



**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

February 1st, 2022 through February 28th, 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 February 1st through February 28th, 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 Hunters Point Station (APTIM HPNS – KCASANFR1504) published at Weather Underground (www.wunderground.com). If the Hunters Point Station did not have available data, the following stations were used, depending upon availability:

- Bayview Manor - KCASANFR1775
- Bayview Weather - KCASANFR1755
- Bayview - Carroll Station - KCASANFR348

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 following Weather Underground (wunderground.com) stations, depending on availability:

- APTIM HPNS - KCASANFR1504
- Bayview Manor - KCASANFR1775
- Bayview Weather - KCASANFR1755
- Bayview - Carroll Station - KCASANFR348

Air Monitoring Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from February 1st through February 28th, 2022, during which Gilbane was grading, excavating, managing radiological screening yard pads and stockpiles, backfilling, importing, and transporting soil. 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 February 1st through February 28th, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from February 1st through February 28th, 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 February 1st through February 28th, 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 February 1st through February 28th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 5**.

Radiological air sampling results from February 1st through February 28th, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 6**.

Analytical laboratory reports are included as **Attachment 7** and were subjected to cursory review by the Project Chemist. No 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

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
2/1/2022 ¹	30.06	55.80	NW
2/2/2022 ¹	30.18	54.62	NNW
2/3/2022 ¹	30.23	56.60	NNW
2/7/2022 ²	30.37	55.20	NNE
2/8/2022 ²	30.29	56.65	S
2/9/2022 ²	30.23	61.02	SSW
2/10/2022 ²	30.20	68.94	SSW
2/14/2022 ²	30.10	50.54	W
2/15/2022 ²	30.05	55.49	NW
2/16/2022 ²	30.18	60.75	NNW
2/17/2022 ²	30.37	61.10	N
2/21/2022 ²	30.03	44.96	NW
2/22/2022 ²	30.04	45.74	WNW
2/23/2022 ²	30.27	47.19	NNE
2/24/2022 ²	30.39	50.15	SE
2/28/2022 ²	30.33	55.81	NW

Notes:

¹Data collected using wunderground.com from Bayview Manor - KCASANFR1775

²Data collected using wunderground.com from APTIM HPNS - KCASANFR1504

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2

ASBESTOS MONITORING RESULTS

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Attachment 2: Asbestos Monitoring Results

Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date ¹	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm ³)	Exceedance (Yes/No)
MSE01-020122	02/01/22	1	509	1018	15.5	0.007	No
MSE02-020122	02/01/22	2	526	1052	20.5	0.010	No
MSE01-020222	02/02/22	1	498	996	18.5	0.009	No
MSE02-020222	02/02/22	2	520	1040	14.0	0.007	No
MSE01-020322	02/03/22	1	489	978	15.5	0.008	No
MSE02-020322	02/03/22	2	494	988	11.0	0.005	No
MSE01-020722	02/07/22	1	496	992	12.0	0.006	No
MSE02-020722	02/07/22	2	521	1042	10.5	0.005	No
MSE01-020822	02/08/22	1	564	1128	12.0	0.005	No
MSE02-020822	02/08/22	2	572	1144	10.5	0.005	No
MSE01-020922	02/09/22	1	595	1190	16.5	0.007	No
MSE02-020922	02/09/22	2	599	1198	16.5	0.007	No
MSE01-021022	02/10/22	1	518	1036	17.5	0.008	No
MSE02-021022	02/10/22	2	513	1026	16.0	0.008	No
MSE01-021422	02/14/22	1	668	1336	16.5	0.006	No
MSE02-021422	02/14/22	2	649	1298	21.5	0.008	No
MSE01-021522	02/15/22	1	693	1386	18.5	0.007	No
MSE02-021522	02/15/22	2	711	1422	11.0	0.004	No
MSE01-021622	02/16/22	1	701	1402	15.5	0.005	No
MSE02-021622	02/16/22	2	725	1450	27.0	0.009	No
MSE01-021722	02/17/22	1	413	826	16.5	0.010	No
MSE02-021722	02/17/22	2	412	824	15.0	0.009	No
MSE01-022122	02/21/22	1	549	1098	16.0	0.007	No
MSE02-022122	02/21/22	2	569	1138	31.5	0.014	No
MSE01-022222	02/22/22	1	536	1072	23.0	0.011	No
MSE02-022222	02/22/22	2	545	1090	28.0	0.013	No
MSE01-022322	02/23/22	1	519	1038	15.5	0.007	No
MSE02-022322	02/23/22	2	526	1052	13.5	0.006	No
MSE01-022422	02/24/22	1	482	964	13.5	0.007	No
MSE02-022422	02/24/22	2	489	978	15.0	0.008	No
MSE01-022822	02/28/22	1	506	1012	21.0	0.010	No
MSE02-022822	02/28/22	2	536	1072	15.0	0.007	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

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							
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 ⁴ (ug/m ³)	Exceedance (Yes/No)
GILBANEPM010422-1712	1	2/1/2022	1684.52	0.033						
GILBANEPM010422-1713	2	2/1/2022	1710.88	0.026	-0.0070	-7.0	5,000	No	50	No
GILBANEPM010422-1715	1	2/2/2022	1733.13	0.038						
GILBANEPM010422-1716	2	2/2/2022	1743.94	0.0083	-0.0297	-29.7	5,000	No	50	No
GILBANEPM011822-1718	1	2/3/2022	1743.73	0.039						
GILBANEPM011822-1719	2	2/3/2022	1750.46	0.013	-0.0260	-26.0	5,000	No	50	No
GILBANEPM011822-1721	1	2/3/2022 ²	584.50	0.02						
GILBANEPM011822-1722	2	2/3/2022 ²	590.82	0.02	0.0000	0.0	5,000	No	50	No
GILBANEPM020122-1764	1	2/8/2022 ⁵	1755.07	0.034						
GILBANEPM020122-1765	2	2/8/2022 ⁵	1779.42	0.038	-0.0040	-4.0	5,000	No	50	No
GILBANEPM011822-1724	1	2/9/2022	1729.69	0.039						
GILBANEPM011822-1725	2	2/9/2022	1771.67	0.032	-0.0070	-7.0	5,000	No	50	No
GILBANEPM011822-1726	1	2/10/2022	1860.79	0.023						
GILBANEPM011822-1727	2	2/10/2022	1825.58	0.024	0.0010	1.0	5,000	No	50	No
GILBANEPM011822-1728	1	2/10/2022 ²	636.17	0.025						
GILBANEPM011822-1729	2	2/10/2022 ²	627.85	0.022	-0.0030	-3.0	5,000	No	50	No
GILBANEPM011822-1730	1	2/15/2022	1743.28	0.028						
GILBANEPM011822-1731	2	2/15/2022	1705.60	0.025	-0.0030	-3.0	5,000	No	50	No
GILBANEPM011822-1732	1	2/16/2022	1687.17	0.029						
GILBANEPM011822-1733	2	2/16/2022	1698.38	0.016	-0.0130	-13.0	5,000	No	50	No
GILBANEPM011822-1734	1	2/17/2022	1564.67	0.021						
GILBANEPM011822-1735	2	2/17/2022	1578.80	0.018	-0.0140	-14.0	5,000	No	50	No
GILBANEPM011822-1736	1	2/17/2022 ^{2,5}	496.34	0.014						
GILBANEPM011822-1737	2	2/17/2022 ^{2,5}	596.27	0.013	0.0010	1.0	5,000	No	50	No
GILBANEPM011822-1738	1	2/22/2022	1722.83	0.032						
GILBANEPM011822-1739	2	2/22/2022	1758.29	0.019	-0.0130	-13.0	5,000	No	50	No
GILBANEPM011822-1740	1	2/23/2022	1747.48	0.047						
GILBANEPM011822-1741	2	2/23/2022	1765.14	0.012	-0.0350	-35.0	5,000	No	50	No
GILBANEPM011822-1742	1	2/24/2022 ⁵	1777.50	0.015						
GILBANEPM011822-1743	2	2/24/2022 ^{3,5}	1792.89	0.0027	0.0123	12.3	5,000	No	50	No
GILBANEPM011822-1744	1	2/24/2022 ²	574.07	0.028						
GILBANEPM011822-1745	2	2/24/2022 ²	527.72	0.014	-0.0140	-14.0	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.

³Motor replaced due to normal wear and tear

⁴PM10 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.

⁵Prevalent wind direction counter to normal conditions. Usual upwind and downwind stations reversed for this calculation.

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

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

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)
GILBANEPM010422-1712	1	2/1/2022	1684.52	0.000046	No	0.000008	No	0.0000088	No
GILBANEPM010422-1713	2	2/1/2022	1710.88	0.000045	No	0.000008	No	0.0000053	No
GILBANEPM010422-1715	1	2/2/2022	1733.13	0.000044	No	0.000005	No	0.000002	No
GILBANEPM010422-1716	2	2/2/2022	1743.94	0.0000093	No	0.0000011	No	0.0000051	No
GILBANEPM011822-1718	1	2/3/2022	1743.73	0.0001	No	0.000011	No	0.000017	No
GILBANEPM011822-1719	2	2/3/2022	1750.46	0.000066	No	0.000011	No	0.0000052	No
GILBANEPM011822-1721	1	2/3/2022 ²	584.50	0.000094	No	0.000005	No	0.000013	No
GILBANEPM011822-1722	2	2/3/2022 ²	590.82	0.00016	No	0.0000045	No	0.000011	No
GILBANEPM020122-1764	1	2/8/2022	1755.07	0.0001	No	0.0000057	No	0.000015	No
GILBANEPM020122-1765	2	2/8/2022	1779.42	0.00077	No	0.0000036	No	0.000011	No
GILBANEPM011822-1724	1	2/9/2022	1729.69	0.00013	No	0.0000066	No	0.000022	No
GILBANEPM011822-1725	2	2/9/2022	1771.67	0.00009	No	0.0000041	No	0.000011	No
GILBANEPM011822-1726	1	2/10/2022	1860.79	0.000097	No	0.0000031	No	0.000015	No
GILBANEPM011822-1727	2	2/10/2022	1825.58	0.00013	No	0.0000033	No	0.000018	No
GILBANEPM011822-1728	1	2/10/2022 ²	636.17	0.000044	No	0.0000026	No	0.000015	No
GILBANEPM011822-1729	2	2/10/2022 ²	627.85	0.000084	No	0.0000032	No	0.000012	No
GILBANEPM011822-1730	1	2/15/2022	1743.28	0.00009	No	0.0000057	No	0.000018	No
GILBANEPM011822-1731	2	2/15/2022	1705.60	0.000071	No	0.0000045	No	0.000011	No
GILBANEPM011822-1732	1	2/16/2022	1687.17	0.000051	No	0.0000039	No	0.000014	No
GILBANEPM011822-1733	2	2/16/2022	1698.38	0.000016	No	0.0000022	No	0.0000072	No
GILBANEPM011822-1734	1	2/17/2022	1564.67	0.00015	No	0.0000046	No	0.000014	No
GILBANEPM011822-1735	2	2/17/2022	1578.80	0.000027	No	0.0000023	No	0.0000093	No
GILBANEPM011822-1736	1	2/17/2022 ²	496.34	0.00011	No	0.0000034	No	0.000018	No
GILBANEPM011822-1737	2	2/17/2022 ²	596.27	0.00029	No	0.0000044	No	0.000019	No
GILBANEPM011822-1738	1	2/22/2022	1722.83	0.000063	No	0.0000087	No	0.000015	No
GILBANEPM011822-1739	2	2/22/2022	1758.29	0.000016	No	0.0000047	No	0.000013	No
GILBANEPM011822-1740	1	2/23/2022	1747.48	0.00017	No	0.000013	No	0.000036	No
GILBANEPM011822-1741	2	2/23/2022	1765.14	0.000013	No	0.0000026	No	0.0000069	No
GILBANEPM011822-1742	1	2/24/2022	1777.50	0.000076	No	0.0000029	No	0.0000074	No
GILBANEPM011822-1743	2	2/24/2022	1792.89	0.000016	No	0.0000011	No	0.000002	No
GILBANEPM011822-1744	1	2/24/2022 ²	574.07	0.00012	No	0.0000039	No	0.000017	No
GILBANEPM011822-1745	2	2/24/2022 ²	527.72	0.000054	No	0.000002 J	No	0.000008	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.

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				
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)
GILBANETSP010422-1712	1	2/1/2022	1617.35	0.0474851			
GILBANETSP010422-1713	2	2/1/2022	1707.63	0.0457359	-0.002	0.5	No
GILBANETSP010422-1715	1	2/2/2022	1672.42	0.054472			
GILBANETSP010422-1716	2	2/2/2022	1749.62	0.0158892	-0.039	0.5	No
GILBANETSP011822-1718	1	2/3/2022	1671.98	0.0519145			
GILBANETSP011822-1719	2	2/3/2022	1744.36	0.0271733	-0.025	0.5	No
GILBANETSP011822-1721	1	2/3/2022 ²	561.36	0.0325994			
GILBANETSP011822-1722	2	2/3/2022 ²	590.65	0.037755	0.005	0.5	No
GILBANETSP020122-1764	1	2/8/2022 ³	1718.23	0.0470833			
GILBANETSP020122-1765	2	2/8/2022 ³	1760.37	0.0453882	0.002	0.5	No
GILBANETSP011822-1724	1	2/9/2022	1689.80	0.0655107			
GILBANETSP011822-1725	2	2/9/2022	1760.60	0.0463478	-0.019	0.5	No
GILBANETSP011822-1726	1	2/10/2022	1746.41	0.0317222			
GILBANETSP011822-1727	2	2/10/2022	1839.47	0.0400115	0.008	0.5	No
GILBANETSP011822-1728	1	2/10/2022 ²	602.36	0.0434956			
GILBANETSP011822-1729	2	2/10/2022 ²	626.13	0.0400875	-0.003	0.5	No
GILBANETSP011822-1730	1	2/15/2022	1662.31	0.0513743			
GILBANETSP011822-1731	2	2/15/2022	1702.37	0.0460534	-0.005	0.5	No
GILBANETSP011822-1732	1	2/16/2022	1617.89	0.0482728			
GILBANETSP011822-1733	2	2/16/2022	1696.45	0.0256418	-0.023	0.5	No
GILBANETSP011822-1734	1	2/17/2022	1497.18	0.0278524			
GILBANETSP011822-1735	2	2/17/2022	1579.04	0.0373011	0.009	0.5	No
GILBANETSP011822-1736	1	2/17/2022 ^{2,3}	474.72	0.0318082			
GILBANETSP011822-1737	2	2/17/2022 ^{2,3}	498.06	0.0214834	0.010	0.5	No
GILBANETSP011822-1738	1	2/22/2022	1669.23	0.0349862			
GILBANETSP011822-1739	2	2/22/2022	1773.71	0.0360826	0.001	0.5	No
GILBANETSP011822-1740	1	2/23/2022	1666.16	0.0614587			
GILBANETSP011822-1741	2	2/23/2022	1760.63	0.0260702	-0.035	0.5	No
GILBANETSP011822-1742	1	2/24/2022 ³	1709.24	0.021647			
GILBANETSP011822-1743	2	2/24/2022 ³	1826.46	0.0139614	0.008	0.5	No
GILBANETSP011822-1744	1	2/24/2022 ²	548.85	0.0659561			
GILBANETSP011822-1745	2	2/24/2022 ²	581.75	0.0209712	-0.044	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.

³Prevalent wind direction counter to normal conditions. Usual upwind and downwind stations reversed for this calculation.

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

ATTACHMENT 6
AIR SAMPLING RESULTS –
PUBLIC EXPOSURE MONITORING

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AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

