



**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

March 1st, 2022 through March 31st, 2022

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Prepared for:



**Department of the Navy
Naval Facilities Engineering Systems Command Southwest
BRAC PMO West
33000 Nixie Way, Bldg, 50
San Diego, CA 92147**

Prepared by:



**Gilbane Federal
1655 Grant Street, Suite 1200
Concord, CA 94520**

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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 March 1st through March 31st, 2022 and compares the results with the established action levels presented in the DMCP (Appendix E of the RAWP [Gilbane, 2019a]).

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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 March 1st through March 31st, 2022, during which Gilbane was grading, excavating, managing radiological screening yard pads and stockpiles, backfilling, 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 March 1st through March 31st, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from March 1st through March 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10, lead, manganese, and copper results from March 1st through March 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**, except the result from the operational date of March 16th, 2022 (sample end date March 17th) at MSE02, which was reported at a delta between the downwind and upwind stations of 78.0 ug/m³. On March 16th, 2022, there were no exceedances recorded for the corresponding PDR results. The results are presented as **Attachment 3** and **Attachment 4**.

As established by the Final Parcel E Phase 2 Dust Monitoring and Control Plan, the action level for PM10 filter media samples is 5,000 ug/m³, however for informational purposes results are also being compared to the HERO action level of 50 mg/m³. The delta value (78 ug/m³) of the upwind and downwind PM10 filter media results for the operation date of March 16, 2022 (sample end date March 17th) was below the Parcel E Phase 2 compliance action level, but exceeded the HERO action level. Operations on March 16, 2022 included grading operations on the radiological screening yard pads, with a water truck performing dust control. Real-time results observed during the operational day at the upwind and downwind location, as well as the real-time monitoring location at Building 606, were all below the HERO action level. No other PM10 filter media sample has exceeded the HERO level since the initiation of the project, nor through the remainder of March 2022. Grading operations will be closely

re-evaluated when next performed for the presence of visible dust, and additional dust control measure will be applied as necessary.

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

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

Analytical laboratory reports are included as **Attachment 7** and were subjected to cursory review by the Project Chemist. No data quality issues were noted. The data, as qualified, should be considered usable for their intended purposes.

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
3/1/2022 ¹	30.24	52.25	WSW
3/2/2022 ¹	30.15	50.88	SW
3/3/2022 ¹	29.99	51.30	WNW
3/7/2022 ²	30.23	54.07	NNW
3/8/2022 ³	30.09	53.93	SW
3/9/2022 ⁴	29.95	52.11	W
3/10/2022 ¹	30.20	58.78	NNW
3/14/2022 ⁴	30.25	55.36	SSW
3/15/2022 ¹	30.34	57.26	WSW
3/16/2022 ⁴	30.19	53.19	W
3/17/2022 ⁴	30.16	50.46	WSW
3/21/2022 ⁴	30.18	57.57	WSW
3/22/2022 ⁴	30.11	60.67	SE
3/23/2022 ⁴	30.13	51.27	WSW
3/24/2022 ⁴	30.10	51.14	WSW
3/28/2022 ¹	29.88	54.01	S
3/29/2022 ⁴	30.08	51.90	WSW
3/30/2022 ⁴	30.07	51.54	WSW
3/31/2022 ⁴	29.99	54.53	SW

Notes:

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

²Data collected using wunderground.com from Bayview weather - KCASANFR1755

³Data collected using wunderground.com from Bayview - Carroll Station - KCASANFR348

⁴Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°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)
MSE01-030122	03/01/22	1	555	1110	13.5	0.006	No
MSE02-030122	03/01/22	2	554	1108	16.5	0.007	No
MSE01-030222	03/02/22	1	657	1314	13.5	0.005	No
MSE02-030222	03/02/22	2	652	1304	14.0	0.005	No
MSE01-030322	03/03/22	1	476	952	15.5	0.008	No
MSE02-030322	03/03/22	2	495	990	13.0	0.006	No
MSE01-030722	03/07/22	1	541	1082	12.0	0.005	No
MSE02-030722	03/07/22	2	556	1112	13.0	0.006	No
MSE01-030822	03/08/22	1	556	1112	15.5	0.007	No
MSE02-030822	03/08/22	2	559	1118	14.0	0.006	No
MSE01-030922	03/09/22	1	552	1104	13.5	0.006	No
MSE02-030922	03/09/22	2	573	1146	36.5	0.016	No
MSE01-031022	03/10/22	1	462	924	14.5	0.008	No
MSE02-031022	03/10/22	2	466	932	13.0	0.007	No
MSE01-031422	03/14/22	1	497	994	22.0	0.011	No
MSE02-031422	03/14/22	2	503	1006	19.5	0.010	No
MSE01-031522	03/15/22	1	553	1106	12.0	0.005	No
MSE02-031522	03/15/22	2	561	1122	11.0	0.005	No
MSE01-031622	03/16/22	1	511	1022	13.0	0.006	No
MSE02-031622	03/16/22	2	532	1064	15.0	0.007	No
MSE01-031722	03/17/22	1	446	892	10.5	0.006	No
MSE02-031722	03/17/22	2	466	932	10.5	0.006	No
MSE01-032122	03/21/22	1	506	1012	13.5	0.007	No
MSE02-032122	03/21/22	2	520	1040	17.0	0.008	No
MSE01-032222	03/22/22	1	540	1080	3.0	<0.002	No
MSE02-032222	03/22/22	2	557	1114	2.0	<0.002	No
MSE01-032322	03/23/22	1	563	1126	1.5	<0.002	No
MSE02-032322	03/23/22	2	568	1136	2.5	<0.002	No
MSE01-032422	03/24/22	1	484	968	8.0	0.004	No
MSE02-032422	03/24/22	2	481	962	5.5	0.003	No
MSE01-032822	03/28/22	1	518	1036	3.5	<0.003	No
MSE02-032822	03/28/22	2	521	1042	5.0	<0.003	No
MSE01-032922	03/29/22	1	541	1082	1.0	<0.002	No
MSE02-032922	03/29/22	2	549	1098	4.5	<0.002	No
MSE01-033022	03/30/22	1	472	944	2.0	<0.003	No
MSE02-033022	03/30/22	2	488	976	4.0	<0.003	No
MSE01-033122	03/31/22	1	460	920	2.0	<0.003	No
MSE02-033122	03/31/22	2	473	946	6.0	0.003	No

Notes:

¹Sample "start" date indicates the date upon which sample collection began.

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

L = liter

min = minutes

fibers/cm³ = fibers per cubic centimeter

< = below detection limit

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										
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)
GILBANEPM011822-1746	1	03/01/2022	1802.69	0.033						
GILBANEPM011822-1747	2	03/01/2022	1848.08	0.017	-0.0160	-16.0	5,000	No	50	No
GILBANEPM020122-1766	1	03/02/2022	1775.21	0.016						
GILBANEPM020122-1767	2	03/02/2022	1804.20	0.014	-0.0020	-2.0	5,000	No	50	No
GILBANEPM020122-1768	1	03/03/2022	1762.57	0.011						
GILBANEPM020122-1769	2	03/03/2022	1784.73	0.009	-0.0020	-2.0	5,000	No	50	No
GILBANEPM020122-1770	1	03/03/2022 ²	565.38	0.0087						
GILBANEPM020122-1771	2	03/03/2022 ²	596.13	0.0069	-0.0018	-1.8	5,000	No	50	No
GILBANEPM020122-1772	1	03/08/2022	1699.49	0.02						
GILBANEPM020122-1773	2	03/08/2022	1716.85	0.019	-0.0010	-1.0	5,000	No	50	No
GILBANEPM020122-1774	1	03/09/2022	1721.94	0.028						
GILBANEPM020122-1775	2	03/09/2022	1737.29	0.032	0.0040	4.0	5,000	No	50	No
GILBANEPM020122-1776	1	03/10/2022	1737.06	0.033						
GILBANEPM020122-1777	2	03/10/2022	1748.83	0.039	0.0060	6.0	5,000	No	50	No
GILBANEPM020122-1778	1	03/10/2022 ²	552.17	0.023						
GILBANEPM020122-1779	2	03/10/2022 ²	569.87	0.0075	-0.0155	-15.5	5,000	No	50	No
GILBANEPM020122-1780	1	03/15/2022	1740.12	0.034						
GILBANEPM020122-1781	2	03/15/2022	1733.14	0.029	-0.0050	-5.0	5,000	No	50	No
GILBANEPM020122-1782	1	03/16/2022	1795.06	0.011						
GILBANEPM020122-1783	2	03/16/2022	1779.48	0.011	0.0000	0.0	5,000	No	50	No
GILBANEPM020122-1784	1	03/17/2022	1739.97	0.032						
GILBANEPM020122-1785	2	03/17/2022	1731.56	0.099 J	0.0780	78.0	5,000	No	50	Yes
GILBANEPM020122-1786	1	03/17/2022 ²	526.09	0.022						
GILBANEPM020122-1787	2	03/17/2022 ²	550.56	0.02	-0.0020	-2.0	5,000	No	50	No
GILBANEPM021522-1788	1	03/22/2022	1724.49	0.031						
GILBANEPM021522-1789	2	03/22/2022	1688.62	0.055	0.0240	24.0	5,000	No	50	No
GILBANEPM021522-1790	1	03/23/2022	1735.39	0.02						
GILBANEPM021522-1791	2	03/23/2022	1744.31	0.022	0.0020	2.0	5,000	No	50	No
GILBANEPM021522-1792	1	03/24/2022	1728.91	0.019						
GILBANEPM021522-1793	2	03/24/2022	1732.33	0.025	0.0060	6.0	5,000	No	50	No
GILBANEPM021522-1794	1	03/24/2022 ²	567.92	0.021						
GILBANEPM021522-1795	2	03/24/2022 ²	554.93	0.023	0.0020	2.0	5,000	No	50	No
GILBANEPM021522-1796	1	03/29/2022	1711.49	0.011						
GILBANEPM021522-1797	2	03/29/2022	1722.89	0.011	0.0000	0.0	5,000	No	50	No
GILBANEPM021522-1798	1	03/30/2022	1732.53	0.014						
GILBANEPM021522-1799	2	03/30/2022	1723.66	0.015	0.0010	1.0	5,000	No	50	No
GILBANEPM021522-1800	1	03/31/2022	1727.64	0.026						
GILBANEPM021522-1801	2	03/31/2022	1726.18	0.03	0.0040	4.0	5,000	No	50	No
GILBANEPM021522-1802	1	03/31/2022 ²	551.71	0.035						
GILBANEPM021522-1803	2	03/31/2022 ²	567.94	0.036	0.0010	1.0	5,000	No	50	No

Notes:

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

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

³PM10 data is additionally compared to the recommended dust action level of 50 ug/m3 for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

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)
GILBANEPM011822-1746	1	03/01/2022	1802.69	0.00014	No	0.000026	No	0.000014	No
GILBANEPM011822-1747	2	03/01/2022	1848.08	0.000033	No	0.0000021	No	0.0000048	No
GILBANEPM020122-1766	1	03/02/2022	1775.21	0.0001	No	0.00001	No	0.0000066	No
GILBANEPM020122-1767	2	03/02/2022	1804.20	0.000038	No	0.0000016	No	0.000004	No
GILBANEPM020122-1768	1	03/03/2022	1762.57	0.000061	No	0.0000014	No	0.0000035	No
GILBANEPM020122-1769	2	03/03/2022	1784.73	0.000046	No	0.0000013	No	0.0000025	No
GILBANEPM020122-1770	1	03/03/2022 ²	565.38	0.0002	No	0.0000019 J	No	0.0000046	No
GILBANEPM020122-1771	2	03/03/2022 ²	596.13	0.000052	No	0.0000014 J	No	0.0000033	No
GILBANEPM020122-1772	1	03/08/2022	1699.49	0.00009	No	0.0000028	No	0.0000081	No
GILBANEPM020122-1773	2	03/08/2022	1716.85	0.00014	No	0.000004	No	0.0000077	No
GILBANEPM020122-1774	1	03/09/2022	1721.94	0.000067	No	0.0000036	No	0.0000076	No
GILBANEPM020122-1775	2	03/09/2022	1737.29	0.00023	No	0.0000031	No	0.0000078	No
GILBANEPM020122-1776	1	03/10/2022	1737.06	0.00011	No	0.0000038	No	0.0000077	No
GILBANEPM020122-1777	2	03/10/2022	1748.83	0.00012	No	0.0000045	No	0.000014	No
GILBANEPM020122-1778	1	03/10/2022 ²	552.17	0.00031	No	0.0000077	No	0.000022	No
GILBANEPM020122-1779	2	03/10/2022 ²	569.87	0.00006	No	0.0000033	No	0.000006	No
GILBANEPM020122-1780	1	03/15/2022	1740.12	0.00028	No	0.000005	No	0.000012	No
GILBANEPM020122-1781	2	03/15/2022	1733.14	0.000074	No	0.0000022	No	0.0000055	No
GILBANEPM020122-1782	1	03/16/2022	1795.06	0.000029	No	0.00000079	No	0.0000021	No
GILBANEPM020122-1783	2	03/16/2022	1779.48	0.00013	No	0.000001	No	0.0000019	No
GILBANEPM020122-1784	1	03/17/2022	1739.97	0.000053	No	0.0000031	No	0.0000055	No
GILBANEPM020122-1785	2	03/17/2022	1731.56	0.00012	No	0.0000024	No	0.0000039	No
GILBANEPM020122-1786	1	03/17/2022 ²	526.09	0.000027	No	0.00000081 J	No	0.0000024	No
GILBANEPM020122-1787	2	03/17/2022 ²	550.56	0.00017	No	0.00000082 J	No	0.0000023	No
GILBANEPM021522-1788	1	03/22/2022	1724.49	0.00011	No	0.0000039	No	0.000016	No
GILBANEPM021522-1789	2	03/22/2022	1688.62	0.00024	No	0.0000069	No	0.000019	No
GILBANEPM021522-1790	1	03/23/2022	1735.39	0.000053	No	0.000003	No	0.00001	No
GILBANEPM021522-1791	2	03/23/2022	1744.31	0.00015	No	0.0000027	No	0.0000089	No
GILBANEPM021522-1792	1	03/24/2022	1728.91	0.000024	No	0.00000075	No	0.0000028	No
GILBANEPM021522-1793	2	03/24/2022	1732.33	0.00014	No	0.0000083	No	0.0000089	No
GILBANEPM021522-1794	1	03/24/2022 ²	567.92	0.000068	No	0.0000034	No	0.0000092	No
GILBANEPM021522-1795	2	03/24/2022 ²	554.93	0.00014	No	0.0000029	No	0.0000083	No
GILBANEPM021522-1796	1	03/29/2022	1711.49	0.000046	No	0.00000088	No	0.0000016	No
GILBANEPM021522-1797	2	03/29/2022	1722.89	0.00013	No	0.0000011	No	0.0000019	No
GILBANEPM021522-1798	1	03/30/2022	1732.53	0.000016	No	0.00000093	No	0.000002	No
GILBANEPM021522-1799	2	03/30/2022	1723.66	0.00016	No	0.0000015	No	0.0000028	No
GILBANEPM021522-1800	1	03/31/2022	1727.64	0.000058	No	0.0000028	No	0.0000039	No
GILBANEPM021522-1801	2	03/31/2022	1726.18	0.00017	No	0.0000028	No	0.0000046	No
GILBANEPM021522-1802	1	03/31/2022 ²	551.71	0.00019	No	0.000004	No	0.000013	No
GILBANEPM021522-1803	2	03/31/2022 ²	567.94	0.00023	No	0.0000058	No	0.000012	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)
GILBANETSP011822-1746	1	03/01/2022	1715.94	0.0574029			
GILBANETSP011822-1747	2	03/01/2022	1828.94	0.0278303	-0.030	0.5	No
GILBANETSP020122-1766	1	03/02/2022	1681.79	0.0234869			
GILBANETSP020122-1767	2	03/02/2022	1799.38	0.0210072	-0.002	0.5	No
GILBANETSP020122-1768	1	03/03/2022	1667.10	0.0134365			
GILBANETSP020122-1769	2	03/03/2022	1766.25	0.0139278	0.000	0.5	No
GILBANETSP020122-1770	1	03/03/2022 ²	536.55	0.0082005			
GILBANETSP020122-1771	2	03/03/2022 ²	595.17	0.0048726	-0.003	0.5	No
GILBANETSP020122-1772	1	03/08/2022	1610.66	0.0268834			
GILBANETSP020122-1773	2	03/08/2022	1726.67	0.0254247	-0.001	0.5	No
GILBANETSP020122-1774	1	03/09/2022	1649.45	0.0414077			
GILBANETSP020122-1775	2	03/09/2022	1750.36	0.046619	0.005	0.5	No
GILBANETSP020122-1776	1	03/10/2022	1667.01	0.0469703			
GILBANETSP020122-1777	2	03/10/2022	1761.61	0.0668706	0.020	0.5	No
GILBANETSP020122-1778	1	03/10/2022 ²	527.06	0.0377566			
GILBANETSP020122-1779	2	03/10/2022 ²	575.01	0.0149563	-0.023	0.5	No
GILBANETSP020122-1780	1	03/15/2022 ³	1620.30	0.0324014			
GILBANETSP020122-1781	2	03/15/2022	1742.63	0.0343159	0.002	0.5	No
GILBANETSP020122-1782	1	03/16/2022	1729.48	0.013877			
GILBANETSP020122-1783	2	03/16/2022	1793.17	0.0163955	0.003	0.5	No
GILBANETSP020122-1784	1	03/17/2022	1675.48	0.0397498			
GILBANETSP020122-1785	2	03/17/2022	1743.67	0.0420378 J-	0.002	0.5	No
GILBANETSP020122-1786	1	03/17/2022 ²	505.71	0.0257064			
GILBANETSP020122-1787	2	03/17/2022 ²	553.75	0.0297968	0.004	0.5	No
GILBANETSP021522-1788	1	03/22/2022	1656.33	0.0560879			
GILBANETSP021522-1789	2	03/22/2022	1732.55	0.0655681	0.009	0.5	No
GILBANETSP021522-1790	1	03/23/2022	1668.84	0.0296014			
GILBANETSP021522-1791	2	03/23/2022	1742.22	0.027838	-0.002	0.5	No
GILBANETSP021522-1792	1	03/24/2022	1657.83	0.0279281			
GILBANETSP021522-1793	2	03/24/2022	1737.45	0.0293534	0.001	0.5	No
GILBANETSP021522-1794	1	03/24/2022	546.26	0.0309376			
GILBANETSP021522-1795	2	03/24/2022	567.26	0.0456581	0.015	0.5	No
GILBANETSP021522-1796	1	03/29/2022	1629.30	0.0135027			
GILBANETSP021522-1797	2	03/29/2022	1707.20	0.0165769	0.003	0.5	No
GILBANETSP021522-1798	1	03/30/2022	1652.99	0.0208108			
GILBANETSP021522-1799	2	03/30/2022	1723.94	0.0245368	0.004	0.5	No
GILBANETSP021522-1800	1	03/31/2022	1655.14	0.0408425			
GILBANETSP021522-1801	2	03/31/2022	1734.72	0.0415053	0.001	0.5	No
GILBANETSP021522-1802	1	03/31/2022 ^{2,3}	413.37	0.0524953			
GILBANETSP021522-1803	2	03/31/2022 ²	567.49	0.0477541	-0.005	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.

