



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

January 1st, 2022 through January 31st, 2022

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Prepared for:



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Acronyms and Abbreviations

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

1.0 Introduction

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

This summary report describes the following:

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

This AMSR summarizes the air monitoring activities conducted by Gilbane at HPNS Parcel E from January 1st, 2022 through January 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). 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**. Data was collected from Station 1 in Parcel E and Station 2 in Parcel D-1 from January 1st to January 31st, 2022, during which Gilbane was grading, excavating, managing radiological screening yard pads and stockpiles, backfilling, importing, and transporting soil. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks.

Construction and remediation activities conducted from January 1st to January 31st, 2022 did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from January 1st to January 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 January 1st to January 31st, 2022 did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 3** and **Attachment 4**.

TSP results from January 1st to January 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 January 1st to January 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.

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6.0 References

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

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

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

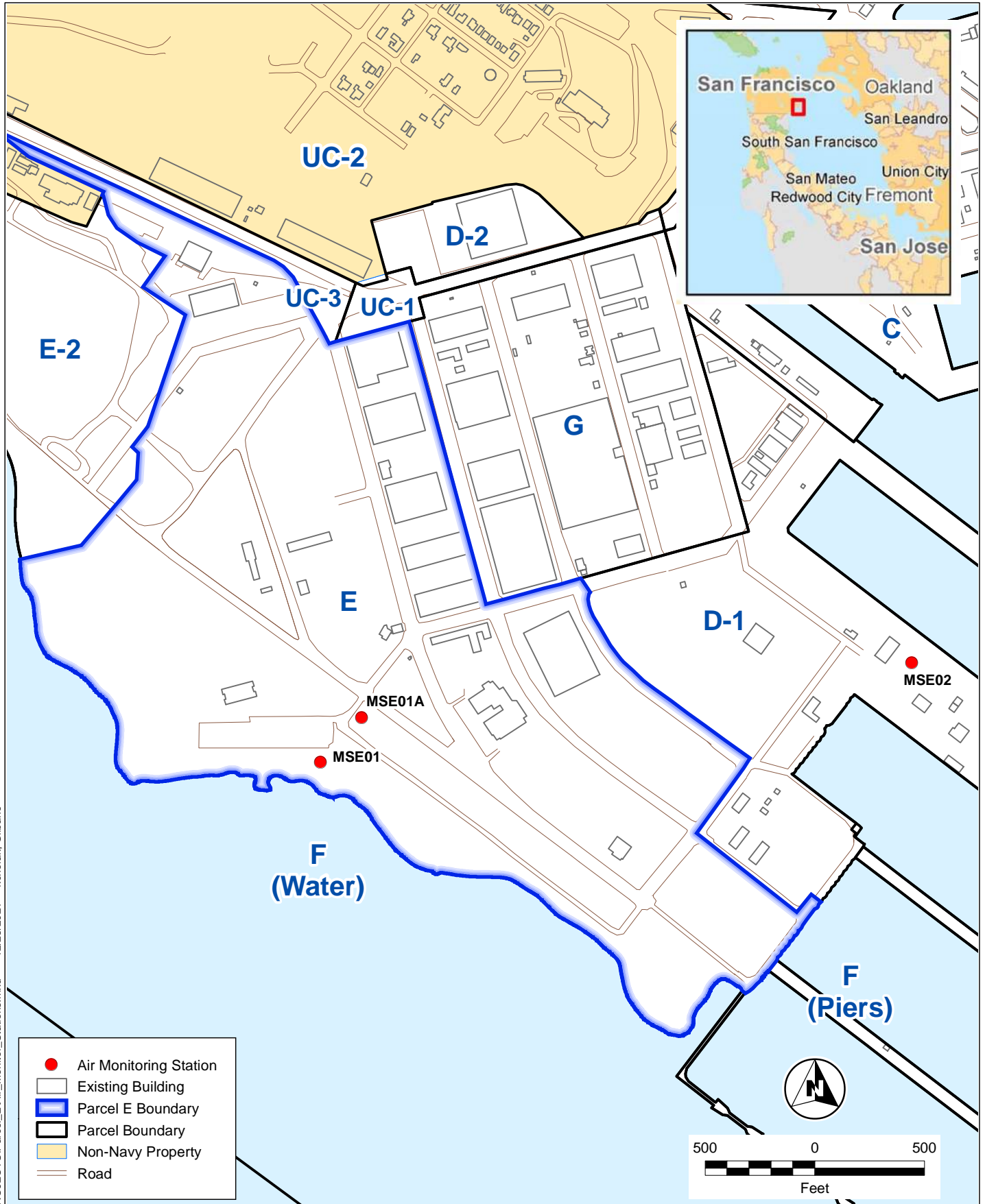
Gilbane Federal, 2019a. Final Remedial Action Work Plan, Parcel E Remedial Action, Phase 2, Hunters Point Naval Shipyard, San Francisco, California. October

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

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FIGURES

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Parcel E
Hunters Point Naval Shipyard
San Francisco, California

Figure 2-1
Air Monitoring Stations

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

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

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
1/3/2022	30.29	51.70	South
1/4/2022	30.39	52.80	South
1/5/2022	30.28	53.35	SSE
1/6/2022	30.16	52.60	NNE
1/10/2022	30.46	53.06	South
1/11/2022	30.38	52.66	North
1/12/2022	30.32	53.73	NNE
1/13/2022	30.34	53.68	SW
1/17/2022	30.14	52.96	NNW
1/18/2022	30.24	50.46	WSW
1/19/2022	30.33	49.91	SSE
1/20/2022	30.39	48.95	SSW
1/24/2022	30.17	52.99	SSW
1/25/2022	30.14	49.25	North
1/26/2022	30.23	50.72	South
1/27/2022	30.30	53.75	ESE
1/31/2022	30.10	51.59	South

Notes:

Data collected using wunderground.com from APTIM HPNS - KCASANFR1504

°F = degree Fahrenheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

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ATTACHMENT 2

ASBESTOS MONITORING RESULTS

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Attachment 2: Asbestos Monitoring Results

Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date ¹	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm ³)	Exceedance (Yes/No)
MSE01-010322	01/03/22	1	476	952	57.0	0.029	No
MSE02-010322	01/03/22	2	296	592	12.5	0.010	No
MSE01-010422	01/04/22	1	457	914	11.0	0.006	No
MSE02-010422	01/04/22	2	439	878	13.5	0.008	No
MSE01-010522	01/05/22	1	491	982	13.5	0.007	No
MSE02-010522	01/05/22	2	532	1064	16.5	0.008	No
MSE01-010622	01/06/22	1	446	892	13.0	0.007	No
MSE02-010622	01/06/22	2	449	898	16.5	0.009	No
MSE01-011022	01/10/22	1	446	892	11.0	0.006	No
MSE02-011022	01/10/22	2	472	944	14.0	0.007	No
MSE01-011122	01/11/22	1	466	932	17.0	0.009	No
MSE02-011122	01/11/22	2	489	978	18.0	0.009	No
MSE01-011222	01/12/22	1	513	1026	15.5	0.007	No
MSE02-011222	01/12/22	2	528	1056	16.0	0.007	No
MSE01-011322	01/13/22	1	438	876	16.5	0.009	No
MSE02-011322	01/13/22	2	440	880	15.5	0.009	No
MSE01-011722	01/17/22	1	470	940	14.0	0.007	No
MSE02-011722	01/17/22	2	494	988	15.5	0.008	No
MSE01-011822	01/18/22	1	454	908	13.5	0.007	No
MSE02-011822	01/18/22	2	475	950	13.5	0.007	No
MSE01-011922	01/19/22	1	497	994	11.5	0.006	No
MSE02-011922	01/19/22	2	503	1006	10.0	0.005	No
MSE01-012022	01/20/22	1	510	1020	15.0	0.007	No
MSE02-012022	01/20/22	2	498	996	13.0	0.006	No
MSE01-012422	01/24/22	1	489	978	20.5	0.010	No
MSE02-012422	01/24/22	2	526	1052	17.0	0.008	No
MSE01-012522	01/25/22	1	517	1034	11.0	0.005	No
MSE02-012522	01/25/22	2	533	1066	17.5	0.008	No
MSE01-012622	01/26/22	1	596	992	11.0	0.005	No
MSE02-012622	01/26/22	2	537	1074	10.5	0.005	No
MSE01-012722	01/27/22	1	481	962	17.0	0.009	No
MSE02-012722	01/27/22	2	478	956	15.0	0.008	No
MSE01-013122	01/31/22	1	509	1018	14.0	0.007	No
MSE02-013122	01/31/22	2	537	1074	14.5	0.007	No

Notes:

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

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

L = liter

min = minutes

fibers/cm³ = fibers per cubic centimeter

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

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

Sample, Date and Station Information			Sampler Run Information	PM10						
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concentration in Air (mg/m ³)	Delta between Downwind and Upwind (mg/m ³)	Delta between Downwind and Upwind (ug/m ³)	Cal/OSHA PEL (ug/m ³)	Exceedance (Yes/No)	HERO Action Level ⁴ (ug/m ³)	Exceedance (Yes/No)
GILBANEPM120921-1645	1	1/4/2022	1695.94	0.0038						
GILBANEPM120921-1644	2	1/4/2022	1715.42	0.0085	0.0047	4.7	5,000	No	50	No
GILBANEPM120921-1647	1	1/5/2022	1738.47	0.0091						
GILBANEPM120921-1648	2	1/5/2022	1713.43	0.010	0.0009	0.9	5,000	No	50	No
GILBANEPM120921-1650	1	1/6/2022 ^{3,5}	852.24	0.008						
GILBANEPM120921-1651	2	1/6/2022 ^{3,5}	1060.62	0.0082	-0.0002	-0.2	5,000	No	50	No
GILBANEPM120921-1653	1	1/6/2022 ²	513.38	0.015						
GILBANEPM120921-1654	2	1/6/2022 ²	547.96	0.015	0.0000	0.0	5,000	No	50	No
GILBANEPM120921-1656	1	1/11/2022	1722.55	0.020						
GILBANEPM120921-1657	2	1/11/2022	1724.51	0.021	0.0010	1.0	5,000	No	50	No
GILBANEPM121421-1659	1	1/12/2022 ⁵	1747.12	0.025						
GILBANEPM121421-1660	2	1/12/2022 ⁵	1736.25	0.022	0.0030	3.0	5,000	No	50	No
GILBANEPM121421-1662	1	1/13/2022	1763.03	0.044						
GILBANEPM121421-1663	2	1/13/2022	1747.85	0.042	-0.0020	-2.0	5,000	No	50	No
GILBANEPM121421-1665	1	1/13/2022 ²	533.24	0.051						
GILBANEPM121421-1666	2	1/13/2022 ²	534.28	0.055	0.0040	4.0	5,000	No	50	No
GILBANEPM121421-1668	1	1/18/2022	1705.50	0.022						
GILBANEPM121421-1669	2	1/18/2022	1706.90	0.018	-0.0040	-4.0	5,000	No	50	No
GILBANEPM121421-1671	1	1/19/2022	1767.88	0.018						
GILBANEPM121421-1672	2	1/19/2022	1752.06	0.015	-0.0030	-3.0	5,000	No	50	No
GILBANEPM010422-1694	1	1/20/2022	1749.26	0.014						
GILBANEPM010422-1695	2	1/20/2022	1723.91	0.013	-0.0010	-1.0	5,000	No	50	No
GILBANEPM010422-1697	1	1/20/2022 ²	584.30	0.023						
GILBANEPM010422-1698	2	1/20/2022 ²	597.72	0.016	-0.0070	-7.0	5,000	No	50	No
GILBANEPM010422-1700	1	1/25/2022 ⁵	1703.96	0.034						
GILBANEPM010422-1701	2	1/25/2022 ⁵	1706.54	0.033	0.0010	1.0	5,000	No	50	No
GILBANEPM010422-1703	1	1/26/2022	1747.32	0.031						
GILBANEPM010422-1704	2	1/26/2022 ⁵	1733.21	0.027	-0.0040	-4.0	5,000	No	50	No
GILBANEPM010422-1706	1	1/27/2022	1738.40	0.041						
GILBANEPM010422-1707	2	1/27/2022	1726.69	0.041	0.0000	0.0	5,000	No	50	No
GILBANEPM010422-1709	1	1/27/2022 ²	575.18	0.035						
GILBANEPM010422-1710	2	1/27/2022 ²	572.23	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.