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				Alpha	Beta	Air samples collected between 01 Feb 2022 and 28 Feb 2022				Value < 0.1 x Effluent Conc (i.e., < 10%)						
Information effective as of: 31 Mar 2022									Radionuclide	Ra-226	Sr-90					Value > 0.1 x Effluent Conc (i.e., > 10%)						
									Effluent Conc (µCi/ml)	9.E-13	6.E-12					Value > Effluent Conc (i.e., > 100%)						
Sample Collection									Count Information				Sample Results				Initials					
Sample Number	Sample Type	Sample Location	Equip No	Ave Flow Rate (lpm)	Start Day Time	End Date Time	Elapsed Time (min)	Volume (ml)	Inst No	Count Date	Time (min)	Counting Units	Gross Activity		Net dpm		Activity (µCi/ml)		Effluent Conc (%)		Count Tech	Data Reviewer
													Alpha	Beta	Alpha	Beta	Alpha	Beta	Alpha	Beta		
AS-0432	Perimeter	MSE01	PE09	60	2/1/22 4:25	2/1/22 15:28	663	4.0E+07	D	02/07/22	1	cpm	0.25	4.50	0.7	9.3	7.9E-15	1.1E-13	0.9%	1.8%	BCS	CB
AS-0433	Perimeter	MSE02	PE10	60	2/1/22 4:15	2/1/22 15:44	689	4.1E+07	D	02/07/22	1	cpm	0.05	2.95	0.1	4.9	1.5E-15	5.4E-14	0.2%	0.9%	BCS	CB
AS-0435	Perimeter	MSE01	PE09	60	2/2/22 4:15	2/2/22 15:33	678	4.1E+07	D	02/07/22	1	cpm	0.20	3.85	0.6	7.5	6.2E-15	8.3E-14	0.7%	1.4%	BCS	CB
AS-0436	Perimeter	MSE02	PE10	60	2/2/22 4:35	2/2/22 15:55	680	4.1E+07	D	02/07/22	1	cpm	0.05	4.10	0.1	8.2	1.5E-15	9.0E-14	0.2%	1.5%	BCS	CB
AS-0438	Perimeter	MSE01	PE09	60	2/3/22 4:35	2/3/22 15:22	647	3.9E+07	D	02/07/22	1	cpm	0.15	4.70	0.4	9.9	4.8E-15	1.1E-13	0.5%	1.9%	BCS	CB
AS-0439	Perimeter	MSE02	PE10	60	2/3/22 4:20	2/3/22 15:20	660	4.0E+07	D	02/07/22	1	cpm	0.20	5.10	0.6	11.0	6.3E-15	1.2E-13	0.7%	2.1%	BCS	CB
AS-0441	Perimeter	MSE01	PE09	60	2/7/22 6:45	2/7/22 16:03	558	3.3E+07	D	02/14/22	1	cpm	0.20	4.75	0.6	10.0	7.5E-15	1.3E-13	0.8%	2.2%	BCS	CB
AS-0442	Perimeter	MSE02	PE10	60	2/7/22 7:00	2/7/22 16:00	540	3.2E+07	D	02/14/22	1	cpm	0.25	4.90	0.7	10.4	9.7E-15	1.4E-13	1.1%	2.4%	BCS	CB
AS-0443	Perimeter	MSE01	PE09	60	2/8/22 7:10	2/8/22 17:27	617	3.7E+07	D	02/14/22	1	cpm	0.35	5.35	1.0	11.7	1.2E-14	1.4E-13	1.3%	2.4%	BCS	CB
AS-0444	Perimeter	MSE02	PE10	60	2/8/22 7:00	2/8/22 17:50	650	3.9E+07	D	02/14/22	1	cpm	0.20	5.05	0.6	10.8	6.4E-15	1.3E-13	0.7%	2.1%	BCS	CB
AS-0445	Perimeter	MSE01	PE09	60	2/9/22 7:10	2/9/22 18:20	670	4.0E+07	D	02/14/22	1	cpm	0.15	5.00	0.4	10.7	4.7E-15	1.2E-13	0.5%	2.0%	BCS	CB
AS-0446	Perimeter	MSE02	PE10	60	2/9/22 7:15	2/9/22 18:10	655	3.9E+07	D	02/14/22	1	cpm	0.10	6.95	0.3	16.2	3.2E-15	1.9E-13	0.4%	3.1%	BCS	CB
AS-0447	Perimeter	MSE01	PE09	60	2/10/22 9:15	2/10/22 18:20	545	3.3E+07	D	02/14/22	1	cpm	0.10	5.00	0.3	10.7	3.8E-15	1.5E-13	0.4%	2.5%	BCS	CB
AS-0448	Perimeter	MSE02	PE10	60	2/10/22 9:10	2/10/22 18:35	565	3.4E+07	D	02/14/22	1	cpm	0.35	4.50	1.0	9.3	1.3E-14	1.2E-13	1.4%	2.1%	BCS	CB
AS-0449	Perimeter	MSE01	PE09	60	2/14/22 10:25	2/14/22 21:50	685	4.1E+07	D	02/23/22	1	cpm	0.10	4.45	0.3	9.2	3.1E-15	1.0E-13	0.3%	1.7%	BCS	CB
AS-0450	Perimeter	MSE02	PE10	60	2/14/22 10:30	2/14/22 22:00	690	4.1E+07	D	02/23/22	1	cpm	0.20	5.10	0.6	11.0	6.1E-15	1.2E-13	0.7%	2.0%	BCS	CB
AS-0451	Perimeter	MSE01	PE09	60	2/15/22 12:00	2/15/22 22:14	614	3.7E+07	D	02/23/22	1	cpm	0.15	4.05	0.4	8.0	5.1E-15	9.8E-14	0.6%	1.6%	BCS	CB
AS-0452	Perimeter	MSE02	PE10	60	2/15/22 12:10	2/15/22 22:25	615	3.7E+07	D	02/23/22	1	cpm	0.05	4.00	0.1	7.9	1.7E-15	9.6E-14	0.2%	1.6%	BCS	CB
AS-0453	Perimeter	MSE01	PE09	60	2/16/22 4:15	2/16/22 22:11	1076	6.5E+07	D	02/23/22	1	cpm	0.05	4.00	0.1	7.9	9.7E-16	5.5E-14	0.1%	0.9%	BCS	CB
AS-0454	Perimeter	MSE02	PE10	60	2/16/22 4:10	2/16/22 22:03	1073	6.4E+07	D	02/23/22	1	cpm	0.10	4.85	0.3	10.3	1.9E-15	7.2E-14	0.2%	1.2%	BCS	CB
AS-0455	Perimeter	MSE01	PE09	60	2/17/22 4:30	2/17/22 14:25	595	3.6E+07	D	02/23/22	1	cpm	0.20	3.90	0.6	7.6	7.0E-15	9.6E-14	0.8%	1.6%	BCS	CB
AS-0456	Perimeter	MSE02	PE10	60	2/17/22 4:40	2/17/22 14:33	593	3.6E+07	D	02/23/22	1	cpm	0.20	4.00	0.6	7.9	7.1E-15	1.0E-13	0.8%	1.7%	BCS	CB
AS-0457	Perimeter	MSE01	PE09	60	2/21/22 6:30	2/21/22 16:05	575	3.4E+07	D	02/28/22	1	cpm	0.30	3.55	0.8	6.6	1.1E-14	8.6E-14	1.2%	1.4%	BCS	CB
AS-0458	Perimeter	MSE02	PE10	60	2/21/22 6:25	2/21/22 16:13	588	3.5E+07	D	02/28/22	1	cpm	0.15	3.95	0.4	7.7	5.3E-15	9.9E-14	0.6%	1.6%	BCS	CB
AS-0459	Perimeter	MSE01	PE09	60	2/22/22 4:30	2/22/22 16:00	690	4.1E+07	D	02/28/22	1	cpm	0.05	4.05	0.1	8.0	1.5E-15	8.7E-14	0.2%	1.5%	BCS	CB
AS-0460	Perimeter	MSE02	PE10	60	2/22/22 4:20	2/22/22 16:05	705	4.2E+07	D	02/28/22	1	cpm	0.10	4.35	0.3	8.9	3.0E-15	9.4E-14	0.3%	1.6%	BCS	CB
AS-0461	Perimeter	MSE01	PE09	60	2/23/22 4:35	2/23/22 16:09	694	4.2E+07	D	02/28/22	1	cpm	0.35	4.10	1.0	8.2	1.1E-14	8.8E-14	1.2%	1.5%	BCS	CB
AS-0462	Perimeter	MSE02	PE10	60	2/23/22 4:30	2/23/22 16:00	690	4.1E+07	D	02/28/22	1	cpm	0.20	4.45	0.6	9.2	6.1E-15	1.0E-13	0.7%	1.7%	BCS	CB
AS-0463	Perimeter	MSE01	PE09	60	2/24/22 5:30	2/24/22 16:48	678	4.1E+07	D	02/28/22	1	cpm	0.45	5.45	1.3	12.0	1.4E-14	1.3E-13	1.5%	2.2%	BCS	CB
AS-0464	Perimeter	MSE02	PE10	60	2/24/22 5:20	2/24/22 16:52	692	4.2E+07	D	02/28/22	1	cpm	0.20	5.05	0.6	10.8	6.0E-15	1.2E-13	0.7%	2.0%	BCS	CB
AS-0465	Perimeter	MSE01	PE09	60	2/28/22 0:40	2/28/22 9:27	527	3.2E+07	D	03/07/22	1	cpm	0.25	5.95	0.7	13.4	9.9E-15	1.9E-13	1.1%	3.2%	BCS	CB
AS-0466	Perimeter	MSE02	PE10	60	2/28/22 0:50	2/28/22 9:20	510	3.1E+07	D	03/07/22	1	cpm	0.05	4.80	0.1	10.1	2.1E-15	1.5E-13	0.2%	2.5%	BCS	CB

ATTACHMENT 7

LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 22020550



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 : 02/07/2022 08:51
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
MSE01-020122	2/1/2022 15:40	Cassette	22020550.01
MSE02-020122	2/1/2022 15:43	Cassette	22020550.02
MSE03-020122	2/1/2022 15:45	Cassette	22020550.03
MSE01-020222	2/2/2022 15:41	Cassette	22020550.04
MSE02-020222	2/2/2022 15:49	Cassette	22020550.05
MSE03-020222	2/2/2022 15:51	Cassette	22020550.06

[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

2/14/2022



**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 2/14/2022

Job ID : 22020550
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
22020550.01	MSE01-020122	02/01/2022	Area	2			509	1018	100	15.5	19.745	0.007		02/14/22	[REDACTED]
22020550.02	MSE02-020122	02/01/2022	Area	2			526	1052	100	20.5	26.115	0.010		02/14/22	[REDACTED]
22020550.03	MSE03-020122	02/01/2022	Area	2			540	1080	100	18.5	23.567	0.008		02/14/22	[REDACTED]
22020550.04	MSE01-020222	02/02/2022	Area	2			498	996	100	18.5	23.567	0.009		02/14/22	[REDACTED]
22020550.05	MSE02-020222	02/02/2022	Area	2			520	1040	100	14.0	17.834	0.007		02/14/22	[REDACTED]
22020550.06	MSE03-020222	02/02/2022	Area	2			533	1066	100	11.5	14.650	0.005		02/14/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22020550	Date Received : 02/07/2022	Time Received : 8:51AM		
Client Name : GES - ASRC Industrial				
Temperature : 13.0°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 in a box with sample custody seal. ~JE 02/07/22

Received by : ██████████

Check in by/date : ██████████ / 02/07/2022

ab-s005-0321



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs Date: 2/03/2022
 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

Job ID:22020550



02/07/2022 GES - ASRC Industrial ACH

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:			
MSE01-020122	2/1/2022	1540	NA	NA	1	AA	X	None		509	01A
MSE02-020122	2/1/2022	1543	NA	NA	1	AA	X	None		526	02A
MSE03-020122	2/1/2022	1545	NA	NA	1	AA	X	None		540	03A
MSE01-020222	2/2/2022	1541	NA	NA	1	AA	X	None		498	04A
MSE02-020222	2/2/2022	1549	NA	NA	1	AA	X	None		520	05A
MSE03-020222	2/2/2022	1551	NA	NA	1	AA	X	None		533	06A

TP

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7759 4911 6428				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[Redacted]</u>	2/3/22	1600	Fedex	2/3/22	1600
Send Results to: <u>[Redacted]</u>	<u>[Redacted]</u>			<u>[Redacted]</u>	2/7/22	831
Turnaround Time: <u>Standard</u>						

TEMP: 13.0°
 INIR3 a.

ORIGINATOR ID: [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 03FEB22
ACTWGT: 1.00 LB
CAD: 254128867/NET4460

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J3100040001804

INV. PO DEPT



55D.J027C/FE4

FRI - 04 FEB 4:30P

STANDARD OVERNIGHT

TRK# 7759 4911 6428
0201

UL HBYA

77029
TX-US IAH



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Laboratory Analysis Report

Job ID : 22020975



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 : 02/10/2022 07:10
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
MSE01-020322	2/3/2022 15:32	Cassette	22020975.01
MSE02-020322	2/3/2022 15:23	Cassette	22020975.02
MSE03-020322	2/3/2022 15:12	Cassette	22020975.03
MSE01-020722	2/7/2022 15:56	Cassette	22020975.04
MSE02-020722	2/7/2022 16:05	Cassette	22020975.05

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

Analyst: [REDACTED]

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ab-q210-0321

2/17/2022



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

Date 2/17/2022

Job ID : 22020975
 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
22020975.01	MSE01-020322	02/03/2022	Area	2			489	978	100	15.5	19.745	0.008		02/17/22	[REDACTED]
22020975.02	MSE02-020322	02/03/2022	Area	2			494	988	100	11.0	14.013	0.005		02/17/22	[REDACTED]
22020975.03	MSE03-020322	02/03/2022	Area	2			493	986	100	14.0	17.834	0.007		02/17/22	[REDACTED]
22020975.04	MSE01-020722	02/07/2022	Area	2			496	992	100	12.0	15.287	0.006		02/17/22	[REDACTED]
22020975.05	MSE02-020722	02/07/2022	Area	2			521	1042	100	10.5	13.376	0.005		02/17/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22020975	Date Received : 02/10/2022	Time Received : 7:10AM		
Client Name : GES - ASRC Industrial				
Temperature : 17.1°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:

Received by : ██████████

Check in by/date | ██████████ / 02/10/2022

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 2/08/2022
 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			
D1A MSE01-020322	2/3/2022	1532	NA	NA	1	AA	X			489
O2A MSE02-020322	2/3/2022	1523	NA	NA	1	AA	X			494
O3A MSE03-020322	2/3/2022	1512	NA	NA	1	AA	X			493
O4A MSE01-020722	2/7/2022	1556	NA	NA	1	AA	X			496
O5A MSE02-020722	2/7/2022	1605	NA	NA	1	AA	X			521

Job ID: 22020975



02/10/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7759 8505 5843			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date: Time:
Special Instructions: <u>[Redacted]</u>	<u>[Redacted]</u>	2/8/22	1600	<u>Fedex</u>	2/8/22 1600
	<u>Fedex</u>			<u>[Redacted]</u>	2/10/22 7:10
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					

Temp: 17.1
ID: DE3 817

ORIGIN ID: JCCA

SHIP DATE: 08FEB22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

BILL SENDER

TO

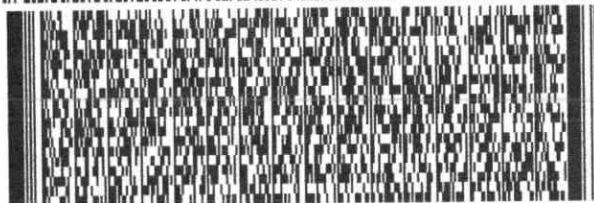
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J3100040001804

INV
PO

DEPT



FedEx
Express



J2118281887100

560J2027CIFE4A

WED - 09 FEB 4:30P

STANDARD OVERNIGHT

TRK#
0201

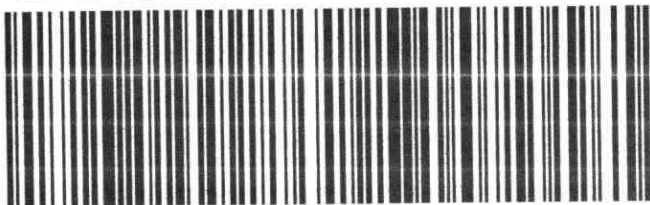
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Date: 2.8

TLR

SEAL

Gilbane

PLY
3-8425

Laboratory Analysis Report

Job ID : 22021261



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 : 02/14/2022 11:51
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
MSE01-020822	2/8/2022 17:54	Cassette	22021261.01
MSE02-020822	2/8/2022 17:49	Cassette	22021261.02
MSE01-020922	2/9/2022 18:45	Cassette	22021261.03
MSE02-020922	2/9/2022 18:40	Cassette	22021261.04

[REDACTED]
Released By: [REDACTED]
Title: Project Manager

Analyst: [REDACTED]

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ab-q210-0321

2/21/2022



**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 2/21/2022

Job ID : 22021261
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
22021261.01	MSE01-020822	02/08/2022	Area	2			564	1128	100	12.0	15.287	0.005		02/21/22	[REDACTED]
22021261.02	MSE02-020822	02/08/2022	Area	2			572	1144	100	10.5	13.376	0.005		02/21/22	[REDACTED]
22021261.03	MSE01-020922	02/09/2022	Area	2			595	1190	100	16.5	21.019	0.007		02/21/22	[REDACTED]
22021261.04	MSE02-020922	02/09/2022	Area	2			599	1198	100	16.5	21.019	0.007		02/21/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22021261	Date Received : 02/14/2022	Time Received : 11:51AM		
Client Name : GES - ASRC Industrial				
Temperature : 18.2°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:
 Cassettes: Black. No cooler was received; however, samples are received in a box with a custody seal. ~JE 02/14/22

Received by : ██████████

Check in by/date : ██████████ / 02/14/2022

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 2/08/2022
 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		
MSE01-020822	2/8/2022	1754	NA	NA	1	AA	X			564 01A
MSE02-020822	2/8/2022	1749	NA	NA	1	AA	X			572 02A
MSE01-020922	2/9/2022	1845	NA	NA	1	AA	X			595 03A
MSE02-020922	2/9/2022	1840	NA	NA	1	AA	X			599 04A

TP

Job ID: 22021261



02/14/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7760 0891 7439				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: <u>[Redacted]</u>	<u>[Redacted]</u>	2/11/22	1600	Fedex	2/11/22	1600
	<u>[Redacted]</u>			<u>[Redacted]</u>	2/14/22	1151
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

Temp: 18.2
 J-D: IR3 13H

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 10FEB22
ACTWGT: 1.00 LB
CAD: 254128867/NET4460

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000.400.00.18.04

INV PO DEPT



56D.L2027CFE4A

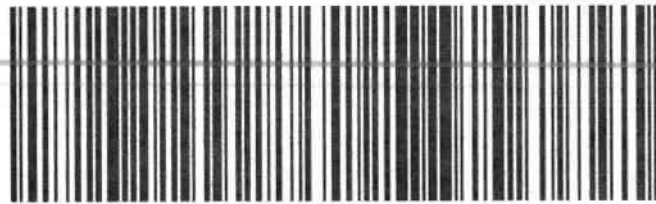
FRI - 11 FEB 4:30P

STANDARD OVERNIGHT

TRK# 7760 0891 7439
0201

UL HBYA

77029
TX-US IAH



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Laboratory Analysis Report

Job ID : 22021559



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 : 02/16/2022 16:12
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
MSE01-021022	2/10/2022 18:30	Cassette	22021559.01
MSE02-021022	2/10/2022 18:19	Cassette	22021559.02
MSE01-021422	2/14/2022 21:55	Cassette	22021559.03
MSE02-021422	2/14/2022 21:49	Cassette	22021559.04

[REDACTED]
Released By: [REDACTED]

Title: Project Manager

Analyst: [REDACTED]

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ab-q210-0321

2/23/2022



**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 2/23/2022

Job ID : 22021559
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
22021559.01	MSE01-021022	02/10/2022	Area				518	1036	100	17.5	22.293	0.008		02/23/22	[REDACTED]
22021559.02	MSE02-021022	02/10/2022	Area				513	1026	100	16	20.382	0.008		02/23/22	[REDACTED]
22021559.03	MSE01-021422	02/14/2022	Area				668	1336	100	16.5	21.019	0.006		02/23/22	[REDACTED]
22021559.04	MSE02-021422	02/14/2022	Area				649	1298	100	21.5	27.389	0.008		02/23/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22021559		Date Received : 02/16/2022	Time Received : 4:12PM									
Client Name : GES - ASRC Industrial												
Temperature : 21.8°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 cooler with custody seal. ~JE 02/16/22

Received by : ██████████

Check in by/date : ██████████ / 02/16/2022

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 2/15/2022
 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:		
MSE01-021022	2/10/2022	1830	NA	NA	1	AA	X	None		518 01A
MSE02-021022	2/10/2022	1819	NA	NA	1	AA	X	None		513 02A
MSE01-021422	2/14/2022	2155	NA	NA	1	AA	X	None		668 03A
MSE02-021422	2/14/2022	2149	NA	NA	1	AA	X	None		649 04A

Job ID: 22021559



02/16/2022 GES - ASRC Industrial AC11

TP

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7760 4641 7583

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 2/15/22 Time: 1600 Received By/ Affiliation: Fedex Date: 2/15/22 Time: 1600

Special Instructions: [Redacted] Gilbane FedEx [Redacted] 2/16/22 1612

Send Results to: [Redacted]

Turnaround Time: Standard 21.8°C 123

2/15/22, 8:45 AM

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID: ICCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 15FEB22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

BILL SENDER

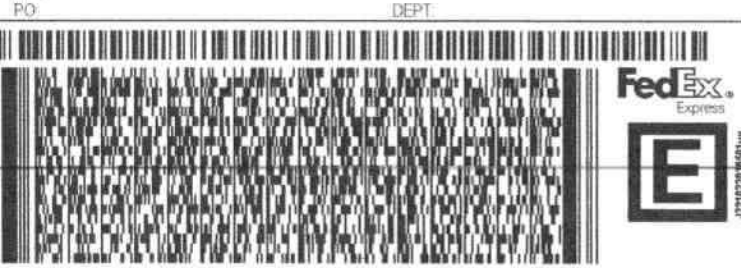
TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF. J31000.400.00.18.04

560J027C/FE4A



WED - 16 FEB 4:30P
STANDARD OVERNIGHT

TRK# 7760 4641 7583
0201

UL HBYA

77029 TX-US IAH



After printing this label:

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

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

CUSTODY SEAL



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

Gilbane

Date: 2/15/22

Signature: *[Handwritten Signature]*

Laboratory Analysis Report

Job ID : 22021888



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 : 02/21/2022 09:16
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
MSE01-021522	2/15/2022 22:28	Cassette	22021888.01
MSE02-021522	2/15/2022 22:28	Cassette	22021888.02
MSE01-021622	2/16/2022 21:58	Cassette	22021888.03
MSE02-021622	2/16/2022 22:02	Cassette	22021888.04

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

Analyst: [REDACTED]