³Motor malfunction due to normal wear and tear

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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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 Mar 2022 and 31 Mar 2022		Value < 0.1 x Effluent Conc (i.e., < 10%)							
Information effective as of: 06 Apr 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-0467	Perimeter	MSE01	PE09	60	3/1/22 2:00	3/1/22 10:48	528	3.2E+07	D	03/07/22	1	cpm	0.20	4.45	0.6	9.2	7.9E-15	1.3E-13	0.9%	2.2%	BCS	CB
AS-0468	Perimeter	MSE02	PE10	60	3/1/22 2:03	3/1/22 11:15	552	3.3E+07	D	03/07/22	1	cpm	0.10	4.55	0.3	9.4	3.8E-15	1.3E-13	0.4%	2.1%	BCS	CB
AS-0469	Perimeter	MSE01	PE09	60	3/2/22 2:33	3/2/22 13:40	667	4.0E+07	D	03/07/22	1	cpm	0.10	3.65	0.3	6.9	3.1E-15	7.8E-14	0.3%	1.3%	BCS	CB
AS-0470	Perimeter	MSE02	PE10	60	3/2/22 2:30	3/2/22 13:30	660	4.0E+07	D	03/07/22	1	cpm	0.15	5.20	0.4	11.3	4.8E-15	1.3E-13	0.5%	2.1%	BCS	CB
AS-0471	Perimeter	MSE01	PE09	60	3/3/22 3:02	3/3/22 11:30	508	3.0E+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
AS-0472	Perimeter	MSE02	PE10	60	3/3/22 3:00	3/3/22 11:25	505	3.0E+07	D	03/07/22	1	cpm	0.10	4.90	0.3	10.4	4.1E-15	1.5E-13	0.5%	2.6%	BCS	CB
AS-0473	Perimeter	MSE01	PE09	60	3/7/22 6:40	3/7/22 16:00	560	3.4E+07	D	03/14/22	1	cpm	0.25	3.70	0.7	7.0	9.3E-15	9.4E-14	1.0%	1.6%	BCS	CB
AS-0474	Perimeter	MSE02	PE10	60	3/7/22 6:37	3/7/22 16:10	573	3.4E+07	D	03/14/22	1	cpm	0.25	3.85	0.7	7.5	9.1E-15	9.8E-14	1.0%	1.6%	BCS	CB
AS-0475	Perimeter	MSE01	PE09	60	3/8/22 4:40	3/8/22 15:50	670	4.0E+07	D	03/14/22	1	cpm	0.15	4.60	0.4	9.6	4.7E-15	1.1E-13	0.5%	1.8%	BCS	CB
AS-0476	Perimeter	MSE02	PE10	60	3/8/22 4:30	3/8/22 16:00	690	4.1E+07	D	03/14/22	1	cpm	0.20	4.25	0.6	8.6	6.1E-15	9.3E-14	0.7%	1.6%	BCS	CB
AS-0477	Perimeter	MSE01	PE09	60	3/9/22 4:35	3/9/22 16:00	685	4.1E+07	D	03/14/22	1	cpm	0.20	4.50	0.6	9.3	6.1E-15	1.0E-13	0.7%	1.7%	BCS	CB
AS-0478	Perimeter	MSE02	PE10	60	3/9/22 4:25	3/9/22 16:05	700	4.2E+07	D	03/14/22	1	cpm	0.10	3.90	0.3	7.6	3.0E-15	8.2E-14	0.3%	1.4%	BCS	CB
AS-0479	Perimeter	MSE01	PE09	60	3/10/22 4:10	3/10/22 15:05	655	3.9E+07	D	03/14/22	1	cpm	0.20	4.45	0.6	9.2	6.4E-15	1.0E-13	0.7%	1.7%	BCS	CB
AS-0480	Perimeter	MSE02	PE10	60	3/10/22 4:00	3/10/22 15:15	675	4.1E+07	D	03/14/22	1	cpm	0.35	5.50	1.0	12.1	1.1E-14	1.3E-13	1.2%	2.2%	BCS	CB
AS-0481	Perimeter	MSE01	PE09	60	3/14/22 2:30	3/14/22 11:29	539	3.2E+07	D	03/21/22	1	cpm	0.15	6.00	0.4	13.5	5.8E-15	1.9E-13	0.6%	3.1%	BCS	CB
AS-0482	Perimeter	MSE02	PE10	60	3/14/22 2:20	3/14/22 11:25	545	3.3E+07	D	03/21/22	1	cpm	0.30	4.55	0.8	9.4	1.2E-14	1.3E-13	1.3%	2.2%	BCS	CB
AS-0483	Perimeter	MSE01	PE09	60	3/15/22 1:25	3/15/22 12:03	638	3.8E+07	D	03/21/22	1	cpm	0.05	4.75	0.1	10.0	1.6E-15	1.2E-13	0.2%	2.0%	BCS	CB
AS-0484	Perimeter	MSE02	PE10	60	3/15/22 1:15	3/15/22 12:10	655	3.9E+07	D	03/21/22	1	cpm	0.20	4.35	0.6	8.9	6.4E-15	1.0E-13	0.7%	1.7%	BCS	CB
AS-0485	Perimeter	MSE01	PE09	60	3/16/22 1:40	3/16/22 12:00	620	3.7E+07	D	03/21/22	1	cpm	0.10	4.55	0.3	9.4	3.4E-15	1.1E-13	0.4%	1.9%	BCS	CB
AS-0486	Perimeter	MSE02	PE10	60	3/16/22 1:30	3/16/22 12:05	635	3.8E+07	D	03/21/22	1	cpm	0.20	3.80	0.6	7.3	6.6E-15	8.7E-14	0.7%	1.4%	BCS	CB
AS-0487	Perimeter	MSE01	PE09	60	3/17/22 1:40	3/17/22 11:45	605	3.6E+07	D	03/21/22	1	cpm	0.15	5.05	0.4	10.8	5.2E-15	1.3E-13	0.6%	2.2%	BCS	CB
AS-0488	Perimeter	MSE02	PE10	60	3/17/22 1:30	3/17/22 11:35	605	3.6E+07	D	03/21/22	1	cpm	0.25	4.35	0.7	8.9	8.6E-15	1.1E-13	1.0%	1.8%	BCS	CB
AS-0489	Perimeter	MSE01	PE09	60	3/21/22 6:35	3/21/22 15:47	552	3.3E+07	D	03/28/22	1	cpm	0.15	4.00	0.4	7.9	5.7E-15	1.1E-13	0.6%	1.8%	BCS	CB
AS-0490	Perimeter	MSE02	PE10	60	3/21/22 6:40	3/21/22 15:40	540	3.2E+07	D	03/28/22	1	cpm	0.20	4.35	0.6	8.9	7.7E-15	1.2E-13	0.9%	2.1%	BCS	CB
AS-0491	Perimeter	MSE01	PE09	60	3/22/22 4:30	3/22/22 15:50	680	4.1E+07	D	03/28/22	1	cpm	0.20	5.20	0.6	11.3	6.2E-15	1.2E-13	0.7%	2.1%	BCS	CB
AS-0492	Perimeter	MSE02	PE10	60	3/22/22 4:20	3/22/22 16:00	700	4.2E+07	D	03/28/22	1	cpm	0.20	3.40	0.6	6.2	6.0E-15	6.6E-14	0.7%	1.1%	BCS	CB
AS-0493	Perimeter	MSE01	PE09	60	3/23/22 4:30	3/23/22 15:43	673	4.0E+07	D	03/28/22	1	cpm	0.20	3.75	0.6	7.2	6.2E-15	8.0E-14	0.7%	1.3%	BCS	CB
AS-0494	Perimeter	MSE02	PE10	60	3/23/22 4:20	3/23/22 15:54	694	4.2E+07	D	03/28/22	1	cpm	0.15	3.95	0.4	7.7	4.5E-15	8.4E-14	0.5%	1.4%	BCS	CB
AS-0495	Perimeter	MSE01	PE09	60	3/24/22 4:30	3/24/22 13:05	515	3.1E+07	D	03/28/22	1	cpm	0.25	3.70	0.7	7.0	1.0E-14	1.0E-13	1.1%	1.7%	BCS	CB
AS-0496	Perimeter	MSE02	PE10	60	3/24/22 4:20	3/24/22 13:00	520	3.1E+07	D	03/28/22	1	cpm	0.35	4.15	1.0	8.3	1.4E-14	1.2E-13	1.6%	2.0%	BCS	CB
AS-0497	Perimeter	MSE01	PE09	60	3/28/22 6:40	3/28/22 16:00	560	3.4E+07	D	04/04/22	1	cpm	0.05	4.55	0.1	9.4	1.9E-15	1.3E-13	0.2%	2.1%	BCS	CB
AS-0498	Perimeter	MSE02	PE10	60	3/28/22 6:50	3/28/22 16:05	555	3.3E+07	D	04/04/22	1	cpm	0.20	4.95	0.6	10.6	7.5E-15	1.4E-13	0.8%	2.4%	BCS	CB
AS-0499	Perimeter	MSE01	PE09	60	3/29/22 4:17	3/29/22 15:55	698	4.2E+07	D	04/04/22	1	cpm	0.20	3.90	0.6	7.6	6.0E-15	8.2E-14	0.7%	1.4%	BCS	CB
AS-0500	Perimeter	MSE02	PE10	60	3/29/22 4:10	3/29/22 16:01	711	4.3E+07	D	04/04/22	1	cpm	0.25	4.55	0.7	9.4	7.4E-15	1.0E-13	0.8%	1.7%	BCS	CB



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 Mar 2022 and 31 Mar 2022				Value < 0.1 x Effluent Conc (i.e., < 10%)						
Information effective as of: 06 Apr 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-0501	Perimeter	MSE01	PE09	60	3/30/22 4:07	3/30/22 15:15	668	4.0E+07	D	04/04/22	1	cpm	0.30	3.60	0.8	6.8	9.4E-15	7.6E-14	1.0%	1.3%	BCS	CB
AS-0502	Perimeter	MSE02	PE10	60	3/30/22 4:00	3/30/22 15:20	680	4.1E+07	D	04/04/22	1	cpm	0.10	3.20	0.3	5.6	3.1E-15	6.2E-14	0.3%	1.0%	BCS	CB
AS-0503	Perimeter	MSE01	PE09	60	3/31/22 4:20	3/31/22 15:05	645	3.9E+07	D	04/04/22	1	cpm	0.25	4.65	0.7	9.7	8.1E-15	1.1E-13	0.9%	1.9%	BCS	CB
AS-0504	Perimeter	MSE02	PE10	60	3/31/22 4:15	3/31/22 15:20	665	4.0E+07	D	04/04/22	1	cpm	0.20	3.75	0.6	7.2	6.3E-15	8.1E-14	0.7%	1.4%	BCS	CB

ATTACHMENT 7

LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 22030514



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 : 03/04/2022 15:11
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
MSE01-030122	3/1/2022 11:17	Cassette	22030514.01
MSE02-030122	3/1/2022 11:10	Cassette	22030514.02
MSE01-030222	3/2/2022 13:26	Cassette	22030514.03
MSE02-030222	3/2/2022 13:30	Cassette	22030514.04

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

Analyst: [REDACTED]

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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 : 22030514
 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
22030514.01	MSE01-030122	03/01/2022	Area	2			555	1110	100	13.5	17.197	0.006		03/11/22	[REDACTED]
22030514.02	MSE02-030122	03/01/2022	Area	2			554	1108	100	16.5	21.019	0.007		03/11/22	[REDACTED]
22030514.03	MSE01-030222	03/02/2022	Area	2			657	1314	100	13.5	17.197	0.005		03/11/22	[REDACTED]
22030514.04	MSE02-030222	03/02/2022	Area	2			652	1304	100	14	17.834	0.005		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 : 22030514	Date Received : 03/04/2022	Time Received : 3:11PM		
Client Name : GES - ASRC Industrial				
Temperature : 19.5°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:
 Black Cassettes. No cooler was received; however, samples are in a box with custody seal. ~JE 03/04/22

Received by : ██████████

Check in by/date : ██████████ / 03/04/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 3/03/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Special Instructions/Comments Total Time (min)
							Asbestos	Flow Rate = 2 L/min	
MSE01-030122	3/01/2022	1117	NA	NA	1	AA	X		555 <i>01A</i>
MSE02-030122	3/01/2022	1110	NA	NA	1	AA	X		554 <i>02A</i>
MSE01-030222	3/02/2022	1326	NA	NA	1	AA	X		657 <i>03A</i>
MSE02-030222	3/02/2022	1330	NA	NA	1	AA	X		652 <i>04A</i>

Job ID: 22030514



03/04/2022 GES - ASRC Industria ACI

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7761 9782 7085

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] / Gilbane Date: 3/3/22 Time: 1200 Received By/ Affiliation: Fedex Date: 3/3/22 Time: 1200

Special Instructions: [Redacted] **FEDEX** [Redacted] 3/4/22 1511

Send Results to: [Redacted] 19.5°C
1R3

Turnaround Time: Standard

3/3/22, 10:04 AM

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

TO

A & B LABS

10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000400001804

INV
PO

DEPT



221822198tur

56D.030086FE4A

FRI - 04 MAR 4:30P

STANDARD OVERNIGHT

TRK#
0201

7761 9782 7085

UL HBYA

TX-US

77029

IAH



Signature: _____

Date: 03/22

[Handwritten Signature]

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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Laboratory Analysis Report

Job ID : 22030958



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 : 03/09/2022 16:55
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
MSE01-030322	3/3/2022 10:58	Cassette	22030958.01
MSE02-030322	3/3/2022 11:08	Cassette	22030958.02
MSE01-030722	3/7/2022 16:09	Cassette	22030958.03
MSE02-030722	3/7/2022 15:59	Cassette	22030958.04

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

Analyst: [REDACTED]

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ab-q210-0321

3/16/2022



**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 3/16/2022

Job ID : 22030958
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
22030958.01	MSE01-030322	03/03/2022	Area	2			476	952	100	15.5	19.745	0.008		03/16/22	[REDACTED]
22030958.02	MSE02-030322	03/03/2022	Area	2			495	990	100	13.0	16.561	0.006		03/16/22	[REDACTED]
22030958.03	MSE01-030722	03/07/2022	Area	2			541	1082	100	12	15.287	0.005		03/16/22	[REDACTED]
22030958.04	MSE02-030722	03/07/2022	Area	2			556	1112	100	13.0	16.561	0.006		03/16/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22030958	Date Received : 03/09/2022	Time Received : 4:55PM		
Client Name : GES - ASRC Industrial				
Temperature : 18.9°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 Black Cassettes. No cooler was received; however, samples are received in a box with a custody.~JE 03-10-22

Received by : ██████████

Check in by/date : ██████████ / 03/10/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II B310000400 Laboratory Name: A&B Labs 3/08/2022
 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

Analysis:

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Asbestos		Flow Rate = 2 L/min
							Preservative:	None	
									Special Instructions/Comments
									Total Time (min)
01A MSE01-030322	3/03/2022	1058	NA	NA	1	AA	X		476 01A
02A MSE02-030322	3/03/2022	1108	NA	NA	1	AA	X		495 02A
03A MSE01-030722	3/07/2022	1609	NA	NA	1	AA	X		541 03A
04A MSE02-030722	3/07/2022	1559	NA	NA	1	AA	X		556 04A

TP

Job ID: 22030958



03/09/2022 GES - ASRC Industrial ACI

Sampled By: [Redacted]
 Signature: [Redacted]
 Special Instructions: _____
 Send Results to: [Redacted]
 Turnaround Time: Standard

Sampler: <u>[Redacted]</u>	Date: _____ Time: _____		Received By/ Affiliation: _____		Date: _____	Time: _____
Relinquished by: <u>[Redacted]</u>	Date: <u>3/8/22</u>	Time: <u>1600</u>	Received By: <u>Fedex</u>		Date: <u>3/8/22</u>	Time: <u>1600</u>
<u>Fedex</u>			<u>[Redacted]</u>		Date: <u>3/09/22</u>	Time: <u>1655</u>

Courier/Airbill No.: FedEx/ 7762 0896 0776

Temp: 18.9
T.D: 223 A10

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 08MAR22
ACTWGT: 1.00 LB
CAD: 254128867/NET4460

BILL SENDER

TO

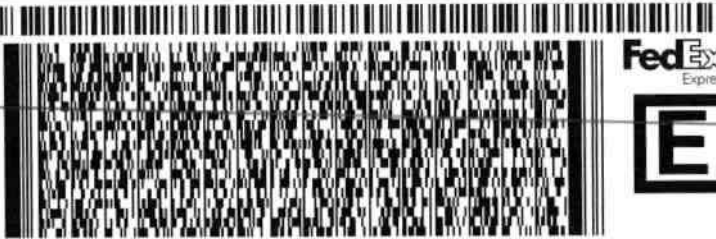
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000 400 00 18 04

INV
PO

DEPT:



560,09089FE4A

WED - 09 MAR 4:30P

STANDARD OVERNIGHT

TRK#
0201

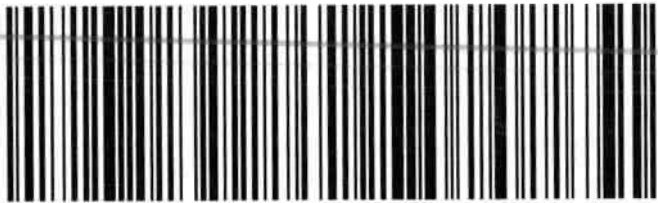
7762 0896 0776

UL HBYA

77029

TX-US

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Laboratory Analysis Report

Job ID : 22031144



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 : 03/11/2022 16:04
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
MSE01-030822	3/8/2022 15:57	Cassette	22031144.01
MSE02-030822	3/8/2022 15:45	Cassette	22031144.02
MSE01-030922	3/9/2022 15:50	Cassette	22031144.03
MSE02-030922	3/9/2022 15:57	Cassette	22031144.04

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

Analyst: [REDACTED]

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ab-q210-0321

3/18/2022



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

Date 3/18/2022

Job ID : 22031144
Analytical Method: NIOSH 7400-I2-Aug1994

Client: GES - ASRC Industrial			Project: HPNS Parcel E Phase II J310000400										Brett Womack		
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
22031144.01	MSE01-030822	03/08/2022	Area	2			556	1112	100	15.5	19.745	0.007		03/18/22	
22031144.02	MSE02-030822	03/08/2022	Area	2			559	1118	100	14.0	17.834	0.006		03/18/22	
22031144.03	MSE01-030922	03/09/2022	Area	2			552	1104	100	13.5	17.197	0.006		03/18/22	
22031144.04	MSE02-030922	03/09/2022	Area	2			573	1146	100	36.5	46.497	0.016		03/18/22	

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



Sample Condition Checklist

A&B JobID : 22031144	Date Received : 03/11/2022	Time Received : 4:04PM		
Client Name : GES - ASRC Industrial				
Temperature : 21.4°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:

Received in mail with sample custody seal. Received black cassettes. ~EV 3/11/2022

Received by : ██████████

Check in by/date : ██████████ / 03/11/2022

ab-s005-0321

Phone ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 3/10/2022
 Project Manager: [REDACTED] Address: 10100 East Fwy Ste. 100 Contact Name: [REDACTED] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Flow Rate = 2 L/min	Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	Container Type: Filter		
MSE01-030822	01A 3/08/2022	1557	NA	NA	1	AA	X				556
MSE02-030822	02A 3/08/2022	1545	NA	NA	1	AA	X				559
MSE01-030922	03A 3/09/2022	1550	NA	NA	1	AA	X				552
MSE02-030922	04A 3/09/2022	1557	NA	NA	1	AA	X				573

TP

Job ID: 22031144



03/11/2022 GES - ASRC Industrial ACH

Sampled By: <u>[REDACTED]</u>	Sampler: <u>[REDACTED]</u>	Courier/Airbill No.: FedEx/ 7762 0903 8342				
Signature: <u>[REDACTED]</u>	Relinquished By/Affiliation: <u>[REDACTED]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[REDACTED]</u> / Gilbane	3/10/22	1600	Fedex	3/10/22	1600
	<u>FEDEX</u>	3-10-22		<u>[REDACTED]</u>	3-10-22	15:36
Send Results to: <u>[REDACTED]</u>						
Turnaround Time: <u>Standard</u>						

TEMP: 21.4°C TR3

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 10MAR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

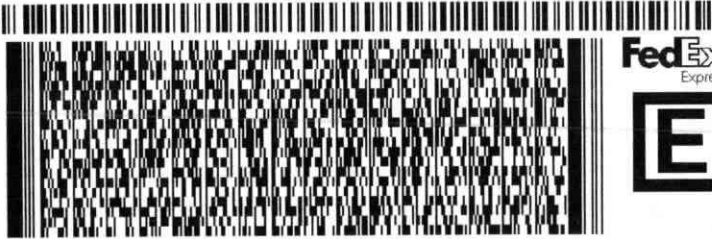
HOUSTON TX 77029

REF: J31000.400.00.18.04

INV

PO

DEPT.



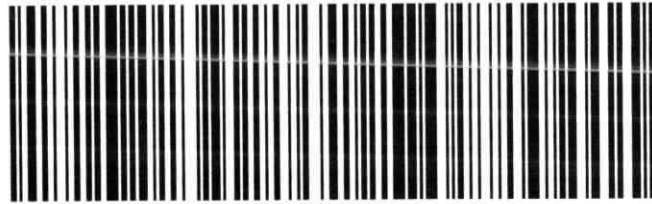
56D.J30088/FE4A

TRK# 7762 0903 8342
0201

FRI - 11 MAR 4:30P
STANDARD OVERNIGHT

UL HBYA

77029
TX-US IAH



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CUSTOMER

Gilbane

Laboratory Analysis Report

Job ID : 22031510



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 : 03/16/2022 14:41
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
MSE01-031022	3/10/2022 14:39	Cassette	22031510.01
MSE02-031022	3/10/2022 14:30	Cassette	22031510.02
MSE01-031422	3/14/2022 11:13	Cassette	22031510.03
MSE02-031422	3/14/2022 11:03	Cassette	22031510.04

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

Analyst: [REDACTED]

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ab-q210-0321

3/23/2022



**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 3/23/2022

Job ID : 22031510
 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
22031510.01	MSE01-031022	03/10/2022	Area	2			462	924	100	14.5	18.471	0.008		03/23/22	[REDACTED]
22031510.02	MSE02-031022	03/10/2022	Area	2			466	932	100	13	16.561	0.007		03/23/22	[REDACTED]
22031510.03	MSE01-031422	03/14/2022	Area	2			497	994	100	22.0	28.025	0.011		03/23/22	[REDACTED]
22031510.04	MSE02-031422	03/14/2022	Area	2			503	1006	100	19.5	24.841	0.010		03/23/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22031510	Date Received : 03/16/2022	Time Received : 2:41PM		
Client Name : GES - ASRC Industrial				
Temperature : 22.1°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 Black Cassettes. ~JE 03/16/22

Received by :

Check in by/date : / 03/16/2022

ab-s005-0321

Phone :

www.ablabs.com

Event ID: Air Monitoring March 2022

COC# KT031522ASB



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 3/15/2022
 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:		Special Instructions/Comments Total Time (min)
							Asbestos	Flow Rate = 2 L/min	
MSE01-031022	3/10/2022	1439	NA	NA	1	AA	X		462 01A
MSE02-031022	3/10/2022	1430	NA	NA	1	AA	X		466 02A
MSE01-031422	3/14/2022	1113	NA	NA	1	AA	X		497 03A
MSE02-031422	3/14/2022	1103	NA	NA	1	AA	X		503 04A

Job ID:22031510



03/16/2022 GES - ASRC Industrial ACH

Sampled By: <u>[REDACTED]</u>	Sampler: <u>[REDACTED]</u>	Courier/Airbill No.: FedEx/ 7762 9010 6844				
Signature: <u>[REDACTED]</u>	Relinquished by/Amiation: <u>[REDACTED]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[REDACTED]</u>	3/15/22	1200	Fedex	3/15/22	1200
Send Results to: <u>[REDACTED]</u>	<u>FEDEX</u>			<u>[REDACTED]</u>	3/15/22	1441
Turnaround Time: <u>Standard</u>						

22100
113

ORIGIN ID: ICCA [REDACTED]

200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 15MAR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

BILL SENDER

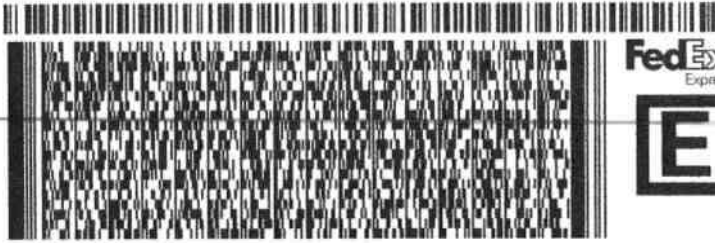
TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000400001804