³Generator malfunction

⁴PM10 data is additionally compared to the recommended dust action level of 50 ug/m3 for total PM10 in accordance with the DTSC Human and Ecological Risk Office (HERO) Parcel E Memorandum dated April 29, 2019 (DTSC, 2019) for informational purposes only.

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

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

m³ = cubic meters

mg/m³ = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter smaller than 10 microns in diameter

ug/m³ = micrograms per cubic meter

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ATTACHMENT 4

COPPER, LEAD, AND MANGANESE MONITORING RESULTS

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Attachment 4: Copper, Lead, and Manganese Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Copper		Lead		Manganese	
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)	Concentration in Air (mg/m ³)	Exceedance (Yes/No)
GILBANEPM120921-1645	1	1/4/2022	1695.94	0.000033	No	0.00000087	No	0.0000034	No
GILBANEPM120921-1644	2	1/4/2022	1715.42	0.0003	No	0.00000074	No	0.0000016	No
GILBANEPM120921-1647	1	1/5/2022	1738.47	0.00007	No	0.00000036 J	No	0.0000014	No
GILBANEPM120921-1648	2	1/5/2022	1713.43	0.00017	No	0.00000034 J	No	0.0000008	No
GILBANEPM120921-1650	1	1/6/2022 ³	852.24	0.00021	No	0.00000062 J	No	0.0000024	No
GILBANEPM120921-1651	2	1/6/2022 ³	1060.62	0.00014	No	0.00000066 J	No	0.0000024	No
GILBANEPM120921-1653	1	1/6/2022 ²	513.38	0.0001	No	0.000001 J	No	0.0000027	No
GILBANEPM120921-1654	2	1/6/2022 ²	547.96	0.0001	No	0.00000092 J	No	0.000002 J	No
GILBANEPM120921-1656	1	1/11/2022	1722.55	0.0001	No	0.0000028	No	0.0000069	No
GILBANEPM120921-1657	2	1/11/2022	1724.51	0.00038	No	0.0000026	No	0.0000053	No
GILBANEPM121421-1659	1	1/12/2022	1747.12	0.00021	No	0.0000039	No	0.000011	No
GILBANEPM121421-1660	2	1/12/2022	1736.25	0.00018	No	0.0000031	No	0.0000074	No
GILBANEPM121421-1662	1	1/13/2022	1763.03	0.00013	No	0.0000071	No	0.0000087	No
GILBANEPM121421-1663	2	1/13/2022	1747.85	0.00022	No	0.0000067	No	0.0000059	No
GILBANEPM121421-1665	1	1/13/2022 ²	533.24	0.000076	No	0.0000045	No	0.000014	No
GILBANEPM121421-1666	2	1/13/2022 ²	534.28	0.0003	No	0.0000051	No	0.0000098	No
GILBANEPM121421-1668	1	1/18/2022	1705.5	0.000087	No	0.0000026	No	0.0000069	No
GILBANEPM121421-1669	2	1/18/2022	1706.90	0.000024	No	0.0000024	No	0.0000042	No
GILBANEPM121421-1671	1	1/19/2022	1767.88	0.00014	No	0.0000014	No	0.0000043	No
GILBANEPM121421-1672	2	1/19/2022	1752.06	0.000073	No	0.00000095	No	0.0000026	No
GILBANEPM010422-1694	1	1/20/2022	1749.26	0.000083	No	0.0000011	No	0.0000035	No
GILBANEPM010422-1695	2	1/20/2022	1723.91	0.000031	No	0.00000083	No	0.0000026	No
GILBANEPM010422-1697	1	1/20/2022 ²	584.30	0.00022	No	0.0000037	No	0.000012	No
GILBANEPM010422-1698	2	1/20/2022 ²	597.72	0.00009	No	0.0000022	No	0.0000077	No
GILBANEPM010422-1700	1	1/25/2022	1703.96	0.00012	No	0.0000034	No	0.0000087	No
GILBANEPM010422-1701	2	1/25/2022	1706.54	0.000037	No	0.0000035	No	0.0000081	No
GILBANEPM010422-1703	1	1/26/2022	1747.32	0.00021	No	0.0000021	No	0.000006	No
GILBANEPM010422-1704	2	1/26/2022	1733.21	0.000035	No	0.0000014	No	0.0000037	No
GILBANEPM010422-1706	1	1/27/2022	1738.40	0.0002	No	0.0000034	No	0.00001	No
GILBANEPM010422-1707	2	1/27/2022	1726.69	0.0001	No	0.0000034	No	0.0000091	No
GILBANEPM010422-1709	1	1/27/2022 ²	575.18	0.000079	No	0.0000035	No	0.000012	No
GILBANEPM010422-1710	2	1/27/2022 ²	572.23	0.000077	No	0.0000033	No	0.0000093	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.

³Generator malfunction

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

m³ = cubic meters

mg/m³ = milligrams per cubic meter

< = below detection limit

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ATTACHMENT 5
TOTAL SUSPENDED PARTICULATES
MONITORING RESULTS

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Attachment 5: Total Suspended Particulates Monitoring Results