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ab-q210-0321

2/28/2022



**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 2/28/2022

Job ID : 22021888
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
22021888.01	MSE01-021522	02/15/2022	Area	2			693	1386	100	18.5	23.567	0.007		02/28/22	[REDACTED]
22021888.02	MSE02-021522	02/15/2022	Area	2			711	1422	100	11	14.013	0.004		02/28/22	[REDACTED]
22021888.03	MSE01-021622	02/16/2022	Area	2			701	1402	100	15.5	19.745	0.005		02/28/22	[REDACTED]
22021888.04	MSE02-021622	02/16/2022	Area	2			725	1450	100	27.0	34.395	0.009		02/28/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22021888	Date Received : 02/21/2022	Time Received : 9:16AM		
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:

Received by : ██████████

Check in by/date : ██████████ / 02/21/2022

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 Date: 2/17/2022
 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		
MSE01-021522 <i>01A</i>	2/15/2022	2228	NA	NA	1	AA	X			693
MSE02-021522 <i>02A</i>	2/15/2022	2228	NA	NA	1	AA	X			711
MSE01-021622 <i>03A</i>	2/16/2022	2158	NA	NA	1	AA	X			701
MSE02-021622 <i>04A</i>	2/16/2022	2202	NA	NA	1	AA	X			725

Job ID: 22021888



02/21/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7760 7234 1641

Signature: [Redacted] Relinquished by/Affiliation: [Redacted] Date: 2/17/22 Time: 1600 Received By/ Affiliation: Fedex Date: 2/17/22 Time: 1600

Special Instructions: [Redacted] Date: 2/18/22 Time: 1630 Received By/ Affiliation: [Redacted] Date: 2-18-22 Time: 1000

Send Results to: [Redacted] Date: 2-22-22 Time: 9:16

Turnaround Time: Standard

19.8 IR3

W



Environment Testing
TestAmerica

1711549

SIGNATURE

DATE

Custody Seal

Paul R

2/19/22



Environment Testing
TestAmerica

1711549

85

ORIGIN ID:BLUA
TEST AMERICA
EUROFINS TESTAMERICA W SACRAMENTO
880 RIVERSIDE PARKWAY
WEST SACRAMENTO, CA 95605
UNITED STATES, US

SHIP DATE: 18FEB22
ACTWGT: 0.45 LB
CAD: 852262/CAFE3510

BILL SENDER

TO

A&D LABS
10100 EAST FWY STE. 100

HOUSTON TX 77029

DEPT: SUB WORK

REF: SEND OUTS



FedEx
Express



TRK# 4895 5417 7850
0201

MON - 21 FEB 4:30F
STANDARD OVERNIGHT

XA HBYA

77029
TX-US IAH



Part # 159470-434 RT2 EXP 12/20 **

Laboratory Analysis Report

Job ID : 22022233



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 : 02/23/2022 17:29
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
MSE01-021722	2/17/2022 14:29	Cassette	22022233.01
MSE02-021722	2/17/2022 14:15	Cassette	22022233.02
MSE01-022122	2/21/2022 16:15	Cassette	22022233.03
MSE02-022122	2/21/2022 16:08	Cassette	22022233.04

[REDACTED]
Released By: [REDACTED]
Title: Project Manager

Analyst: [REDACTED]

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ab-q210-0321



Laboratory Report: Case Narrative

A&B Job ID: 22022233

Date: 03/07/22

Client Name: GES - ASRC Industrial

Attn: [REDACTED]

Project Name: HPNS Parcel E Phase II J310000400

Date Received: 02/23/22

Collected By: [REDACTED]

REVISED REPORT -

The attached report is revised to update the sample ID for 22022233.04 from "MSE01-022122" to "MSE02-022122" per client's revised coc attached.

[REDACTED]
Title: Project Manager



**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 3/7/2022

Job ID : 22022233
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
22022233.01	MSE01-021722	02/17/2022	Area	2			413	826	99	16.5	21.231	0.010		03/02/22	[REDACTED]
22022233.02	MSE02-021722	02/17/2022	Area	2			412	824	100	15.0	19.108	0.009		03/02/22	[REDACTED]
22022233.03	MSE01-022122	02/21/2022	Area	2			549	1098	100	16.0	20.382	0.007		03/02/22	[REDACTED]
22022233.04	MSE02-022122	02/21/2022	Area	2			569	1138	100	31.5	40.127	0.014		03/02/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22022233	Date Received : 02/23/2022	Time Received : 5:29PM		
Client Name : GES - ASRC Industrial				
Temperature : 19.2°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 are received in a box with a custody seal. -CH 02/24/22

Received by : ██████████

Check in by/date : ██████████ / 02/24/2022

ab-s005-0321

Phone | ██████████

Event ID: Air Monitoring February 2022

COC# KT022222ASB




Chain-Of-Custody

Project Name and Number: <u>HPNS Parcel E Phase II 1310000400</u>				Laboratory Name: <u>A&B Labs</u>				Date: <u>2/22/2022</u>	
Project Manager: <u>[Redacted]</u>				Address: <u>10100 East Fwy Ste. 100</u>		Contact Name: <u>[Redacted]</u>		Page: <u>1</u> of <u>1</u>	
Site Location: <u>Hunters Point, San Francisco, CA 94124</u>				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:		
MSE01-021722	01A	2/17/2022	1429	NA	NA	1	AA	X		413
MSE02-021722	02A	2/17/2022	1415	NA	NA	1	AA	X		412
MSE01-022122	03A	2/21/2022	1615	NA	NA	1	AA	X		549
MSE01-022122	04A	2/21/2022	1608	NA	NA	1	AA	X		569

MSE02-022122
 TP
 3/7/22
 Job ID: 22022233



02/23/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7761 0840 5191				
Signature: <u>[Redacted]</u>	Relinquished By: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[Redacted]</u>	2/22/22	1600	Fedex	2/22/22	1600
	<u>[Redacted]</u>	2/23/22	1729	<u>[Redacted]</u>	2/23/22	1729
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

TEMP: 19.2
 ID: IR3 BH

Laboratory Analysis Report

Job ID : 22022538



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 : 02/28/2022 09:04
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
MSE01-022222	2/22/2022 16:09	Cassette	22022538.01
MSE02-022222	2/22/2022 16:04	Cassette	22022538.02
MSE01-022322	2/23/2022 16:10	Cassette	22022538.03
MSE02-022322	2/23/2022 16:07	Cassette	22022538.04

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

Analyst: [REDACTED]

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ab-q210-0321

3/7/2022



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

Date 3/7/2022

Job ID : 22022538
 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
22022538.01	MSE01-022222	02/22/2022	Area	2			536	1072	100	23.0	29.299	0.011		03/07/22	[REDACTED]
22022538.02	MSE02-022222	02/22/2022	Area	2			545	1090	100	28.0	35.669	0.013		03/07/22	[REDACTED]
22022538.03	MSE01-022322	02/23/2022	Area	2			519	1038	100	15.5	19.745	0.007		03/07/22	[REDACTED]
22022538.04	MSE02-022322	02/23/2022	Area	2			526	1052	100	13.5	17.197	0.006		03/07/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22022538	Date Received : 02/28/2022	Time Received : 9:04AM		
Client Name : GES - ASRC Industrial				
Temperature : 19.1°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 <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. ~EV 2/28/2022

Received by : [REDACTED]

Check in by/date | [REDACTED] / 02/28/2022

ab-s005-0321

Phone : [REDACTED]

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 2/24/2022
 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:		
01A MSE01-022222	2/22/2022	1609	NA	NA	1	AA	X	None		536
02A MSE02-022222	2/22/2022	1604	NA	NA	1	AA	X	None		545
03A MSE01-022322	2/23/2022	1610	NA	NA	1	AA	X	Filter		519
04A MSE02-022322	2/23/2022	1607	NA	NA	1	AA	X	Filter		526

TP

Job ID: 22022538



02/28/2022 GES - ASRC Industrial ACI

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7761 3250 1491

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 2/24/22 Time: 1600 Received By/ Affiliation: Fedex Date: 2/24/22 Time: 1600

Special Instructions: _____ [Redacted] Gilbane Fedex [Redacted] 2/26/22 9:04

Send Results to: [Redacted]

Turnaround Time: Standard

19.1°C
IRB
COT
Page 4 of 5

ORIGIN ID: JCCA [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 24FEB22
ACTWGT: 1.00 LB
CAD: 254128867/INNET4460

BILL SENDER

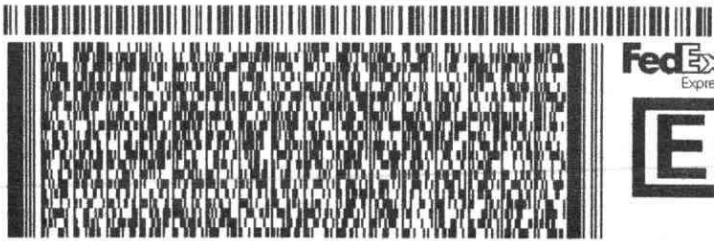
TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000.400.00.18.04

INV PO DEPT



56D12027CIFE4A

TRK# 7761 3250 1491
0201

FRI - 25 FEB 4:30P
STANDARD OVERNIGHT

UL HBYA

77029
TX-US IAH



After printing this label:

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

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ite: 2/24/22

Signature: [Handwritten Signature]

ne

Laboratory Analysis Report

Job ID : 22030251



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 : 03/03/2022 07:37
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-022422	2/24/2022 16:08	Cassette	22030251.01
MSE02-022422	2/24/2022 16:01	Cassette	22030251.02
MSE01-022822	2/28/2022 9:34	Cassette	22030251.03
MSE02-022822	2/28/2022 9:31	Cassette	22030251.04

[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

3/11/2022



**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 3/11/2022

Job ID : 22030251
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
22030251.01	MSE01-022422	02/24/2022	Area	2			482	964	100	13.5	17.197	0.007		03/11/22	[REDACTED]
22030251.02	MSE02-022422	02/24/2022	Area	2			489	978	100	15.0	19.108	0.008		03/11/22	[REDACTED]
22030251.03	MSE01-022822	02/28/2022	Area	2			506	1012	100	21.0	26.752	0.010		03/11/22	[REDACTED]
22030251.04	MSE02-022822	02/28/2022	Area	2			536	1072	100	15.0	19.108	0.007		03/11/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22030251	Date Received : 03/03/2022	Time Received : 7:37AM		
Client Name : GES - ASRC Industrial				
Temperature : 18.7°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"/> <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 by : ██████████

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

ab-s005-0321

Phone : ██████████

www.ablabs.com

Event ID: Air Monitoring

Job ID: 22030251



COC# KT030122ASB

03/03/2022

Gilbane

ACH



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400

Laboratory Name: A&B Labs 3/01/2022

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:			Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	None	
							Filter			Flow Rate = 2 L/min
MSE01-022422 01A	2/24/2022	1608	NA	NA	1	AA	X			482
MSE02-022422 02A	2/24/2022	1601	NA	NA	1	AA	X			489
MSE01-022822 03A	2/28/2022	0934	NA	NA	1	AA	X			506
MSE02-022822 04A	2/28/2022	0931	NA	NA	1	AA	X			536
<i>TP</i>										

Sampled By: [Redacted]

Sampler: [Redacted]

Courier/Airbill No.: FedEx/ 7761 5854 0801

Signature: [Redacted]

Relinquished By/Affiliation:	Date:	Time:	Received By/ Affiliation:	Date:	Time:
------------------------------	-------	-------	---------------------------	-------	-------

Special Instructions: _____

<u>[Redacted]</u>	3/1/22	1200	Fedex	3/1/22	1200
<u>fedex</u>	3/2/22	17:38	<u>[Redacted]</u>	3/2/22	17:38

Send Results to: [Redacted]

Turnaround Time: Standard

Remo: 18.7
ID: IR3 BB

2/28/22, 9:40 AM

FedEx Ship Manager - Print Your Label(s)

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

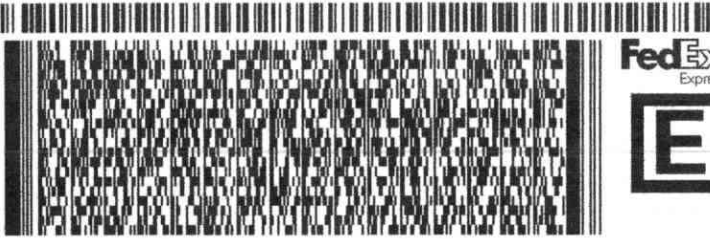
SHIP DATE: 01MAR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460
BILL SENDER

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

56D39086FE4A

REF: J31000.400.00.18.04

INV. PO: DEPT:

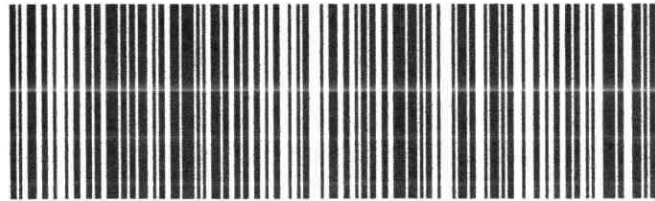


WED - 02 MAR 4:30P
STANDARD OVERNIGHT

TRK# 7761 5854 0801
0201

UL HBYA

77029
TX-US IAH



Date: _____
Signature: *US Fed*

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ANALYTICAL REPORT

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

Laboratory Job ID: 320-84428-1
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:
2/10/2022 8:24:07 AM

[REDACTED]

LINKS

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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: 320-84428-1

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: 320-84428-1

Job ID: 320-84428-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84428-1

Comments

No additional comments.

Receipt

The samples were received on 2/2/2022 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 17.6° C.

Metals

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

- 1
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Detection Summary

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

Job ID: 320-84428-1

Client Sample ID: GILBANEPM010422-1712

Lab Sample ID: 320-84428-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0080		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.046		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0088		0.00071	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1712

Lab Sample ID: 320-84428-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.4851		0.3091	0.3091	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1713

Lab Sample ID: 320-84428-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0080		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.045		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0053		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	26		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1713

Lab Sample ID: 320-84428-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	45.7359		0.2928	0.2928	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1714

Lab Sample ID: 320-84428-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0080		0.00075	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.058		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0075		0.00075	0.00011	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	26		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1714

Lab Sample ID: 320-84428-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	50.4496		0.3099	0.3099	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: 320-84428-1

Client Sample ID: GILBANEPM010422-1712

Lab Sample ID: 320-84428-1

Date Collected: 02/01/22 07:11

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0080		0.00071	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:55	1
Copper	0.046		0.0014	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:55	1
Manganese	0.0088		0.00071	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.30	0.30	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1712

Lab Sample ID: 320-84428-2

Date Collected: 02/01/22 07:11

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.4851		0.3091	0.3091	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM010422-1713

Lab Sample ID: 320-84428-3

Date Collected: 02/01/22 06:56

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0080		0.00070	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:11	1
Copper	0.045		0.0014	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:11	1
Manganese	0.0053		0.00070	0.000098	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	26		0.29	0.29	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1713

Lab Sample ID: 320-84428-4

Date Collected: 02/01/22 06:56

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.7359		0.2928	0.2928	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM010422-1714

Lab Sample ID: 320-84428-5

Date Collected: 02/01/22 06:47

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0080		0.00075	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:14	1
Copper	0.058		0.0015	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:14	1
Manganese	0.0075		0.00075	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:14	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84428-1

Client Sample ID: GILBANEPM010422-1714

Lab Sample ID: 320-84428-5

Date Collected: 02/01/22 06:47

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	26		0.31	0.31	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1714

Lab Sample ID: 320-84428-6

Date Collected: 02/01/22 06:47

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	50.4496		0.3099	0.3099	ug/m3 (Air)			02/05/22 11:00	1

QC Sample Results

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

Job ID: 320-84428-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-564410/1-B
Matrix: Air
Analysis Batch: 564645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:30	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:30	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:30	1

Lab Sample ID: LCS 320-564410/2-B
Matrix: Air
Analysis Batch: 564645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.232		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110

Lab Sample ID: LCSD 320-564410/3-B
Matrix: Air
Analysis Batch: 564645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564411

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.228		ug/m3 (Air)		95	86 - 111	2	15
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	0	15
Manganese	0.240	0.246		ug/m3 (Air)		103	88 - 110	0	15

QC Association Summary

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

Job ID: 320-84428-1

Metals

Pre Prep Batch: 564410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84428-1	GILBANEPM010422-1712	Total/NA	Air	Filter to Air	
320-84428-3	GILBANEPM010422-1713	Total/NA	Air	Filter to Air	
320-84428-5	GILBANEPM010422-1714	Total/NA	Air	Filter to Air	
MB 320-564410/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 564411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84428-1	GILBANEPM010422-1712	Total/NA	Air	3050B	564410
320-84428-3	GILBANEPM010422-1713	Total/NA	Air	3050B	564410
320-84428-5	GILBANEPM010422-1714	Total/NA	Air	3050B	564410
MB 320-564410/1-B	Method Blank	Total/NA	Air	3050B	564410
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	3050B	564410
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	564410

Analysis Batch: 564645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84428-1	GILBANEPM010422-1712	Total/NA	Air	6020	564411
320-84428-3	GILBANEPM010422-1713	Total/NA	Air	6020	564411
320-84428-5	GILBANEPM010422-1714	Total/NA	Air	6020	564411
MB 320-564410/1-B	Method Blank	Total/NA	Air	6020	564411
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	6020	564411
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	6020	564411

General Chemistry

Pre Prep Batch: 564569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84428-2	GILBANETSP010422-1712	Total/NA	Air	Filter to Air	
320-84428-4	GILBANETSP010422-1713	Total/NA	Air	Filter to Air	
320-84428-6	GILBANETSP010422-1714	Total/NA	Air	Filter to Air	

Analysis Batch: 564610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84428-1	GILBANEPM010422-1712	Total/NA	Air	PM10	
320-84428-3	GILBANEPM010422-1713	Total/NA	Air	PM10	
320-84428-5	GILBANEPM010422-1714	Total/NA	Air	PM10	

Analysis Batch: 564629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84428-2	GILBANETSP010422-1712	Total/NA	Air	40CFR50 App B	564569
320-84428-4	GILBANETSP010422-1713	Total/NA	Air	40CFR50 App B	564569
320-84428-6	GILBANETSP010422-1714	Total/NA	Air	40CFR50 App B	564569

Lab Chronicle

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

Job ID: 320-84428-1

Client Sample ID: GILBANEPM010422-1712

Lab Sample ID: 320-84428-1

Date Collected: 02/01/22 07:11

Matrix: Air

Date Received: 02/02/22 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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 13:55	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0564 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1712

Lab Sample ID: 320-84428-2

Date Collected: 02/01/22 07:11

Matrix: Air

Date Received: 02/02/22 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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1713

Lab Sample ID: 320-84428-3

Date Collected: 02/01/22 06:56

Matrix: Air

Date Received: 02/02/22 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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:11	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0450 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1713

Lab Sample ID: 320-84428-4

Date Collected: 02/01/22 06:56

Matrix: Air

Date Received: 02/02/22 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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1714

Lab Sample ID: 320-84428-5

Date Collected: 02/01/22 06:47

Matrix: Air

Date Received: 02/02/22 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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:14	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0416 g	564610	02/05/22 11:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84428-1

Client Sample ID: GILBANETSP010422-1714

Lab Sample ID: 320-84428-6

Date Collected: 02/01/22 06:47

Matrix: Air

Date Received: 02/02/22 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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 320-84428-1

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	01-29-22 *

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* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

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

Job ID: 320-84428-1

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: 320-84428-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84428-1	GILBANEPM010422-1712	Air	02/01/22 07:11	02/02/22 09:40
320-84428-2	GILBANETSP010422-1712	Air	02/01/22 07:11	02/02/22 09:40
320-84428-3	GILBANEPM010422-1713	Air	02/01/22 06:56	02/02/22 09:40
320-84428-4	GILBANETSP010422-1713	Air	02/01/22 06:56	02/02/22 09:40
320-84428-5	GILBANEPM010422-1714	Air	02/01/22 06:47	02/02/22 09:40
320-84428-6	GILBANETSP010422-1714	Air	02/01/22 06:47	02/02/22 09:40

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT020122AIR



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 to: 880 Riverside Parkway, West Sacramento, CA 95605
Event: Parcel E Phase 2 Air Monitoring February 2022

Comments:

Code	Matrix
A	Air

Equipment:

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



Event: Parcel E Phase 2 Air Monitoring February 2022										
Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	Location ID	Sample Type	Depth (ft bgs)		Comments
								Top	Bottom	
1	A	02/01/2022	0711	KT	CAIR - Air PM10	AMSE1	N1	0.00	0.00	VOLUME: 1684.52 (M3)
2	A	02/01/2022	0711	KT	N0500 - Air TSP	AMSE1	N1	0.00	0.00	VOLUME: 1617.35 (M3)
3	A	02/01/2022	0656	KT	SW6020 - Air Pb Mn Cu	AMSE2	N1	0.00	0.00	VOLUME: 1710.88 (M3)
4	A	02/01/2022	0656	KT		AMSE2	N1	0.00	0.00	VOLUME: 1707.63 (M3)
5	A	02/01/2022	0647	KT		AMSE3	N1	0.00	0.00	VOLUME: 1593.10 (M3)
6	A	02/01/2022	0647	KT		AMSE3	N1	0.00	0.00	VOLUME: 1613.49 (M3)
7										
8										
9										
10										

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	2/1/22	1600	Fedex	2/1/22	1600	Shipping Date: 2/1/2022 / FedEx 7759 267 72824
			[Redacted]			Received by Laboratory: (Signature, Date, Time) & condition



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-84428-1

Login Number: 84428

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: 320-84527-1
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:
2/11/2022 10:09:55 AM

[REDACTED]

LINKS

Review your project
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: 320-84527-1

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: 320-84527-1

Job ID: 320-84527-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84527-1

Comments

No additional comments.