INV PO DEPT



560J5EB02FE4A

WED - 16 MAR 4:30P

STANDARD OVERNIGHT

TRK# 7762 9010 6844
0201

UL HBYA

77029
TX-US IAH



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CUSTODY SEAL

Sample No. _____

(signature)

Time Collected _____

3
15/22

Laboratory Analysis Report

Job ID : 22031759



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 : 03/18/2022 14:13
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 - 031522	3/15/2022 12:05	Cassette	22031759.01
MSE02 - 031522	3/15/2022 11:59	Cassette	22031759.02
MSE01 - 031622	3/16/2022 11:59	Cassette	22031759.03
MSE02 - 031622	3/16/2022 12:06	Cassette	22031759.04

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

Analyst: [REDACTED]

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ab-q210-0321

3/28/2022



**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 3/28/2022

Job ID : 22031759
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
22031759.01	MSE01 - 031522	03/15/2022	Area	2			553	1106	100	12.0	15.287	0.005		03/28/22	[REDACTED]
22031759.02	MSE02 - 031522	03/15/2022	Area	2			561	1122	100	11.0	14.013	0.005		03/28/22	[REDACTED]
22031759.03	MSE01 - 031622	03/16/2022	Area	2			511	1022	100	13	16.561	0.006		03/28/22	[REDACTED]
22031759.04	MSE02 - 031622	03/16/2022	Area	2			532	1064	100	15.0	19.108	0.007		03/28/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22031759	Date Received : 03/18/2022	Time Received : 2:13PM		
Client Name : GES - ASRC Industrial				
Temperature : 17.7°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 black cassettes~EV 3/18/2022

Received by : ██████████

Check in by/date : ██████████ / 03/18/2022

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 3/17/2022
 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

01A
02A
03A
04A

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:			
MSE01-031522	3/15/2022	1205	NA	NA	1	AA	X	None		553	01A
MSE02-031522	3/15/2022	1159	NA	NA	1	AA	X	None		561	02A
MSE01-031622	3/16/2022	1159	NA	NA	1	AA	X	None		511	03A
MSE02-031622	3/16/2022	1206	NA	NA	1	AA	X	None		532	04A

TP

Job ID: 22031759



03/18/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7763 1384 5503				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[Redacted] / Gilbane</u>	<u>3/17/22</u>	<u>1200</u>	<u>Fedex</u>	<u>3/17/22</u>	<u>1200</u>
	<u>FedEx</u>	<u>3/18/22</u>	<u>14:13</u>	<u>[Redacted]</u>	<u>3/18/22</u>	<u>14:13</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

Temp: 17.7
50-80 56

ORIGIN ID: ICCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 17MAR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

BILL SENDER

TO

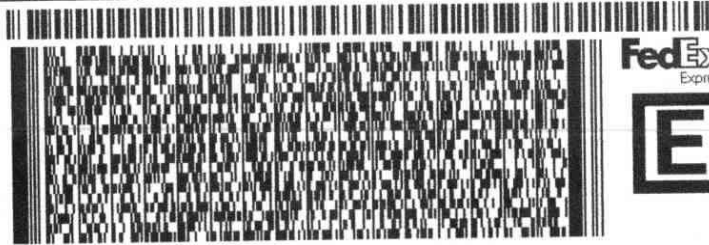
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000.400.00.18.04

INV.
PO

DEPT



56D.J5JEB02FE4A

J2118228108010V

FRI - 18 MAR 4:30P
STANDARD OVERNIGHT

TRK# **7763 1384 5503**
0201

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Laboratory Analysis Report

Job ID : 22032112



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 : 03/23/2022 16:02
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 - 031722	3/17/2022 10:57	Cassette	22032112.01
MSE02 - 031722	3/17/2022 11:04	Cassette	22032112.02
MSE01 - 032122	3/21/2022 15:33	Cassette	22032112.03
MSE02 - 032122	3/21/2022 15:28	Cassette	22032112.04

[REDACTED]
Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

3/28/2022



**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 3/28/2022

Job ID : 22032112
 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
22032112.01	MSE01 - 031722	03/17/2022	Area	2			446	892	100	10.5	13.376	0.006		03/28/22	[REDACTED]
22032112.02	MSE02 - 031722	03/17/2022	Area	2			466	932	100	10.5	13.376	0.006		03/28/22	[REDACTED]
22032112.03	MSE01 - 032122	03/21/2022	Area	2			506	1012	100	13.5	17.197	0.007		03/28/22	[REDACTED]
22032112.04	MSE02 - 032122	03/21/2022	Area	2			520	1040	100	17.0	21.656	0.008		03/28/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22032112	Date Received : 03/23/2022	Time Received : 4:02PM		
Client Name : GES - ASRC Industrial				
Temperature : 21.3°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.	X		
3.	If yes, ice in cooler.		X	
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
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 in package in the mail with custody seal. Received in black cassettes. ~EV 3/23/2022

Received by : ██████████

Check in by/date : ██████████ 03/23/2022

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 3/22/2022
 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			
MSE01-031722	01A 3/17/2022	1057	NA	NA	1	AA	X			446
MSE02-031722	02A 3/17/2022	1104	NA	NA	1	AA	X			466
MSE01-032122	03A 3/21/2022	1533	NA	NA	1	AA	X			506
MSE02-032122	04A 3/21/2022	1528	NA	NA	1	AA	X			520
TP										

Job ID: 22032112



03/23/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7763 6570 4563

Signature: [Redacted] Relinquished By/Signature: [Redacted] Date: 3/22/22 Time: 1600 Received By/ Affiliation: Fedex 1 Date: 3/22/22 Time: 1600

Special Instructions: [Redacted] Gilbane FEDEX 3-23-22 16:02 [Redacted] 3-23-22 16:02

Send Results to: [Redacted]

Turnaround Time: Standard

TEMP: 21-3°C ID: IRS

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

SHIP DATE: 22MAR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

BILL SENDER

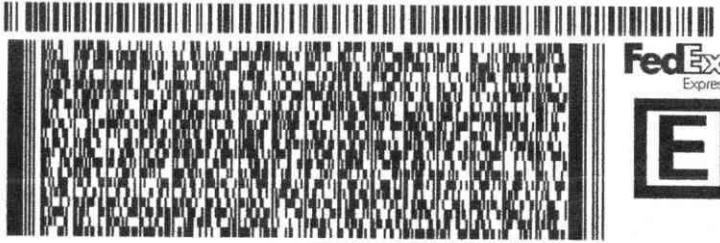
TO [REDACTED]
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000400001804

INV
PO

DEPT



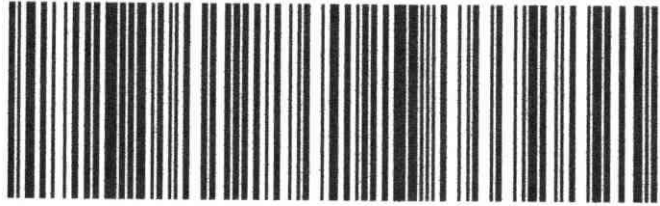
WED - 23 MAR 4:30P

STANDARD OVERNIGHT

TRK# 7763 6570 4563
0201

UL HBYA

77029
TX-US IAH



FEDEX02FE4A

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CUSTOMER

Gilbane



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

Laboratory Analysis Report

Job ID : 22032373



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 : 03/25/2022 15:09
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01 - 032222	3/22/2022 15:54	Cassette	22032373.01
MSE02 - 032222	3/22/2022 15:58	Cassette	22032373.02
MSE01 - 032322	3/23/2022 16:11	Cassette	22032373.03
MSE02 - 032322	3/23/2022 16:05	Cassette	22032373.04

[REDACTED]
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

4/1/2022



**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 4/1/2022

Job ID : 22032373
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
22032373.01	MSE01 - 032222	03/22/2022	Area	2			540	1080	100	3	3.822	< 0.002		04/01/22	[REDACTED]
22032373.02	MSE02 - 032222	03/22/2022	Area	2			557	1114	100	2.0	2.548	< 0.002		04/01/22	[REDACTED]
22032373.03	MSE01 - 032322	03/23/2022	Area	2			563	1126	100	1.5	1.911	< 0.002		04/01/22	[REDACTED]
22032373.04	MSE02 - 032322	03/23/2022	Area	2			568	1136	100	2.5	3.185	< 0.002		04/01/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22032373	Date Received : 03/25/2022	Time Received : 3:09PM		
Client Name : GES - ASRC Industrial				
Temperature : 24.5°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: <input type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Cassette <input type="checkbox"/> Tube <input type="checkbox"/> Bulk <input type="checkbox"/> Badge <input type="checkbox"/> Food <input type="checkbox"/> Other			
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. Black Cassettes. ~EV 3/25/2022

Received by : ██████████

Check in by/date : ██████████ / 03/25/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 3/24/2022
 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:		
							None	Filter		

01A
02A
03A
04A

MSE01-032222	3/22/2022	1554	NA	NA	1	AA	X			540
MSE02-032222	3/22/2022	1558	NA	NA	1	AA	X			557
MSE01-032322	3/23/2022	1611	NA	NA	1	AA	X			563
MSE02-032322	3/23/2022	1605	NA	NA	1	AA	X			568

Job ID: 22032373



03/25/2022 GES - ASRC Industrial ACH

3/24/22 *[Signature]*

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7763 7508 3290				
Signature: <u>[Redacted]</u>	Relinquished By/ Affiliation: <u>[Redacted] / Gilbane</u>	Date: <u>3/24/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>[Redacted]</u>	Date: <u>3/24/22</u>	Time: <u>1600</u>
Special Instructions: <u>None</u>	<u>[Redacted]</u>	<u>3/25/22</u>	<u>15:09</u>	<u>[Redacted]</u>	<u>3/25/22</u>	<u>15:09</u>
Send Results to: <u>[Redacted]</u>						
Turnaround Time: <u>Standard</u>						

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

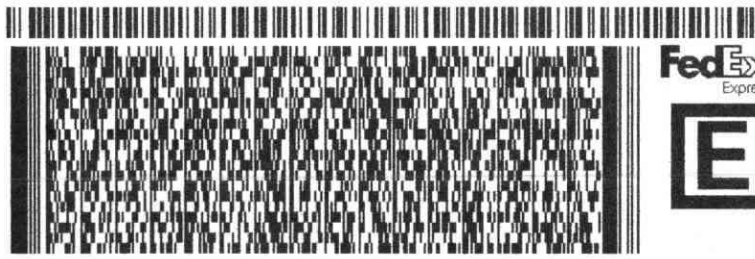
SHIP DATE: 24MAR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460
BILL SENDER

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

56D,J5EB02/FE4A

REF: J31000.400.00.18.04

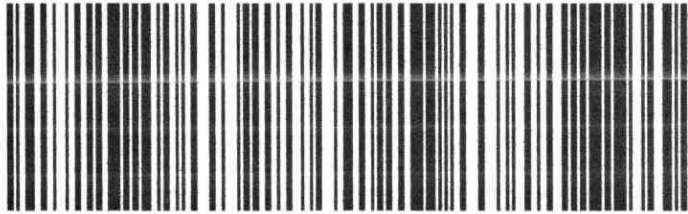
INV PO DEPT



FRI - 25 MAR 4:30P
STANDARD OVERNIGHT

TRK# 7763 7508 3290
0201

UL HBYA 77029
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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.

Laboratory Analysis Report

Job ID : 22032771



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 : 03/30/2022 15:40
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
MSE01-032422	3/24/2022 14:51	Cassette	22032771.01
MSE02-032422	3/24/2022 14:33	Cassette	22032771.02
MSE01-032822	3/28/2022 15:51	Cassette	22032771.03
MSE02-032822	3/28/2022 15:33	Cassette	22032771.04

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

Analyst: [REDACTED]

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ab-q210-0321

4/6/2022



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

Date 4/6/2022

Job ID : 22032771
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
22032771.01	MSE01-032422	03/24/2022	Area	2			484	968	100	8.0	10.191	0.004		04/04/22	[REDACTED]
22032771.02	MSE02-032422	03/24/2022	Area	2			481	962	100	5.5	7.006	0.003		04/04/22	[REDACTED]
22032771.03	MSE01-032822	03/28/2022	Area	2			518	1036	100	3.5	4.459	< 0.003		04/04/22	[REDACTED]
22032771.04	MSE02-032822	03/28/2022	Area	2			521	1042	100	5.0	6.369	< 0.003		04/04/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22032771	Date Received : 03/30/2022	Time Received : 3:40PM		
Client Name : GES - ASRC Industrial				
Temperature : 19.3°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received; however, samples are received in a box with a custody seal. ~JE 03/30/22

Received by : ██████████

Check in by/date : ██████████ / 03/30/2022

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 3/29/2022
 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:		
MSE01-032422	01A	3/24/2022	1451	NA	NA	1	AA	X	484	01A
MSE02-032422	02A	3/24/2022	1433	NA	NA	1	AA	X	481	02A
MSE01-032822	03A	3/28/2022	1551	NA	NA	1	AA	X	518	03A
MSE02-032822	04A	3/28/2022	1533	NA	NA	1	AA	X	521	04A
	TP									

Job ID: 22032771



03/30/2022 GES - ASRC Industrial ACII

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7764 1640 3508			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date: <u>3/29/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>Fedex</u>	Date: <u>3/29/22</u>
Special Instructions: <u>—</u>	<u>1 Gilbane</u>	<u>3-29-22</u>	<u>1600</u>	<u>1</u>	<u>1600</u>
	<u>FEDEX</u>	<u>3-30-22</u>		<u>[Redacted]</u>	<u>1540</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>					<u>19.3"0 1R3</u>

ORIGINATOR: [REDACTED]
200 FISHER STREET
SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 29MAR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

BILL SENDER

TO: [REDACTED]
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

56DUJ1E3RIFE4A

REF: J31000400001804

INV PO: DEPT:



WED - 30 MAR 4:30P
STANDARD OVERNIGHT

TRK# 7764 1640 3508
0201

UL HBYA

77029
TX-US IAH



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Laboratory Analysis Report

Job ID : 22040091



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 : 04/01/2022 15:27
City, State, Zip: Tempe, Arizona, 85282 Sample Collected By : [REDACTED]

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-032922	3/29/2022 15:56	Cassette	22040091.01
MSE02-032922	3/29/2022 15:53	Cassette	22040091.02
MSE01-033022	3/30/2022 6:54	Cassette	22040091.03
MSE02-033022	3/30/2022 6:44	Cassette	22040091.04

[REDACTED]
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

4/8/2022



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

Date 4/8/2022

Job ID : 22040091
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
22040091.01	MSE01-032922	03/29/2022	Area	2			541	1082	100	1	1.274	< 0.002		04/06/22	[REDACTED]
22040091.02	MSE02-032922	03/29/2022	Area	2			549	1098	100	4.5	5.732	< 0.002		04/06/22	[REDACTED]
22040091.03	MSE01-033022	03/30/2022	Area	2			472	944	100	2	2.548	< 0.003		04/06/22	[REDACTED]
22040091.04	MSE02-033022	03/30/2022	Area	2			488	976	100	4	5.096	< 0.003		04/06/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22040091		Date Received : 04/01/2022	Time Received : 3:27PM									
Client Name : GES - ASRC Industrial												
Temperature : 19.0°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, received in a box with custody seal. ~JE 04/01/22

Received by : ██████████

Check in by/date : ██████████ / 04/01/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II I310000400 Laboratory Name: A&B Labs 3/31/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	
MSE01-032922	3/29/2022	1556	NA	NA	1	AA	X	None	541 01A
MSE02-032922	3/29/2022	1553	NA	NA	1	AA	X	None	549 02A
MSE01-033022	3/30/2022	0654	NA	NA	1	AA	X	Filter	472 03A
MSE02-033022	3/30/2022	0644	NA	NA	1	AA	X	Filter	488 04A

Flow Rate = 2 L/min

TP

Job ID:22040091



04/01/2022 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7764 4396 6749

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 3/31/22 Time: 1600 Received By/ Affiliation: [Redacted] Date: 3/31/22 Time: 1600

Special Instructions: [Redacted] 16. Gilbane FEDEV 3/31/22 Fedex [Redacted] 04/01/22 1527

Send Results to: [Redacted] 19.0°C 1K3

Turnaround Time: Standard

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

SHIP DATE: 31MAR22
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

INV
PO

DEPT



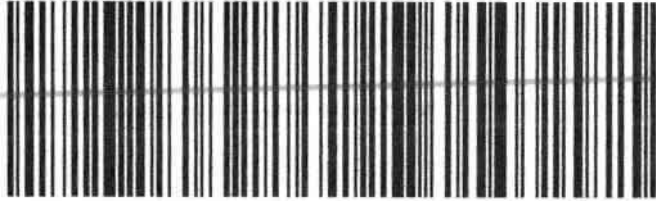
56DU11E3BFE4A

TRK#
0201 7764 4396 6749

FRI - 01 APR 4:30P
STANDARD OVERNIGHT

UL HBYA

77029
TX-US IAH



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CUSTODY SEAL



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

Gilbane

Date: 3/31/22

Signature: *[Handwritten Signature]*

Laboratory Analysis Report

Job ID : 22040533



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 : 04/06/2022 16:18
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
MSE01-033122	3/31/2022 14:40	Cassette	22040533.01
MSE02-033122	3/31/2022 14:44	Cassette	22040533.02
MSE01-040422	4/4/2022 15:47	Cassette	22040533.03
MSE02-040422	4/4/2022 15:52	Cassette	22040533.04

[REDACTED]
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

4/13/2022



**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 4/13/2022

Job ID : 22040533
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
22040533.01	MSE01-033122	03/31/2022	Area	2			460	920	100	2.0	2.548	< 0.003		04/13/22	[REDACTED]
22040533.02	MSE02-033122	03/31/2022	Area	2			473	946	100	6.0	7.643	0.003		04/13/22	[REDACTED]
22040533.03	MSE01-040422	04/04/2022	Area	2			515	1030	100	4	5.096	< 0.003		04/13/22	[REDACTED]
22040533.04	MSE02-040422	04/04/2022	Area	2			534	1068	100	8.5	10.828	0.004		04/13/22	[REDACTED]

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts



Sample Condition Checklist

A&B JobID : 22040533	Date Received : 04/06/2022	Time Received : 4:18PM		
Client Name : GES - ASRC Industrial				
Temperature : 24.1°C	Sample pH : NA			
Thermometer ID : IR3	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Received black cassette. ~EV 4/7/2022

Received by : ██████████

Check in by/date : ██████████ / 04/07/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs 4/05/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

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:		
MSE01-033122	01A 3/31/2022	1440	NA	NA	1	AA	X	None		460
MSE02-033122	02A 3/31/2022	1444	NA	NA	1	AA	X	None		473
MSE01-040422	03A 4/04/2022	1547	NA	NA	1	AA	X	Filter		515
MSE02-040422	04A 4/04/2022	1552	NA	NA	1	AA	X	Filter		534

Job ID: 22040533



04/06/2021 GES - ASRC Industrial ACH

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7764 8676 9918

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 4/5/22 Time: 1600 Received By/ Affiliation: Fedex Date: 4/5/22 Time: 1600

Special Instructions: [Redacted] Gilbane FEDEX 4-6-22 16:18 [Redacted] 4-6-22 16:18

Send Results to: [Redacted]

Turnaround Time: Standard

24.1
IR3
W

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 05APR22
ACTWGT: 1.00 LB
CAD: 254128867/INET4460

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

INV.
PO.

REF: J31000.400.00.18.04

DEPT.



56DU1Y1E3B6FE4A

WED - 06 APR 4:30P

STANDARD OVERNIGHT

TRK#
0201

7764 8676 9918

UL HBYA

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CUSTOMER SEAL



ANALYTICAL REPORT

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

Laboratory Job ID: 320-85306-1
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:
3/21/2022 8:13:46 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: 320-85306-1

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: 320-85306-1

Job ID: 320-85306-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85306-1

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.