Sample, Date and Station Information			Sampler Run Information	Total Suspended Particulates			
Sample ID	Monitoring Station	Sample End Date ¹	Total Air Volume Monitored (m ³)	Concentration in Air (mg/m ³)	Delta between Downwind and Upwind (mg/m ³)	Basewide HPNS Level (mg/m ³)	Exceedance (Yes/No)
GILBANETSP120921-1645	1	1/4/2022	1633.22	0.0067352			
GILBANETSP120921-1644	2	1/4/2022	1736.11	0.0134208	0.007	0.5	No
GILBANETSP120921-1647	1	1/5/2022	1673.22	0.0136862			
GILBANETSP120921-1648	2	1/5/2022	1726.62	0.0167379	0.003	0.5	No
GILBANETSP120921-1650	1	1/6/2022 ^{3,4}	887.22	0.0105949			
GILBANETSP120921-1651	2	1/6/2022 ^{3,4}	1071.71	0.017822	0.007	0.5	No
GILBANETSP120921-1653	1	1/6/2022 ²	493.80	0.0164034			
GILBANETSP120921-1654	2	1/6/2022 ²	552.28	0.0210038	0.005	0.5	No
GILBANETSP120921-1656	1	1/11/2022	1667.84	0.0208054			
GILBANETSP120921-1657	2	1/11/2022	1725.09	0.0294477	0.009	0.5	No
GILBANETSP121421-1659	1	1/12/2022 ⁴	1673.85	0.0311258			
GILBANETSP121421-1660	2	1/12/2022 ⁴	1731.81	0.027428	-0.004	0.5	No
GILBANETSP121421-1662	1	1/13/2022	1688.60	0.0503968			
GILBANETSP121421-1663	2	1/13/2022	1758.47	0.047257	-0.003	0.5	No
GILBANETSP121421-1665	1	1/13/2022 ²	510.20	0.0572325			
GILBANETSP121421-1666	2	1/13/2022 ²	532.48	0.0614108	0.004	0.5	No
GILBANETSP121421-1668	1	1/18/2022	1627.93	0.0316353			
GILBANETSP121421-1669	2	1/18/2022	1706.04	0.0267872	-0.005	0.5	No
GILBANETSP121421-1671	1	1/19/2022	1689.78	0.0249145			
GILBANETSP121421-1672	2	1/19/2022	1749.95	0.0252579	0.000	0.5	No
GILBANETSP010422-1694	1	1/20/2022	1674.35	0.0208439			
GILBANETSP010422-1695	2	1/20/2022	1740.98	0.0133258	-0.008	0.5	No
GILBANETSP010422-1697	1	1/20/2022 ²	556.78	0.026761			
GILBANETSP010422-1698	2	1/20/2022 ²	605.08	0.0155351	-0.011	0.5	No
GILBANETSP010422-1700	1	1/25/2022 ⁴	1666.44	0.0308442			
GILBANETSP010422-1701	2	1/25/2022 ⁴	1725.14	0.0449819	0.014	0.5	No
GILBANETSP010422-1703	1	1/26/2022	1684.84	0.0366207			
GILBANETSP010422-1704	2	1/26/2022 ⁴	1751.88	0.0293399	-0.007	0.5	No
GILBANETSP010422-1706	1	1/27/2022	1675.91	0.0476756			
GILBANETSP010422-1707	2	1/27/2022	1636.41	0.050843	0.003	0.5	No
GILBANETSP010422-1709	1	1/27/2022 ²	554.22	0.0418606			
GILBANETSP010422-1710	2	1/27/2022 ²	578.29	0.0221342 J	-0.020	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.

³Generator malfunction

⁴Prevalent wind direction counter to normal conditions. Usual upwind and downwind stations reversed for this calculation.