Receipt

The samples were received on 2/4/2022 8:00 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 18.2° 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: 320-84527-1

Client Sample ID: GILBANEPM010422-1715

Lab Sample ID: 320-84527-1

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	0.044		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.020		0.00069	0.000097	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: GILBANETSP010422-1715

Lab Sample ID: 320-84527-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	54.4720		0.2990	0.2990	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1716

Lab Sample ID: 320-84527-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.0093		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0051		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.3		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1716

Lab Sample ID: 320-84527-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	15.8892		0.2858	0.2858	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1717

Lab Sample ID: 320-84527-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023		0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.020		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0098		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	12		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1717

Lab Sample ID: 320-84527-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.5471		0.3041	0.3041	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1718

Lab Sample ID: 320-84527-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.011		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.10		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.017		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: GILBANETSP011822-1718

Lab Sample ID: 320-84527-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	51.9145		0.2990	0.2990	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1719

Lab Sample ID: 320-84527-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.011		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.066		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0052		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-84527-1

Client Sample ID: GILBANEPM011822-1719 (Continued)

Lab Sample ID: 320-84527-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	13		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1719

Lab Sample ID: 320-84527-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.1733		0.2866	0.2866	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1720

Lab Sample ID: 320-84527-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.010		0.00073	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.054		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0063		0.00073	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1720

Lab Sample ID: 320-84527-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.8159		0.3108	0.3108	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: 320-84527-1

Client Sample ID: GILBANEPM010422-1715

Lab Sample ID: 320-84527-1

Date Collected: 02/02/22 07:19

Matrix: Air

Date Received: 02/04/22 08:00

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)		02/09/22 08:49	02/09/22 14:34	1
Copper	0.044		0.0014	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:34	1
Manganese	0.020		0.00069	0.000097	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:34	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			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1715

Lab Sample ID: 320-84527-2

Date Collected: 02/02/22 07:19

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	54.4720		0.2990	0.2990	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM010422-1716

Lab Sample ID: 320-84527-3

Date Collected: 02/02/22 07:06

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00069	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:37	1
Copper	0.0093		0.0014	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:37	1
Manganese	0.0051		0.00069	0.000096	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.3		0.29	0.29	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1716

Lab Sample ID: 320-84527-4

Date Collected: 02/02/22 07:06

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.8892		0.2858	0.2858	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM010422-1717

Lab Sample ID: 320-84527-5

Date Collected: 02/02/22 06:57

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0023		0.00074	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:41	1
Copper	0.020		0.0015	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:41	1
Manganese	0.0098		0.00074	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:41	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84527-1

Client Sample ID: GILBANEPM010422-1717

Lab Sample ID: 320-84527-5

Date Collected: 02/02/22 06:57

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.31	0.31	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1717

Lab Sample ID: 320-84527-6

Date Collected: 02/02/22 06:57

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.5471		0.3041	0.3041	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM011822-1718

Lab Sample ID: 320-84527-7

Date Collected: 02/03/22 07:24

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.011		0.00069	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:44	1
Copper	0.10		0.0014	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:44	1
Manganese	0.017		0.00069	0.000096	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:44	1

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			02/05/22 11:00	1

Client Sample ID: GILBANETSP011822-1718

Lab Sample ID: 320-84527-8

Date Collected: 02/03/22 07:24

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	51.9145		0.2990	0.2990	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM011822-1719

Lab Sample ID: 320-84527-9

Date Collected: 02/03/22 07:09

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.011		0.00069	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:47	1
Copper	0.066		0.0014	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:47	1
Manganese	0.0052		0.00069	0.000096	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:47	1

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			02/05/22 11:00	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84527-1

Client Sample ID: GILBANETSP011822-1719

Lab Sample ID: 320-84527-10

Date Collected: 02/03/22 07:09

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.1733		0.2866	0.2866	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM011822-1720

Lab Sample ID: 320-84527-11

Date Collected: 02/03/22 06:58

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.010		0.00073	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:50	1
Copper	0.054		0.0015	0.00011	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:50	1
Manganese	0.0063		0.00073	0.00010	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:50	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.31	0.31	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP011822-1720

Lab Sample ID: 320-84527-12

Date Collected: 02/03/22 06:58

Matrix: Air

Date Received: 02/04/22 08:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.8159		0.3108	0.3108	ug/m3 (Air)			02/05/22 11:00	1

QC Sample Results

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

Job ID: 320-84527-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-564410/1-B
Matrix: Air
Analysis Batch: 564645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 564411

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:30	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:30	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/09/22 08:49	02/09/22 13:30	1

Lab Sample ID: LCS 320-564410/2-B
Matrix: Air
Analysis Batch: 564645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 564411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.232		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110

Lab Sample ID: LCSD 320-564410/3-B
Matrix: Air
Analysis Batch: 564645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 564411

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.228		ug/m3 (Air)		95	86 - 111	2	15
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	0	15
Manganese	0.240	0.246		ug/m3 (Air)		103	88 - 110	0	15

QC Association Summary

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

Job ID: 320-84527-1

Metals

Pre Prep Batch: 564410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84527-1	GILBANEPM010422-1715	Total/NA	Air	Filter to Air	
320-84527-3	GILBANEPM010422-1716	Total/NA	Air	Filter to Air	
320-84527-5	GILBANEPM010422-1717	Total/NA	Air	Filter to Air	
320-84527-7	GILBANEPM011822-1718	Total/NA	Air	Filter to Air	
320-84527-9	GILBANEPM011822-1719	Total/NA	Air	Filter to Air	
320-84527-11	GILBANEPM011822-1720	Total/NA	Air	Filter to Air	
MB 320-564410/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 564411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84527-1	GILBANEPM010422-1715	Total/NA	Air	3050B	564410
320-84527-3	GILBANEPM010422-1716	Total/NA	Air	3050B	564410
320-84527-5	GILBANEPM010422-1717	Total/NA	Air	3050B	564410
320-84527-7	GILBANEPM011822-1718	Total/NA	Air	3050B	564410
320-84527-9	GILBANEPM011822-1719	Total/NA	Air	3050B	564410
320-84527-11	GILBANEPM011822-1720	Total/NA	Air	3050B	564410
MB 320-564410/1-B	Method Blank	Total/NA	Air	3050B	564410
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	3050B	564410
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	564410

Analysis Batch: 564645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84527-1	GILBANEPM010422-1715	Total/NA	Air	6020	564411
320-84527-3	GILBANEPM010422-1716	Total/NA	Air	6020	564411
320-84527-5	GILBANEPM010422-1717	Total/NA	Air	6020	564411
320-84527-7	GILBANEPM011822-1718	Total/NA	Air	6020	564411
320-84527-9	GILBANEPM011822-1719	Total/NA	Air	6020	564411
320-84527-11	GILBANEPM011822-1720	Total/NA	Air	6020	564411
MB 320-564410/1-B	Method Blank	Total/NA	Air	6020	564411
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	6020	564411
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	6020	564411

General Chemistry

Pre Prep Batch: 564569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84527-2	GILBANETSP010422-1715	Total/NA	Air	Filter to Air	
320-84527-4	GILBANETSP010422-1716	Total/NA	Air	Filter to Air	
320-84527-6	GILBANETSP010422-1717	Total/NA	Air	Filter to Air	
320-84527-8	GILBANETSP011822-1718	Total/NA	Air	Filter to Air	
320-84527-10	GILBANETSP011822-1719	Total/NA	Air	Filter to Air	
320-84527-12	GILBANETSP011822-1720	Total/NA	Air	Filter to Air	

Analysis Batch: 564610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84527-1	GILBANEPM010422-1715	Total/NA	Air	PM10	
320-84527-3	GILBANEPM010422-1716	Total/NA	Air	PM10	
320-84527-5	GILBANEPM010422-1717	Total/NA	Air	PM10	
320-84527-7	GILBANEPM011822-1718	Total/NA	Air	PM10	

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QC Association Summary

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

Job ID: 320-84527-1

General Chemistry (Continued)

Analysis Batch: 564610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84527-9	GILBANEPM011822-1719	Total/NA	Air	PM10	
320-84527-11	GILBANEPM011822-1720	Total/NA	Air	PM10	

Analysis Batch: 564629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84527-2	GILBANETSP010422-1715	Total/NA	Air	40CFR50 App B	564569
320-84527-4	GILBANETSP010422-1716	Total/NA	Air	40CFR50 App B	564569
320-84527-6	GILBANETSP010422-1717	Total/NA	Air	40CFR50 App B	564569
320-84527-8	GILBANETSP011822-1718	Total/NA	Air	40CFR50 App B	564569
320-84527-10	GILBANETSP011822-1719	Total/NA	Air	40CFR50 App B	564569
320-84527-12	GILBANETSP011822-1720	Total/NA	Air	40CFR50 App B	564569

Lab Chronicle

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

Job ID: 320-84527-1

Client Sample ID: GILBANEPM010422-1715

Lab Sample ID: 320-84527-1

Date Collected: 02/02/22 07:19

Matrix: Air

Date Received: 02/04/22 08:00

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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:34	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0661 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1715

Lab Sample ID: 320-84527-2

Date Collected: 02/02/22 07:19

Matrix: Air

Date Received: 02/04/22 08:00

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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1716

Lab Sample ID: 320-84527-3

Date Collected: 02/02/22 07:06

Matrix: Air

Date Received: 02/04/22 08:00

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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:37	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0145 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1716

Lab Sample ID: 320-84527-4

Date Collected: 02/02/22 07:06

Matrix: Air

Date Received: 02/04/22 08:00

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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1717

Lab Sample ID: 320-84527-5

Date Collected: 02/02/22 06:57

Matrix: Air

Date Received: 02/04/22 08:00

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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:41	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0191 g	564610	02/05/22 11:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84527-1

Client Sample ID: GILBANETSP010422-1717

Lab Sample ID: 320-84527-6

Date Collected: 02/02/22 06:57

Matrix: Air

Date Received: 02/04/22 08:00

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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1718

Lab Sample ID: 320-84527-7

Date Collected: 02/03/22 07:24

Matrix: Air

Date Received: 02/04/22 08:00

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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:44	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0677 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1718

Lab Sample ID: 320-84527-8

Date Collected: 02/03/22 07:24

Matrix: Air

Date Received: 02/04/22 08:00

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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1719

Lab Sample ID: 320-84527-9

Date Collected: 02/03/22 07:09

Matrix: Air

Date Received: 02/04/22 08:00

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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:47	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0234 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1719

Lab Sample ID: 320-84527-10

Date Collected: 02/03/22 07:09

Matrix: Air

Date Received: 02/04/22 08:00

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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84527-1

Client Sample ID: GILBANEPM011822-1720

Lab Sample ID: 320-84527-11

Date Collected: 02/03/22 06:58

Matrix: Air

Date Received: 02/04/22 08:00

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					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:50	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0227 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1720

Lab Sample ID: 320-84527-12

Date Collected: 02/03/22 06:58

Matrix: Air

Date Received: 02/04/22 08:00

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			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	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: 320-84527-1

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	01-29-22 *

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

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

Job ID: 320-84527-1

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: 320-84527-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84527-1	GILBANEPM010422-1715	Air	02/02/22 07:19	02/04/22 08:00
320-84527-2	GILBANETSP010422-1715	Air	02/02/22 07:19	02/04/22 08:00
320-84527-3	GILBANEPM010422-1716	Air	02/02/22 07:06	02/04/22 08:00
320-84527-4	GILBANETSP010422-1716	Air	02/02/22 07:06	02/04/22 08:00
320-84527-5	GILBANEPM010422-1717	Air	02/02/22 06:57	02/04/22 08:00
320-84527-6	GILBANETSP010422-1717	Air	02/02/22 06:57	02/04/22 08:00
320-84527-7	GILBANEPM011822-1718	Air	02/03/22 07:24	02/04/22 08:00
320-84527-8	GILBANETSP011822-1718	Air	02/03/22 07:24	02/04/22 08:00
320-84527-9	GILBANEPM011822-1719	Air	02/03/22 07:09	02/04/22 08:00
320-84527-10	GILBANETSP011822-1719	Air	02/03/22 07:09	02/04/22 08:00
320-84527-11	GILBANEPM011822-1720	Air	02/03/22 06:58	02/04/22 08:00
320-84527-12	GILBANETSP011822-1720	Air	02/03/22 06:58	02/04/22 08:00

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT020322AIR

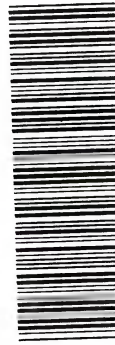


Project Name: Hunters Point Shipyard, Parcel E RA Phase 2
Project Number: J310000400
WBS Code: J310000400-016
Laboratory: EUROFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)
Ship to: 880 Riverside Parkway, West Sacramento, CA 95605
Event: Parcel E Phase 2 Air Monitoring February 2022

Comments:

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

Equipment:



320-84527 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring February 2022

Sample ID	Matrix	Date	Time	Samp Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Analytical Test Method	Location ID	Sample Depth (ft bgs)		Cooler	Comments
										Type	Top - Bottom		
1	A	02/02/2022	0719	KT	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1733.13 (M3)
2	A	02/02/2022	0719	KT	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1672.42 (M3)
3	A	02/02/2022	0706	KT	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1743.94 (M3)
4	A	02/02/2022	0706	KT	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1749.62 (M3)
5	A	02/02/2022	0657	KT	X				AMSE3	N1	0.00 0.00	1	VOLUME: 1625.42 (M3)
6	A	02/02/2022	0657	KT	X				AMSE3	N1	0.00 0.00	1	VOLUME: 1644.13 (M3)
7	A	02/03/2022	0724	KT	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1743.73 (M3)
8	A	02/03/2022	0724	KT	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1671.98 (M3)
9	A	02/03/2022	0709	KT	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1750.46 (M3)
10	A	02/03/2022	0709	KT	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1744.36 (M3)
11	A	02/03/2022	0658	KT	X				AMSE3	N1	0.00 0.00	1	VOLUME: 1637.11 (M3)

Relinquished by: (Signature) [Redacted] **Date** 2/3/22 **Time** 1600
Received by: (Signature) Fedex **Date** 2/3/22 **Time** 1600
Shipping Date / Carrier / Airbill Number
 Shipping Date: 2/3/2022 / FedEx 7759 4914 4380
Received by Laboratory: (Signature, Date, Time) & condition

Gilbane Navy, COC_Field
February 03, 2022

18200



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
Brett Womack
1655 Grant Street, Suite 1200, Concord, CA 94520
bwomack@ges-ais.com

COC # KT020322AIR



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)
PO: [Redacted]
Ship to: 880 Riverside Parkway, West Sacramento, CA 95605
Event: Parcel E Phase 2 Air Monitoring February 2022

Comments:

Equipment:

Analytical Test Method

CAIR - Air PM10	1	1	1
N0500 - Air TSP	1	1	1
SW6020 - Air Pb Mn Cu	1	1	1

Code Matrix

Code	Matrix
A	Air

Container/Preservative

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

Event: Parcel E Phase 2 Air Monitoring February 2022

Sample ID	Matrix	Date	Time	Samp Init.	Location ID	Depth (ft bgs)		Cooler	Comments
						Top	Bottom		
12	GILBANETSP011822-1720	A	02/03/2022	0658	AMSE3	0.00	0.00	1	VOLUME: 1608.92 (M3)
13									
14									
15									
16									
17									
18									
19									
20									
21									

Turnaround Time: 5 days

Received by: (Signature) [Redacted]

Date: 2/3/22 **Time:** 1600

Shipping Date / Carrier / Airbill Number
 Shipping Date: 2/3/2022 / FedEx 7759 4914 4380

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

Date: 2/4/22 **Time:** 8:00

18.200



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-84527-1

Login Number: 84527

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	Ambient temp.
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: 320-84660-1
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:
2/17/2022 4:21:10 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: 320-84660-1

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: 320-84660-1

Job ID: 320-84660-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84660-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2022 11:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.5° 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: 320-84660-1

Client Sample ID: GILBANEPM011822-1721

Lab Sample ID: 320-84660-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0050		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.094		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.86	0.86	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1721

Lab Sample ID: 320-84660-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.5994		0.8907	0.8907	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1722

Lab Sample ID: 320-84660-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0045		0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.16		0.0041	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.85	0.85	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1722

Lab Sample ID: 320-84660-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	37.7550		0.8465	0.8465	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1723

Lab Sample ID: 320-84660-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0054		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.059		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.022		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	24		0.91	0.91	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1723

Lab Sample ID: 320-84660-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	53.3484		1.0104	1.0104	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1764

Lab Sample ID: 320-84660-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0057		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.10		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1764

Lab Sample ID: 320-84660-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.0833		0.2910	0.2910	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1765

Lab Sample ID: 320-84660-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0036		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.77		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-84660-1

Client Sample ID: GILBANEPM020122-1765 (Continued)

Lab Sample ID: 320-84660-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	38		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1765

Lab Sample ID: 320-84660-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	45.3882		0.2840	0.2840	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: 320-84660-1

Client Sample ID: GILBANEPM011822-1721

Lab Sample ID: 320-84660-1

Date Collected: 02/03/22 15:32

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0050		0.0021	0.00031	ug/m3 (Air)		02/17/22 06:00	02/17/22 13:53	1
Copper	0.094		0.0041	0.00031	ug/m3 (Air)		02/17/22 06:00	02/17/22 13:53	1
Manganese	0.013		0.0021	0.00029	ug/m3 (Air)		02/17/22 06:00	02/17/22 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.86	0.86	ug/m3			02/13/22 12:00	1