- 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: 320-85306-1

Client Sample ID: GILBANEPM011822-1746

Lab Sample ID: 320-85306-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.026		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.14		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014		0.00067	0.000093	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1746

Lab Sample ID: 320-85306-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	57.4029		0.2914	0.2914	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM011822-1747

Lab Sample ID: 320-85306-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.00065	0.000097	ug/m3 (Air)	1		6020	Total/NA
Copper	0.033		0.0013	0.000097	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0048		0.00065	0.000091	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	17		0.27	0.27	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP011822-1747

Lab Sample ID: 320-85306-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.8303		0.2734	0.2734	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: 320-85306-1

Client Sample ID: GILBANEPM011822-1746

Lab Sample ID: 320-85306-1

Date Collected: 03/01/22 02:05

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	0.026		0.00067	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:18	1
Copper	0.14		0.0013	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:18	1
Manganese	0.014		0.00067	0.000093	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.28	0.28	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP011822-1746

Lab Sample ID: 320-85306-2

Date Collected: 03/01/22 02:05

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	57.4029		0.2914	0.2914	ug/m3 (Air)			03/08/22 17:10	1

Client Sample ID: GILBANEPM011822-1747

Lab Sample ID: 320-85306-3

Date Collected: 03/01/22 01:56

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	0.0021		0.00065	0.000097	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:21	1
Copper	0.033		0.0013	0.000097	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:21	1
Manganese	0.0048		0.00065	0.000091	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	17		0.27	0.27	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP011822-1747

Lab Sample ID: 320-85306-4

Date Collected: 03/01/22 01:56

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	27.8303		0.2734	0.2734	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: 320-85306-1

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: 320-85306-1

Metals

Pre Prep Batch: 571847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85306-1	GILBANEPM011822-1746	Total/NA	Air	Filter to Air	
320-85306-3	GILBANEPM011822-1747	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
320-85306-1	GILBANEPM011822-1746	Total/NA	Air	3050B	571847
320-85306-3	GILBANEPM011822-1747	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
320-85306-1	GILBANEPM011822-1746	Total/NA	Air	6020	571854
320-85306-3	GILBANEPM011822-1747	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
320-85306-2	GILBANETSP011822-1746	Total/NA	Air	Filter to Air	
320-85306-4	GILBANETSP011822-1747	Total/NA	Air	Filter to Air	

Analysis Batch: 571941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85306-2	GILBANETSP011822-1746	Total/NA	Air	40CFR50 App B	570068
320-85306-4	GILBANETSP011822-1747	Total/NA	Air	40CFR50 App B	570068

Analysis Batch: 571944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85306-1	GILBANEPM011822-1746	Total/NA	Air	PM10	
320-85306-3	GILBANEPM011822-1747	Total/NA	Air	PM10	

Lab Chronicle

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

Job ID: 320-85306-1

Client Sample ID: GILBANEPM011822-1746

Lab Sample ID: 320-85306-1

Date Collected: 03/01/22 02:05

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 12:18	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0596 g	571944	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1746

Lab Sample ID: 320-85306-2

Date Collected: 03/01/22 02:05

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: GILBANEPM011822-1747

Lab Sample ID: 320-85306-3

Date Collected: 03/01/22 01:56

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 12:21	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0311 g	571944	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANETSP011822-1747

Lab Sample ID: 320-85306-4

Date Collected: 03/01/22 01:56

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: 320-85306-1

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: 320-85306-1

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: 320-85306-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85306-1	GILBANEPM011822-1746	Air	03/01/22 02:05	03/02/22 09:40
320-85306-2	GILBANETSP011822-1746	Air	03/01/22 02:05	03/02/22 09:40
320-85306-3	GILBANEPM011822-1747	Air	03/01/22 01:56	03/02/22 09:40
320-85306-4	GILBANETSP011822-1747	Air	03/01/22 01:56	03/02/22 09:40

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT030122AIR



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 March 2022

Comments:

Equipment:

Analytical Test Method: CAAIR - Air PM10
 N0500 - Air TSP
 SW6020 - Air Pb Mn Cu

Code	Matrix
A	Air

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

Event: Parcel E Phase 2 Air Monitoring March 2022												
Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	A	03/01/2022	0205	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1802.69 (M3)
2	A	03/01/2022	0205	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1715.94 (M3)
3	A	03/01/2022	0156	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1848.08 (M3)
4	A	03/01/2022	0156	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1828.94 (M3)
5												
6												
7												
8												
9												
10												

Turnaround Time: 5 days

Barcode: 320-85306 Chain of Custody

Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/1/22	1200	Shipping Date: 3/1/2022 / FedEx 7761 5879 9165
[Redacted]	3/2/22	944	
Received by Laboratory: (Signature, Date, Time) & condition			

26



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85306-1

Login Number: 85306

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
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: 320-85454-1
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:
3/21/2022 1:49:48 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: 320-85454-1

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: 320-85454-1

Job ID: 320-85454-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85454-1

Receipt

The samples were received on 3/4/2022 9:50 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 20.4° 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: 320-85454-1

Client Sample ID: GILBANEPM020122-1766

Lab Sample ID: 320-85454-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.010		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	0.0066		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1766

Lab Sample ID: 320-85454-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	23.4869		0.2973	0.2973	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1767

Lab Sample ID: 320-85454-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.038		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0040		0.00067	0.000093	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1767

Lab Sample ID: 320-85454-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.0072		0.2779	0.2779	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1768

Lab Sample ID: 320-85454-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0014		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.061		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0035		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1768

Lab Sample ID: 320-85454-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.4365		0.2999	0.2999	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1769

Lab Sample ID: 320-85454-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0013		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.046		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.0		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1769

Lab Sample ID: 320-85454-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.9278		0.2831	0.2831	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: 320-85454-1

Client Sample ID: GILBANEPM020122-1766

Lab Sample ID: 320-85454-1

Date Collected: 03/02/22 02:39

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.010		0.00068	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:24	1
Copper	0.10		0.0014	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:24	1
Manganese	0.0066		0.00068	0.000095	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.28	0.28	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP020122-1766

Lab Sample ID: 320-85454-2

Date Collected: 03/02/22 02:39

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.4869		0.2973	0.2973	ug/m3 (Air)			03/08/22 17:10	1

Client Sample ID: GILBANEPM020122-1767

Lab Sample ID: 320-85454-3

Date Collected: 03/02/22 02:28

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016		0.00067	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:28	1
Copper	0.038		0.0013	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:28	1
Manganese	0.0040		0.00067	0.000093	ug/m3 (Air)		03/10/22 11:20	03/11/22 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.28	0.28	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP020122-1767

Lab Sample ID: 320-85454-4

Date Collected: 03/02/22 02:28

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.0072		0.2779	0.2779	ug/m3 (Air)			03/08/22 17:10	1

Client Sample ID: GILBANEPM020122-1768

Lab Sample ID: 320-85454-5

Date Collected: 03/03/22 03:05

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014		0.00068	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 13:41	1
Copper	0.061		0.0014	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 13:41	1
Manganese	0.0035		0.00068	0.000095	ug/m3 (Air)		03/10/22 11:20	03/11/22 13:41	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85454-1

Client Sample ID: GILBANEPM020122-1768

Lab Sample ID: 320-85454-5

Date Collected: 03/03/22 03:05

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.28	0.28	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP020122-1768

Lab Sample ID: 320-85454-6

Date Collected: 03/03/22 03:05

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.4365		0.2999	0.2999	ug/m3 (Air)			03/08/22 17:10	1

Client Sample ID: GILBANEPM020122-1769

Lab Sample ID: 320-85454-7

Date Collected: 03/03/22 02:56

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0013		0.00067	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 13:44	1
Copper	0.046		0.0013	0.00010	ug/m3 (Air)		03/10/22 11:20	03/11/22 13:44	1
Manganese	0.0025		0.00067	0.000094	ug/m3 (Air)		03/10/22 11:20	03/11/22 13:44	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.0		0.28	0.28	ug/m3			03/08/22 17:10	1

Client Sample ID: GILBANETSP020122-1769

Lab Sample ID: 320-85454-8

Date Collected: 03/03/22 02:56

Matrix: Air

Date Received: 03/04/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.9278		0.2831	0.2831	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: 320-85454-1

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: 320-85454-1

Metals

Pre Prep Batch: 571847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85454-1	GILBANEPM020122-1766	Total/NA	Air	Filter to Air	
320-85454-3	GILBANEPM020122-1767	Total/NA	Air	Filter to Air	
320-85454-5	GILBANEPM020122-1768	Total/NA	Air	Filter to Air	
320-85454-7	GILBANEPM020122-1769	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
320-85454-1	GILBANEPM020122-1766	Total/NA	Air	3050B	571847
320-85454-3	GILBANEPM020122-1767	Total/NA	Air	3050B	571847
320-85454-5	GILBANEPM020122-1768	Total/NA	Air	3050B	571847
320-85454-7	GILBANEPM020122-1769	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
320-85454-1	GILBANEPM020122-1766	Total/NA	Air	6020	571854
320-85454-3	GILBANEPM020122-1767	Total/NA	Air	6020	571854
320-85454-5	GILBANEPM020122-1768	Total/NA	Air	6020	571854
320-85454-7	GILBANEPM020122-1769	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: 571947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85454-2	GILBANETSP020122-1766	Total/NA	Air	Filter to Air	
320-85454-4	GILBANETSP020122-1767	Total/NA	Air	Filter to Air	
320-85454-6	GILBANETSP020122-1768	Total/NA	Air	Filter to Air	
320-85454-8	GILBANETSP020122-1769	Total/NA	Air	Filter to Air	

Analysis Batch: 572364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85454-1	GILBANEPM020122-1766	Total/NA	Air	PM10	
320-85454-3	GILBANEPM020122-1767	Total/NA	Air	PM10	
320-85454-5	GILBANEPM020122-1768	Total/NA	Air	PM10	
320-85454-7	GILBANEPM020122-1769	Total/NA	Air	PM10	

Analysis Batch: 572365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85454-2	GILBANETSP020122-1766	Total/NA	Air	40CFR50 App B	571947
320-85454-4	GILBANETSP020122-1767	Total/NA	Air	40CFR50 App B	571947
320-85454-6	GILBANETSP020122-1768	Total/NA	Air	40CFR50 App B	571947
320-85454-8	GILBANETSP020122-1769	Total/NA	Air	40CFR50 App B	571947

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-85454-1

Client Sample ID: GILBANEPM020122-1766

Lab Sample ID: 320-85454-1

Date Collected: 03/02/22 02:39

Matrix: Air

Date Received: 03/04/22 09:50

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					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 12:24	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0281 g	572364	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1766

Lab Sample ID: 320-85454-2

Date Collected: 03/02/22 02:39

Matrix: Air

Date Received: 03/04/22 09:50

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			572365	03/08/22 17:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					571947	03/10/22 16:04	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1767

Lab Sample ID: 320-85454-3

Date Collected: 03/02/22 02:28

Matrix: Air

Date Received: 03/04/22 09:50

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					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 12:28	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0255 g	572364	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1767

Lab Sample ID: 320-85454-4

Date Collected: 03/02/22 02:28

Matrix: Air

Date Received: 03/04/22 09:50

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			572365	03/08/22 17:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					571947	03/10/22 16:04	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1768

Lab Sample ID: 320-85454-5

Date Collected: 03/03/22 03:05

Matrix: Air

Date Received: 03/04/22 09:50

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					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 13:41	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0198 g	572364	03/08/22 17:10	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85454-1

Client Sample ID: GILBANETSP020122-1768
Date Collected: 03/03/22 03:05
Date Received: 03/04/22 09:50

Lab Sample ID: 320-85454-6
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			572365	03/08/22 17:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					571947	03/10/22 16:04	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1769
Date Collected: 03/03/22 02:56
Date Received: 03/04/22 09:50

Lab Sample ID: 320-85454-7
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					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 13:44	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0160 g	572364	03/08/22 17:10	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1769
Date Collected: 03/03/22 02:56
Date Received: 03/04/22 09:50

Lab Sample ID: 320-85454-8
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			572365	03/08/22 17:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					571947	03/10/22 16:04	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: 320-85454-1

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
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Method Summary

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

Job ID: 320-85454-1

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: 320-85454-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85454-1	GILBANEPM020122-1766	Air	03/02/22 02:39	03/04/22 09:50
320-85454-2	GILBANETSP020122-1766	Air	03/02/22 02:39	03/04/22 09:50
320-85454-3	GILBANEPM020122-1767	Air	03/02/22 02:28	03/04/22 09:50
320-85454-4	GILBANETSP020122-1767	Air	03/02/22 02:28	03/04/22 09:50
320-85454-5	GILBANEPM020122-1768	Air	03/03/22 03:05	03/04/22 09:50
320-85454-6	GILBANETSP020122-1768	Air	03/03/22 03:05	03/04/22 09:50
320-85454-7	GILBANEPM020122-1769	Air	03/03/22 02:56	03/04/22 09:50
320-85454-8	GILBANETSP020122-1769	Air	03/03/22 02:56	03/04/22 09:50

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT030322AIR



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 March 2022

Comments:

Equipment:

Analytical Test Method

Code	Matrix
A	Air

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



Event: Parcel E Phase 2 Air Monitoring March 2022												
Sample ID	Matrix	Date	Time	Sampl Init.	CAIR - Air PM10	N0500 - Air TSP	SW6020 - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top Bottom	Cooler	Comments
1	A	03/02/2022	0239	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1775.21 (M3)
2	A	03/02/2022	0239	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1681.79 (M3)
3	A	03/02/2022	0228	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1804.20 (M3)
4	A	03/02/2022	0228	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1799.38 (M3)
5	A	03/03/2022	0305	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1762.57 (M3)
6	A	03/03/2022	0305	KT	X	X		AMSE1	N1	0.00 0.00	1	VOLUME: 1667.10 (M3)
7	A	03/03/2022	0256	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1784.73 (M3)
8	A	03/03/2022	0256	KT	X	X		AMSE2	N1	0.00 0.00	1	VOLUME: 1766.25 (M3)
9			TP									
10												

Turnaround Time: 5 days

Received by: (Signature)	Date	Time
Fedex	3/3/22	1200
	3/4/22	950
Shipping Date / Carrier / Airbill Number		
Shipping Date: 3/3/2022 / FedEx 7761 9771 6431		
Received by Laboratory: (Signature, Date, Time) & condition		

Gilbane Navy_COC_Field
March 03, 2022

207



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85454-1

Login Number: 85454

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: 320-85582-1
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:
3/24/2022 2:19:46 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: 320-85582-1

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: 320-85582-1

Job ID: 320-85582-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85582-1

Comments

No additional comments.

Receipt

The samples were received on 3/9/2022 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 13.7° 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: 320-85582-1

Client Sample ID: GILBANEPM020122-1770

Lab Sample ID: 320-85582-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0019	J	0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.20		0.0042	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0046	B	0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.7		0.88	0.88	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1770

Lab Sample ID: 320-85582-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	8.2005		0.9319	0.9319	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1771

Lab Sample ID: 320-85582-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0014	J	0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.052		0.0040	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0033	B	0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.9		0.84	0.84	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1771

Lab Sample ID: 320-85582-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	4.8726		0.8401	0.8401	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1772

Lab Sample ID: 320-85582-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.090		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0081	B	0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1772

Lab Sample ID: 320-85582-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.8834		0.3104	0.3104	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1773

Lab Sample ID: 320-85582-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0040		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.14		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0077	B	0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1773

Lab Sample ID: 320-85582-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	25.4247		0.2896	0.2896	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: 320-85582-1

Client Sample ID: GILBANEPM020122-1770

Lab Sample ID: 320-85582-1

Date Collected: 03/03/22 11:01

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0019	J	0.0021	0.00032	ug/m3 (Air)		03/21/22 07:00	03/23/22 18:51	1
Copper	0.20		0.0042	0.00032	ug/m3 (Air)		03/21/22 07:00	03/24/22 02:26	1
Manganese	0.0046	B	0.0021	0.00030	ug/m3 (Air)		03/21/22 07:00	03/23/22 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.7		0.88	0.88	ug/m3			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1770

Lab Sample ID: 320-85582-2

Date Collected: 03/03/22 11:01

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	8.2005		0.9319	0.9319	ug/m3 (Air)			03/16/22 07:40	1

Client Sample ID: GILBANEPM020122-1771

Lab Sample ID: 320-85582-3

Date Collected: 03/03/22 11:11

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014	J	0.0020	0.00030	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:00	1
Copper	0.052		0.0040	0.00030	ug/m3 (Air)		03/21/22 07:00	03/24/22 02:35	1
Manganese	0.0033	B	0.0020	0.00028	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:00	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.9		0.84	0.84	ug/m3			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1771

Lab Sample ID: 320-85582-4

Date Collected: 03/03/22 11:11

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	4.8726		0.8401	0.8401	ug/m3 (Air)			03/16/22 07:40	1

Client Sample ID: GILBANEPM020122-1772

Lab Sample ID: 320-85582-5

Date Collected: 03/08/22 06:42

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.00071	0.00011	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:04	1
Copper	0.090		0.0014	0.00011	ug/m3 (Air)		03/21/22 07:00	03/24/22 02:39	1
Manganese	0.0081	B	0.00071	0.000099	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:04	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85582-1

Client Sample ID: GILBANEPM020122-1772

Lab Sample ID: 320-85582-5

Date Collected: 03/08/22 06:42

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.29	0.29	ug/m3			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1772

Lab Sample ID: 320-85582-6

Date Collected: 03/08/22 06:42

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.8834		0.3104	0.3104	ug/m3 (Air)			03/16/22 07:40	1

Client Sample ID: GILBANEPM020122-1773

Lab Sample ID: 320-85582-7

Date Collected: 03/08/22 06:27

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0040		0.00070	0.00010	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:07	1
Copper	0.14		0.0014	0.00010	ug/m3 (Air)		03/21/22 07:00	03/24/22 02:42	1
Manganese	0.0077	B	0.00070	0.000098	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.29	0.29	ug/m3			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1773

Lab Sample ID: 320-85582-8

Date Collected: 03/08/22 06:27

Matrix: Air

Date Received: 03/09/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.4247		0.2896	0.2896	ug/m3 (Air)			03/16/22 07:40	1

QC Sample Results

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

Job ID: 320-85582-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-574544/1-B
Matrix: Air
Analysis Batch: 575379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		03/21/22 07:00	03/23/22 17:32	1
Manganese	0.000283	J	0.0012	0.00017	ug/m3 (Air)		03/21/22 07:00	03/23/22 17:32	1

Lab Sample ID: MB 320-574544/1-B
Matrix: Air
Analysis Batch: 575419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		03/21/22 07:00	03/24/22 01:59	1

Lab Sample ID: LCS 320-574544/2-B
Matrix: Air
Analysis Batch: 575379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.245		ug/m3 (Air)		102	86 - 111
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110

Lab Sample ID: LCS 320-574544/2-B
Matrix: Air
Analysis Batch: 575419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.231		ug/m3 (Air)		96	85 - 110

Lab Sample ID: LCSD 320-574544/3-B
Matrix: Air
Analysis Batch: 575379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.249		ug/m3 (Air)		104	86 - 111	2	15
Manganese	0.240	0.234		ug/m3 (Air)		98	88 - 110	2	15

Lab Sample ID: LCSD 320-574544/3-B
Matrix: Air
Analysis Batch: 575419

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	0.240	0.227		ug/m3 (Air)		95	85 - 110	2	15

QC Association Summary

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

Job ID: 320-85582-1

Metals

Pre Prep Batch: 574544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-1	GILBANEPM020122-1770	Total/NA	Air	Filter to Air	
320-85582-3	GILBANEPM020122-1771	Total/NA	Air	Filter to Air	
320-85582-5	GILBANEPM020122-1772	Total/NA	Air	Filter to Air	
320-85582-7	GILBANEPM020122-1773	Total/NA	Air	Filter to Air	
MB 320-574544/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 574562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-1	GILBANEPM020122-1770	Total/NA	Air	3050B	574544
320-85582-3	GILBANEPM020122-1771	Total/NA	Air	3050B	574544
320-85582-5	GILBANEPM020122-1772	Total/NA	Air	3050B	574544
320-85582-7	GILBANEPM020122-1773	Total/NA	Air	3050B	574544
MB 320-574544/1-B	Method Blank	Total/NA	Air	3050B	574544
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	3050B	574544
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	574544

Analysis Batch: 575379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-1	GILBANEPM020122-1770	Total/NA	Air	6020	574562
320-85582-3	GILBANEPM020122-1771	Total/NA	Air	6020	574562
320-85582-5	GILBANEPM020122-1772	Total/NA	Air	6020	574562
320-85582-7	GILBANEPM020122-1773	Total/NA	Air	6020	574562
MB 320-574544/1-B	Method Blank	Total/NA	Air	6020	574562
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	6020	574562
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	6020	574562

Analysis Batch: 575419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-1	GILBANEPM020122-1770	Total/NA	Air	6020	574562
320-85582-3	GILBANEPM020122-1771	Total/NA	Air	6020	574562
320-85582-5	GILBANEPM020122-1772	Total/NA	Air	6020	574562
320-85582-7	GILBANEPM020122-1773	Total/NA	Air	6020	574562
MB 320-574544/1-B	Method Blank	Total/NA	Air	6020	574562
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	6020	574562
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	6020	574562

General Chemistry

Pre Prep Batch: 571947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-2	GILBANETSP020122-1770	Total/NA	Air	Filter to Air	
320-85582-4	GILBANETSP020122-1771	Total/NA	Air	Filter to Air	
320-85582-6	GILBANETSP020122-1772	Total/NA	Air	Filter to Air	
320-85582-8	GILBANETSP020122-1773	Total/NA	Air	Filter to Air	

Analysis Batch: 575536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-1	GILBANEPM020122-1770	Total/NA	Air	PM10	
320-85582-3	GILBANEPM020122-1771	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: 320-85582-1

General Chemistry (Continued)

Analysis Batch: 575536 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-5	GILBANEPM020122-1772	Total/NA	Air	PM10	
320-85582-7	GILBANEPM020122-1773	Total/NA	Air	PM10	

Analysis Batch: 575537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85582-2	GILBANETSP020122-1770	Total/NA	Air	40CFR50 App B	571947
320-85582-4	GILBANETSP020122-1771	Total/NA	Air	40CFR50 App B	571947
320-85582-6	GILBANETSP020122-1772	Total/NA	Air	40CFR50 App B	571947
320-85582-8	GILBANETSP020122-1773	Total/NA	Air	40CFR50 App B	571947

Lab Chronicle

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

Job ID: 320-85582-1

Client Sample ID: GILBANEPM020122-1770

Lab Sample ID: 320-85582-1

Date Collected: 03/03/22 11:01

Matrix: Air

Date Received: 03/09/22 09:55

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 18:51	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 02:26	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0049 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1770

Lab Sample ID: 320-85582-2

Date Collected: 03/03/22 11:01

Matrix: Air

Date Received: 03/09/22 09:55

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					571947	03/10/22 16:04	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			575537	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1771

Lab Sample ID: 320-85582-3

Date Collected: 03/03/22 11:11

Matrix: Air

Date Received: 03/09/22 09:55

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 19:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 02:35	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0041 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1771

Lab Sample ID: 320-85582-4

Date Collected: 03/03/22 11:11

Matrix: Air

Date Received: 03/09/22 09:55

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					571947	03/10/22 16:04	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			575537	03/16/22 07:40	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85582-1

Client Sample ID: GILBANEPM020122-1772

Lab Sample ID: 320-85582-5

Date Collected: 03/08/22 06:42

Matrix: Air

Date Received: 03/09/22 09:55

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 19:04	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 02:39	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0340 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1772

Lab Sample ID: 320-85582-6

Date Collected: 03/08/22 06:42

Matrix: Air

Date Received: 03/09/22 09:55

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					571947	03/10/22 16:04	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			575537	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1773

Lab Sample ID: 320-85582-7

Date Collected: 03/08/22 06:27

Matrix: Air

Date Received: 03/09/22 09:55

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 19:07	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 02:42	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0332 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1773

Lab Sample ID: 320-85582-8

Date Collected: 03/08/22 06:27

Matrix: Air

Date Received: 03/09/22 09:55

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					571947	03/10/22 16:04	DPM	TAL SAC
Total/NA	Analysis	40CFR50 App B		1			575537	03/16/22 07:40	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: 320-85582-1

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
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Method Summary

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

Job ID: 320-85582-1

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: 320-85582-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85582-1	GILBANEPM020122-1770	Air	03/03/22 11:01	03/09/22 09:55
320-85582-2	GILBANETSP020122-1770	Air	03/03/22 11:01	03/09/22 09:55
320-85582-3	GILBANEPM020122-1771	Air	03/03/22 11:11	03/09/22 09:55
320-85582-4	GILBANETSP020122-1771	Air	03/03/22 11:11	03/09/22 09:55
320-85582-5	GILBANEPM020122-1772	Air	03/08/22 06:42	03/09/22 09:55
320-85582-6	GILBANETSP020122-1772	Air	03/08/22 06:42	03/09/22 09:55
320-85582-7	GILBANEPM020122-1773	Air	03/08/22 06:27	03/09/22 09:55
320-85582-8	GILBANETSP020122-1773	Air	03/08/22 06:27	03/09/22 09:55

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT030822AIR



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 March 2022

Comments:

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 March 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	03/03/2022	1101	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 565.38 (M3)
2	A	03/03/2022	1101	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 536.55 (M3)
3	A	03/03/2022	1111	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 596.13 (M3)
4	A	03/03/2022	1111	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 595.17 (M3)
5	A	03/08/2022	0642	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1699.49 (M3)
6	A	03/08/2022	0642	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1610.66 (M3)
7	A	03/08/2022	0627	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1716.85 (M3)
8	A	03/08/2022	0627	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1726.67 (M3)

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/8/22	1600	Fedex	3/8/22	1600	Shipping Date: 3/8/2022 FedEx 7762 0898 8676
[Redacted]			[Redacted]	3/8/22	9:55	Received by Laboratory: (Signature, Date, Time) & condition

Gilbane Navy_COC_Field
March 08, 2022

137c

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Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85582-1

Login Number: 85582

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: 320-85691-1
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:
3/24/2022 2:20:12 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: 320-85691-1

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: 320-85691-1

Job ID: 320-85691-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85691-1

Comments

No additional comments.

