 320-593357/1-B	Method Blank	Total/NA	Air	3050B	593357
LCS 320-593357/2-B	Lab Control Sample	Total/NA	Air	3050B	593357
LCSD 320-593357/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	593357

Analysis Batch: 594087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-1	GILBANEPM042622-1914	Total/NA	Air	6020	593375
320-88535-3	GILBANEPM042622-1915	Total/NA	Air	6020	593375
MB 320-593357/1-B	Method Blank	Total/NA	Air	6020	593375
LCS 320-593357/2-B	Lab Control Sample	Total/NA	Air	6020	593375
LCSD 320-593357/3-B	Lab Control Sample Dup	Total/NA	Air	6020	593375

General Chemistry

Analysis Batch: 594204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-1	GILBANEPM042622-1914	Total/NA	Air	PM10	
320-88535-3	GILBANEPM042622-1915	Total/NA	Air	PM10	

Pre Prep Batch: 594206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-2	GILBANETSP042622-1914	Total/NA	Air	Filter to Air	
320-88535-4	GILBANETSP042622-1915	Total/NA	Air	Filter to Air	

Analysis Batch: 594207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88535-2	GILBANETSP042622-1914	Total/NA	Air	40CFR50 App B	594206
320-88535-4	GILBANETSP042622-1915	Total/NA	Air	40CFR50 App B	594206

Lab Chronicle

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

Job ID: 320-88535-1

Client Sample ID: GILBANEPM042622-1914

Lab Sample ID: 320-88535-1

Date Collected: 05/26/22 13:17

Matrix: Air

Date Received: 06/02/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					593357	06/07/22 07:23	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	593375	06/07/22 08:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			594087	06/08/22 14:07	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0114 g	594204	06/03/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1914

Lab Sample ID: 320-88535-2

Date Collected: 05/26/22 13:17

Matrix: Air

Date Received: 06/02/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			594207	06/03/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	JMD	TAL SAC

Client Sample ID: GILBANEPM042622-1915

Lab Sample ID: 320-88535-3

Date Collected: 05/26/22 13:06

Matrix: Air

Date Received: 06/02/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					593357	06/07/22 07:23	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	593375	06/07/22 08:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			594087	06/08/22 14:23	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0079 g	594204	06/03/22 11:00	JMD	TAL SAC

Client Sample ID: GILBANETSP042622-1915

Lab Sample ID: 320-88535-4

Date Collected: 05/26/22 13:06

Matrix: Air

Date Received: 06/02/22 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			594207	06/03/22 11:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					594206	06/09/22 15:54	JMD	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-88535-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-23

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

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

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

Method Summary

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

Job ID: 320-88535-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

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

Job ID: 320-88535-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88535-1	GILBANEPM042622-1914	Air	05/26/22 13:17	06/02/22 09:00
320-88535-2	GILBANETSP042622-1914	Air	05/26/22 13:17	06/02/22 09:00
320-88535-3	GILBANEPM042622-1915	Air	05/26/22 13:06	06/02/22 09:00
320-88535-4	GILBANETSP042622-1915	Air	05/26/22 13:06	06/02/22 09:00

- 1
- 2
- 3
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- 7
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- 11
- 12
- 13
- 14

**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
Brett Wornack
2300 Clayton Road, Suite 1050, Concord, CA 94520
bwornack@ges-ais.com

COC # KT052622AAIR



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

Comments:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x 250-mL Plastic, 4 Degrees C
1	1x Envelope, None



320-88535 Chain of Custody

Equipment:

Event: Parcel E Phase 2 Air Monitoring May 2022												
Sample ID	Matrix	Date	Time	Sampl Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	05/26/2022	1317	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 477.34 (M3)
2	A	05/26/2022	1317	KT	X	X		AMSE1	N2	0.00 0.00	1	VOLUME: 458.13 (M3)
3	A	05/26/2022	1306	KT	X	X		AMSE2	N2	0.00 0.00	1	VOLUME: 475.02 (M3)
4	A	05/26/2022	1306	KT	X	X		AMSE2	N2	0.00 0.00	1	VOLUME: 480.50 (M3)
5												
6												
7												
8												
9												
10												

Turnaround Time: 5 days

Received by: (Signature)	Date	Time
Fedex	5/31/22	1600
[Redacted]	6-2-22	0900
Received by Laboratory: (Signature, Date, Time) & condition		
[Redacted]		

Shipping Date / Carrier / Airbill Number
 Shipping Date: 5/31/2022 / FedEx 7769 9988 7660



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-88535-1

Login Number: 88535

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



Eurofins Sacramento
Corrective Action Report**Title: Filter Weights Missed****Reference:** 6894-20074**Initiated by:** [REDACTED]**Date:** 16 May 2022**Description of Problem:**

Prior to sending filters to samplers for field use, two constant weights are measured; then the average of the two weights is used as the tare weight of the filters. For several login groups' filters, a second weight was not acquired during the initial tare weight process. In order to acquire the tare weight of the filters, the value of the first weight was entered again in the second weight column on the particulate spreadsheet to allow calculation.

Investigation Planned or Completed:

For the analytical methods Particulate Matter by PM10 (PM10) and Total Suspended Particulate (TSP) samples' collection for the following login groups, it was found that the analyst at the time did not record a second weight for tare weight calculation: 320-87209, 320-87310, 320-87453, 320-87454, 320-87609 and 320-87735. The process for preparing air media (filters) for shipment was reviewed. It was found that the procedure is not well documented in the laboratory SOP. In addition, at the time these filters were prepared, a single analyst was trained in how to prepare the filters.

Root Cause Analysis

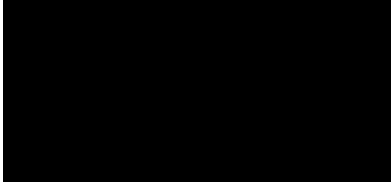
The root cause of not recording the second weight for tare weight calculation could not be definitively determined. It is presumed to be a user error resulting in either not performing or not saving the second weight. Contributing causes include the lack of a second analyst to review the media documentation prior to sending out and the lack of a defined procedure for documenting the media preparation.

Corrective Action Plan

To correct the presumed root cause of not recording the second weight for tare weight calculation in the Excel spreadsheet used, laboratory staff have been retrained regarding recording weights for PM10 and TSP; and staff have been trained to look for the initial weight instability check flag on the particulate data excel sheet when taking weights, as samples are flagged as "UNSTABLE" if two stable weights are not recorded. To correct the contributing causes and prevent recurrence, the laboratory has instituted a second-level review of the spreadsheets that contain the air filter initial masses prior to sending those filters out to clients. This review will be documented on the air media request form. In addition, a second analyst is to be trained on the process to provide redundancy for filter preparation. Finally, the SOP will be revised to include detailed direction for preparation of the filters and documentation of the preparation prior to sending to the client.

Eurofins TestAmerica Sacramento
Corrective Action Report
6894-20074 Filter Weights Missed

Reviewed by:



13 June 2022
Date



13 June 2022
Date