Client Sample ID: GILBANETSP011822-1721

Lab Sample ID: 320-84660-2

Date Collected: 02/03/22 15:32

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.5994		0.8907	0.8907	ug/m3 (Air)			02/13/22 12:00	1

Client Sample ID: GILBANEPM011822-1722

Lab Sample ID: 320-84660-3

Date Collected: 02/03/22 15:23

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0045		0.0020	0.00030	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:03	1
Copper	0.16		0.0041	0.00030	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:03	1
Manganese	0.011		0.0020	0.00028	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:03	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.85	0.85	ug/m3			02/13/22 12:00	1

Client Sample ID: GILBANETSP011822-1722

Lab Sample ID: 320-84660-4

Date Collected: 02/03/22 15:23

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.7550		0.8465	0.8465	ug/m3 (Air)			02/13/22 12:00	1

Client Sample ID: GILBANEPM011822-1723

Lab Sample ID: 320-84660-5

Date Collected: 02/03/22 15:12

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0054		0.0022	0.00033	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:06	1
Copper	0.059		0.0044	0.00033	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:06	1
Manganese	0.022		0.0022	0.00031	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:06	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84660-1

Client Sample ID: GILBANEPM011822-1723

Lab Sample ID: 320-84660-5

Date Collected: 02/03/22 15:12

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	24		0.91	0.91	ug/m3			02/13/22 12:00	1

Client Sample ID: GILBANETSP011822-1723

Lab Sample ID: 320-84660-6

Date Collected: 02/03/22 15:12

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	53.3484		1.0104	1.0104	ug/m3 (Air)			02/13/22 12:00	1

Client Sample ID: GILBANEPM020122-1764

Lab Sample ID: 320-84660-7

Date Collected: 02/08/22 08:30

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0057		0.00068	0.00010	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:10	1
Copper	0.10		0.0014	0.00010	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:10	1
Manganese	0.015		0.00068	0.000096	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		0.28	0.28	ug/m3			02/13/22 12:00	1

Client Sample ID: GILBANETSP020122-1764

Lab Sample ID: 320-84660-8

Date Collected: 02/08/22 08:30

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.0833		0.2910	0.2910	ug/m3 (Air)			02/13/22 12:00	1

Client Sample ID: GILBANEPM020122-1765

Lab Sample ID: 320-84660-9

Date Collected: 02/08/22 08:21

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036		0.00067	0.00010	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:13	1
Copper	0.77		0.0013	0.00010	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:13	1
Manganese	0.011		0.00067	0.000094	ug/m3 (Air)		02/17/22 06:00	02/17/22 14:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	38		0.28	0.28	ug/m3			02/13/22 12:00	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84660-1

Client Sample ID: GILBANETSP020122-1765

Lab Sample ID: 320-84660-10

Date Collected: 02/08/22 08:21

Matrix: Air

Date Received: 02/09/22 11:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.3882		0.2840	0.2840	ug/m3 (Air)			02/13/22 12:00	1

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QC Sample Results

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

Job ID: 320-84660-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-566505/1-B
Matrix: Air
Analysis Batch: 566687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/17/22 06:00	02/17/22 13:21	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/17/22 06:00	02/17/22 13:21	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/17/22 06:00	02/17/22 13:21	1

Lab Sample ID: LCS 320-566505/2-B
Matrix: Air
Analysis Batch: 566687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.243		ug/m3 (Air)		101	86 - 111
Copper	0.240	0.247		ug/m3 (Air)		103	85 - 110
Manganese	0.240	0.250		ug/m3 (Air)		104	88 - 110

Lab Sample ID: LCSD 320-566505/3-B
Matrix: Air
Analysis Batch: 566687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 566513

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	1	15
Copper	0.240	0.241		ug/m3 (Air)		100	85 - 110	3	15
Manganese	0.240	0.244		ug/m3 (Air)		102	88 - 110	3	15

QC Association Summary

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

Job ID: 320-84660-1

Metals

Pre Prep Batch: 566505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84660-1	GILBANEPM011822-1721	Total/NA	Air	Filter to Air	
320-84660-3	GILBANEPM011822-1722	Total/NA	Air	Filter to Air	
320-84660-5	GILBANEPM011822-1723	Total/NA	Air	Filter to Air	
320-84660-7	GILBANEPM020122-1764	Total/NA	Air	Filter to Air	
320-84660-9	GILBANEPM020122-1765	Total/NA	Air	Filter to Air	
MB 320-566505/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-566505/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-566505/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 566513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84660-1	GILBANEPM011822-1721	Total/NA	Air	3050B	566505
320-84660-3	GILBANEPM011822-1722	Total/NA	Air	3050B	566505
320-84660-5	GILBANEPM011822-1723	Total/NA	Air	3050B	566505
320-84660-7	GILBANEPM020122-1764	Total/NA	Air	3050B	566505
320-84660-9	GILBANEPM020122-1765	Total/NA	Air	3050B	566505
MB 320-566505/1-B	Method Blank	Total/NA	Air	3050B	566505
LCS 320-566505/2-B	Lab Control Sample	Total/NA	Air	3050B	566505
LCSD 320-566505/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	566505

Analysis Batch: 566687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84660-1	GILBANEPM011822-1721	Total/NA	Air	6020	566513
320-84660-3	GILBANEPM011822-1722	Total/NA	Air	6020	566513
320-84660-5	GILBANEPM011822-1723	Total/NA	Air	6020	566513
320-84660-7	GILBANEPM020122-1764	Total/NA	Air	6020	566513
320-84660-9	GILBANEPM020122-1765	Total/NA	Air	6020	566513
MB 320-566505/1-B	Method Blank	Total/NA	Air	6020	566513
LCS 320-566505/2-B	Lab Control Sample	Total/NA	Air	6020	566513
LCSD 320-566505/3-B	Lab Control Sample Dup	Total/NA	Air	6020	566513

General Chemistry

Pre Prep Batch: 566061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84660-2	GILBANETSP011822-1721	Total/NA	Air	Filter to Air	
320-84660-4	GILBANETSP011822-1722	Total/NA	Air	Filter to Air	
320-84660-6	GILBANETSP011822-1723	Total/NA	Air	Filter to Air	
320-84660-8	GILBANETSP020122-1764	Total/NA	Air	Filter to Air	
320-84660-10	GILBANETSP020122-1765	Total/NA	Air	Filter to Air	

Analysis Batch: 566658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84660-1	GILBANEPM011822-1721	Total/NA	Air	PM10	
320-84660-3	GILBANEPM011822-1722	Total/NA	Air	PM10	
320-84660-5	GILBANEPM011822-1723	Total/NA	Air	PM10	
320-84660-7	GILBANEPM020122-1764	Total/NA	Air	PM10	
320-84660-9	GILBANEPM020122-1765	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-84660-1

General Chemistry

Analysis Batch: 566673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84660-2	GILBANETSP011822-1721	Total/NA	Air	40CFR50 App B	566061
320-84660-4	GILBANETSP011822-1722	Total/NA	Air	40CFR50 App B	566061
320-84660-6	GILBANETSP011822-1723	Total/NA	Air	40CFR50 App B	566061
320-84660-8	GILBANETSP020122-1764	Total/NA	Air	40CFR50 App B	566061
320-84660-10	GILBANETSP020122-1765	Total/NA	Air	40CFR50 App B	566061

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Lab Chronicle

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

Job ID: 320-84660-1

Client Sample ID: GILBANEPM011822-1721

Lab Sample ID: 320-84660-1

Date Collected: 02/03/22 15:32

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566505	02/17/22 05:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	566513	02/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			566687	02/17/22 13:53	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0118 g	566658	02/13/22 12:00	JMD	TAL SAC

Client Sample ID: GILBANETSP011822-1721

Lab Sample ID: 320-84660-2

Date Collected: 02/03/22 15:32

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			566673	02/13/22 12:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1722

Lab Sample ID: 320-84660-3

Date Collected: 02/03/22 15:23

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566505	02/17/22 05:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	566513	02/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			566687	02/17/22 14:03	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0121 g	566658	02/13/22 12:00	JMD	TAL SAC

Client Sample ID: GILBANETSP011822-1722

Lab Sample ID: 320-84660-4

Date Collected: 02/03/22 15:23

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			566673	02/13/22 12:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1723

Lab Sample ID: 320-84660-5

Date Collected: 02/03/22 15:12

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566505	02/17/22 05:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	566513	02/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			566687	02/17/22 14:06	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0134 g	566658	02/13/22 12:00	JMD	TAL SAC

Lab Chronicle

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

Job ID: 320-84660-1

Client Sample ID: GILBANETSP011822-1723

Lab Sample ID: 320-84660-6

Date Collected: 02/03/22 15:12

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			566673	02/13/22 12:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1764

Lab Sample ID: 320-84660-7

Date Collected: 02/08/22 08:30

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566505	02/17/22 05:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	566513	02/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			566687	02/17/22 14:10	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0590 g	566658	02/13/22 12:00	JMD	TAL SAC

Client Sample ID: GILBANETSP020122-1764

Lab Sample ID: 320-84660-8

Date Collected: 02/08/22 08:30

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			566673	02/13/22 12:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1765

Lab Sample ID: 320-84660-9

Date Collected: 02/08/22 08:21

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566505	02/17/22 05:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	566513	02/17/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			566687	02/17/22 14:13	SP	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0673 g	566658	02/13/22 12:00	JMD	TAL SAC

Client Sample ID: GILBANETSP020122-1765

Lab Sample ID: 320-84660-10

Date Collected: 02/08/22 08:21

Matrix: Air

Date Received: 02/09/22 11:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			566673	02/13/22 12:00	JMD	TAL SAC
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	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: 320-84660-1

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: 320-84660-1

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: 320-84660-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84660-1	GILBANEPM011822-1721	Air	02/03/22 15:32	02/09/22 11:20
320-84660-2	GILBANETSP011822-1721	Air	02/03/22 15:32	02/09/22 11:20
320-84660-3	GILBANEPM011822-1722	Air	02/03/22 15:23	02/09/22 11:20
320-84660-4	GILBANETSP011822-1722	Air	02/03/22 15:23	02/09/22 11:20
320-84660-5	GILBANEPM011822-1723	Air	02/03/22 15:12	02/09/22 11:20
320-84660-6	GILBANETSP011822-1723	Air	02/03/22 15:12	02/09/22 11:20
320-84660-7	GILBANEPM020122-1764	Air	02/08/22 08:30	02/09/22 11:20
320-84660-8	GILBANETSP020122-1764	Air	02/08/22 08:30	02/09/22 11:20
320-84660-9	GILBANEPM020122-1765	Air	02/08/22 08:21	02/09/22 11:20
320-84660-10	GILBANETSP020122-1765	Air	02/08/22 08:21	02/09/22 11:20

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT020822AIR



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)
Ship to: 880 Riverside Parkway, West Sacramento, CA 95605
Event: Parcel E Phase 2 Air Monitoring February 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 February 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	GILBANETSP011822-1721	02/03/2022	1532	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 584.50 (M3)
2	GILBANETSP011822-1721	02/03/2022	1532	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 561.36 (M3)
3	GILBANETSP011822-1722	02/03/2022	1523	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 590.82 (M3)
4	GILBANETSP011822-1722	02/03/2022	1523	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 590.65 (M3)
5	GILBANETSP011822-1723	02/03/2022	1512	KT	X	X	X	AMSE3	N2	0.00 0.00	1	VOLUME: 550.48 (M3)
6	GILBANETSP011822-1723	02/03/2022	1512	KT	X	X	X	AMSE3	N2	0.00 0.00	1	VOLUME: 494.86 (M3)
7	GILBANETSP020122-1764	02/08/2022	0830	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1755.07 (M3)
8	GILBANETSP020122-1764	02/08/2022	0830	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1718.23 (M3)
9	GILBANETSP020122-1765	02/08/2022	0821	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1779.42 (M3)
10	GILBANETSP020122-1765	02/08/2022	0821	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1760.37 (M3)

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	2/8/22	1600	Fedex	2/8/22	1600	Shipping Date: 2/8/2022 / FedEx 7759 8508 3660
[Redacted]			[Redacted]			Received by Laboratory: (Signature, Date, Time) & condition

16.5°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-84660-1

Login Number: 84660

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	ambient temp
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: 320-84771-1
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:
2/21/2022 7:35:09 PM

[REDACTED]

LINKS

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results through
TotalAccess

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: 320-84771-1

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: 320-84771-1

Job ID: 320-84771-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84771-1

Comments

No additional comments.

Receipt

The samples were received on 2/14/2022 8:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.1° 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: 320-84771-1

Client Sample ID: GILBANEPM011822-1724

Lab Sample ID: 320-84771-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0066		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.022		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	39		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1724

Lab Sample ID: 320-84771-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	65.5107		0.2959	0.2959	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1725

Lab Sample ID: 320-84771-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0041		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.090		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1725

Lab Sample ID: 320-84771-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.3478		0.2840	0.2840	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1726

Lab Sample ID: 320-84771-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.00064	0.000097	ug/m3 (Air)	1		6020	Total/NA
Copper	0.097		0.0013	0.000097	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.00064	0.000090	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.27	0.27	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1726

Lab Sample ID: 320-84771-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	31.7222		0.2863	0.2863	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1727

Lab Sample ID: 320-84771-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.00066	0.000099	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0013	0.000099	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.018		0.00066	0.000092	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	24		0.27	0.27	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1727

Lab Sample ID: 320-84771-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.0115		0.2718	0.2718	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: 320-84771-1

Client Sample ID: GILBANEPM011822-1724

Lab Sample ID: 320-84771-1

Date Collected: 02/09/22 08:49

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0066		0.00069	0.00010	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:41	1
Copper	0.13		0.0014	0.00010	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:41	1
Manganese	0.022		0.00069	0.000097	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:41	1

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			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1724

Lab Sample ID: 320-84771-2

Date Collected: 02/09/22 08:49

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	65.5107		0.2959	0.2959	ug/m3 (Air)			02/18/22 11:46	1

Client Sample ID: GILBANEPM011822-1725

Lab Sample ID: 320-84771-3

Date Collected: 02/09/22 08:38

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0041		0.00068	0.00010	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:44	1
Copper	0.090		0.0014	0.00010	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:44	1
Manganese	0.011		0.00068	0.000095	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	32		0.28	0.28	ug/m3			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1725

Lab Sample ID: 320-84771-4

Date Collected: 02/09/22 08:38

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.3478		0.2840	0.2840	ug/m3 (Air)			02/18/22 11:46	1

Client Sample ID: GILBANEPM011822-1726

Lab Sample ID: 320-84771-5

Date Collected: 02/10/22 09:50

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00064	0.000097	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:48	1
Copper	0.097		0.0013	0.000097	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:48	1
Manganese	0.015		0.00064	0.000090	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:48	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84771-1

Client Sample ID: GILBANEPM011822-1726

Lab Sample ID: 320-84771-5

Date Collected: 02/10/22 09:50

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.27	0.27	ug/m3			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1726

Lab Sample ID: 320-84771-6

Date Collected: 02/10/22 09:50

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.7222		0.2863	0.2863	ug/m3 (Air)			02/18/22 11:46	1

Client Sample ID: GILBANEPM011822-1727

Lab Sample ID: 320-84771-7

Date Collected: 02/10/22 09:43

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.00066	0.000099	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:51	1
Copper	0.13		0.0013	0.000099	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:51	1
Manganese	0.018		0.00066	0.000092	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	24		0.27	0.27	ug/m3			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1727

Lab Sample ID: 320-84771-8

Date Collected: 02/10/22 09:43

Matrix: Air

Date Received: 02/14/22 08:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.0115		0.2718	0.2718	ug/m3 (Air)			02/18/22 11:46	1

QC Sample Results

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

Job ID: 320-84771-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-567154/1-B
Matrix: Air
Analysis Batch: 567342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:12	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:12	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:12	1

Lab Sample ID: LCS 320-567154/2-B
Matrix: Air
Analysis Batch: 567342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.231		ug/m3 (Air)		96	86 - 111
Copper	0.240	0.238		ug/m3 (Air)		99	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-567154/3-B
Matrix: Air
Analysis Batch: 567342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.226		ug/m3 (Air)		94	86 - 111	2	15
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	2	15
Manganese	0.240	0.249		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: 320-84771-1

Metals

Pre Prep Batch: 567154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84771-1	GILBANEPM011822-1724	Total/NA	Air	Filter to Air	
320-84771-3	GILBANEPM011822-1725	Total/NA	Air	Filter to Air	
320-84771-5	GILBANEPM011822-1726	Total/NA	Air	Filter to Air	
320-84771-7	GILBANEPM011822-1727	Total/NA	Air	Filter to Air	
MB 320-567154/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-567154/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-567154/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 567181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84771-1	GILBANEPM011822-1724	Total/NA	Air	3050B	567154
320-84771-3	GILBANEPM011822-1725	Total/NA	Air	3050B	567154
320-84771-5	GILBANEPM011822-1726	Total/NA	Air	3050B	567154
320-84771-7	GILBANEPM011822-1727	Total/NA	Air	3050B	567154
MB 320-567154/1-B	Method Blank	Total/NA	Air	3050B	567154
LCS 320-567154/2-B	Lab Control Sample	Total/NA	Air	3050B	567154
LCSD 320-567154/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	567154

Analysis Batch: 567342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84771-1	GILBANEPM011822-1724	Total/NA	Air	6020	567181
320-84771-3	GILBANEPM011822-1725	Total/NA	Air	6020	567181
320-84771-5	GILBANEPM011822-1726	Total/NA	Air	6020	567181
320-84771-7	GILBANEPM011822-1727	Total/NA	Air	6020	567181
MB 320-567154/1-B	Method Blank	Total/NA	Air	6020	567181
LCS 320-567154/2-B	Lab Control Sample	Total/NA	Air	6020	567181
LCSD 320-567154/3-B	Lab Control Sample Dup	Total/NA	Air	6020	567181

General Chemistry

Pre Prep Batch: 566061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84771-2	GILBANETSP011822-1724	Total/NA	Air	Filter to Air	
320-84771-4	GILBANETSP011822-1725	Total/NA	Air	Filter to Air	
320-84771-6	GILBANETSP011822-1726	Total/NA	Air	Filter to Air	
320-84771-8	GILBANETSP011822-1727	Total/NA	Air	Filter to Air	

Analysis Batch: 567301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84771-2	GILBANETSP011822-1724	Total/NA	Air	40CFR50 App B	566061
320-84771-4	GILBANETSP011822-1725	Total/NA	Air	40CFR50 App B	566061
320-84771-6	GILBANETSP011822-1726	Total/NA	Air	40CFR50 App B	566061
320-84771-8	GILBANETSP011822-1727	Total/NA	Air	40CFR50 App B	566061

Analysis Batch: 567303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84771-1	GILBANEPM011822-1724	Total/NA	Air	PM10	
320-84771-3	GILBANEPM011822-1725	Total/NA	Air	PM10	
320-84771-5	GILBANEPM011822-1726	Total/NA	Air	PM10	
320-84771-7	GILBANEPM011822-1727	Total/NA	Air	PM10	

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-84771-1

Client Sample ID: GILBANEPM011822-1724

Lab Sample ID: 320-84771-1

Date Collected: 02/09/22 08:49

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567342	02/21/22 16:41	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0679 g	567303	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1724