Receipt

The samples were received on 3/11/2022 9:50 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 15.6° 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: 320-85691-1

Client Sample ID: GILBANEPM020122-1774

Lab Sample ID: 320-85691-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0036		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.067		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0076	B	0.00070	0.000098	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: GILBANETSP020122-1774

Lab Sample ID: 320-85691-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	41.4077		0.3031	0.3031	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1775

Lab Sample ID: 320-85691-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.23		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0078	B	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1775

Lab Sample ID: 320-85691-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.6190		0.2857	0.2857	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1776

Lab Sample ID: 320-85691-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0038		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0077	B	0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1776

Lab Sample ID: 320-85691-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	46.9703		0.2999	0.2999	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1777

Lab Sample ID: 320-85691-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0045		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014	B	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: GILBANETSP020122-1777

Lab Sample ID: 320-85691-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	66.8706		0.2838	0.2838	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: 320-85691-1

Client Sample ID: GILBANEPM020122-1774

Lab Sample ID: 320-85691-1

Date Collected: 03/09/22 06:40

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0036		0.00070	0.00010	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:10	1
Copper	0.067		0.0014	0.00010	ug/m3 (Air)		03/21/22 07:00	03/24/22 02:52	1
Manganese	0.0076	B	0.00070	0.000098	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:10	1

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			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1774

Lab Sample ID: 320-85691-2

Date Collected: 03/09/22 06:40

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	41.4077		0.3031	0.3031	ug/m3 (Air)			03/16/22 07:40	1

Client Sample ID: GILBANEPM020122-1775

Lab Sample ID: 320-85691-3

Date Collected: 03/09/22 06:25

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:13	1
Copper	0.23		0.0014	0.00010	ug/m3 (Air)		03/21/22 07:00	03/24/22 02:55	1
Manganese	0.0078	B	0.00069	0.000097	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	32		0.29	0.29	ug/m3			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1775

Lab Sample ID: 320-85691-4

Date Collected: 03/09/22 06:25

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.6190		0.2857	0.2857	ug/m3 (Air)			03/16/22 07:40	1

Client Sample ID: GILBANEPM020122-1776

Lab Sample ID: 320-85691-5

Date Collected: 03/10/22 06:49

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0038		0.00069	0.00010	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:17	1
Copper	0.11		0.0014	0.00010	ug/m3 (Air)		03/21/22 07:00	03/24/22 02:58	1
Manganese	0.0077	B	0.00069	0.000097	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:17	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85691-1

Client Sample ID: GILBANEPM020122-1776

Lab Sample ID: 320-85691-5

Date Collected: 03/10/22 06:49

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.29	0.29	ug/m3			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1776

Lab Sample ID: 320-85691-6

Date Collected: 03/10/22 06:49

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	46.9703		0.2999	0.2999	ug/m3 (Air)			03/16/22 07:40	1

Client Sample ID: GILBANEPM020122-1777

Lab Sample ID: 320-85691-7

Date Collected: 03/10/22 06:35

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0045		0.00069	0.00010	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:20	1
Copper	0.12		0.0014	0.00010	ug/m3 (Air)		03/21/22 07:00	03/24/22 03:01	1
Manganese	0.014	B	0.00069	0.000096	ug/m3 (Air)		03/21/22 07:00	03/23/22 19:20	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			03/16/22 07:40	1

Client Sample ID: GILBANETSP020122-1777

Lab Sample ID: 320-85691-8

Date Collected: 03/10/22 06:35

Matrix: Air

Date Received: 03/11/22 09:50

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	66.8706		0.2838	0.2838	ug/m3 (Air)			03/16/22 07:40	1

QC Sample Results

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

Job ID: 320-85691-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-574544/1-B
Matrix: Air
Analysis Batch: 575379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		03/21/22 07:00	03/23/22 17:32	1
Manganese	0.000283	J	0.0012	0.00017	ug/m3 (Air)		03/21/22 07:00	03/23/22 17:32	1

Lab Sample ID: MB 320-574544/1-B
Matrix: Air
Analysis Batch: 575419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 574562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.0024	0.00018	ug/m3 (Air)		03/21/22 07:00	03/24/22 01:59	1

Lab Sample ID: LCS 320-574544/2-B
Matrix: Air
Analysis Batch: 575379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.245		ug/m3 (Air)		102	86 - 111
Manganese	0.240	0.239		ug/m3 (Air)		100	88 - 110

Lab Sample ID: LCS 320-574544/2-B
Matrix: Air
Analysis Batch: 575419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.240	0.231		ug/m3 (Air)		96	85 - 110

Lab Sample ID: LCSD 320-574544/3-B
Matrix: Air
Analysis Batch: 575379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.249		ug/m3 (Air)		104	86 - 111	2	15
Manganese	0.240	0.234		ug/m3 (Air)		98	88 - 110	2	15

Lab Sample ID: LCSD 320-574544/3-B
Matrix: Air
Analysis Batch: 575419

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 574562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	0.240	0.227		ug/m3 (Air)		95	85 - 110	2	15

QC Association Summary

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

Job ID: 320-85691-1

Metals

Pre Prep Batch: 574544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-1	GILBANEPM020122-1774	Total/NA	Air	Filter to Air	
320-85691-3	GILBANEPM020122-1775	Total/NA	Air	Filter to Air	
320-85691-5	GILBANEPM020122-1776	Total/NA	Air	Filter to Air	
320-85691-7	GILBANEPM020122-1777	Total/NA	Air	Filter to Air	
MB 320-574544/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 574562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-1	GILBANEPM020122-1774	Total/NA	Air	3050B	574544
320-85691-3	GILBANEPM020122-1775	Total/NA	Air	3050B	574544
320-85691-5	GILBANEPM020122-1776	Total/NA	Air	3050B	574544
320-85691-7	GILBANEPM020122-1777	Total/NA	Air	3050B	574544
MB 320-574544/1-B	Method Blank	Total/NA	Air	3050B	574544
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	3050B	574544
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	574544

Analysis Batch: 575379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-1	GILBANEPM020122-1774	Total/NA	Air	6020	574562
320-85691-3	GILBANEPM020122-1775	Total/NA	Air	6020	574562
320-85691-5	GILBANEPM020122-1776	Total/NA	Air	6020	574562
320-85691-7	GILBANEPM020122-1777	Total/NA	Air	6020	574562
MB 320-574544/1-B	Method Blank	Total/NA	Air	6020	574562
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	6020	574562
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	6020	574562

Analysis Batch: 575419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-1	GILBANEPM020122-1774	Total/NA	Air	6020	574562
320-85691-3	GILBANEPM020122-1775	Total/NA	Air	6020	574562
320-85691-5	GILBANEPM020122-1776	Total/NA	Air	6020	574562
320-85691-7	GILBANEPM020122-1777	Total/NA	Air	6020	574562
MB 320-574544/1-B	Method Blank	Total/NA	Air	6020	574562
LCS 320-574544/2-B	Lab Control Sample	Total/NA	Air	6020	574562
LCSD 320-574544/3-B	Lab Control Sample Dup	Total/NA	Air	6020	574562

General Chemistry

Pre Prep Batch: 573869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-2	GILBANETSP020122-1774	Total/NA	Air	Filter to Air	
320-85691-4	GILBANETSP020122-1775	Total/NA	Air	Filter to Air	
320-85691-6	GILBANETSP020122-1776	Total/NA	Air	Filter to Air	
320-85691-8	GILBANETSP020122-1777	Total/NA	Air	Filter to Air	

Analysis Batch: 575536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-1	GILBANEPM020122-1774	Total/NA	Air	PM10	
320-85691-3	GILBANEPM020122-1775	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-85691-1

General Chemistry (Continued)

Analysis Batch: 575536 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-5	GILBANEPM020122-1776	Total/NA	Air	PM10	
320-85691-7	GILBANEPM020122-1777	Total/NA	Air	PM10	

Analysis Batch: 575537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85691-2	GILBANETSP020122-1774	Total/NA	Air	40CFR50 App B	573869
320-85691-4	GILBANETSP020122-1775	Total/NA	Air	40CFR50 App B	573869
320-85691-6	GILBANETSP020122-1776	Total/NA	Air	40CFR50 App B	573869
320-85691-8	GILBANETSP020122-1777	Total/NA	Air	40CFR50 App B	573869

Lab Chronicle

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

Job ID: 320-85691-1

Client Sample ID: GILBANEPM020122-1774

Lab Sample ID: 320-85691-1

Date Collected: 03/09/22 06:40

Matrix: Air

Date Received: 03/11/22 09:50

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 19:10	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 02:52	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0478 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1774

Lab Sample ID: 320-85691-2

Date Collected: 03/09/22 06:40

Matrix: Air

Date Received: 03/11/22 09:50

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			575537	03/16/22 07:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					573869	03/18/22 09:03	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1775

Lab Sample ID: 320-85691-3

Date Collected: 03/09/22 06:25

Matrix: Air

Date Received: 03/11/22 09:50

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 19:13	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 02:55	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0564 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1775

Lab Sample ID: 320-85691-4

Date Collected: 03/09/22 06:25

Matrix: Air

Date Received: 03/11/22 09:50

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			575537	03/16/22 07:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					573869	03/18/22 09:03	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85691-1

Client Sample ID: GILBANEPM020122-1776

Lab Sample ID: 320-85691-5

Date Collected: 03/10/22 06:49

Matrix: Air

Date Received: 03/11/22 09:50

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 19:17	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 02:58	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0576 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1776

Lab Sample ID: 320-85691-6

Date Collected: 03/10/22 06:49

Matrix: Air

Date Received: 03/11/22 09:50

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			575537	03/16/22 07:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					573869	03/18/22 09:03	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1777

Lab Sample ID: 320-85691-7

Date Collected: 03/10/22 06:35

Matrix: Air

Date Received: 03/11/22 09:50

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					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575379	03/23/22 19:20	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					574544	03/21/22 06:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	574562	03/21/22 07:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			575419	03/24/22 03:01	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0678 g	575536	03/16/22 07:40	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1777

Lab Sample ID: 320-85691-8

Date Collected: 03/10/22 06:35

Matrix: Air

Date Received: 03/11/22 09:50

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			575537	03/16/22 07:40	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					573869	03/18/22 09:03	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: 320-85691-1

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
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- 13
- 14

Method Summary

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

Job ID: 320-85691-1

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: 320-85691-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85691-1	GILBANEPM020122-1774	Air	03/09/22 06:40	03/11/22 09:50
320-85691-2	GILBANETSP020122-1774	Air	03/09/22 06:40	03/11/22 09:50
320-85691-3	GILBANEPM020122-1775	Air	03/09/22 06:25	03/11/22 09:50
320-85691-4	GILBANETSP020122-1775	Air	03/09/22 06:25	03/11/22 09:50
320-85691-5	GILBANEPM020122-1776	Air	03/10/22 06:49	03/11/22 09:50
320-85691-6	GILBANETSP020122-1776	Air	03/10/22 06:49	03/11/22 09:50
320-85691-7	GILBANEPM020122-1777	Air	03/10/22 06:35	03/11/22 09:50
320-85691-8	GILBANETSP020122-1777	Air	03/10/22 06:35	03/11/22 09:50

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT031022AIR



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

Comments:

Equipment:

Analytical Test Method

CAAIR - Air PM10
 N0500 - Air TSP
 SW6020 - Air Pb Mn Cu

Code	Matrix
A	Air

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

320-85691 Chain of Custody

Sample ID	Matrix	Date	Time	Samp Init.	Samp	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
								Top	Bottom		
1	A	03/09/2022	0640	KT	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1721.94 (M3)
2	A	03/09/2022	0640	KT	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1649.45 (M3)
3	A	03/09/2022	0625	KT	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1737.29 (M3)
4	A	03/09/2022	0625	KT	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1750.36 (M3)
5	A	03/10/2022	0649	KT	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1737.06 (M3)
6	A	03/10/2022	0649	KT	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1667.01 (M3)
7	A	03/10/2022	0635	KT	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1748.83 (M3)
8	A	03/10/2022	0635	KT	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1761.61 (M3)
9				TP							
10											

Turnaround Time: NA

Received by: (Signature) [Redacted] Date: 3/10/22 Time: 1600

Received by: (Signature) [Redacted] Date: 3/10/22 Time: 1600

Shipping Date / Carrier / Airbill Number: 3/10/22 Fedex 7762 0906 3620

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

15.6°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85691-1

Login Number: 85691

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: 320-85810-1
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:
3/29/2022 9:05:30 AM

[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: 320-85810-1

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: 320-85810-1

Job ID: 320-85810-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85810-1

Comments

No additional comments.

Receipt

The samples were received on 3/16/2022 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.8° 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: 320-85810-1

Client Sample ID: GILBANEPM020122-1778

Lab Sample ID: 320-85810-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0077		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.31		0.0043	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.022		0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.91	0.91	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1778

Lab Sample ID: 320-85810-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	37.7566		0.9487	0.9487	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1779

Lab Sample ID: 320-85810-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.060		0.0042	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0060		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.5		0.88	0.88	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1779

Lab Sample ID: 320-85810-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	14.9563		0.8696	0.8696	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1780

Lab Sample ID: 320-85810-5

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	0.28		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	34		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1780

Lab Sample ID: 320-85810-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.4014		0.3086	0.3086	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1781

Lab Sample ID: 320-85810-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0022		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.074		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0055		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	29		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1781

Lab Sample ID: 320-85810-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	34.3159		0.2869	0.2869	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: 320-85810-1

Client Sample ID: GILBANEPM020122-1778

Lab Sample ID: 320-85810-1

Date Collected: 03/10/22 14:42

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0077		0.0022	0.00033	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:01	1
Copper	0.31		0.0043	0.00033	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:01	1
Manganese	0.022		0.0022	0.00030	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:01	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.91	0.91	ug/m3			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1778

Lab Sample ID: 320-85810-2

Date Collected: 03/10/22 14:42

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	37.7566		0.9487	0.9487	ug/m3 (Air)			03/22/22 14:30	1

Client Sample ID: GILBANEPM020122-1779

Lab Sample ID: 320-85810-3

Date Collected: 03/10/22 14:44

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.0021	0.00032	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:16	1
Copper	0.060		0.0042	0.00032	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:16	1
Manganese	0.0060		0.0021	0.00029	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:16	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	7.5		0.88	0.88	ug/m3			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1779

Lab Sample ID: 320-85810-4

Date Collected: 03/10/22 14:44

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	14.9563		0.8696	0.8696	ug/m3 (Air)			03/22/22 14:30	1

Client Sample ID: GILBANEPM020122-1780

Lab Sample ID: 320-85810-5

Date Collected: 03/15/22 02:53

Matrix: Air

Date Received: 03/16/22 10:15

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)		03/25/22 06:00	03/27/22 14:19	1
Copper	0.28		0.0014	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:19	1
Manganese	0.012		0.00069	0.000097	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:19	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85810-1

Client Sample ID: GILBANEPM020122-1780

Lab Sample ID: 320-85810-5

Date Collected: 03/15/22 02:53

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		0.29	0.29	ug/m3			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1780

Lab Sample ID: 320-85810-6

Date Collected: 03/15/22 02:53

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.4014		0.3086	0.3086	ug/m3 (Air)			03/22/22 14:30	1

Client Sample ID: GILBANEPM020122-1781

Lab Sample ID: 320-85810-7

Date Collected: 03/15/22 02:41

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0022		0.00069	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:23	1
Copper	0.074		0.0014	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:23	1
Manganese	0.0055		0.00069	0.000097	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:23	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	29		0.29	0.29	ug/m3			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1781

Lab Sample ID: 320-85810-8

Date Collected: 03/15/22 02:41

Matrix: Air

Date Received: 03/16/22 10:15

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	34.3159		0.2869	0.2869	ug/m3 (Air)			03/22/22 14:30	1

QC Sample Results

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

Job ID: 320-85810-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-575698/1-B
Matrix: Air
Analysis Batch: 576108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		03/25/22 06:00	03/27/22 13:52	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		03/25/22 06:00	03/27/22 13:52	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		03/25/22 06:00	03/27/22 13:52	1

Lab Sample ID: LCS 320-575698/2-B
Matrix: Air
Analysis Batch: 576108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.230		ug/m3 (Air)		96	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-575698/3-B
Matrix: Air
Analysis Batch: 576108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 575699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.229		ug/m3 (Air)		95	86 - 111	4	15
Copper	0.240	0.226		ug/m3 (Air)		94	85 - 110	2	15
Manganese	0.240	0.233		ug/m3 (Air)		97	88 - 110	4	15

QC Association Summary

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

Job ID: 320-85810-1

Metals

Pre Prep Batch: 575698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85810-1	GILBANEPM020122-1778	Total/NA	Air	Filter to Air	
320-85810-3	GILBANEPM020122-1779	Total/NA	Air	Filter to Air	
320-85810-5	GILBANEPM020122-1780	Total/NA	Air	Filter to Air	
320-85810-7	GILBANEPM020122-1781	Total/NA	Air	Filter to Air	
MB 320-575698/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-575698/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-575698/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 575699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85810-1	GILBANEPM020122-1778	Total/NA	Air	3050B	575698
320-85810-3	GILBANEPM020122-1779	Total/NA	Air	3050B	575698
320-85810-5	GILBANEPM020122-1780	Total/NA	Air	3050B	575698
320-85810-7	GILBANEPM020122-1781	Total/NA	Air	3050B	575698
MB 320-575698/1-B	Method Blank	Total/NA	Air	3050B	575698
LCS 320-575698/2-B	Lab Control Sample	Total/NA	Air	3050B	575698
LCSD 320-575698/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	575698

Analysis Batch: 576108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85810-1	GILBANEPM020122-1778	Total/NA	Air	6020	575699
320-85810-3	GILBANEPM020122-1779	Total/NA	Air	6020	575699
320-85810-5	GILBANEPM020122-1780	Total/NA	Air	6020	575699
320-85810-7	GILBANEPM020122-1781	Total/NA	Air	6020	575699
MB 320-575698/1-B	Method Blank	Total/NA	Air	6020	575699
LCS 320-575698/2-B	Lab Control Sample	Total/NA	Air	6020	575699
LCSD 320-575698/3-B	Lab Control Sample Dup	Total/NA	Air	6020	575699

General Chemistry

Pre Prep Batch: 575523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85810-2	GILBANETSP020122-1778	Total/NA	Air	Filter to Air	
320-85810-4	GILBANETSP020122-1779	Total/NA	Air	Filter to Air	
320-85810-6	GILBANETSP020122-1780	Total/NA	Air	Filter to Air	
320-85810-8	GILBANETSP020122-1781	Total/NA	Air	Filter to Air	

Analysis Batch: 576285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85810-1	GILBANEPM020122-1778	Total/NA	Air	PM10	
320-85810-3	GILBANEPM020122-1779	Total/NA	Air	PM10	
320-85810-5	GILBANEPM020122-1780	Total/NA	Air	PM10	
320-85810-7	GILBANEPM020122-1781	Total/NA	Air	PM10	

Analysis Batch: 576291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85810-2	GILBANETSP020122-1778	Total/NA	Air	40CFR50 App B	575523
320-85810-4	GILBANETSP020122-1779	Total/NA	Air	40CFR50 App B	575523
320-85810-6	GILBANETSP020122-1780	Total/NA	Air	40CFR50 App B	575523
320-85810-8	GILBANETSP020122-1781	Total/NA	Air	40CFR50 App B	575523

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-85810-1

Client Sample ID: GILBANEPM020122-1778

Lab Sample ID: 320-85810-1

Date Collected: 03/10/22 14:42

Matrix: Air

Date Received: 03/16/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:01	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0125 g	576285	03/22/22 14:30	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1778

Lab Sample ID: 320-85810-2

Date Collected: 03/10/22 14:42

Matrix: Air

Date Received: 03/16/22 10:15

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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1779

Lab Sample ID: 320-85810-3

Date Collected: 03/10/22 14:44

Matrix: Air

Date Received: 03/16/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:16	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0043 g	576285	03/22/22 14:30	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1779

Lab Sample ID: 320-85810-4

Date Collected: 03/10/22 14:44

Matrix: Air

Date Received: 03/16/22 10:15

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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1780

Lab Sample ID: 320-85810-5

Date Collected: 03/15/22 02:53

Matrix: Air

Date Received: 03/16/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:19	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0583 g	576285	03/22/22 14:30	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85810-1

Client Sample ID: GILBANETSP020122-1780

Lab Sample ID: 320-85810-6

Date Collected: 03/15/22 02:53

Matrix: Air

Date Received: 03/16/22 10:15

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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1781

Lab Sample ID: 320-85810-7

Date Collected: 03/15/22 02:41

Matrix: Air

Date Received: 03/16/22 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:23	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0497 g	576285	03/22/22 14:30	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1781

Lab Sample ID: 320-85810-8

Date Collected: 03/15/22 02:41

Matrix: Air

Date Received: 03/16/22 10:15

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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	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: 320-85810-1

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: 320-85810-1

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: 320-85810-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85810-1	GILBANEPM020122-1778	Air	03/10/22 14:42	03/16/22 10:15
320-85810-2	GILBANETSP020122-1778	Air	03/10/22 14:42	03/16/22 10:15
320-85810-3	GILBANEPM020122-1779	Air	03/10/22 14:44	03/16/22 10:15
320-85810-4	GILBANETSP020122-1779	Air	03/10/22 14:44	03/16/22 10:15
320-85810-5	GILBANEPM020122-1780	Air	03/15/22 02:53	03/16/22 10:15
320-85810-6	GILBANETSP020122-1780	Air	03/15/22 02:53	03/16/22 10:15
320-85810-7	GILBANEPM020122-1781	Air	03/15/22 02:41	03/16/22 10:15
320-85810-8	GILBANETSP020122-1781	Air	03/15/22 02:41	03/16/22 10:15

- 1
- 2
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- 7
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- 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 # KT031522AIR



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 March 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 March 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	03/10/2022	1442	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 552.17 (M3)
2	A	03/10/2022	1442	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 527.06 (M3)
3	A	03/10/2022	1444	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 569.87 (M3)
4	A	03/10/2022	1444	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 575.01 (M3)
5	A	03/15/2022	0253	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1740.12 (M3)
6	A	03/15/2022	0253	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1620.30 (M3)
7	A	03/15/2022	0241	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1733.14 (M3)
8	A	03/15/2022	0241	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1742.63 (M3)
9				TP								
10												

Turnaround Time: 5 days

Dispatched by (Signature)	Date	Time	Received by (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/15/22	1200	Fedex	3/15/22	1200	Shipping Date: 3/15/2022 / FedEx 7762 9013 9592
[Redacted]			[Redacted]	3/16/22	1015	Received by Laboratory: (Signature, Date, Time) & condition

16.8



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85810-1

Login Number: 85810

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: 320-85952-1
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:
3/29/2022 9:05:53 AM

[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: 320-85952-1

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: 320-85952-1

Job ID: 320-85952-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-85952-1

Comments

No additional comments.