Samples analyzed by Eurofins TestAmerica

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

m³ = cubic meters

mg/m³ = milligrams per cubic meter

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ATTACHMENT 6
AIR SAMPLING RESULTS –
PUBLIC EXPOSURE MONITORING

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Project Information									Effluent Air Concentration				Sampling Period				Color Codes					
Contract / Task Order Number: N62473-17-D-0005 / F4332			Project Title / Location: Parcel E RA HPNS, SF, CA			Gilbane Project Number: J310000400				Alpha	Beta	Air samples collected between 03 Jan 2022 and 31 Jan 2022				Value < 0.1 x Effluent Conc (i.e., < 10%)						
Information effective as of: 23 Feb 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-0381	Perimeter	MSE01	PE09	60	1/3/22 6:50	1/3/22 16:02	552	3.3E+07	D	01/10/22	1	cpm	0.15	4.20	0.4	8.5	5.7E-15	1.1E-13	0.6%	1.9%	BCS	CB
AS-0382	Perimeter	MSE02	PE10	60	1/3/22 6:38	1/3/22 16:00	562	3.4E+07	D	01/10/22	1	cpm	0.15	3.85	0.4	7.5	5.6E-15	1.0E-13	0.6%	1.7%	BCS	CB
AS-0384	Perimeter	MSE01	PE09	60	1/4/22 4:15	1/4/22 15:54	699	4.2E+07	D	01/10/22	1	cpm	0.30	3.05	0.8	5.2	9.0E-15	5.6E-14	1.0%	0.9%	BCS	CB
AS-0385	Perimeter	MSE02	PE10	60	1/4/22 4:30	1/4/22 15:38	668	4.0E+07	D	01/10/22	1	cpm	0.25	4.05	0.7	8.0	7.8E-15	9.0E-14	0.9%	1.5%	BCS	CB
AS-0387	Perimeter	MSE01	PE09	60	1/5/22 4:20	1/5/22 15:48	688	4.1E+07	D	01/10/22	1	cpm	0.20	3.05	0.6	5.2	6.1E-15	5.7E-14	0.7%	0.9%	BCS	CB
AS-0388	Perimeter	MSE02	PE10	60	1/5/22 4:10	1/5/22 15:49	699	4.2E+07	D	01/10/22	1	cpm	0.15	4.35	0.4	8.9	4.5E-15	9.5E-14	0.5%	1.6%	BCS	CB
AS-0390	Perimeter	MSE01	PE09	60	1/6/22 6:30	1/6/22 14:35	485	2.9E+07	D	01/10/22	1	cpm	0.25	4.95	0.7	10.6	1.1E-14	1.6E-13	1.2%	2.7%	BCS	CB
AS-0391	Perimeter	MSE02	PE10	60	1/6/22 4:00	1/6/22 14:43	643	3.9E+07	D	01/10/22	1	cpm	0.15	4.15	0.4	8.3	4.9E-15	9.7E-14	0.5%	1.6%	BCS	CB
AS-0393	Perimeter	MSE01	PE09	60	1/10/22 6:30	1/10/22 15:04	514	3.1E+07	D	01/19/22	1	cpm	0.20	4.60	0.6	9.6	8.1E-15	1.4E-13	0.9%	2.3%	BCS	CB
AS-0394	Perimeter	MSE02	PE10	60	1/10/22 6:40	1/10/22 15:15	515	3.1E+07	D	01/19/22	1	cpm	0.10	4.90	0.3	10.4	4.1E-15	1.5E-13	0.5%	2.5%	BCS	CB
AS-0396	Perimeter	MSE01	PE09	60	1/11/22 4:22	1/11/22 15:41	679	4.1E+07	D	01/19/22	1	cpm	0.30	5.10	0.8	11.0	9.2E-15	1.2E-13	1.0%	2.0%	BCS	CB
AS-0397	Perimeter	MSE02	PE10	60	1/11/22 4:10	1/11/22 15:35	685	4.1E+07	D	01/19/22	1	cpm	0.20	5.40	0.6	11.8	6.1E-15	1.3E-13	0.7%	2.2%	BCS	CB
AS-0399	Perimeter	MSE01	PE09	60	1/12/22 4:30	1/12/22 15:56	686	4.1E+07	D	01/19/22	1	cpm	0.20	5.75	0.6	12.8	6.1E-15	1.4E-13	0.7%	2.3%	BCS	CB
AS-0400	Perimeter	MSE02	PE10	60	1/12/22 4:10	1/12/22 16:00	710	4.3E+07	D	01/19/22	1	cpm	0.15	4.40	0.4	9.0	4.4E-15	9.5E-14	0.5%	1.6%	BCS	CB
AS-0402	Perimeter	MSE01	PE09	60	1/13/22 4:20	1/13/22 14:45	625	3.8E+07	D	01/19/22	1	cpm	0.25	5.35	0.7	11.7	8.4E-15	1.4E-13	0.9%	2.3%	BCS	CB
AS-0403	Perimeter	MSE02	PE10	60	1/13/22 4:05	1/13/22 15:00	655	3.9E+07	D	01/19/22	1	cpm	0.30	5.35	0.8	11.7	9.6E-15	1.3E-13	1.1%	2.2%	BCS	CB
AS-0405	Perimeter	MSE01	PE09	60	1/17/22 7:05	1/17/22 15:32	507	3.0E+07	D	01/24/22	1	cpm	0.00	5.65	0.0	12.5	0.0E+00	1.9E-13	0.0%	3.1%	BCS	CB
AS-0406	Perimeter	MSE02	PE10	60	1/17/22 7:21	1/17/22 15:22	481	2.9E+07	D	01/24/22	1	cpm	0.10	5.55	0.3	12.3	4.3E-15	1.9E-13	0.5%	3.2%	BCS	CB
AS-0408	Perimeter	MSE01	PE09	60	1/18/22 4:30	1/18/22 15:46	676	4.1E+07	D	01/24/22	1	cpm	0.10	4.75	0.3	10.0	3.1E-15	1.1E-13	0.3%	1.9%	BCS	CB
AS-0409	Perimeter	MSE02	PE10	60	1/18/22 4:10	1/18/22 14:45	635	3.8E+07	D	01/24/22	1	cpm	0.15	4.35	0.4	8.9	4.9E-15	1.0E-13	0.5%	1.7%	BCS	CB
AS-0411	Perimeter	MSE01	PE09	60	1/19/22 4:20	1/19/22 15:02	642	3.9E+07	D	01/24/22	1	cpm	0.30	4.65	0.8	9.7	9.8E-15	1.1E-13	1.1%	1.9%	BCS	CB
AS-0412	Perimeter	MSE02	PE10	60	1/19/22 4:10	1/19/22 15:40	690	4.1E+07	D	01/24/22	1	cpm	0.10	3.35	0.3	6.1	3.0E-15	6.6E-14	0.3%	1.1%	BCS	CB
AS-0414	Perimeter	MSE01	PE09	60	1/20/22 4:10	1/20/22 15:00	650	3.9E+07	D	01/24/22	1	cpm	0.10	5.40	0.3	11.8	3.2E-15	1.4E-13	0.4%	2.3%	BCS	CB
AS-0415	Perimeter	MSE02	PE10	60	1/20/22 4:00	1/20/22 15:10	670	4.0E+07	D	01/24/22	1	cpm	0.15	4.25	0.4	8.6	4.7E-15	9.6E-14	0.5%	1.6%	BCS	CB
AS-0417	Perimeter	MSE01	PE09	60	1/24/22 6:35	1/24/22 15:30	535	3.2E+07	D	01/31/22	1	cpm	0.15	6.40	0.4	14.6	5.9E-15	2.1E-13	0.7%	3.4%	BCS	CB
AS-0418	Perimeter	MSE02	PE10	60	1/24/22 6:45	1/24/22 15:41	536	3.2E+07	D	01/31/22	1	cpm	0.10	4.55	0.3	9.4	3.9E-15	1.3E-13	0.4%	2.2%	BCS	CB
AS-0420	Perimeter	MSE01	PE09	60	1/25/22 4:20	1/25/22 16:16	716	4.3E+07	D	01/31/22	1	cpm	0.30	4.85	0.8	10.3	8.8E-15	1.1E-13	1.0%	1.8%	BCS	CB
AS-0421	Perimeter	MSE02	PE10	60	1/25/22 4:10	1/25/22 15:09	659	4.0E+07	D	01/31/22	1	cpm	0.10	4.80	0.3	10.1	3.2E-15	1.2E-13	0.4%	1.9%	BCS	CB
AS-0423	Perimeter	MSE01	PE09	60	1/26/22 4:10	1/26/22 15:29	679	4.1E+07	D	01/31/22	1	cpm	0.10	5.05	0.3	10.8	3.1E-15	1.2E-13	0.3%	2.0%	BCS	CB
AS-0424	Perimeter	MSE02	PE10	60	1/26/22 4:00	1/26/22 15:19	679	4.1E+07	D	01/31/22	1	cpm	0.15	4.95	0.4	10.6	4.6E-15	1.2E-13	0.5%	1.9%	BCS	CB
AS-0426	Perimeter	MSE01	PE09	60	1/27/22 4:10	1/27/22 15:10	660	4.0E+07	D	01/31/22	1	cpm	0.15	5.75	0.4	12.8	4.8E-15	1.5E-13	0.5%	2.4%	BCS	CB
AS-0427	Perimeter	MSE02	PE10	60	1/27/22 4:00	1/27/22 15:13	673	4.0E+07	D	01/31/22	1	cpm	0.50	6.70	1.4	15.5	1.6E-14	1.7E-13	1.7%	2.9%	BCS	CB
AS-0429	Perimeter	MSE01	PE09	60	1/31/22 6:37	1/31/22 15:50	553	3.3E+07	D	02/07/22	1	cpm	0.30	6.30	0.8	14.4	1.1E-14	2.0E-13	1.3%	3.3%	BCS	CB