Lab Sample ID: 320-84771-2

Date Collected: 02/09/22 08:49

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			567301	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1725

Lab Sample ID: 320-84771-3

Date Collected: 02/09/22 08:38

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567342	02/21/22 16:44	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0562 g	567303	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1725

Lab Sample ID: 320-84771-4

Date Collected: 02/09/22 08:38

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			567301	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1726

Lab Sample ID: 320-84771-5

Date Collected: 02/10/22 09:50

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567342	02/21/22 16:48	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0422 g	567303	02/18/22 11:46	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84771-1

Client Sample ID: GILBANETSP011822-1726

Lab Sample ID: 320-84771-6

Date Collected: 02/10/22 09:50

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			567301	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1727

Lab Sample ID: 320-84771-7

Date Collected: 02/10/22 09:43

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567342	02/21/22 16:51	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0447 g	567303	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1727

Lab Sample ID: 320-84771-8

Date Collected: 02/10/22 09:43

Matrix: Air

Date Received: 02/14/22 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					566061	02/16/22 05:17	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			567301	02/18/22 11:46	DPM	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: 320-84771-1

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: 320-84771-1

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: 320-84771-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84771-1	GILBANEPM011822-1724	Air	02/09/22 08:49	02/14/22 08:50
320-84771-2	GILBANETSP011822-1724	Air	02/09/22 08:49	02/14/22 08:50
320-84771-3	GILBANEPM011822-1725	Air	02/09/22 08:38	02/14/22 08:50
320-84771-4	GILBANETSP011822-1725	Air	02/09/22 08:38	02/14/22 08:50
320-84771-5	GILBANEPM011822-1726	Air	02/10/22 09:50	02/14/22 08:50
320-84771-6	GILBANETSP011822-1726	Air	02/10/22 09:50	02/14/22 08:50
320-84771-7	GILBANEPM011822-1727	Air	02/10/22 09:43	02/14/22 08:50
320-84771-8	GILBANETSP011822-1727	Air	02/10/22 09:43	02/14/22 08:50

- 1
- 2
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal
Brett Womack
1655 Grant Street, Suite 1200, Concord, CA 94520
bwomack@ges-ais.com

COC # KT021022AIR




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 February 2022
POC: [Redacted]
Ship to: 880 Riverside Parkway, West Sacramento, CA 95605

Comments:

Equipment:

Code	Matrix
A	Air

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



320-84771 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring February 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	02/09/2022	0849	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1729.69 (M3)
2	A	02/09/2022	0849	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1689.80 (M3)
3	A	02/09/2022	0838	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1771.67 (M3)
4	A	02/09/2022	0838	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1760.60 (M3)
5	A	02/10/2022	0950	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1860.79 (M3)
6	A	02/10/2022	0950	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1746.41 (M3)
7	A	02/10/2022	0943	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1825.58 (M3)
8	A	02/10/2022	0943	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1839.47 (M3)
9												
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	2/11/22	1600	Fedex	2/11/22	1600	Shipping Date: 2/10/2022 / FedEx 7760 0893 3870
			[Redacted]	2/14/22	1830	Received by Laboratory: (Signature, Date, Time) & condition

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



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-84771-1

Login Number: 84771

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: 320-84861-1
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:
2/22/2022 4:22:31 PM

[REDACTED]

LINKS

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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: 320-84861-1

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: 320-84861-1

Job ID: 320-84861-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84861-1

Comments

No additional comments.

Receipt

The samples were received on 2/16/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.0° C.

Metals

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

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Detection Summary

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

Job ID: 320-84861-1

Client Sample ID: GILBANEPM011822-1728

Lab Sample ID: 320-84861-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.0019	0.00028	ug/m3 (Air)	1		6020	Total/NA
Copper	0.044		0.0038	0.00028	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		0.0019	0.00026	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		0.79	0.79	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1728

Lab Sample ID: 320-84861-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	43.4956		0.8301	0.8301	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1729

Lab Sample ID: 320-84861-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0032		0.0019	0.00029	ug/m3 (Air)	1		6020	Total/NA
Copper	0.084		0.0038	0.00029	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.0019	0.00027	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.80	0.80	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1729

Lab Sample ID: 320-84861-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.0875		0.7986	0.7986	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1730

Lab Sample ID: 320-84861-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0057		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.090		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.018		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	28		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1730

Lab Sample ID: 320-84861-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	51.3743		0.3008	0.3008	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1731

Lab Sample ID: 320-84861-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0045		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.071		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00070	0.000099	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: GILBANETSP011822-1731

Lab Sample ID: 320-84861-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.0534		0.2937	0.2937	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: 320-84861-1

Client Sample ID: GILBANEPM011822-1728

Lab Sample ID: 320-84861-1

Date Collected: 02/10/22 18:30

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.0019	0.00028	ug/m3 (Air)		02/21/22 09:03	02/22/22 12:25	1
Copper	0.044		0.0038	0.00028	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:07	1
Manganese	0.015		0.0019	0.00026	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	25		0.79	0.79	ug/m3			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1728

Lab Sample ID: 320-84861-2

Date Collected: 02/10/22 18:30

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	43.4956		0.8301	0.8301	ug/m3 (Air)			02/18/22 11:46	1

Client Sample ID: GILBANEPM011822-1729

Lab Sample ID: 320-84861-3

Date Collected: 02/10/22 18:19

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0032		0.0019	0.00029	ug/m3 (Air)		02/21/22 09:03	02/22/22 12:28	1
Copper	0.084		0.0038	0.00029	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:11	1
Manganese	0.012		0.0019	0.00027	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.80	0.80	ug/m3			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1729

Lab Sample ID: 320-84861-4

Date Collected: 02/10/22 18:19

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.0875		0.7986	0.7986	ug/m3 (Air)			02/18/22 11:46	1

Client Sample ID: GILBANEPM011822-1730

Lab Sample ID: 320-84861-5

Date Collected: 02/15/22 10:55

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0057		0.00069	0.00010	ug/m3 (Air)		02/21/22 09:03	02/22/22 12:31	1
Copper	0.090		0.0014	0.00010	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:14	1
Manganese	0.018		0.00069	0.000096	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:14	1

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Client Sample Results

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

Job ID: 320-84861-1

Client Sample ID: GILBANEPM011822-1730

Lab Sample ID: 320-84861-5

Date Collected: 02/15/22 10:55

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.29	0.29	ug/m3			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1730

Lab Sample ID: 320-84861-6

Date Collected: 02/15/22 10:55

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	51.3743		0.3008	0.3008	ug/m3 (Air)			02/18/22 11:46	1

Client Sample ID: GILBANEPM011822-1731

Lab Sample ID: 320-84861-7

Date Collected: 02/15/22 10:34

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0045		0.00070	0.00011	ug/m3 (Air)		02/21/22 09:03	02/22/22 12:35	1
Copper	0.071		0.0014	0.00011	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:17	1
Manganese	0.011		0.00070	0.000099	ug/m3 (Air)		02/21/22 09:03	02/21/22 17:17	1

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			02/18/22 11:46	1

Client Sample ID: GILBANETSP011822-1731

Lab Sample ID: 320-84861-8

Date Collected: 02/15/22 10:34

Matrix: Air

Date Received: 02/16/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.0534		0.2937	0.2937	ug/m3 (Air)			02/18/22 11:46	1

QC Sample Results

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

Job ID: 320-84861-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-567154/1-B
Matrix: Air
Analysis Batch: 567342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 567181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:12	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:12	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/21/22 09:03	02/21/22 16:12	1

Lab Sample ID: LCS 320-567154/2-B
Matrix: Air
Analysis Batch: 567342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.231		ug/m3 (Air)		96	86 - 111
Copper	0.240	0.238		ug/m3 (Air)		99	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-567154/3-B
Matrix: Air
Analysis Batch: 567342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 567181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.226		ug/m3 (Air)		94	86 - 111	2	15
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	2	15
Manganese	0.240	0.249		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: 320-84861-1

Metals

Pre Prep Batch: 567154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-1	GILBANEPM011822-1728	Total/NA	Air	Filter to Air	
320-84861-3	GILBANEPM011822-1729	Total/NA	Air	Filter to Air	
320-84861-5	GILBANEPM011822-1730	Total/NA	Air	Filter to Air	
320-84861-7	GILBANEPM011822-1731	Total/NA	Air	Filter to Air	
MB 320-567154/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-567154/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-567154/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 567181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-1	GILBANEPM011822-1728	Total/NA	Air	3050B	567154
320-84861-3	GILBANEPM011822-1729	Total/NA	Air	3050B	567154
320-84861-5	GILBANEPM011822-1730	Total/NA	Air	3050B	567154
320-84861-7	GILBANEPM011822-1731	Total/NA	Air	3050B	567154
MB 320-567154/1-B	Method Blank	Total/NA	Air	3050B	567154
LCS 320-567154/2-B	Lab Control Sample	Total/NA	Air	3050B	567154
LCSD 320-567154/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	567154

Analysis Batch: 567342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-567154/1-B	Method Blank	Total/NA	Air	6020	567181
LCS 320-567154/2-B	Lab Control Sample	Total/NA	Air	6020	567181
LCSD 320-567154/3-B	Lab Control Sample Dup	Total/NA	Air	6020	567181

Analysis Batch: 567408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-1	GILBANEPM011822-1728	Total/NA	Air	6020	567181
320-84861-3	GILBANEPM011822-1729	Total/NA	Air	6020	567181
320-84861-5	GILBANEPM011822-1730	Total/NA	Air	6020	567181
320-84861-7	GILBANEPM011822-1731	Total/NA	Air	6020	567181

Analysis Batch: 567510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-1	GILBANEPM011822-1728	Total/NA	Air	6020	567181
320-84861-3	GILBANEPM011822-1729	Total/NA	Air	6020	567181
320-84861-5	GILBANEPM011822-1730	Total/NA	Air	6020	567181
320-84861-7	GILBANEPM011822-1731	Total/NA	Air	6020	567181

General Chemistry

Pre Prep Batch: 567295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-2	GILBANETSP011822-1728	Total/NA	Air	Filter to Air	
320-84861-4	GILBANETSP011822-1729	Total/NA	Air	Filter to Air	
320-84861-6	GILBANETSP011822-1730	Total/NA	Air	Filter to Air	
320-84861-8	GILBANETSP011822-1731	Total/NA	Air	Filter to Air	

Analysis Batch: 567301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-2	GILBANETSP011822-1728	Total/NA	Air	40CFR50 App B	567295
320-84861-4	GILBANETSP011822-1729	Total/NA	Air	40CFR50 App B	567295

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-84861-1

General Chemistry (Continued)

Analysis Batch: 567301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-6	GILBANETSP011822-1730	Total/NA	Air	40CFR50 App B	567295
320-84861-8	GILBANETSP011822-1731	Total/NA	Air	40CFR50 App B	567295

Analysis Batch: 567303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84861-1	GILBANEPM011822-1728	Total/NA	Air	PM10	
320-84861-3	GILBANEPM011822-1729	Total/NA	Air	PM10	
320-84861-5	GILBANEPM011822-1730	Total/NA	Air	PM10	
320-84861-7	GILBANEPM011822-1731	Total/NA	Air	PM10	

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Lab Chronicle

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

Job ID: 320-84861-1

Client Sample ID: GILBANEPM011822-1728

Lab Sample ID: 320-84861-1

Date Collected: 02/10/22 18:30

Matrix: Air

Date Received: 02/16/22 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					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567408	02/21/22 17:07	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567510	02/22/22 12:25	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0159 g	567303	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1728

Lab Sample ID: 320-84861-2

Date Collected: 02/10/22 18:30

Matrix: Air

Date Received: 02/16/22 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			567301	02/18/22 11:46	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567295	02/21/22 14:38	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1729

Lab Sample ID: 320-84861-3

Date Collected: 02/10/22 18:19

Matrix: Air

Date Received: 02/16/22 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					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567408	02/21/22 17:11	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567510	02/22/22 12:28	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0139 g	567303	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1729

Lab Sample ID: 320-84861-4

Date Collected: 02/10/22 18:19

Matrix: Air

Date Received: 02/16/22 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			567301	02/18/22 11:46	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567295	02/21/22 14:38	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84861-1

Client Sample ID: GILBANEPM011822-1730

Lab Sample ID: 320-84861-5

Date Collected: 02/15/22 10:55

Matrix: Air

Date Received: 02/16/22 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					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567408	02/21/22 17:14	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567510	02/22/22 12:31	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0482 g	567303	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1730

Lab Sample ID: 320-84861-6

Date Collected: 02/15/22 10:55

Matrix: Air

Date Received: 02/16/22 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			567301	02/18/22 11:46	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567295	02/21/22 14:38	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1731

Lab Sample ID: 320-84861-7

Date Collected: 02/15/22 10:34

Matrix: Air

Date Received: 02/16/22 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					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567408	02/21/22 17:17	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567154	02/21/22 07:41	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	567181	02/21/22 09:03	NIM	TAL SAC
Total/NA	Analysis	6020		1			567510	02/22/22 12:35	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0434 g	567303	02/18/22 11:46	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1731

Lab Sample ID: 320-84861-8

Date Collected: 02/15/22 10:34

Matrix: Air

Date Received: 02/16/22 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			567301	02/18/22 11:46	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					567295	02/21/22 14:38	DPM	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: 320-84861-1

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: 320-84861-1

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: 320-84861-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84861-1	GILBANEPM011822-1728	Air	02/10/22 18:30	02/16/22 10:00
320-84861-2	GILBANETSP011822-1728	Air	02/10/22 18:30	02/16/22 10:00
320-84861-3	GILBANEPM011822-1729	Air	02/10/22 18:19	02/16/22 10:00
320-84861-4	GILBANETSP011822-1729	Air	02/10/22 18:19	02/16/22 10:00
320-84861-5	GILBANEPM011822-1730	Air	02/15/22 10:55	02/16/22 10:00
320-84861-6	GILBANETSP011822-1730	Air	02/15/22 10:55	02/16/22 10:00
320-84861-7	GILBANEPM011822-1731	Air	02/15/22 10:34	02/16/22 10:00
320-84861-8	GILBANETSP011822-1731	Air	02/15/22 10:34	02/16/22 10:00

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**CHAIN-OF-CUSTODY
RECORD**


Gilbane Federal

COC # KT021522AIR



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)
Ship to: 880 Riverside Parkway, West Sacramento, CA 95605
Event: Parcel E Phase 2 Air Monitoring February 2022

Comments:


 320-84861 Chain of Custody

Equipment:

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

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW620 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
											Top	Bottom		
1	A	02/10/2022	1830	KT	CAAIR - Air PM10	X	X	X	AMSE1	N2	0.00	0.00	1	VOLUME: 636.17
2	A	02/10/2022	1830	KT	CAAIR - Air PM10	X	X	X	AMSE1	N2	0.00	0.00	1	VOLUME: 602.36
3	A	02/10/2022	1819	KT	CAAIR - Air PM10	X	X	X	AMSE2	N2	0.00	0.00	1	VOLUME: 627.85
4	A	02/10/2022	1819	KT	CAAIR - Air PM10	X	X	X	AMSE2	N2	0.00	0.00	1	VOLUME: 626.13
5	A	02/15/2022	1055	KT	CAAIR - Air PM10	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1743.28
6	A	02/15/2022	1055	KT	CAAIR - Air PM10	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1662.31
7	A	02/15/2022	1034	KT	CAAIR - Air PM10	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1705.60
8	A	02/15/2022	1034	KT	CAAIR - Air PM10	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1702.37
9				TP										
10														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	2/15/22	1600	Fedex	2/15/22	1600	Shipping Date: 2/15/2022/FedEx 7760 4653 4762
			[Redacted]	2-16-22	1000	Received by Laboratory: (Signature, Date, Time) & condition

Feb 16, 2022
 Soe-c-16-22



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-84861-1

Login Number: 84861

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: 320-85028-1
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:
3/3/2022 9:49:47 AM

[REDACTED]

LINKS

Review your project
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: 320-85028-1

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: 320-85028-1

Job ID: 320-85028-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85028-1

Receipt

The samples were received on 2/22/2022 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 17.7° 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: 320-85028-1

Client Sample ID: GILBANEPM011822-1732

Lab Sample ID: 320-85028-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.051		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014		0.00071	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1732

Lab Sample ID: 320-85028-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	48.2728		0.3090	0.3090	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1733

Lab Sample ID: 320-85028-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0022		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0072		0.00071	0.000099	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: GILBANETSP011822-1733

Lab Sample ID: 320-85028-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	25.6418		0.2947	0.2947	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1734

Lab Sample ID: 320-85028-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0046		0.00077	0.00012	ug/m3 (Air)	1		6020	Total/NA
Copper	0.15		0.0015	0.00012	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014		0.00077	0.00011	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21		0.32	0.32	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1734

Lab Sample ID: 320-85028-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.8524		0.3340	0.3340	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1735

Lab Sample ID: 320-85028-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0023		0.00076	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.027		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0093		0.00076	0.00011	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	18		0.32	0.32	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1735

Lab Sample ID: 320-85028-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	37.3011		0.3166	0.3166	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: 320-85028-1

Client Sample ID: GILBANEPM011822-1732

Lab Sample ID: 320-85028-1

Date Collected: 02/16/22 10:04

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.00071	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 18:55	1
Copper	0.051		0.0014	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 14:44	1
Manganese	0.014		0.00071	0.00010	ug/m3 (Air)		02/28/22 15:00	03/01/22 14:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.30	0.30	ug/m3			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1732

Lab Sample ID: 320-85028-2

Date Collected: 02/16/22 10:04

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	48.2728		0.3090	0.3090	ug/m3 (Air)			02/24/22 15:00	1

Client Sample ID: GILBANEPM011822-1733

Lab Sample ID: 320-85028-3

Date Collected: 02/16/22 09:52

Matrix: Air

Date Received: 02/22/22 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		0.00071	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 19:04	1
Copper	0.016		0.0014	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 14:53	1
Manganese	0.0072		0.00071	0.000099	ug/m3 (Air)		02/28/22 15:00	03/01/22 14:53	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			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1733

Lab Sample ID: 320-85028-4

Date Collected: 02/16/22 09:52

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.6418		0.2947	0.2947	ug/m3 (Air)			02/24/22 15:00	1

Client Sample ID: GILBANEPM011822-1734

Lab Sample ID: 320-85028-5

Date Collected: 02/17/22 07:36

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0046		0.00077	0.00012	ug/m3 (Air)		02/28/22 15:00	03/01/22 19:08	1
Copper	0.15		0.0015	0.00012	ug/m3 (Air)		02/28/22 15:00	03/01/22 14:56	1
Manganese	0.014		0.00077	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 14:56	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85028-1

Client Sample ID: GILBANEPM011822-1734

Lab Sample ID: 320-85028-5

Date Collected: 02/17/22 07:36

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.32	0.32	ug/m3			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1734

Lab Sample ID: 320-85028-6

Date Collected: 02/17/22 07:36

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.8524		0.3340	0.3340	ug/m3 (Air)			02/24/22 15:00	1

Client Sample ID: GILBANEPM011822-1735

Lab Sample ID: 320-85028-7

Date Collected: 02/17/22 07:25

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0023		0.00076	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 19:11	1
Copper	0.027		0.0015	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:00	1
Manganese	0.0093		0.00076	0.00011	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18		0.32	0.32	ug/m3			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1735

Lab Sample ID: 320-85028-8

Date Collected: 02/17/22 07:25

Matrix: Air

Date Received: 02/22/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.3011		0.3166	0.3166	ug/m3 (Air)			02/24/22 15:00	1