Receipt

The samples were received on 3/18/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.8° 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: 320-85952-1

Client Sample ID: GILBANEPM020122-1782

Lab Sample ID: 320-85952-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00079		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0021		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1782

Lab Sample ID: 320-85952-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.8770		0.2891	0.2891	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1783

Lab Sample ID: 320-85952-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0010		0.00067	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0013	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0019		0.00067	0.000094	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1783

Lab Sample ID: 320-85952-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	16.3955		0.2788	0.2788	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1784

Lab Sample ID: 320-85952-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.053		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0055		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	32		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1784

Lab Sample ID: 320-85952-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	39.7498		0.2984	0.2984	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1785

Lab Sample ID: 320-85952-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0024		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0039		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	99		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1785

Lab Sample ID: 320-85952-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	42.0378		0.2868	0.2868	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: 320-85952-1

Client Sample ID: GILBANEPM020122-1782

Lab Sample ID: 320-85952-1

Date Collected: 03/16/22 03:30

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00079		0.00067	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:26	1
Copper	0.029		0.0013	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:26	1
Manganese	0.0021		0.00067	0.000094	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.28	0.28	ug/m3			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1782

Lab Sample ID: 320-85952-2

Date Collected: 03/16/22 03:30

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.8770		0.2891	0.2891	ug/m3 (Air)			03/22/22 14:30	1

Client Sample ID: GILBANEPM020122-1783

Lab Sample ID: 320-85952-3

Date Collected: 03/16/22 03:19

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0010		0.00067	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:29	1
Copper	0.13		0.0013	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:29	1
Manganese	0.0019		0.00067	0.000094	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:29	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.28	0.28	ug/m3			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1783

Lab Sample ID: 320-85952-4

Date Collected: 03/16/22 03:19

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.3955		0.2788	0.2788	ug/m3 (Air)			03/22/22 14:30	1

Client Sample ID: GILBANEPM020122-1784

Lab Sample ID: 320-85952-5

Date Collected: 03/17/22 03:31

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:32	1
Copper	0.053		0.0014	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:32	1
Manganese	0.0055		0.00069	0.000097	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:32	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-85952-1

Client Sample ID: GILBANEPM020122-1784

Lab Sample ID: 320-85952-5

Date Collected: 03/17/22 03:31

Matrix: Air

Date Received: 03/18/22 21:20

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			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1784

Lab Sample ID: 320-85952-6

Date Collected: 03/17/22 03:31

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	39.7498		0.2984	0.2984	ug/m3 (Air)			03/22/22 14:30	1

Client Sample ID: GILBANEPM020122-1785

Lab Sample ID: 320-85952-7

Date Collected: 03/17/22 03:18

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024		0.00069	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:36	1
Copper	0.12		0.0014	0.00010	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:36	1
Manganese	0.0039		0.00069	0.000097	ug/m3 (Air)		03/25/22 06:00	03/27/22 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	99		0.29	0.29	ug/m3			03/22/22 14:30	1

Client Sample ID: GILBANETSP020122-1785

Lab Sample ID: 320-85952-8

Date Collected: 03/17/22 03:18

Matrix: Air

Date Received: 03/18/22 21:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	42.0378		0.2868	0.2868	ug/m3 (Air)			03/22/22 14:30	1

QC Sample Results

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

Job ID: 320-85952-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-575698/1-B
Matrix: Air
Analysis Batch: 576108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 575699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		03/25/22 06:00	03/27/22 13:52	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		03/25/22 06:00	03/27/22 13:52	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		03/25/22 06:00	03/27/22 13:52	1

Lab Sample ID: LCS 320-575698/2-B
Matrix: Air
Analysis Batch: 576108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 575699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.238		ug/m3 (Air)		99	86 - 111
Copper	0.240	0.230		ug/m3 (Air)		96	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-575698/3-B
Matrix: Air
Analysis Batch: 576108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 575699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.229		ug/m3 (Air)		95	86 - 111	4	15
Copper	0.240	0.226		ug/m3 (Air)		94	85 - 110	2	15
Manganese	0.240	0.233		ug/m3 (Air)		97	88 - 110	4	15

QC Association Summary

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

Job ID: 320-85952-1

Metals

Pre Prep Batch: 575698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85952-1	GILBANEPM020122-1782	Total/NA	Air	Filter to Air	
320-85952-3	GILBANEPM020122-1783	Total/NA	Air	Filter to Air	
320-85952-5	GILBANEPM020122-1784	Total/NA	Air	Filter to Air	
320-85952-7	GILBANEPM020122-1785	Total/NA	Air	Filter to Air	
MB 320-575698/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-575698/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-575698/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 575699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85952-1	GILBANEPM020122-1782	Total/NA	Air	3050B	575698
320-85952-3	GILBANEPM020122-1783	Total/NA	Air	3050B	575698
320-85952-5	GILBANEPM020122-1784	Total/NA	Air	3050B	575698
320-85952-7	GILBANEPM020122-1785	Total/NA	Air	3050B	575698
MB 320-575698/1-B	Method Blank	Total/NA	Air	3050B	575698
LCS 320-575698/2-B	Lab Control Sample	Total/NA	Air	3050B	575698
LCSD 320-575698/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	575698

Analysis Batch: 576108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85952-1	GILBANEPM020122-1782	Total/NA	Air	6020	575699
320-85952-3	GILBANEPM020122-1783	Total/NA	Air	6020	575699
320-85952-5	GILBANEPM020122-1784	Total/NA	Air	6020	575699
320-85952-7	GILBANEPM020122-1785	Total/NA	Air	6020	575699
MB 320-575698/1-B	Method Blank	Total/NA	Air	6020	575699
LCS 320-575698/2-B	Lab Control Sample	Total/NA	Air	6020	575699
LCSD 320-575698/3-B	Lab Control Sample Dup	Total/NA	Air	6020	575699

General Chemistry

Pre Prep Batch: 575523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85952-2	GILBANETSP020122-1782	Total/NA	Air	Filter to Air	
320-85952-4	GILBANETSP020122-1783	Total/NA	Air	Filter to Air	
320-85952-6	GILBANETSP020122-1784	Total/NA	Air	Filter to Air	
320-85952-8	GILBANETSP020122-1785	Total/NA	Air	Filter to Air	

Analysis Batch: 576285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85952-1	GILBANEPM020122-1782	Total/NA	Air	PM10	
320-85952-3	GILBANEPM020122-1783	Total/NA	Air	PM10	
320-85952-5	GILBANEPM020122-1784	Total/NA	Air	PM10	
320-85952-7	GILBANEPM020122-1785	Total/NA	Air	PM10	

Analysis Batch: 576291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-85952-2	GILBANETSP020122-1782	Total/NA	Air	40CFR50 App B	575523
320-85952-4	GILBANETSP020122-1783	Total/NA	Air	40CFR50 App B	575523
320-85952-6	GILBANETSP020122-1784	Total/NA	Air	40CFR50 App B	575523
320-85952-8	GILBANETSP020122-1785	Total/NA	Air	40CFR50 App B	575523

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-85952-1

Client Sample ID: GILBANEPM020122-1782

Lab Sample ID: 320-85952-1

Date Collected: 03/16/22 03:30

Matrix: Air

Date Received: 03/18/22 21:20

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					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:26	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0203 g	576285	03/22/22 14:30	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1782

Lab Sample ID: 320-85952-2

Date Collected: 03/16/22 03:30

Matrix: Air

Date Received: 03/18/22 21:20

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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1783

Lab Sample ID: 320-85952-3

Date Collected: 03/16/22 03:19

Matrix: Air

Date Received: 03/18/22 21:20

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					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:29	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0200 g	576285	03/22/22 14:30	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1783

Lab Sample ID: 320-85952-4

Date Collected: 03/16/22 03:19

Matrix: Air

Date Received: 03/18/22 21:20

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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1784

Lab Sample ID: 320-85952-5

Date Collected: 03/17/22 03:31

Matrix: Air

Date Received: 03/18/22 21:20

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					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:32	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0550 g	576285	03/22/22 14:30	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-85952-1

Client Sample ID: GILBANETSP020122-1784
Date Collected: 03/17/22 03:31
Date Received: 03/18/22 21:20

Lab Sample ID: 320-85952-6
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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1785
Date Collected: 03/17/22 03:18
Date Received: 03/18/22 21:20

Lab Sample ID: 320-85952-7
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					575698	03/25/22 04:50	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	575699	03/25/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			576108	03/27/22 14:36	JMD	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.1706 g	576285	03/22/22 14:30	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1785
Date Collected: 03/17/22 03:18
Date Received: 03/18/22 21:20

Lab Sample ID: 320-85952-8
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			576291	03/22/22 14:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					575523	03/24/22 12:08	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: 320-85952-1

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: 320-85952-1

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: 320-85952-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-85952-1	GILBANEPM020122-1782	Air	03/16/22 03:30	03/18/22 21:20
320-85952-2	GILBANETSP020122-1782	Air	03/16/22 03:30	03/18/22 21:20
320-85952-3	GILBANEPM020122-1783	Air	03/16/22 03:19	03/18/22 21:20
320-85952-4	GILBANETSP020122-1783	Air	03/16/22 03:19	03/18/22 21:20
320-85952-5	GILBANEPM020122-1784	Air	03/17/22 03:31	03/18/22 21:20
320-85952-6	GILBANETSP020122-1784	Air	03/17/22 03:31	03/18/22 21:20
320-85952-7	GILBANEPM020122-1785	Air	03/17/22 03:18	03/18/22 21:20
320-85952-8	GILBANETSP020122-1785	Air	03/17/22 03:18	03/18/22 21:20

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT031722AIR



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 March 2022

Comments:

Equipment: 320-85952 Chain of Custody

Analytical Test Method: CAIR - Air PM10, N0500 - Air TSP, SW6020 - Air Pb Mn Cu

Code	Matrix
A	Air

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

Event: Parcel E Phase 2 Air Monitoring March 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	GILBANEPM020122-1782	03/16/2022	0330	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1795.06 (M3)
2	GILBANETSP020122-1782	03/16/2022	0330	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1729.48 (M3)
3	GILBANEPM020122-1783	03/16/2022	0319	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1779.48 (M3)
4	GILBANETSP020122-1783	03/16/2022	0319	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1793.17 (M3)
5	GILBANEPM020122-1784	03/17/2022	0331	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1739.97 (M3)
6	GILBANETSP020122-1784	03/17/2022	0331	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1675.48 (M3)
7	GILBANEPM020122-1785	03/17/2022	0318	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1731.56 (M3)
8	GILBANETSP020122-1785	03/17/2022	0318	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1743.67 (M3)
9			TP									
10												

Turnaround Time: 5 days

Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/17/22	1200	Shipping Date: 3/17/2022 / FedEx 7763 1387 9556
[Redacted]	3/18/22	0935	
[Redacted]			
Received by Laboratory: (Signature, Date, Time) & condition			

Gilbane Navy, COC_Field
March 17, 2022

18, 8°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-85952-1

Login Number: 85952

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: 320-86035-1
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:
4/5/2022 9:06:38 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: 320-86035-1

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: 320-86035-1

Job ID: 320-86035-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-86035-1

Comments

No additional comments.

Receipt

The samples were received on 3/23/2022 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 21.5° 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: 320-86035-1

Client Sample ID: GILBANEPM020122-1786

Lab Sample ID: 320-86035-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00081	J	0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.027		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0024		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.95	0.95	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1786

Lab Sample ID: 320-86035-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	25.7064		0.9887	0.9887	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM020122-1787

Lab Sample ID: 320-86035-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00082	J	0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.17		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0023		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.91	0.91	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP020122-1787

Lab Sample ID: 320-86035-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.7968		0.9029	0.9029	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1788

Lab Sample ID: 320-86035-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.11		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.016		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	31		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1788

Lab Sample ID: 320-86035-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	56.0879		0.3019	0.3019	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1789

Lab Sample ID: 320-86035-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0069		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.24		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.019		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	55		0.30	0.30	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1789

Lab Sample ID: 320-86035-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	65.5681		0.2886	0.2886	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-86035-1

Client Sample ID: GILBANEPM020122-1786

Lab Sample ID: 320-86035-1

Date Collected: 03/17/22 10:58

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00081	J	0.0023	0.00034	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:58	1
Copper	0.027		0.0045	0.00034	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:58	1
Manganese	0.0024		0.0023	0.00032	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.95	0.95	ug/m3			03/29/22 12:00	1

Client Sample ID: GILBANETSP020122-1786

Lab Sample ID: 320-86035-2

Date Collected: 03/17/22 10:58

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.7064		0.9887	0.9887	ug/m3 (Air)			03/29/22 12:00	1

Client Sample ID: GILBANEPM020122-1787

Lab Sample ID: 320-86035-3

Date Collected: 03/17/22 11:07

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00082	J	0.0022	0.00033	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:02	1
Copper	0.17		0.0044	0.00033	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:02	1
Manganese	0.0023		0.0022	0.00031	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.91	0.91	ug/m3			03/29/22 12:00	1

Client Sample ID: GILBANETSP020122-1787

Lab Sample ID: 320-86035-4

Date Collected: 03/17/22 11:07

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.7968		0.9029	0.9029	ug/m3 (Air)			03/29/22 12:00	1

Client Sample ID: GILBANEPM021522-1788

Lab Sample ID: 320-86035-5

Date Collected: 03/22/22 06:55

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.00070	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:05	1
Copper	0.11		0.0014	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:05	1
Manganese	0.016		0.00070	0.000097	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:05	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-86035-1

Client Sample ID: GILBANEPM021522-1788

Lab Sample ID: 320-86035-5

Date Collected: 03/22/22 06:55

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			03/29/22 12:00	1

Client Sample ID: GILBANETSP021522-1788

Lab Sample ID: 320-86035-6

Date Collected: 03/22/22 06:55

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	56.0879		0.3019	0.3019	ug/m3 (Air)			03/29/22 12:00	1

Client Sample ID: GILBANEPM021522-1789

Lab Sample ID: 320-86035-7

Date Collected: 03/22/22 06:41

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0069		0.00071	0.00011	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:15	1
Copper	0.24		0.0014	0.00011	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:15	1
Manganese	0.019		0.00071	0.000099	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	55		0.30	0.30	ug/m3			03/29/22 12:00	1

Client Sample ID: GILBANETSP021522-1789

Lab Sample ID: 320-86035-8

Date Collected: 03/22/22 06:41

Matrix: Air

Date Received: 03/23/22 09:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	65.5681		0.2886	0.2886	ug/m3 (Air)			03/29/22 12:00	1

QC Sample Results

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

Job ID: 320-86035-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-577113/1-B
Matrix: Air
Analysis Batch: 577358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:17	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:17	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:17	1

Lab Sample ID: LCS 320-577113/2-B
Matrix: Air
Analysis Batch: 577358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.234		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.234		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-577113/3-B
Matrix: Air
Analysis Batch: 577358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 577122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.227		ug/m3 (Air)		95	86 - 111	3	15
Copper	0.240	0.238		ug/m3 (Air)		99	85 - 110	2	15
Manganese	0.240	0.251		ug/m3 (Air)		104	88 - 110	3	15

QC Association Summary

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

Job ID: 320-86035-1

Metals

Pre Prep Batch: 577113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86035-1	GILBANEPM020122-1786	Total/NA	Air	Filter to Air	
320-86035-3	GILBANEPM020122-1787	Total/NA	Air	Filter to Air	
320-86035-5	GILBANEPM021522-1788	Total/NA	Air	Filter to Air	
320-86035-7	GILBANEPM021522-1789	Total/NA	Air	Filter to Air	
MB 320-577113/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-577113/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-577113/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 577122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86035-1	GILBANEPM020122-1786	Total/NA	Air	3050B	577113
320-86035-3	GILBANEPM020122-1787	Total/NA	Air	3050B	577113
320-86035-5	GILBANEPM021522-1788	Total/NA	Air	3050B	577113
320-86035-7	GILBANEPM021522-1789	Total/NA	Air	3050B	577113
MB 320-577113/1-B	Method Blank	Total/NA	Air	3050B	577113
LCS 320-577113/2-B	Lab Control Sample	Total/NA	Air	3050B	577113
LCSD 320-577113/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	577113

Analysis Batch: 577358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86035-1	GILBANEPM020122-1786	Total/NA	Air	6020	577122
320-86035-3	GILBANEPM020122-1787	Total/NA	Air	6020	577122
320-86035-5	GILBANEPM021522-1788	Total/NA	Air	6020	577122
320-86035-7	GILBANEPM021522-1789	Total/NA	Air	6020	577122
MB 320-577113/1-B	Method Blank	Total/NA	Air	6020	577122
LCS 320-577113/2-B	Lab Control Sample	Total/NA	Air	6020	577122
LCSD 320-577113/3-B	Lab Control Sample Dup	Total/NA	Air	6020	577122

General Chemistry

Pre Prep Batch: 577768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86035-2	GILBANETSP020122-1786	Total/NA	Air	Filter to Air	
320-86035-4	GILBANETSP020122-1787	Total/NA	Air	Filter to Air	
320-86035-6	GILBANETSP021522-1788	Total/NA	Air	Filter to Air	
320-86035-8	GILBANETSP021522-1789	Total/NA	Air	Filter to Air	

Analysis Batch: 577805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86035-2	GILBANETSP020122-1786	Total/NA	Air	40CFR50 App B	577768
320-86035-4	GILBANETSP020122-1787	Total/NA	Air	40CFR50 App B	577768
320-86035-6	GILBANETSP021522-1788	Total/NA	Air	40CFR50 App B	577768
320-86035-8	GILBANETSP021522-1789	Total/NA	Air	40CFR50 App B	577768

Analysis Batch: 577806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86035-1	GILBANEPM020122-1786	Total/NA	Air	PM10	
320-86035-3	GILBANEPM020122-1787	Total/NA	Air	PM10	
320-86035-5	GILBANEPM021522-1788	Total/NA	Air	PM10	
320-86035-7	GILBANEPM021522-1789	Total/NA	Air	PM10	

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-86035-1

Client Sample ID: GILBANEPM020122-1786

Lab Sample ID: 320-86035-1

Date Collected: 03/17/22 10:58

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 12:58	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0116 g	577806	03/29/22 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1786

Lab Sample ID: 320-86035-2

Date Collected: 03/17/22 10:58

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM020122-1787

Lab Sample ID: 320-86035-3

Date Collected: 03/17/22 11:07

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 13:02	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0108 g	577806	03/29/22 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP020122-1787

Lab Sample ID: 320-86035-4

Date Collected: 03/17/22 11:07

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1788

Lab Sample ID: 320-86035-5

Date Collected: 03/22/22 06:55

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 13:05	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0530 g	577806	03/29/22 12:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-86035-1

Client Sample ID: GILBANETSP021522-1788

Lab Sample ID: 320-86035-6

Date Collected: 03/22/22 06:55

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1789

Lab Sample ID: 320-86035-7

Date Collected: 03/22/22 06:41

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 13:15	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0923 g	577806	03/29/22 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1789

Lab Sample ID: 320-86035-8

Date Collected: 03/22/22 06:41

Matrix: Air

Date Received: 03/23/22 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	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: 320-86035-1

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: 320-86035-1

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: 320-86035-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86035-1	GILBANEPM020122-1786	Air	03/17/22 10:58	03/23/22 09:35
320-86035-2	GILBANETSP020122-1786	Air	03/17/22 10:58	03/23/22 09:35
320-86035-3	GILBANEPM020122-1787	Air	03/17/22 11:07	03/23/22 09:35
320-86035-4	GILBANETSP020122-1787	Air	03/17/22 11:07	03/23/22 09:35
320-86035-5	GILBANEPM021522-1788	Air	03/22/22 06:55	03/23/22 09:35
320-86035-6	GILBANETSP021522-1788	Air	03/22/22 06:55	03/23/22 09:35
320-86035-7	GILBANEPM021522-1789	Air	03/22/22 06:41	03/23/22 09:35
320-86035-8	GILBANETSP021522-1789	Air	03/22/22 06:41	03/23/22 09:35

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT032222AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2
Project Number: J310000400
WBS Code: J310000400-016
Laboratory: EUOFINS ENVIRONMENT TESTING NORTHERN CALIFORNIA, LLC (EETN)
POC: [Redacted]
Shipping Address: [Redacted] Highway, West Sacramento, CA 95605
Event: Parcel E Phase 2 Air Monitoring March 2022

Comments:

Code	Matrix
A	Air

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



Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10		N0500 - Air TSP		SW6020 - Air Pb Mn Cu		Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments	
						1	1	1	1	1	1						
1	A	03/17/2022	1058	KT	X	X	X	X	X	X	X	AMSE1	N2	0.00	0.00	1	VOLUME: 526.09 (M3)
2	A	03/17/2022	1058	KT	X	X	X	X	X	X	X	AMSE1	N2	0.00	0.00	1	VOLUME: 505.71 (M3)
3	A	03/17/2022	1107	KT	X	X	X	X	X	X	X	AMSE2	N2	0.00	0.00	1	VOLUME: 550.56 (M3)
4	A	03/17/2022	1107	KT	X	X	X	X	X	X	X	AMSE2	N2	0.00	0.00	1	VOLUME: 553.75 (M3)
5	A	03/22/2022	0655	KT	X	X	X	X	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1724.49 (M3)
6	A	03/22/2022	0655	KT	X	X	X	X	X	X	X	AMSE1	N1	0.00	0.00	1	VOLUME: 1656.33 (M3)
7	A	03/22/2022	0641	KT	X	X	X	X	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1688.62 (M3)
8	A	03/22/2022	0641	KT	X	X	X	X	X	X	X	AMSE2	N1	0.00	0.00	1	VOLUME: 1732.55 (M3)
9																	
10																	

Turnaround Time: 5 days

Received by: (Signature) Fedex	Date 3/22/22	Time 1600	Shipping Date / Carrier / Airbill Number Shipping Date: 3/22/2022 / FedEx 7763 6574 4659
[Redacted]	3-23-22	935	Received by Laboratory: (Signature, Date, Time) & condition

Gilbane_Navy_COC_Field
March 22, 2022

215°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86035-1

Login Number: 86035

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: 320-86123-1
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:
4/5/2022 9:07:03 AM

[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: 320-86123-1

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: 320-86123-1

Job ID: 320-86123-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-86123-1

Comments

No additional comments.