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ATTACHMENT 7

LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 22010420



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 : 01/06/2022 10:55
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
MSE01-010322	1/3/2022 16:02	Cassette	22010420.01
MSE02-010322	1/3/2022 16:01	Cassette	22010420.02
MSE03-010322	1/3/2022 16:05	Cassette	22010420.03

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

Analyst: [REDACTED]

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

ab-q210-0321

1/13/2022



**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 1/13/2022

Job ID : 22010420
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
22010420.01	MSE01-010322	01/03/2022	Area	2			476	952	100	57.0	72.611	0.029		01/13/22	[REDACTED]
22010420.02	MSE02-010322	01/03/2022	Area	2			296	592	100	12.5	15.924	0.010		01/13/22	[REDACTED]
22010420.03	MSE03-010322	01/03/2022	Area	2			524	1048	100	21.5	27.389	0.010		01/13/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22010420	Date Received : 01/06/2022	Time Received : 10:55AM		
Client Name : GES - ASRC Industrial				
Temperature : 22.2°C	Sample pH : NA			
Thermometer ID : IR1	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, however received in box w/ seal. TG 01-06-2022

Received by : ██████████

Check in by/date : CHendrix / 01/06/2022

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 Date: 1/4/2022
 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:		Total Time (min)	Special Instructions/Comments
							Asbestos	Preservative:		
MSE01-010322	1/3/2022	1602	NA	NA	1	AA	X	None	476	01A
MSE02-010322	1/3/2022	1601	NA	NA	1	AA	X	None	296	02A
MSE03-010322	1/3/2022	1605	NA	NA	1	AA	X	None	524	03A
Job ID: 22010420 01/06/2022 GES - ASRC Industrial ACH										

Sampled By: [REDACTED] Sampler: [REDACTED] Courier/Airbill No.: FedEx/ 7756 5806 4283

Signature: [REDACTED] Relinquished By/Affiliation: [REDACTED] / Gilbane Date: 1/4/22 Time: 1600 Received By/ Affiliation: Fedex Date: 1/4/22 Time: 1600

Special Instructions: TP FEDEX 1-10-22 [REDACTED] 1-10-22 1055

Send Results to: [REDACTED]

Turnaround Time: Standard

TEMP: 20.2°C

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

SHIP DATE: 04JAN22
ACTWGT: 1.00 LB
CAD: 254128867/INET4400

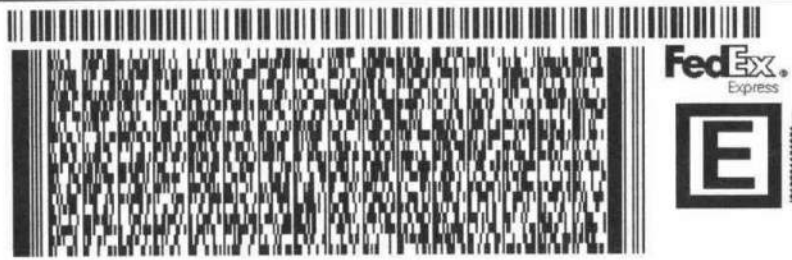
BILL SENDER

TO
A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000.400.00.18.04

INV PO DEPT



56D.J201EFFE4A

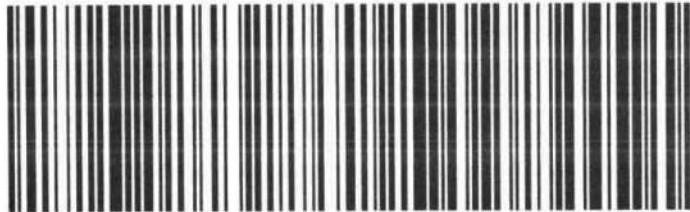
WED - 05 JAN 4:30P

STANDARD OVERNIGHT

TRK# 7756 5806 4283
0201

UL HBYA

TX-US 77029 IAH



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CUSTOMER SEAL

CUSTOMER SEAL
Gith

Laboratory Analysis Report

Job ID : 22010666



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 : 01/10/2022 08:50
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
MSE01-010422	1/4/2022 15:40	Cassette	22010666.01
MSE02-010422	1/4/2022 15:50	Cassette	22010666.02
MSE03-010422	1/4/2022 15:58	Cassette	22010666.03
MSE01-010522	1/5/2022 15:43	Cassette	22010666.04
MSE02-010522	1/5/2022 15:55	Cassette	22010666.05
MSE03-010522	1/5/2022 15:49	Cassette	22010666.06

[REDACTED]
Released By:

Title: Vice President Operations

Analyst: [REDACTED]

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ab-q210-0321

1/18/2022



**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 # 30080**

Date 1/18/2022

Job ID : 22010666
 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
22010666.01	MSE01-010422	01/04/2022	Area	2			457	914	100	11	14.013	0.006		01/17/22	[REDACTED]
22010666.02	MSE02-010422	01/04/2022	Area	2			439	878	100	13.5	17.197	0.008		01/17/22	[REDACTED]
22010666.03	MSE03-010422	01/04/2022	Area	2			442	884	100	12	15.287	0.007		01/17/22	[REDACTED]
22010666.04	MSE01-010522	01/05/2022	Area	2			491	982	100	13.5	17.197	0.007		01/17/22	[REDACTED]
22010666.05	MSE02-010522	01/05/2022	Area	2			532	1064	100	16.5	21.019	0.008		01/17/22	[REDACTED]
22010666.06	MSE03-010522	01/05/2022	Area	2			512	1024	100	14.5	18.471	0.007		01/17/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22010666	Date Received : 01/10/2022	Time Received : 8:50AM
Client Name : GES - ASRC Industrial		
Temperature : 18.6°C	Sample pH : n/a	
Thermometer ID : IR1	pH Paper ID : n/a	
Perservative :		
	Check Points	Yes No N/A
1.	Cooler Seal present and signed.	X
2.	Sample(s) in a cooler.	X
3.	If yes, ice in cooler.	X
4.	Sample(s) received with chain-of-custody.	X
5.	C-O-C signed and dated.	X
6.	Sample(s) received with signed sample custody seal.	X
7.	Sample containers arrived intact. (If No comment)	X
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
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. TG 01-10-2022