QC Sample Results

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

Job ID: 320-85028-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-569122/1-B
Matrix: Air
Analysis Batch: 569483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/28/22 15:00	03/01/22 13:11	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/28/22 15:00	03/01/22 13:11	1

Lab Sample ID: MB 320-569122/1-B
Matrix: Air
Analysis Batch: 569726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/28/22 15:00	03/02/22 12:18	1

Lab Sample ID: LCS 320-569122/2-B
Matrix: Air
Analysis Batch: 569483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110

Lab Sample ID: LCS 320-569122/2-B
Matrix: Air
Analysis Batch: 569726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.253		ug/m3 (Air)		105	86 - 111

Lab Sample ID: LCSD 320-569122/3-B
Matrix: Air
Analysis Batch: 569483

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110	3	15
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110	2	15

Lab Sample ID: LCSD 320-569122/3-B
Matrix: Air
Analysis Batch: 569726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.250		ug/m3 (Air)		104	86 - 111	1	15

QC Association Summary

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

Job ID: 320-85028-1

Metals

Pre Prep Batch: 569122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85028-1	GILBANEPM011822-1732	Total/NA	Air	Filter to Air	
320-85028-3	GILBANEPM011822-1733	Total/NA	Air	Filter to Air	
320-85028-5	GILBANEPM011822-1734	Total/NA	Air	Filter to Air	
320-85028-7	GILBANEPM011822-1735	Total/NA	Air	Filter to Air	
MB 320-569122/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 569134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85028-1	GILBANEPM011822-1732	Total/NA	Air	3050B	569122
320-85028-3	GILBANEPM011822-1733	Total/NA	Air	3050B	569122
320-85028-5	GILBANEPM011822-1734	Total/NA	Air	3050B	569122
320-85028-7	GILBANEPM011822-1735	Total/NA	Air	3050B	569122
MB 320-569122/1-B	Method Blank	Total/NA	Air	3050B	569122
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	3050B	569122
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	569122

Analysis Batch: 569483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85028-1	GILBANEPM011822-1732	Total/NA	Air	6020	569134
320-85028-3	GILBANEPM011822-1733	Total/NA	Air	6020	569134
320-85028-5	GILBANEPM011822-1734	Total/NA	Air	6020	569134
320-85028-7	GILBANEPM011822-1735	Total/NA	Air	6020	569134
MB 320-569122/1-B	Method Blank	Total/NA	Air	6020	569134
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	6020	569134
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	6020	569134

Analysis Batch: 569591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85028-1	GILBANEPM011822-1732	Total/NA	Air	6020	569134
320-85028-3	GILBANEPM011822-1733	Total/NA	Air	6020	569134
320-85028-5	GILBANEPM011822-1734	Total/NA	Air	6020	569134
320-85028-7	GILBANEPM011822-1735	Total/NA	Air	6020	569134

Analysis Batch: 569726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-569122/1-B	Method Blank	Total/NA	Air	6020	569134
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	6020	569134
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	6020	569134

General Chemistry

Analysis Batch: 569787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85028-1	GILBANEPM011822-1732	Total/NA	Air	PM10	
320-85028-3	GILBANEPM011822-1733	Total/NA	Air	PM10	
320-85028-5	GILBANEPM011822-1734	Total/NA	Air	PM10	
320-85028-7	GILBANEPM011822-1735	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-85028-1

General Chemistry

Analysis Batch: 569792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85028-2	GILBANETSP011822-1732	Total/NA	Air	40CFR50 App B	569794
320-85028-4	GILBANETSP011822-1733	Total/NA	Air	40CFR50 App B	569794
320-85028-6	GILBANETSP011822-1734	Total/NA	Air	40CFR50 App B	569794
320-85028-8	GILBANETSP011822-1735	Total/NA	Air	40CFR50 App B	569794

Pre Prep Batch: 569794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85028-2	GILBANETSP011822-1732	Total/NA	Air	Filter to Air	
320-85028-4	GILBANETSP011822-1733	Total/NA	Air	Filter to Air	
320-85028-6	GILBANETSP011822-1734	Total/NA	Air	Filter to Air	
320-85028-8	GILBANETSP011822-1735	Total/NA	Air	Filter to Air	

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Lab Chronicle

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

Job ID: 320-85028-1

Client Sample ID: GILBANEPM011822-1732

Lab Sample ID: 320-85028-1

Date Collected: 02/16/22 10:04

Matrix: Air

Date Received: 02/22/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 14:44	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 18:55	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0491 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1732

Lab Sample ID: 320-85028-2

Date Collected: 02/16/22 10:04

Matrix: Air

Date Received: 02/22/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1733

Lab Sample ID: 320-85028-3

Date Collected: 02/16/22 09:52

Matrix: Air

Date Received: 02/22/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 14:53	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 19:04	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0267 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1733

Lab Sample ID: 320-85028-4

Date Collected: 02/16/22 09:52

Matrix: Air

Date Received: 02/22/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85028-1

Client Sample ID: GILBANEPM011822-1734

Lab Sample ID: 320-85028-5

Date Collected: 02/17/22 07:36

Matrix: Air

Date Received: 02/22/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 14:56	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 19:08	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0326 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1734

Lab Sample ID: 320-85028-6

Date Collected: 02/17/22 07:36

Matrix: Air

Date Received: 02/22/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1735

Lab Sample ID: 320-85028-7

Date Collected: 02/17/22 07:25

Matrix: Air

Date Received: 02/22/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 19:11	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0290 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1735

Lab Sample ID: 320-85028-8

Date Collected: 02/17/22 07:25

Matrix: Air

Date Received: 02/22/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	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: 320-85028-1

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: 320-85028-1

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: 320-85028-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85028-1	GILBANEPM011822-1732	Air	02/16/22 10:04	02/22/22 10:00
320-85028-2	GILBANETSP011822-1732	Air	02/16/22 10:04	02/22/22 10:00
320-85028-3	GILBANEPM011822-1733	Air	02/16/22 09:52	02/22/22 10:00
320-85028-4	GILBANETSP011822-1733	Air	02/16/22 09:52	02/22/22 10:00
320-85028-5	GILBANEPM011822-1734	Air	02/17/22 07:36	02/22/22 10:00
320-85028-6	GILBANETSP011822-1734	Air	02/17/22 07:36	02/22/22 10:00
320-85028-7	GILBANEPM011822-1735	Air	02/17/22 07:25	02/22/22 10:00
320-85028-8	GILBANETSP011822-1735	Air	02/17/22 07:25	02/22/22 10:00

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT021722AIR



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

Comments:

320-85028 Chain of Custody

Equipment:

Code	Matrix
A	Air

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

Event: Parcel E Phase 2 Air Monitoring February 2022														
Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
											Top	Bottom		
1	A	02/16/2022	1004	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1687.17 (M3)
2	A	02/16/2022	1004	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1617.89 (M3)
3	A	02/16/2022	0952	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1698.38 (M3)
4	A	02/16/2022	0952	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1696.45 (M3)
5	A	02/17/2022	0736	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1564.67 (M3)
6	A	02/17/2022	0736	KT	CAIR - Air PM10	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1497.18 (M3)
7	A	02/17/2022	0725	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1578.80 (M3)
8	A	02/17/2022	0725	KT	CAIR - Air PM10	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1579.04 (M3)
9			TP											
10														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	2/17/22	1600	Fedex	2/17/22	1600	Shipping Date: 2/17/2022 / FedEx 7760 7236 4848
[Redacted]	2-21-22	1830	FEDEX	2-21-22	1830	Received by Laboratory: (Signature, Date, Time) & condition
[Redacted]	2-22-22	1000		2-22-22	1000	

Gilbane Navy_COE_Field
February 17, 2022

TEMP: 20.3 C
ID: FR3

17.7 C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85028-1

Login Number: 85028

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	AMBIENT TEMP
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: 320-85054-1
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:
3/3/2022 10:01:33 AM

[REDACTED]

LINKS

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results through
TotalAccess

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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: 320-85054-1

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: 320-85054-1

Job ID: 320-85054-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85054-1

Receipt

The samples were received on 2/23/2022 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 15.5° 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: 320-85054-1

Client Sample ID: GILBANEPM011822-1736

Lab Sample ID: 320-85054-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0034		0.0024	0.00036	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0048	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.018		0.0024	0.00034	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		1.0	1.0	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1736

Lab Sample ID: 320-85054-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	31.8082		1.0533	1.0533	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1737

Lab Sample ID: 320-85054-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0044		0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.29		0.0040	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.019		0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	13		0.84	0.84	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1737

Lab Sample ID: 320-85054-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.4834		1.0039	1.0039	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1738

Lab Sample ID: 320-85054-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0087		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.063		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.015		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: GILBANETSP011822-1738

Lab Sample ID: 320-85054-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.9862		0.2995	0.2995	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1739

Lab Sample ID: 320-85054-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0047		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013		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: GILBANETSP011822-1739

Lab Sample ID: 320-85054-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.0826		0.2819	0.2819	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 320-85054-1

Client Sample ID: GILBANEPM011822-1736

Lab Sample ID: 320-85054-1

Date Collected: 02/17/22 14:28

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0034		0.0024	0.00036	ug/m3 (Air)		02/28/22 15:00	03/01/22 19:21	1
Copper	0.11		0.0048	0.00036	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:10	1
Manganese	0.018		0.0024	0.00034	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		1.0	1.0	ug/m3			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1736

Lab Sample ID: 320-85054-2

Date Collected: 02/17/22 14:28

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.8082		1.0533	1.0533	ug/m3 (Air)			02/24/22 15:00	1

Client Sample ID: GILBANEPM011822-1737

Lab Sample ID: 320-85054-3

Date Collected: 02/17/22 14:18

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0044		0.0020	0.00030	ug/m3 (Air)		02/28/22 15:00	03/01/22 19:24	1
Copper	0.29		0.0040	0.00030	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:13	1
Manganese	0.019		0.0020	0.00028	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.84	0.84	ug/m3			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1737

Lab Sample ID: 320-85054-4

Date Collected: 02/17/22 14:18

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.4834		1.0039	1.0039	ug/m3 (Air)			02/24/22 15:00	1

Client Sample ID: GILBANEPM011822-1738

Lab Sample ID: 320-85054-5

Date Collected: 02/22/22 07:14

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0087		0.00070	0.00010	ug/m3 (Air)		02/28/22 15:00	03/01/22 19:27	1
Copper	0.063		0.0014	0.00010	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:16	1
Manganese	0.015		0.00070	0.000098	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:16	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85054-1

Client Sample ID: GILBANEPM011822-1738

Lab Sample ID: 320-85054-5

Date Collected: 02/22/22 07:14

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	32		0.29	0.29	ug/m3			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1738

Lab Sample ID: 320-85054-6

Date Collected: 02/22/22 07:14

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.9862		0.2995	0.2995	ug/m3 (Air)			02/24/22 15:00	1

Client Sample ID: GILBANEPM011822-1739

Lab Sample ID: 320-85054-7

Date Collected: 02/22/22 07:00

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0047		0.00068	0.00010	ug/m3 (Air)		02/28/22 15:00	03/01/22 19:31	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:19	1
Manganese	0.013		0.00068	0.000096	ug/m3 (Air)		02/28/22 15:00	03/01/22 15:19	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			02/24/22 15:00	1

Client Sample ID: GILBANETSP011822-1739

Lab Sample ID: 320-85054-8

Date Collected: 02/22/22 07:00

Matrix: Air

Date Received: 02/23/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.0826		0.2819	0.2819	ug/m3 (Air)			02/24/22 15:00	1

QC Sample Results

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

Job ID: 320-85054-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-569122/1-B
Matrix: Air
Analysis Batch: 569483

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/28/22 15:00	03/01/22 13:11	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/28/22 15:00	03/01/22 13:11	1

Lab Sample ID: MB 320-569122/1-B
Matrix: Air
Analysis Batch: 569726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/28/22 15:00	03/02/22 12:18	1

Lab Sample ID: LCS 320-569122/2-B
Matrix: Air
Analysis Batch: 569483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.246		ug/m3 (Air)		102	85 - 110
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110

Lab Sample ID: LCS 320-569122/2-B
Matrix: Air
Analysis Batch: 569726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.253		ug/m3 (Air)		105	86 - 111

Lab Sample ID: LCSD 320-569122/3-B
Matrix: Air
Analysis Batch: 569483

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110	3	15
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110	2	15

Lab Sample ID: LCSD 320-569122/3-B
Matrix: Air
Analysis Batch: 569726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 569134

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.250		ug/m3 (Air)		104	86 - 111	1	15

QC Association Summary

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

Job ID: 320-85054-1

Metals

Pre Prep Batch: 569122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85054-1	GILBANEPM011822-1736	Total/NA	Air	Filter to Air	
320-85054-3	GILBANEPM011822-1737	Total/NA	Air	Filter to Air	
320-85054-5	GILBANEPM011822-1738	Total/NA	Air	Filter to Air	
320-85054-7	GILBANEPM011822-1739	Total/NA	Air	Filter to Air	
MB 320-569122/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 569134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85054-1	GILBANEPM011822-1736	Total/NA	Air	3050B	569122
320-85054-3	GILBANEPM011822-1737	Total/NA	Air	3050B	569122
320-85054-5	GILBANEPM011822-1738	Total/NA	Air	3050B	569122
320-85054-7	GILBANEPM011822-1739	Total/NA	Air	3050B	569122
MB 320-569122/1-B	Method Blank	Total/NA	Air	3050B	569122
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	3050B	569122
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	569122

Analysis Batch: 569483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85054-1	GILBANEPM011822-1736	Total/NA	Air	6020	569134
320-85054-3	GILBANEPM011822-1737	Total/NA	Air	6020	569134
320-85054-5	GILBANEPM011822-1738	Total/NA	Air	6020	569134
320-85054-7	GILBANEPM011822-1739	Total/NA	Air	6020	569134
MB 320-569122/1-B	Method Blank	Total/NA	Air	6020	569134
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	6020	569134
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	6020	569134

Analysis Batch: 569591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85054-1	GILBANEPM011822-1736	Total/NA	Air	6020	569134
320-85054-3	GILBANEPM011822-1737	Total/NA	Air	6020	569134
320-85054-5	GILBANEPM011822-1738	Total/NA	Air	6020	569134
320-85054-7	GILBANEPM011822-1739	Total/NA	Air	6020	569134

Analysis Batch: 569726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-569122/1-B	Method Blank	Total/NA	Air	6020	569134
LCS 320-569122/2-B	Lab Control Sample	Total/NA	Air	6020	569134
LCSD 320-569122/3-B	Lab Control Sample Dup	Total/NA	Air	6020	569134

General Chemistry

Analysis Batch: 569787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85054-1	GILBANEPM011822-1736	Total/NA	Air	PM10	
320-85054-3	GILBANEPM011822-1737	Total/NA	Air	PM10	
320-85054-5	GILBANEPM011822-1738	Total/NA	Air	PM10	
320-85054-7	GILBANEPM011822-1739	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-85054-1

General Chemistry

Analysis Batch: 569792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85054-2	GILBANETSP011822-1736	Total/NA	Air	40CFR50 App B	569794
320-85054-4	GILBANETSP011822-1737	Total/NA	Air	40CFR50 App B	569794
320-85054-6	GILBANETSP011822-1738	Total/NA	Air	40CFR50 App B	569794
320-85054-8	GILBANETSP011822-1739	Total/NA	Air	40CFR50 App B	569794

Pre Prep Batch: 569794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85054-2	GILBANETSP011822-1736	Total/NA	Air	Filter to Air	
320-85054-4	GILBANETSP011822-1737	Total/NA	Air	Filter to Air	
320-85054-6	GILBANETSP011822-1738	Total/NA	Air	Filter to Air	
320-85054-8	GILBANETSP011822-1739	Total/NA	Air	Filter to Air	

Lab Chronicle

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

Job ID: 320-85054-1

Client Sample ID: GILBANEPM011822-1736

Lab Sample ID: 320-85054-1

Date Collected: 02/17/22 14:28

Matrix: Air

Date Received: 02/23/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 15:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 19:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0069 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1736

Lab Sample ID: 320-85054-2

Date Collected: 02/17/22 14:28

Matrix: Air

Date Received: 02/23/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1737

Lab Sample ID: 320-85054-3

Date Collected: 02/17/22 14:18

Matrix: Air

Date Received: 02/23/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 15:13	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 19:24	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0080 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1737

Lab Sample ID: 320-85054-4

Date Collected: 02/17/22 14:18

Matrix: Air

Date Received: 02/23/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85054-1

Client Sample ID: GILBANEPM011822-1738

Lab Sample ID: 320-85054-5

Date Collected: 02/22/22 07:14

Matrix: Air

Date Received: 02/23/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 15:16	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 19:27	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0547 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1738

Lab Sample ID: 320-85054-6

Date Collected: 02/22/22 07:14

Matrix: Air

Date Received: 02/23/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1739

Lab Sample ID: 320-85054-7

Date Collected: 02/22/22 07:00

Matrix: Air

Date Received: 02/23/22 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					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569483	03/01/22 15:19	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569122	02/28/22 14:15	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	569134	02/28/22 15:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			569591	03/01/22 19:31	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0339 g	569787	02/24/22 15:00	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1739

Lab Sample ID: 320-85054-8

Date Collected: 02/22/22 07:00

Matrix: Air

Date Received: 02/23/22 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			569792	02/24/22 15:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					569794	03/02/22 15:27	DPM	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: 320-85054-1

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: 320-85054-1

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: 320-85054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85054-1	GILBANEPM011822-1736	Air	02/17/22 14:28	02/23/22 10:00
320-85054-2	GILBANETSP011822-1736	Air	02/17/22 14:28	02/23/22 10:00
320-85054-3	GILBANEPM011822-1737	Air	02/17/22 14:18	02/23/22 10:00
320-85054-4	GILBANETSP011822-1737	Air	02/17/22 14:18	02/23/22 10:00
320-85054-5	GILBANEPM011822-1738	Air	02/22/22 07:14	02/23/22 10:00
320-85054-6	GILBANETSP011822-1738	Air	02/22/22 07:14	02/23/22 10:00
320-85054-7	GILBANEPM011822-1739	Air	02/22/22 07:00	02/23/22 10:00
320-85054-8	GILBANETSP011822-1739	Air	02/22/22 07:00	02/23/22 10:00

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT022222AIR



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 to: 880 Riverside Parkway, West Sacramento, CA 95605
Event: Parcel E Phase 2 Air Monitoring February 2022

Comments:

Code	Matrix
A	Air

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



Equipment:

Event: Parcel E Phase 2 Air Monitoring February 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	GILBANETSP011822-1736	02/17/2022	1428	KT	X	X	X	AMSE1	N2	0.00	1	VOLUME: 496.34 (M3)
2	GILBANETSP011822-1736	02/17/2022	1428	KT	X	X	X	AMSE1	N2	0.00	1	VOLUME: 474.72 (M3)
3	GILBANETSP011822-1737	02/17/2022	1418	KT	X	X	X	AMSE2	N2	0.00	1	VOLUME: 596.27 (M3)
4	GILBANETSP011822-1737	02/17/2022	1418	KT	X	X	X	AMSE2	N2	0.00	1	VOLUME: 498.06 (M3)
5	GILBANETSP011822-1738	02/22/2022	0714	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1722.83 (M3)
6	GILBANETSP011822-1738	02/22/2022	0714	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1669.23 (M3)
7	GILBANETSP011822-1739	02/22/2022	0700	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1758.29 (M3)
8	GILBANETSP011822-1739	02/22/2022	0700	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1773.71 (M3)
9	TP											
10												