Receipt

The samples were received on 3/25/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 20.0° 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: 320-86123-1

Client Sample ID: GILBANEPM021522-1790

Lab Sample ID: 320-86123-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0030		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.053		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.010		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1790

Lab Sample ID: 320-86123-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.6014		0.2996	0.2996	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1791

Lab Sample ID: 320-86123-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.15		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0089		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	22		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1791

Lab Sample ID: 320-86123-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.8380		0.2870	0.2870	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1792

Lab Sample ID: 320-86123-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00075		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0028		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	19		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1792

Lab Sample ID: 320-86123-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.9281		0.3016	0.3016	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1793

Lab Sample ID: 320-86123-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0029		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.14		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0053		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1793

Lab Sample ID: 320-86123-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.3534		0.2878	0.2878	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: 320-86123-1

Client Sample ID: GILBANEPM021522-1790

Lab Sample ID: 320-86123-1

Date Collected: 03/23/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0030		0.00069	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:18	1
Copper	0.053		0.0014	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:18	1
Manganese	0.010		0.00069	0.000097	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	20		0.29	0.29	ug/m3			03/29/22 12:00	1

Client Sample ID: GILBANETSP021522-1790

Lab Sample ID: 320-86123-2

Date Collected: 03/23/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.6014		0.2996	0.2996	ug/m3 (Air)			03/29/22 12:00	1

Client Sample ID: GILBANEPM021522-1791

Lab Sample ID: 320-86123-3

Date Collected: 03/23/22 06:38

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.00069	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:21	1
Copper	0.15		0.0014	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:21	1
Manganese	0.0089		0.00069	0.000096	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	22		0.29	0.29	ug/m3			03/29/22 12:00	1

Client Sample ID: GILBANETSP021522-1791

Lab Sample ID: 320-86123-4

Date Collected: 03/23/22 06:38

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.8380		0.2870	0.2870	ug/m3 (Air)			03/29/22 12:00	1

Client Sample ID: GILBANEPM021522-1792

Lab Sample ID: 320-86123-5

Date Collected: 03/24/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00075		0.00069	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:24	1
Copper	0.024		0.0014	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:24	1
Manganese	0.0028		0.00069	0.000097	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:24	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-86123-1

Client Sample ID: GILBANEPM021522-1792

Lab Sample ID: 320-86123-5

Date Collected: 03/24/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	19		0.29	0.29	ug/m3			03/29/22 12:00	1

Client Sample ID: GILBANETSP021522-1792

Lab Sample ID: 320-86123-6

Date Collected: 03/24/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.9281		0.3016	0.3016	ug/m3 (Air)			03/29/22 12:00	1

Client Sample ID: GILBANEPM021522-1793

Lab Sample ID: 320-86123-7

Date Collected: 03/24/22 06:34

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029		0.00069	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:28	1
Copper	0.14		0.0014	0.00010	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:28	1
Manganese	0.0053		0.00069	0.000097	ug/m3 (Air)		04/01/22 09:30	04/01/22 13:28	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			03/29/22 12:00	1

Client Sample ID: GILBANETSP021522-1793

Lab Sample ID: 320-86123-8

Date Collected: 03/24/22 06:34

Matrix: Air

Date Received: 03/25/22 09:30

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.3534		0.2878	0.2878	ug/m3 (Air)			03/29/22 12:00	1

QC Sample Results

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

Job ID: 320-86123-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-577113/1-B
Matrix: Air
Analysis Batch: 577358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 577122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:17	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:17	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/01/22 09:30	04/01/22 12:17	1

Lab Sample ID: LCS 320-577113/2-B
Matrix: Air
Analysis Batch: 577358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 577122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.234		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.234		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.243		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-577113/3-B
Matrix: Air
Analysis Batch: 577358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 577122

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.227		ug/m3 (Air)		95	86 - 111	3	15
Copper	0.240	0.238		ug/m3 (Air)		99	85 - 110	2	15
Manganese	0.240	0.251		ug/m3 (Air)		104	88 - 110	3	15

QC Association Summary

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

Job ID: 320-86123-1

Metals

Pre Prep Batch: 577113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86123-1	GILBANEPM021522-1790	Total/NA	Air	Filter to Air	
320-86123-3	GILBANEPM021522-1791	Total/NA	Air	Filter to Air	
320-86123-5	GILBANEPM021522-1792	Total/NA	Air	Filter to Air	
320-86123-7	GILBANEPM021522-1793	Total/NA	Air	Filter to Air	
MB 320-577113/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-577113/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-577113/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 577122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86123-1	GILBANEPM021522-1790	Total/NA	Air	3050B	577113
320-86123-3	GILBANEPM021522-1791	Total/NA	Air	3050B	577113
320-86123-5	GILBANEPM021522-1792	Total/NA	Air	3050B	577113
320-86123-7	GILBANEPM021522-1793	Total/NA	Air	3050B	577113
MB 320-577113/1-B	Method Blank	Total/NA	Air	3050B	577113
LCS 320-577113/2-B	Lab Control Sample	Total/NA	Air	3050B	577113
LCSD 320-577113/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	577113

Analysis Batch: 577358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86123-1	GILBANEPM021522-1790	Total/NA	Air	6020	577122
320-86123-3	GILBANEPM021522-1791	Total/NA	Air	6020	577122
320-86123-5	GILBANEPM021522-1792	Total/NA	Air	6020	577122
320-86123-7	GILBANEPM021522-1793	Total/NA	Air	6020	577122
MB 320-577113/1-B	Method Blank	Total/NA	Air	6020	577122
LCS 320-577113/2-B	Lab Control Sample	Total/NA	Air	6020	577122
LCSD 320-577113/3-B	Lab Control Sample Dup	Total/NA	Air	6020	577122

General Chemistry

Pre Prep Batch: 577768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86123-2	GILBANETSP021522-1790	Total/NA	Air	Filter to Air	
320-86123-4	GILBANETSP021522-1791	Total/NA	Air	Filter to Air	
320-86123-6	GILBANETSP021522-1792	Total/NA	Air	Filter to Air	
320-86123-8	GILBANETSP021522-1793	Total/NA	Air	Filter to Air	

Analysis Batch: 577805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86123-2	GILBANETSP021522-1790	Total/NA	Air	40CFR50 App B	577768
320-86123-4	GILBANETSP021522-1791	Total/NA	Air	40CFR50 App B	577768
320-86123-6	GILBANETSP021522-1792	Total/NA	Air	40CFR50 App B	577768
320-86123-8	GILBANETSP021522-1793	Total/NA	Air	40CFR50 App B	577768

Analysis Batch: 577806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86123-1	GILBANEPM021522-1790	Total/NA	Air	PM10	
320-86123-3	GILBANEPM021522-1791	Total/NA	Air	PM10	
320-86123-5	GILBANEPM021522-1792	Total/NA	Air	PM10	
320-86123-7	GILBANEPM021522-1793	Total/NA	Air	PM10	

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-86123-1

Client Sample ID: GILBANEPM021522-1790

Lab Sample ID: 320-86123-1

Date Collected: 03/23/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 13:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0345 g	577806	03/29/22 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1790

Lab Sample ID: 320-86123-2

Date Collected: 03/23/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1791

Lab Sample ID: 320-86123-3

Date Collected: 03/23/22 06:38

Matrix: Air

Date Received: 03/25/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 13:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0389 g	577806	03/29/22 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1791

Lab Sample ID: 320-86123-4

Date Collected: 03/23/22 06:38

Matrix: Air

Date Received: 03/25/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1792

Lab Sample ID: 320-86123-5

Date Collected: 03/24/22 06:49

Matrix: Air

Date Received: 03/25/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 13:24	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0334 g	577806	03/29/22 12:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-86123-1

Client Sample ID: GILBANETSP021522-1792
Date Collected: 03/24/22 06:49
Date Received: 03/25/22 09:30

Lab Sample ID: 320-86123-6
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			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1793
Date Collected: 03/24/22 06:34
Date Received: 03/25/22 09:30

Lab Sample ID: 320-86123-7
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					577113	04/01/22 09:03	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	577122	04/01/22 09:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			577358	04/01/22 13:28	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0426 g	577806	03/29/22 12:00	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1793
Date Collected: 03/24/22 06:34
Date Received: 03/25/22 09:30

Lab Sample ID: 320-86123-8
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			577805	03/29/22 12:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	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: 320-86123-1

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: 320-86123-1

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: 320-86123-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86123-1	GILBANEPM021522-1790	Air	03/23/22 06:49	03/25/22 09:30
320-86123-2	GILBANETSP021522-1790	Air	03/23/22 06:49	03/25/22 09:30
320-86123-3	GILBANEPM021522-1791	Air	03/23/22 06:38	03/25/22 09:30
320-86123-4	GILBANETSP021522-1791	Air	03/23/22 06:38	03/25/22 09:30
320-86123-5	GILBANEPM021522-1792	Air	03/24/22 06:49	03/25/22 09:30
320-86123-6	GILBANETSP021522-1792	Air	03/24/22 06:49	03/25/22 09:30
320-86123-7	GILBANEPM021522-1793	Air	03/24/22 06:34	03/25/22 09:30
320-86123-8	GILBANETSP021522-1793	Air	03/24/22 06:34	03/25/22 09:30

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- 2
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CHAIN-OF-CUSTODY RECORD

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

COC # **KT032422AIR**



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

Comments:

Analytical Test Method
 CAAIR - Air PM10
 N0500 - Air TSP
 SW6020 - Air Pb Mn Cu

Code	Matrix
A	Air

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

Equipment:

320-86123 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring March 2022

Sample ID	Matrix	Date	Time	Samp Inlt.	Location ID	Sample Type	Depth (ft bgs)	Cooler	Comments
1	GILBANEPM021522-1790	03/23/2022	0649	KT	AMSE1	N1	0.00	1	VOLUME: 1735.39 (M3)
2	GILBANETSP021522-1790	03/23/2022	0649	KT	AMSE1	N1	0.00	1	VOLUME: 1668.84 (M3)
3	GILBANEPM021522-1791	03/23/2022	0638	KT	AMSE2	N1	0.00	1	VOLUME: 1744.31 (M3)
4	GILBANETSP021522-1791	03/23/2022	0638	KT	AMSE2	N1	0.00	1	VOLUME: 1742.22 (M3)
5	GILBANEPM021522-1792	03/24/2022	0649	KT	AMSE1	N1	0.00	1	VOLUME: 1728.91 (M3)
6	GILBANETSP021522-1792	03/24/2022	0649	KT	AMSE1	N1	0.00	1	VOLUME: 1657.83 (M3)
7	GILBANEPM021522-1793	03/24/2022	0634	KT	AMSE2	N1	0.00	1	VOLUME: 1732.33 (M3)
8	GILBANETSP021522-1793	03/24/2022	0634	KT	AMSE2	N1	0.00	1	VOLUME: 1737.45 (M3)
9									
10									

Turnaround Time: 5 days

Signature	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/24/22	1600	[Redacted]	3/24/22	1600	Shipping Date: 3/24/2022 / FedEx 7763 7510 3686
[Redacted]			[Redacted]	3-25-22	930	Received by Laboratory: (Signature, Date, Time) & condition

Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86123-1

Login Number: 86123

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: 320-86254-1
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:
4/7/2022 4:10:57 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: 320-86254-1

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: 320-86254-1

Job ID: 320-86254-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-86254-1

Comments

No additional comments.

Receipt

The samples were received on 3/30/2022 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.7° 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: 320-86254-1

Client Sample ID: GILBANEPM021522-1794

Lab Sample ID: 320-86254-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0034		0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.068		0.0042	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0092		0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	21		0.88	0.88	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1794

Lab Sample ID: 320-86254-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.9376		0.9153	0.9153	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1795

Lab Sample ID: 320-86254-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0083		0.0022	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.14		0.0043	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0089		0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.90	0.90	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1795

Lab Sample ID: 320-86254-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	45.6581		0.8814	0.8814	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1796

Lab Sample ID: 320-86254-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00088		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.046		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0016		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1796

Lab Sample ID: 320-86254-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.5027		0.3069	0.3069	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1797

Lab Sample ID: 320-86254-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0019		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1797

Lab Sample ID: 320-86254-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	16.5769		0.2929	0.2929	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: 320-86254-1

Client Sample ID: GILBANEPM021522-1794

Lab Sample ID: 320-86254-1

Date Collected: 03/24/22 14:46

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0034		0.0021	0.00032	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:02	1
Copper	0.068		0.0042	0.00032	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:02	1
Manganese	0.0092		0.0021	0.00030	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:02	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.88	0.88	ug/m3			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1794

Lab Sample ID: 320-86254-2

Date Collected: 03/24/22 14:46

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.9376		0.9153	0.9153	ug/m3 (Air)			04/04/22 08:30	1

Client Sample ID: GILBANEPM021522-1795

Lab Sample ID: 320-86254-3

Date Collected: 03/24/22 14:34

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0083		0.0022	0.00032	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:18	1
Copper	0.14		0.0043	0.00032	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:18	1
Manganese	0.0089		0.0022	0.00030	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.90	0.90	ug/m3			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1795

Lab Sample ID: 320-86254-4

Date Collected: 03/24/22 14:34

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.6581		0.8814	0.8814	ug/m3 (Air)			04/04/22 08:30	1

Client Sample ID: GILBANEPM021522-1796

Lab Sample ID: 320-86254-5

Date Collected: 03/29/22 06:55

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00088		0.00070	0.00011	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:21	1
Copper	0.046		0.0014	0.00011	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:21	1
Manganese	0.0016		0.00070	0.000098	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:21	1

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Client Sample Results

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

Job ID: 320-86254-1

Client Sample ID: GILBANEPM021522-1796

Lab Sample ID: 320-86254-5

Date Collected: 03/29/22 06:55

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.29	0.29	ug/m3			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1796

Lab Sample ID: 320-86254-6

Date Collected: 03/29/22 06:55

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.5027		0.3069	0.3069	ug/m3 (Air)			04/04/22 08:30	1

Client Sample ID: GILBANEPM021522-1797

Lab Sample ID: 320-86254-7

Date Collected: 03/29/22 06:46

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00070	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:25	1
Copper	0.13		0.0014	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:25	1
Manganese	0.0019		0.00070	0.000098	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.29	0.29	ug/m3			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1797

Lab Sample ID: 320-86254-8

Date Collected: 03/29/22 06:46

Matrix: Air

Date Received: 03/30/22 10:25

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.5769		0.2929	0.2929	ug/m3 (Air)			04/04/22 08:30	1

QC Sample Results

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

Job ID: 320-86254-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-578206/1-B
Matrix: Air
Analysis Batch: 578456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/06/22 10:30	04/06/22 16:52	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/06/22 10:30	04/06/22 16:52	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/06/22 10:30	04/06/22 16:52	1

Lab Sample ID: LCS 320-578206/2-B
Matrix: Air
Analysis Batch: 578456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.250		ug/m3 (Air)		104	86 - 111
Copper	0.240	0.228		ug/m3 (Air)		95	85 - 110
Manganese	0.240	0.233		ug/m3 (Air)		97	88 - 110

Lab Sample ID: LCSD 320-578206/3-B
Matrix: Air
Analysis Batch: 578456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 578241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.256		ug/m3 (Air)		107	86 - 111	2	15
Copper	0.240	0.225		ug/m3 (Air)		94	85 - 110	2	15
Manganese	0.240	0.230		ug/m3 (Air)		96	88 - 110	1	15

QC Association Summary

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

Job ID: 320-86254-1

Metals

Pre Prep Batch: 578206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86254-1	GILBANEPM021522-1794	Total/NA	Air	Filter to Air	
320-86254-3	GILBANEPM021522-1795	Total/NA	Air	Filter to Air	
320-86254-5	GILBANEPM021522-1796	Total/NA	Air	Filter to Air	
320-86254-7	GILBANEPM021522-1797	Total/NA	Air	Filter to Air	
MB 320-578206/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-578206/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-578206/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 578241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86254-1	GILBANEPM021522-1794	Total/NA	Air	3050B	578206
320-86254-3	GILBANEPM021522-1795	Total/NA	Air	3050B	578206
320-86254-5	GILBANEPM021522-1796	Total/NA	Air	3050B	578206
320-86254-7	GILBANEPM021522-1797	Total/NA	Air	3050B	578206
MB 320-578206/1-B	Method Blank	Total/NA	Air	3050B	578206
LCS 320-578206/2-B	Lab Control Sample	Total/NA	Air	3050B	578206
LCSD 320-578206/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	578206

Analysis Batch: 578456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86254-1	GILBANEPM021522-1794	Total/NA	Air	6020	578241
320-86254-3	GILBANEPM021522-1795	Total/NA	Air	6020	578241
320-86254-5	GILBANEPM021522-1796	Total/NA	Air	6020	578241
320-86254-7	GILBANEPM021522-1797	Total/NA	Air	6020	578241
MB 320-578206/1-B	Method Blank	Total/NA	Air	6020	578241
LCS 320-578206/2-B	Lab Control Sample	Total/NA	Air	6020	578241
LCSD 320-578206/3-B	Lab Control Sample Dup	Total/NA	Air	6020	578241

General Chemistry

Pre Prep Batch: 577768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86254-2	GILBANETSP021522-1794	Total/NA	Air	Filter to Air	
320-86254-4	GILBANETSP021522-1795	Total/NA	Air	Filter to Air	
320-86254-6	GILBANETSP021522-1796	Total/NA	Air	Filter to Air	
320-86254-8	GILBANETSP021522-1797	Total/NA	Air	Filter to Air	

Analysis Batch: 578300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86254-1	GILBANEPM021522-1794	Total/NA	Air	PM10	
320-86254-3	GILBANEPM021522-1795	Total/NA	Air	PM10	
320-86254-5	GILBANEPM021522-1796	Total/NA	Air	PM10	
320-86254-7	GILBANEPM021522-1797	Total/NA	Air	PM10	

Analysis Batch: 578301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86254-2	GILBANETSP021522-1794	Total/NA	Air	40CFR50 App B	577768
320-86254-4	GILBANETSP021522-1795	Total/NA	Air	40CFR50 App B	577768
320-86254-6	GILBANETSP021522-1796	Total/NA	Air	40CFR50 App B	577768
320-86254-8	GILBANETSP021522-1797	Total/NA	Air	40CFR50 App B	577768

Eurofins Sacramento

Lab Chronicle

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

Job ID: 320-86254-1

Client Sample ID: GILBANEPM021522-1794

Lab Sample ID: 320-86254-1

Date Collected: 03/24/22 14:46

Matrix: Air

Date Received: 03/30/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:02	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0118 g	578300	04/04/22 08:30	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1794

Lab Sample ID: 320-86254-2

Date Collected: 03/24/22 14:46

Matrix: Air

Date Received: 03/30/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1795

Lab Sample ID: 320-86254-3

Date Collected: 03/24/22 14:34

Matrix: Air

Date Received: 03/30/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0128 g	578300	04/04/22 08:30	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1795

Lab Sample ID: 320-86254-4

Date Collected: 03/24/22 14:34

Matrix: Air

Date Received: 03/30/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1796

Lab Sample ID: 320-86254-5

Date Collected: 03/29/22 06:55

Matrix: Air

Date Received: 03/30/22 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0194 g	578300	04/04/22 08:30	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-86254-1

Client Sample ID: GILBANETSP021522-1796
Date Collected: 03/29/22 06:55
Date Received: 03/30/22 10:25

Lab Sample ID: 320-86254-6
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			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1797
Date Collected: 03/29/22 06:46
Date Received: 03/30/22 10:25

Lab Sample ID: 320-86254-7
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					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:25	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0195 g	578300	04/04/22 08:30	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1797
Date Collected: 03/29/22 06:46
Date Received: 03/30/22 10:25

Lab Sample ID: 320-86254-8
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			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	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: 320-86254-1

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: 320-86254-1

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: 320-86254-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86254-1	GILBANEPM021522-1794	Air	03/24/22 14:46	03/30/22 10:25
320-86254-2	GILBANETSP021522-1794	Air	03/24/22 14:46	03/30/22 10:25
320-86254-3	GILBANEPM021522-1795	Air	03/24/22 14:34	03/30/22 10:25
320-86254-4	GILBANETSP021522-1795	Air	03/24/22 14:34	03/30/22 10:25
320-86254-5	GILBANEPM021522-1796	Air	03/29/22 06:55	03/30/22 10:25
320-86254-6	GILBANETSP021522-1796	Air	03/29/22 06:55	03/30/22 10:25
320-86254-7	GILBANEPM021522-1797	Air	03/29/22 06:46	03/30/22 10:25
320-86254-8	GILBANETSP021522-1797	Air	03/29/22 06:46	03/30/22 10:25

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT032922AIR



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 March 2022

Comments:

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 March 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	03/24/2022	1446	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 567.92 (M3)
2	A	03/24/2022	1446	KT	X	X	X	AMSE1	N2	0.00 0.00	1	VOLUME: 546.26 (M3)
3	A	03/24/2022	1434	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 554.93 (M3)
4	A	03/24/2022	1434	KT	X	X	X	AMSE2	N2	0.00 0.00	1	VOLUME: 567.26 (M3)
5	A	03/29/2022	0655	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1711.49 (M3)
6	A	03/29/2022	0655	KT	X	X	X	AMSE1	N1	0.00 0.00	1	VOLUME: 1629.30 (M3)
7	A	03/29/2022	0646	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1722.89 (M3)
8	A	03/29/2022	0646	KT	X	X	X	AMSE2	N1	0.00 0.00	1	VOLUME: 1707.20 (M3)
9	TP											
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/29/22	1600	Fedex	3/29/22	1600	Shipping Date: 3/29/2022/FedEx 7764 1643 1438
[Redacted]			[Redacted]	3-30-22	1025	Received by Laboratory: (Signature, Date, Time) & condition

Gilbane Navy_COC_Field
March 29, 2022

19.7°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86254-1

Login Number: 86254

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-86345-1
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:
4/8/2022 8:35:08 AM

[REDACTED]

LINKS

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

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

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



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Definitions/Glossary

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

Job ID: 320-86345-1

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: 320-86345-1

Job ID: 320-86345-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-86345-1

Comments

No additional comments.