Received by : ██████████

Check in by/date : TGillespie / 01/10/2022

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 Date: 1/6/2022
 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:		Total Time (min)	Special Instructions/Comments
							Asbestos	Preservative:		
MSE01-010422	1/4/2022	1540	NA	NA	1	AA	X		457	01A
MSE02-010422	1/4/2022	1550	NA	NA	1	AA	X		439	02A
MSE03-010422	1/4/2022	1558	NA	NA	1	AA	X		442	03A
MSE01-010522	1/5/2022	1543	NA	NA	1	AA	X		491	04A
MSE02-010522	1/5/2022	1555	NA	NA	1	AA	X		532	05A
MSE03-010522	1/5/2022	1549	NA	NA	1	AA	X		512	06A

Job ID: 22010666



01/10/2022 GES - ASRC Industrial ACH

TP

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7756 7380 4772	
Signature: <u>[Redacted]</u>	Relinquished by/Affiliation: <u>[Redacted]</u>	Date: <u>1/6/22</u> Time: <u>1600</u>	Received By/ Affiliation: <u>Fedex</u> Date: <u>1/6/22</u> Time: <u>1600</u>
Special Instructions: _____	<u>FedEx 1-10-22</u>	<u>[Redacted]</u>	<u>1-10-22 0850</u>
Send Results to: <u>[Redacted]</u>			
Turnaround Time: <u>Standard</u>			

TEMP: 18.6 °C

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 06JAN22
ACTWTGHT: 1.00 LB
CAD: 25412867NET4400

BILL SENDER

TO [REDACTED]

A & B LABS

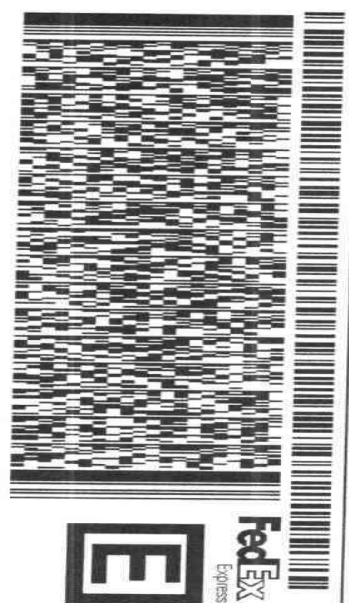
10100 EAST FREEMWAY, SUITE 100

HOUSTON TX 77029

REF: 431000 400.00 1804

PO [REDACTED] DEPT [REDACTED]

56DJ2/01EF/FE4A



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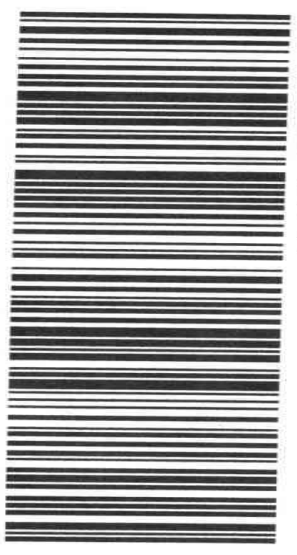
FRI - 07 JAN 4:30P

STANDARD OVERNIGHT

TRK# 7756 8638 0244
0201

ULHBYA

77029
TX:US IAH



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CUSTODY SEAL

Laboratory Analysis Report

Job ID : 22011089



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 : 01/13/2022 10:18
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
MSE01-010622	1/6/2022 14:41	Cassette	22011089.01
MSE02-010622	1/6/2022 14:47	Cassette	22011089.02
MSE03-010622	1/6/2022 14:57	Cassette	22011089.03
MSE01-011022	1/10/2022 15:16	Cassette	22011089.04
MSE02-011022	1/10/2022 15:27	Cassette	22011089.05
MSE03-011022	1/10/2022 15:33	Cassette	22011089.06

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

Analyst: [REDACTED]

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ab-q210-0321

1/19/2022



**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 1/19/2022

Job ID : 22011089
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
22011089.01	MSE01-010622	01/06/2022	Area	2			446	892	100	13	16.561	0.007		01/19/22	[REDACTED]
22011089.02	MSE02-010622	01/06/2022	Area	2			449	898	100	16.5	21.019	0.009		01/19/22	[REDACTED]
22011089.03	MSE03-010622	01/06/2022	Area	2			475	950	100	12	15.287	0.006		01/19/22	[REDACTED]
22011089.04	MSE01-011022	01/10/2022	Area	2			446	892	100	11	14.013	0.006		01/19/22	[REDACTED]
22011089.05	MSE02-011022	01/10/2022	Area	2			472	944	100	14	17.834	0.007		01/19/22	[REDACTED]
22011089.06	MSE03-011022	01/10/2022	Area	2			504	1008	100	12.5	15.924	0.006		01/19/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22011089	Date Received : 01/13/2022	Time Received : 10:18AM		
Client Name : GES - ASRC Industrial				
Temperature : 16.4°C	Sample pH : NA			
Thermometer ID : IR1	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:
 Recieved samples in black cassettes. No cooler received, however received in a box with custody seal.