Turnaround Time: 5 days

Received by: (Signature)	Date	Time
Fedex	2/22/22	1600
EETA	2/23/22	900
[Redacted]		

Shipping Date: 2/22/2022 / FedEx 7761 0844 2542

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



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85054-1

Login Number: 85054

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: 320-85162-1
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:
3/8/2022 9:05:54 AM

[REDACTED]

LINKS

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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: 320-85162-1

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: 320-85162-1

Job ID: 320-85162-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85162-1

Receipt

The samples were received on 2/25/2022 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 18.3° 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: 320-85162-1

Client Sample ID: GILBANEPM011822-1740

Lab Sample ID: 320-85162-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.013		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.17	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.036	B	0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	47		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1740

Lab Sample ID: 320-85162-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	61.4587		0.3001	0.3001	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1741

Lab Sample ID: 320-85162-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.013	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0069	B	0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	12		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1741

Lab Sample ID: 320-85162-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.0702		0.2840	0.2840	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1742

Lab Sample ID: 320-85162-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0029		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.076	B	0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0074	B	0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1742

Lab Sample ID: 320-85162-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.6470		0.2925	0.2925	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1743

Lab Sample ID: 320-85162-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016	B	0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0020	B	0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	2.7		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1743

Lab Sample ID: 320-85162-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.9614		0.2738	0.2738	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: 320-85162-1

Client Sample ID: GILBANEPM011822-1740

Lab Sample ID: 320-85162-1

Date Collected: 02/23/22 07:28

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.013		0.00069	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:04	1
Copper	0.17	B	0.0014	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:04	1
Manganese	0.036	B	0.00069	0.000096	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	47		0.29	0.29	ug/m3			02/28/22 16:30	1

Client Sample ID: GILBANETSP011822-1740

Lab Sample ID: 320-85162-2

Date Collected: 02/23/22 07:28

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.4587		0.3001	0.3001	ug/m3 (Air)			02/28/22 16:30	1

Client Sample ID: GILBANEPM011822-1741

Lab Sample ID: 320-85162-3

Date Collected: 02/23/22 07:15

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00068	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:13	1
Copper	0.013	B	0.0014	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:13	1
Manganese	0.0069	B	0.00068	0.000095	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.28	0.28	ug/m3			02/28/22 16:30	1

Client Sample ID: GILBANETSP011822-1741

Lab Sample ID: 320-85162-4

Date Collected: 02/23/22 07:15

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.0702		0.2840	0.2840	ug/m3 (Air)			02/28/22 16:30	1

Client Sample ID: GILBANEPM011822-1742

Lab Sample ID: 320-85162-5

Date Collected: 02/24/22 08:07

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029		0.00068	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:16	1
Copper	0.076	B	0.0014	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:16	1
Manganese	0.0074	B	0.00068	0.000095	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:16	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85162-1

Client Sample ID: GILBANEPM011822-1742

Lab Sample ID: 320-85162-5

Date Collected: 02/24/22 08:07

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.28	0.28	ug/m3			02/28/22 16:30	1

Client Sample ID: GILBANETSP011822-1742

Lab Sample ID: 320-85162-6

Date Collected: 02/24/22 08:07

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.6470		0.2925	0.2925	ug/m3 (Air)			02/28/22 16:30	1

Client Sample ID: GILBANEPM011822-1743

Lab Sample ID: 320-85162-7

Date Collected: 02/24/22 07:56

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00067	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:20	1
Copper	0.016	B	0.0013	0.00010	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:20	1
Manganese	0.0020	B	0.00067	0.000094	ug/m3 (Air)		03/04/22 08:00	03/04/22 16:20	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	2.7		0.28	0.28	ug/m3			02/28/22 16:30	1

Client Sample ID: GILBANETSP011822-1743

Lab Sample ID: 320-85162-8

Date Collected: 02/24/22 07:56

Matrix: Air

Date Received: 02/25/22 10:05

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.9614		0.2738	0.2738	ug/m3 (Air)			02/28/22 16:30	1

QC Sample Results

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

Job ID: 320-85162-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-570298/1-B
Matrix: Air
Analysis Batch: 570591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		03/04/22 08:00	03/04/22 15:24	1
Copper	0.000776	J	0.0024	0.00018	ug/m3 (Air)		03/04/22 08:00	03/04/22 15:24	1
Manganese	0.000186	J	0.0012	0.00017	ug/m3 (Air)		03/04/22 08:00	03/04/22 15:24	1

Lab Sample ID: LCS 320-570298/2-B
Matrix: Air
Analysis Batch: 570591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.223		ug/m3 (Air)		93	86 - 111
Copper	0.240	0.227		ug/m3 (Air)		95	85 - 110
Manganese	0.240	0.229		ug/m3 (Air)		95	88 - 110

Lab Sample ID: LCSD 320-570298/3-B
Matrix: Air
Analysis Batch: 570591

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 570327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.222		ug/m3 (Air)		92	86 - 111	0	15
Copper	0.240	0.224		ug/m3 (Air)		93	85 - 110	1	15
Manganese	0.240	0.224		ug/m3 (Air)		93	88 - 110	2	15

QC Association Summary

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

Job ID: 320-85162-1

Metals

Pre Prep Batch: 570298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85162-1	GILBANEPM011822-1740	Total/NA	Air	Filter to Air	
320-85162-3	GILBANEPM011822-1741	Total/NA	Air	Filter to Air	
320-85162-5	GILBANEPM011822-1742	Total/NA	Air	Filter to Air	
320-85162-7	GILBANEPM011822-1743	Total/NA	Air	Filter to Air	
MB 320-570298/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-570298/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-570298/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 570327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85162-1	GILBANEPM011822-1740	Total/NA	Air	3050B	570298
320-85162-3	GILBANEPM011822-1741	Total/NA	Air	3050B	570298
320-85162-5	GILBANEPM011822-1742	Total/NA	Air	3050B	570298
320-85162-7	GILBANEPM011822-1743	Total/NA	Air	3050B	570298
MB 320-570298/1-B	Method Blank	Total/NA	Air	3050B	570298
LCS 320-570298/2-B	Lab Control Sample	Total/NA	Air	3050B	570298
LCSD 320-570298/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	570298

Analysis Batch: 570591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85162-1	GILBANEPM011822-1740	Total/NA	Air	6020	570327
320-85162-3	GILBANEPM011822-1741	Total/NA	Air	6020	570327
320-85162-5	GILBANEPM011822-1742	Total/NA	Air	6020	570327
320-85162-7	GILBANEPM011822-1743	Total/NA	Air	6020	570327
MB 320-570298/1-B	Method Blank	Total/NA	Air	6020	570327
LCS 320-570298/2-B	Lab Control Sample	Total/NA	Air	6020	570327
LCSD 320-570298/3-B	Lab Control Sample Dup	Total/NA	Air	6020	570327

General Chemistry

Pre Prep Batch: 570068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85162-2	GILBANETSP011822-1740	Total/NA	Air	Filter to Air	
320-85162-4	GILBANETSP011822-1741	Total/NA	Air	Filter to Air	
320-85162-6	GILBANETSP011822-1742	Total/NA	Air	Filter to Air	
320-85162-8	GILBANETSP011822-1743	Total/NA	Air	Filter to Air	

Analysis Batch: 570958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85162-1	GILBANEPM011822-1740	Total/NA	Air	PM10	
320-85162-3	GILBANEPM011822-1741	Total/NA	Air	PM10	
320-85162-5	GILBANEPM011822-1742	Total/NA	Air	PM10	
320-85162-7	GILBANEPM011822-1743	Total/NA	Air	PM10	

Analysis Batch: 570963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85162-2	GILBANETSP011822-1740	Total/NA	Air	40CFR50 App B	570068
320-85162-4	GILBANETSP011822-1741	Total/NA	Air	40CFR50 App B	570068
320-85162-6	GILBANETSP011822-1742	Total/NA	Air	40CFR50 App B	570068
320-85162-8	GILBANETSP011822-1743	Total/NA	Air	40CFR50 App B	570068

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-85162-1

Client Sample ID: GILBANEPM011822-1740

Lab Sample ID: 320-85162-1

Date Collected: 02/23/22 07:28

Matrix: Air

Date Received: 02/25/22 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					570298	03/04/22 07:12	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	570327	03/04/22 08:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			570591	03/04/22 16:04	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0822 g	570958	02/28/22 16:30	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1740

Lab Sample ID: 320-85162-2

Date Collected: 02/23/22 07:28

Matrix: Air

Date Received: 02/25/22 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			570963	02/28/22 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					570068	03/03/22 14:18	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1741

Lab Sample ID: 320-85162-3

Date Collected: 02/23/22 07:15

Matrix: Air

Date Received: 02/25/22 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					570298	03/04/22 07:12	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	570327	03/04/22 08:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			570591	03/04/22 16:13	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0210 g	570958	02/28/22 16:30	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1741

Lab Sample ID: 320-85162-4

Date Collected: 02/23/22 07:15

Matrix: Air

Date Received: 02/25/22 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			570963	02/28/22 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					570068	03/03/22 14:18	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1742

Lab Sample ID: 320-85162-5

Date Collected: 02/24/22 08:07

Matrix: Air

Date Received: 02/25/22 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					570298	03/04/22 07:12	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	570327	03/04/22 08:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			570591	03/04/22 16:16	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0268 g	570958	02/28/22 16:30	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85162-1

Client Sample ID: GILBANETSP011822-1742
Date Collected: 02/24/22 08:07
Date Received: 02/25/22 10:05

Lab Sample ID: 320-85162-6
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			570963	02/28/22 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					570068	03/03/22 14:18	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1743
Date Collected: 02/24/22 07:56
Date Received: 02/25/22 10:05

Lab Sample ID: 320-85162-7
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					570298	03/04/22 07:12	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	570327	03/04/22 08:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			570591	03/04/22 16:20	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0049 g	570958	02/28/22 16:30	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1743
Date Collected: 02/24/22 07:56
Date Received: 02/25/22 10:05

Lab Sample ID: 320-85162-8
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			570963	02/28/22 16:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					570068	03/03/22 14:18	DPM	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: 320-85162-1

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: 320-85162-1

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: 320-85162-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85162-1	GILBANEPM011822-1740	Air	02/23/22 07:28	02/25/22 10:05
320-85162-2	GILBANETSP011822-1740	Air	02/23/22 07:28	02/25/22 10:05
320-85162-3	GILBANEPM011822-1741	Air	02/23/22 07:15	02/25/22 10:05
320-85162-4	GILBANETSP011822-1741	Air	02/23/22 07:15	02/25/22 10:05
320-85162-5	GILBANEPM011822-1742	Air	02/24/22 08:07	02/25/22 10:05
320-85162-6	GILBANETSP011822-1742	Air	02/24/22 08:07	02/25/22 10:05
320-85162-7	GILBANEPM011822-1743	Air	02/24/22 07:56	02/25/22 10:05
320-85162-8	GILBANETSP011822-1743	Air	02/24/22 07:56	02/25/22 10:05

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT022422AIR



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 February 2022
Ship to: 880 Riverside Parkway, West Sacramento, CA 95605

Comments:

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



Equipment:

Event: Parcel E Phase 2 Air Monitoring February 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	02/23/2022	0728	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1747.48 (M3)
2	A	02/23/2022	0728	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1666.16 (M3)
3	A	02/23/2022	0715	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1765.14 (M3)
4	A	02/23/2022	0715	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1760.63 (M3)
5	A	02/24/2022	0807	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1777.50 (M3)
6	A	02/24/2022	0807	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1709.24 (M3)
7	A	02/24/2022	0756	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1792.89 (M3)
8	A	02/24/2022	0756	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1826.46 (M3)
9			TP									
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	2/24/22	1600	Fedex	2/24/22	1600	Shipping Date: 2/24/2022 / FedEx 7761 3252 9244
			[Redacted]	2-25-22	1005	Received by Laboratory: (Signature, Date, Time) & condition

18.300



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85162-1

Login Number: 85162

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	AMBIENT TEMP
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: 320-85289-1
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:
3/11/2022 5:11:06 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: 320-85289-1

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: 320-85289-1

Job ID: 320-85289-1

Laboratory: Eurofins Sacramento

Narrative

**Job Narrative
320-85289-1**

Receipt

The samples were received on 3/2/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.6° 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: 320-85289-1

Client Sample ID: GILBANEPM011822-1744

Lab Sample ID: 320-85289-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.017		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	28		0.87	0.87	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1744

Lab Sample ID: 320-85289-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	65.9561		0.9110	0.9110	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1745

Lab Sample ID: 320-85289-3

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	0.054		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0080		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.95	0.95	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1745

Lab Sample ID: 320-85289-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.9712		0.8595	0.8595	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: 320-85289-1

Client Sample ID: GILBANEPM011822-1744

Lab Sample ID: 320-85289-1

Date Collected: 02/24/22 16:05

Matrix: Air

Date Received: 03/02/22 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		0.0021	0.00031	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:05	1
Copper	0.12		0.0042	0.00031	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:05	1
Manganese	0.017		0.0021	0.00029	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.87	0.87	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP011822-1744

Lab Sample ID: 320-85289-2

Date Collected: 02/24/22 16:05

Matrix: Air

Date Received: 03/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	65.9561		0.9110	0.9110	ug/m3 (Air)			03/08/22 17:10	1

Client Sample ID: GILBANEPM011822-1745

Lab Sample ID: 320-85289-3

Date Collected: 02/24/22 15:59

Matrix: Air

Date Received: 03/02/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020	J	0.0023	0.00034	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:15	1
Copper	0.054		0.0045	0.00034	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:15	1
Manganese	0.0080		0.0023	0.00032	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.95	0.95	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP011822-1745

Lab Sample ID: 320-85289-4

Date Collected: 02/24/22 15:59

Matrix: Air

Date Received: 03/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.9712		0.8595	0.8595	ug/m3 (Air)			03/08/22 17:10	1

QC Sample Results

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

Job ID: 320-85289-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-571847/1-B
Matrix: Air
Analysis Batch: 572260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571854

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		03/10/22 11:20	03/11/22 11:41	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		03/10/22 11:20	03/11/22 11:41	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		03/10/22 11:20	03/11/22 11:41	1

Lab Sample ID: LCS 320-571847/2-B
Matrix: Air
Analysis Batch: 572260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571854

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.228		ug/m3 (Air)		95	86 - 111
Copper	0.240	0.218		ug/m3 (Air)		91	85 - 110
Manganese	0.240	0.223		ug/m3 (Air)		93	88 - 110

Lab Sample ID: LCSD 320-571847/3-B
Matrix: Air
Analysis Batch: 572260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 571854

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.217		ug/m3 (Air)		90	86 - 111	5	15
Copper	0.240	0.213		ug/m3 (Air)		89	85 - 110	2	15
Manganese	0.240	0.218		ug/m3 (Air)		91	88 - 110	2	15

QC Association Summary

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

Job ID: 320-85289-1

Metals

Pre Prep Batch: 571847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85289-1	GILBANEPM011822-1744	Total/NA	Air	Filter to Air	
320-85289-3	GILBANEPM011822-1745	Total/NA	Air	Filter to Air	
MB 320-571847/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-571847/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-571847/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 571854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85289-1	GILBANEPM011822-1744	Total/NA	Air	3050B	571847
320-85289-3	GILBANEPM011822-1745	Total/NA	Air	3050B	571847
MB 320-571847/1-B	Method Blank	Total/NA	Air	3050B	571847
LCS 320-571847/2-B	Lab Control Sample	Total/NA	Air	3050B	571847
LCSD 320-571847/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	571847

Analysis Batch: 572260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85289-1	GILBANEPM011822-1744	Total/NA	Air	6020	571854
320-85289-3	GILBANEPM011822-1745	Total/NA	Air	6020	571854
MB 320-571847/1-B	Method Blank	Total/NA	Air	6020	571854
LCS 320-571847/2-B	Lab Control Sample	Total/NA	Air	6020	571854
LCSD 320-571847/3-B	Lab Control Sample Dup	Total/NA	Air	6020	571854

General Chemistry

Pre Prep Batch: 570068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85289-2	GILBANETSP011822-1744	Total/NA	Air	Filter to Air	
320-85289-4	GILBANETSP011822-1745	Total/NA	Air	Filter to Air	

Analysis Batch: 571941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85289-2	GILBANETSP011822-1744	Total/NA	Air	40CFR50 App B	570068
320-85289-4	GILBANETSP011822-1745	Total/NA	Air	40CFR50 App B	570068

Analysis Batch: 571944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85289-1	GILBANEPM011822-1744	Total/NA	Air	PM10	
320-85289-3	GILBANEPM011822-1745	Total/NA	Air	PM10	

Lab Chronicle

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

Job ID: 320-85289-1

Client Sample ID: GILBANEPM011822-1744

Lab Sample ID: 320-85289-1

Date Collected: 02/24/22 16:05

Matrix: Air

Date Received: 03/02/22 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					571847	03/10/22 10:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	571854	03/10/22 11:20	NIM	TAL SAC
Total/NA	Analysis	6020		1			572260	03/11/22 12:05	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0160 g	571944	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1744

Lab Sample ID: 320-85289-2

Date Collected: 02/24/22 16:05

Matrix: Air

Date Received: 03/02/22 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					570068	03/03/22 14:18	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			571941	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANEPM011822-1745

Lab Sample ID: 320-85289-3

Date Collected: 02/24/22 15:59

Matrix: Air

Date Received: 03/02/22 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					571847	03/10/22 10:40	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	571854	03/10/22 11:20	NIM	TAL SAC
Total/NA	Analysis	6020		1			572260	03/11/22 12:15	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0075 g	571944	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1745

Lab Sample ID: 320-85289-4

Date Collected: 02/24/22 15:59

Matrix: Air

Date Received: 03/02/22 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					570068	03/03/22 14:18	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			571941	03/08/22 17:10	DPM	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: 320-85289-1

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: 320-85289-1

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: 320-85289-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85289-1	GILBANEPM011822-1744	Air	02/24/22 16:05	03/02/22 09:40
320-85289-2	GILBANETSP011822-1744	Air	02/24/22 16:05	03/02/22 09:40
320-85289-3	GILBANEPM011822-1745	Air	02/24/22 15:59	03/02/22 09:40
320-85289-4	GILBANETSP011822-1745	Air	02/24/22 15:59	03/02/22 09:40

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT022422PM



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)
 Ship to: 880 Riverside Parkway, West Sacramento, CA 95605
 Event: Parcel E Phase 2 Air Monitoring February 2022

Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	1	1	1	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	A	02/24/2022	1605	KT	CAIR - Air PM10	X	X	X				AMSE1	N2	0.00	0.00	1	VOLUME: 574.07 (M3)
2	A	02/24/2022	1605	KT	N0500 - Air TSP	X	X					AMSE1	N2	0.00	0.00	1	VOLUME: 548.85 (M3)
3	A	02/24/2022	1559	KT	CAIR - Air PM10	X	X					AMSE2	N2	0.00	0.00	1	VOLUME: 527.72 (M3)
4	A	02/24/2022	1559	KT	N0500 - Air TSP	X	X					AMSE2	N2	0.00	0.00	1	VOLUME: 581.75 (M3)
5																	
6																	
7																	
8																	
9																	
10																	



Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/1/22	1200	Fedex	3/1/22	1200	Shipping Date: 3/1/2022 / FedEx 7761 5879 9165
				3/2/22	940	
Received by Laboratory: (Signature, Date, Time) & condition						

20.6



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85289-1

Login Number: 85289

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	