Receipt

The samples were received on 4/1/2022 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.3° C.

Metals

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

- 1
- 2
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- 12
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Detection Summary

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

Job ID: 320-86345-1

Client Sample ID: GILBANEPM021522-1798

Lab Sample ID: 320-86345-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00093		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.016		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0020		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1798

Lab Sample ID: 320-86345-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.8108		0.3025	0.3025	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1799

Lab Sample ID: 320-86345-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0015		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.16		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0028		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1799

Lab Sample ID: 320-86345-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.5368		0.2900	0.2900	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1800

Lab Sample ID: 320-86345-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.058		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0039		0.00069	0.000097	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: GILBANETSP021522-1800

Lab Sample ID: 320-86345-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	40.8425		0.3021	0.3021	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1801

Lab Sample ID: 320-86345-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0028		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.17		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0046		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	30		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1801

Lab Sample ID: 320-86345-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	41.5053		0.2882	0.2882	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: 320-86345-1

Client Sample ID: GILBANEPM021522-1798

Lab Sample ID: 320-86345-1

Date Collected: 03/30/22 06:57

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00093		0.00069	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:28	1
Copper	0.016		0.0014	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:28	1
Manganese	0.0020		0.00069	0.000097	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.29	0.29	ug/m3			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1798

Lab Sample ID: 320-86345-2

Date Collected: 03/30/22 06:57

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.8108		0.3025	0.3025	ug/m3 (Air)			04/04/22 08:30	1

Client Sample ID: GILBANEPM021522-1799

Lab Sample ID: 320-86345-3

Date Collected: 03/30/22 06:45

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0015		0.00070	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:31	1
Copper	0.16		0.0014	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:31	1
Manganese	0.0028		0.00070	0.000097	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.29	0.29	ug/m3			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1799

Lab Sample ID: 320-86345-4

Date Collected: 03/30/22 06:45

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.5368		0.2900	0.2900	ug/m3 (Air)			04/04/22 08:30	1

Client Sample ID: GILBANEPM021522-1800

Lab Sample ID: 320-86345-5

Date Collected: 03/31/22 06:56

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.00069	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:35	1
Copper	0.058		0.0014	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:35	1
Manganese	0.0039		0.00069	0.000097	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:35	1

Euromins Sacramento

Client Sample Results

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

Job ID: 320-86345-1

Client Sample ID: GILBANEPM021522-1800

Lab Sample ID: 320-86345-5

Date Collected: 03/31/22 06:56

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

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			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1800

Lab Sample ID: 320-86345-6

Date Collected: 03/31/22 06:56

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	40.8425		0.3021	0.3021	ug/m3 (Air)			04/04/22 08:30	1

Client Sample ID: GILBANEPM021522-1801

Lab Sample ID: 320-86345-7

Date Collected: 03/31/22 06:48

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0028		0.00070	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:38	1
Copper	0.17		0.0014	0.00010	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:38	1
Manganese	0.0046		0.00070	0.000097	ug/m3 (Air)		04/06/22 10:30	04/06/22 18:38	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	30		0.29	0.29	ug/m3			04/04/22 08:30	1

Client Sample ID: GILBANETSP021522-1801

Lab Sample ID: 320-86345-8

Date Collected: 03/31/22 06:48

Matrix: Air

Date Received: 04/01/22 09:10

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	41.5053		0.2882	0.2882	ug/m3 (Air)			04/04/22 08:30	1

QC Sample Results

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

Job ID: 320-86345-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-578206/1-B
Matrix: Air
Analysis Batch: 578456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 578241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/06/22 10:30	04/06/22 16:52	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/06/22 10:30	04/06/22 16:52	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		04/06/22 10:30	04/06/22 16:52	1

Lab Sample ID: LCS 320-578206/2-B
Matrix: Air
Analysis Batch: 578456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 578241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.250		ug/m3 (Air)		104	86 - 111
Copper	0.240	0.228		ug/m3 (Air)		95	85 - 110
Manganese	0.240	0.233		ug/m3 (Air)		97	88 - 110

Lab Sample ID: LCSD 320-578206/3-B
Matrix: Air
Analysis Batch: 578456

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 578241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.256		ug/m3 (Air)		107	86 - 111	2	15
Copper	0.240	0.225		ug/m3 (Air)		94	85 - 110	2	15
Manganese	0.240	0.230		ug/m3 (Air)		96	88 - 110	1	15

QC Association Summary

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

Job ID: 320-86345-1

Metals

Pre Prep Batch: 578206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86345-1	GILBANEPM021522-1798	Total/NA	Air	Filter to Air	
320-86345-3	GILBANEPM021522-1799	Total/NA	Air	Filter to Air	
320-86345-5	GILBANEPM021522-1800	Total/NA	Air	Filter to Air	
320-86345-7	GILBANEPM021522-1801	Total/NA	Air	Filter to Air	
MB 320-578206/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-578206/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-578206/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 578241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86345-1	GILBANEPM021522-1798	Total/NA	Air	3050B	578206
320-86345-3	GILBANEPM021522-1799	Total/NA	Air	3050B	578206
320-86345-5	GILBANEPM021522-1800	Total/NA	Air	3050B	578206
320-86345-7	GILBANEPM021522-1801	Total/NA	Air	3050B	578206
MB 320-578206/1-B	Method Blank	Total/NA	Air	3050B	578206
LCS 320-578206/2-B	Lab Control Sample	Total/NA	Air	3050B	578206
LCSD 320-578206/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	578206

Analysis Batch: 578456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86345-1	GILBANEPM021522-1798	Total/NA	Air	6020	578241
320-86345-3	GILBANEPM021522-1799	Total/NA	Air	6020	578241
320-86345-5	GILBANEPM021522-1800	Total/NA	Air	6020	578241
320-86345-7	GILBANEPM021522-1801	Total/NA	Air	6020	578241
MB 320-578206/1-B	Method Blank	Total/NA	Air	6020	578241
LCS 320-578206/2-B	Lab Control Sample	Total/NA	Air	6020	578241
LCSD 320-578206/3-B	Lab Control Sample Dup	Total/NA	Air	6020	578241

General Chemistry

Pre Prep Batch: 577768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86345-2	GILBANETSP021522-1798	Total/NA	Air	Filter to Air	
320-86345-4	GILBANETSP021522-1799	Total/NA	Air	Filter to Air	
320-86345-6	GILBANETSP021522-1800	Total/NA	Air	Filter to Air	
320-86345-8	GILBANETSP021522-1801	Total/NA	Air	Filter to Air	

Analysis Batch: 578300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86345-1	GILBANEPM021522-1798	Total/NA	Air	PM10	
320-86345-3	GILBANEPM021522-1799	Total/NA	Air	PM10	
320-86345-5	GILBANEPM021522-1800	Total/NA	Air	PM10	
320-86345-7	GILBANEPM021522-1801	Total/NA	Air	PM10	

Analysis Batch: 578301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86345-2	GILBANETSP021522-1798	Total/NA	Air	40CFR50 App B	577768
320-86345-4	GILBANETSP021522-1799	Total/NA	Air	40CFR50 App B	577768
320-86345-6	GILBANETSP021522-1800	Total/NA	Air	40CFR50 App B	577768
320-86345-8	GILBANETSP021522-1801	Total/NA	Air	40CFR50 App B	577768

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Lab Chronicle

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

Job ID: 320-86345-1

Client Sample ID: GILBANEPM021522-1798

Lab Sample ID: 320-86345-1

Date Collected: 03/30/22 06:57

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:28	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0246 g	578300	04/04/22 08:30	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1798

Lab Sample ID: 320-86345-2

Date Collected: 03/30/22 06:57

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1799

Lab Sample ID: 320-86345-3

Date Collected: 03/30/22 06:45

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:31	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0257 g	578300	04/04/22 08:30	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1799

Lab Sample ID: 320-86345-4

Date Collected: 03/30/22 06:45

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1800

Lab Sample ID: 320-86345-5

Date Collected: 03/31/22 06:56

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:35	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0449 g	578300	04/04/22 08:30	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-86345-1

Client Sample ID: GILBANETSP021522-1800

Lab Sample ID: 320-86345-6

Date Collected: 03/31/22 06:56

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1801

Lab Sample ID: 320-86345-7

Date Collected: 03/31/22 06:48

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					578206	04/06/22 10:00	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	578241	04/06/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			578456	04/06/22 18:38	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0511 g	578300	04/04/22 08:30	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1801

Lab Sample ID: 320-86345-8

Date Collected: 03/31/22 06:48

Matrix: Air

Date Received: 04/01/22 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			578301	04/04/22 08:30	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					577768	04/04/22 16:14	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: 320-86345-1

Laboratory: Eurofins Sacramento

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

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

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

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

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

Method Summary

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

Job ID: 320-86345-1

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: 320-86345-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86345-1	GILBANEPM021522-1798	Air	03/30/22 06:57	04/01/22 09:10
320-86345-2	GILBANETSP021522-1798	Air	03/30/22 06:57	04/01/22 09:10
320-86345-3	GILBANEPM021522-1799	Air	03/30/22 06:45	04/01/22 09:10
320-86345-4	GILBANETSP021522-1799	Air	03/30/22 06:45	04/01/22 09:10
320-86345-5	GILBANEPM021522-1800	Air	03/31/22 06:56	04/01/22 09:10
320-86345-6	GILBANETSP021522-1800	Air	03/31/22 06:56	04/01/22 09:10
320-86345-7	GILBANEPM021522-1801	Air	03/31/22 06:48	04/01/22 09:10
320-86345-8	GILBANETSP021522-1801	Air	03/31/22 06:48	04/01/22 09:10

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- 12
- 13
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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT033122AIR



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 March 2022

Comments:

Equipment:

Analytical Test Method

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



Event: Parcel E Phase 2 Air Monitoring March 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	03/30/2022	0657	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1732.53 (M3)
2	A	03/30/2022	0657	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1652.99 (M3)
3	A	03/30/2022	0645	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1723.66 (M3)
4	A	03/30/2022	0645	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1723.94 (M3)
5	A	03/31/2022	0656	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1727.64 (M3)
6	A	03/31/2022	0656	KT	X	X	X	AMSE1	N1	0.00	1	VOLUME: 1655.14 (M3)
7	A	03/31/2022	0648	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1726.18 (M3)
8	A	03/31/2022	0648	KT	X	X	X	AMSE2	N1	0.00	1	VOLUME: 1734.72 (M3)
9												
10												

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	3/31/22	1600	FedEx	3/31/22	1600	Shipping Date: 3/31/2022 / FedEx 7764 4400 1570
			[Redacted]	4-1-22	910	Received by Laboratory: (Signature, Date, Time) & condition

19.30



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86345-1

Login Number: 86345

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: 320-86521-1
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:
4/15/2022 5:20:06 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: 320-86521-1

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: 320-86521-1

Job ID: 320-86521-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-86521-1

Comments

No additional comments.

Receipt

The samples were received on 4/6/2022 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.5° 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: 320-86521-1

Client Sample ID: GILBANEPM021522-1802

Lab Sample ID: 320-86521-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0040		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.19		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.013	B	0.0022	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	35		0.91	0.91	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1802

Lab Sample ID: 320-86521-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	52.4953		1.2096	1.2096	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM021522-1803

Lab Sample ID: 320-86521-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0058		0.0021	0.00032	ug/m3 (Air)	1		6020	Total/NA
Copper	0.23		0.0042	0.00032	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012	B	0.0021	0.00030	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	36		0.88	0.88	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP021522-1803

Lab Sample ID: 320-86521-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.7541		0.8811	0.8811	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: 320-86521-1

Client Sample ID: GILBANEPM021522-1802

Lab Sample ID: 320-86521-1

Date Collected: 03/31/22 14:35

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0040		0.0022	0.00033	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:59	1
Copper	0.19		0.0044	0.00033	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:59	1
Manganese	0.013	B	0.0022	0.00030	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35		0.91	0.91	ug/m3			04/13/22 09:35	1

Client Sample ID: GILBANETSP021522-1802

Lab Sample ID: 320-86521-2

Date Collected: 03/31/22 14:35

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	52.4953		1.2096	1.2096	ug/m3 (Air)			04/13/22 09:35	1

Client Sample ID: GILBANEPM021522-1803

Lab Sample ID: 320-86521-3

Date Collected: 03/31/22 14:43

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0058		0.0021	0.00032	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:09	1
Copper	0.23		0.0042	0.00032	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:09	1
Manganese	0.012	B	0.0021	0.00030	ug/m3 (Air)		04/15/22 08:30	04/15/22 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	36		0.88	0.88	ug/m3			04/13/22 09:35	1

Client Sample ID: GILBANETSP021522-1803

Lab Sample ID: 320-86521-4

Date Collected: 03/31/22 14:43

Matrix: Air

Date Received: 04/06/22 09:55

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.7541		0.8811	0.8811	ug/m3 (Air)			04/13/22 09:35	1

QC Sample Results

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

Job ID: 320-86521-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-580364/1-B
Matrix: Air
Analysis Batch: 580582

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:50	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:50	1
Manganese	0.000203	J	0.0012	0.00017	ug/m3 (Air)		04/15/22 08:30	04/15/22 12:50	1

Lab Sample ID: LCS 320-580364/2-B
Matrix: Air
Analysis Batch: 580582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580366

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.240	0.244		ug/m3 (Air)		102	86 - 111
Copper	0.240	0.232		ug/m3 (Air)		97	85 - 110
Manganese	0.240	0.238		ug/m3 (Air)		99	88 - 110

Lab Sample ID: LCSD 320-580364/3-B
Matrix: Air
Analysis Batch: 580582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 580366

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	0.240	0.247		ug/m3 (Air)		103	86 - 111	1	15
Copper	0.240	0.243		ug/m3 (Air)		101	85 - 110	5	15
Manganese	0.240	0.248		ug/m3 (Air)		103	88 - 110	4	15

QC Association Summary

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

Job ID: 320-86521-1

Metals

Pre Prep Batch: 580364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86521-1	GILBANEPM021522-1802	Total/NA	Air	Filter to Air	
320-86521-3	GILBANEPM021522-1803	Total/NA	Air	Filter to Air	
MB 320-580364/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-580364/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-580364/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 580366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86521-1	GILBANEPM021522-1802	Total/NA	Air	3050B	580364
320-86521-3	GILBANEPM021522-1803	Total/NA	Air	3050B	580364
MB 320-580364/1-B	Method Blank	Total/NA	Air	3050B	580364
LCS 320-580364/2-B	Lab Control Sample	Total/NA	Air	3050B	580364
LCSD 320-580364/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	580364

Analysis Batch: 580582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86521-1	GILBANEPM021522-1802	Total/NA	Air	6020	580366
320-86521-3	GILBANEPM021522-1803	Total/NA	Air	6020	580366
MB 320-580364/1-B	Method Blank	Total/NA	Air	6020	580366
LCS 320-580364/2-B	Lab Control Sample	Total/NA	Air	6020	580366
LCSD 320-580364/3-B	Lab Control Sample Dup	Total/NA	Air	6020	580366

General Chemistry

Pre Prep Batch: 580572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86521-2	GILBANETSP021522-1802	Total/NA	Air	Filter to Air	
320-86521-4	GILBANETSP021522-1803	Total/NA	Air	Filter to Air	

Analysis Batch: 580587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86521-1	GILBANEPM021522-1802	Total/NA	Air	PM10	
320-86521-3	GILBANEPM021522-1803	Total/NA	Air	PM10	

Analysis Batch: 580588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-86521-2	GILBANETSP021522-1802	Total/NA	Air	40CFR50 App B	580572
320-86521-4	GILBANETSP021522-1803	Total/NA	Air	40CFR50 App B	580572

Lab Chronicle

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

Job ID: 320-86521-1

Client Sample ID: GILBANEPM021522-1802

Lab Sample ID: 320-86521-1

Date Collected: 03/31/22 14:35

Matrix: Air

Date Received: 04/06/22 09:55

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					580364	04/15/22 08:12	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580366	04/15/22 08:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			580582	04/15/22 12:59	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0192 g	580587	04/13/22 09:35	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1802

Lab Sample ID: 320-86521-2

Date Collected: 03/31/22 14:35

Matrix: Air

Date Received: 04/06/22 09:55

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			580588	04/13/22 09:35	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	DPM	TAL SAC

Client Sample ID: GILBANEPM021522-1803

Lab Sample ID: 320-86521-3

Date Collected: 03/31/22 14:43

Matrix: Air

Date Received: 04/06/22 09:55

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					580364	04/15/22 08:12	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	580366	04/15/22 08:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			580582	04/15/22 13:09	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0204 g	580587	04/13/22 09:35	DPM	TAL SAC

Client Sample ID: GILBANETSP021522-1803

Lab Sample ID: 320-86521-4

Date Collected: 03/31/22 14:43

Matrix: Air

Date Received: 04/06/22 09:55

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			580588	04/13/22 09:35	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					580572	04/15/22 15:04	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: 320-86521-1

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: 320-86521-1

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: 320-86521-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-86521-1	GILBANEPM021522-1802	Air	03/31/22 14:35	04/06/22 09:55
320-86521-2	GILBANETSP021522-1802	Air	03/31/22 14:35	04/06/22 09:55
320-86521-3	GILBANEPM021522-1803	Air	03/31/22 14:43	04/06/22 09:55
320-86521-4	GILBANETSP021522-1803	Air	03/31/22 14:43	04/06/22 09:55

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**CHAIN-OF-CUSTODY
RECORD**

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

COC # KT033122AAIR



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 March 2022

Comments:

Equipment:

Code	Matrix
A	Air

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



Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method	CAIR - Air PM10		N0500 - Air TSP		SW620 - Air Pb Mn Cu		Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
						1	1	1	1	Top	Bottom						
1	GILBANEPM021522-1802	03/31/2022	1435	KT	X	X	X	X	AMSE1	N2	0.00	0.00	1	VOLUME: 551.71 (M3)			
2	GILBANETSP021522-1802	03/31/2022	1435	KT	X	X	X	X	AMSE1	N2	0.00	0.00	1	VOLUME: 413.37 (M3)			
3	GILBANEPM021522-1803	03/31/2022	1443	KT	X	X	X	X	AMSE2	N2	0.00	0.00	1	VOLUME: 567.94 (M3)			
4	GILBANETSP021522-1803	03/31/2022	1443	KT	X	X	X	X	AMSE2	N2	0.00	0.00	1	VOLUME: 567.49 (M3)			
5	TP																
6																	
7																	
8																	
9																	
10																	

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	4/5/22	1600	Fedex	4/5/22	1600	Shipping Date: 4/5/2022 Fedex 7764 8679 3658
			[Redacted]	4-6-22	09:55	Received by Laboratory: (Signature, Date, Time) & condition

Gilbane Nay_COC_Field
April 04, 2022

18.5°C



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-86521-1

Login Number: 86521

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	