Received by : ██████████

Check in by/date : Jedralin / 01/13/2022

ab-s005-0321

Phone : ██████████

www.ablabs.com



Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400
 Project Manager: [Redacted]
 Site Location: Hunters Point, San Francisco, CA 94124

Laboratory Name: A&B Labs
 Address: 10100 East Fwy Ste. 100 Houston TX 77029
 Contact Name: [Redacted]
 Date: 1/11/2022
 Page: 1 of 1

Job ID:22011089



01/13/2022 GES - ASRC Industrial ACH

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Total Time (min)
							Asbestos	Preservative:	
							None	Filter	Flow Rate = 2 L/min
									Special Instructions/Comments
MSE01-010622	1/6/2022	1441	NA	NA	1	AA	X		446
MSE02-010622	1/6/2022	1447	NA	NA	1	AA	X		449
MSE03-010622	1/6/2022	1457	NA	NA	1	AA	X		475
MSE01-011022	1/10/2022	1516	NA	NA	1	AA	X		446
MSE02-011022	1/10/2022	1527	NA	NA	1	AA	X		472
MSE03-011022	1/10/2022	1533	NA	NA	1	AA	X		504

TP

Sampled By: [Redacted]
 Signature: [Redacted]
 Special Instructions: _____

Sampler: [Redacted]
 Relinquished: [Redacted]
 Date: 1/11/22 Time: 1600

Courier/Airbill No.: FedEx/ 7757 1840 8055
 Received By/ Affiliation: Fedex
 Date: 1/11/22 Time: 1600
 Date: 1/13/22 Time: 1018

Send Results to: [Redacted]
 Turnaround Time: Standard

Temp: 16.4
 ID: FR 1 B/L

ORIGIN ID: JCCA

SHIP DATE: 11JAN22
ACTWGT: 1.00 LB
CAD: 254128867/NET4400

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

BILL SENDER

TO

A & B LABS

10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000 400 00 18 04

INV
PO

DEPT



FedEx
Express



21221111810101

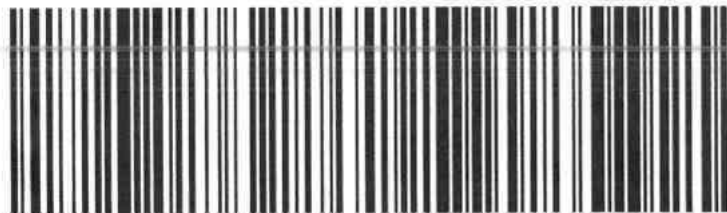
56D1201EF/FE4A

WED - 12 JAN 4:30P
STANDARD OVERNIGHT

TRK# 7757 2472 7960
0201

UL HBYA

77029
TX-US IAH



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Laboratory Analysis Report

Job ID : 22011349



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: 6
Attn: [REDACTED] P.O.#. : J310000400-015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 01/17/2022 09:50
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
MSE01-011122	1/11/2022 15:15	Cassette	22011349.01
MSE02-011122	1/11/2022 15:26	Cassette	22011349.02
MSE03-011122	1/11/2022 15:33	Cassette	22011349.03
MSE01-011222	1/12/2022 15:54	Cassette	22011349.04
MSE02-011222	1/12/2022 16:00	Cassette	22011349.05
MSE03-011222	1/12/2022 16:01	Cassette	22011349.06

[REDACTED]

Title: Project Manager

Analyst: [REDACTED]

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ab-q210-0321



Laboratory Report: Case Narrative

A&B Job ID: 22011349

Date: 02/16/22

Client Name: GES - ASRC Industrial

Attn: [REDACTED]

Project Name: HPNS Parcel E Phase II J310000400

Date Received: 01/17/22

Collected By: [REDACTED]

REVISED REPORT -

The attached report is revised to update the sample IDs for samples 22011349.04, 22011349.05, and 22011349.06 per the coc.



Title: Project Manager



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

Date 2/16/2022

Job ID : 22011349
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
22011349.01	MSE01-011122	01/11/2022	Area	2			466	932	100	17.0	21.656	0.009		01/24/22	[REDACTED]
22011349.02	MSE02-011122	01/11/2022	Area	2			489	978	100	18.0	22.930	0.009		01/24/22	[REDACTED]
22011349.03	MSE03-011122	01/11/2022	Area	2			506	1012	100	18.5	23.567	0.009		01/24/22	[REDACTED]
22011349.04	MSE01-011222	01/12/2022	Area	2			513	1026	100	15.5	19.745	0.007		01/24/22	[REDACTED]
22011349.05	MSE02-011222	01/12/2022	Area	2			528	1056	100	16.0	20.382	0.007		01/24/22	[REDACTED]
22011349.06	MSE03-011222	01/12/2022	Area	2			535	1070	100	17.0	21.656	0.008		01/24/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22011349	Date Received : 01/17/2022	Time Received : 9:50AM		
Client Name : GES - ASRC Industrial				
Temperature : 21.3°C	Sample pH : NA			
Thermometer ID : IR1	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

Black Cassettes. No cooler was received; however, sample were in a box with a custody seal.

Received by : ██████████

Check in by/date : Jedralin / 01/17/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II 1310000400 Laboratory Name: A&B Labs Date: 1/13/2022
 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:		Total Time (min)	Special Instructions/Comments
							Asbestos	Preservative:		
							None		Flow Rate = 2 L/min	
							Container Type:			
							Filter			
MSE01-011122	1/11/2022	1515	NA	NA	1	AA	X		466	01A
MSE02-011122	1/11/2022	1526	NA	NA	1	AA	X		489	02A
MSE03-011122	1/11/2022	1533	NA	NA	1	AA	X		506	03A
MSE01-011222	1/12/2022	1554	NA	NA	1	AA	X		513	04A
MSE02-011222	1/12/2022	1600	NA	NA	1	AA	X		528	05A
MSE03-011222	1/12/2022	1601	NA	NA	1	AA	X		535	06A

Job ID:22011349



01/17/2022 GES - ASRC Industrial ACH

Sample: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7757 4231 5140			
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted] / Gilbane</u>	Date: <u>V13/22</u>	Time: <u>1600</u>	Received By/ Affiliation: <u>Fedex</u>	Date: <u>1/13/22</u> Time: <u>1600</u>
Special Instructions: _____	<u>FEDEX</u>			<u>[Redacted]</u>	<u>1/17/22 0950</u>
Send Results to: <u>[Redacted]</u>					
Turnaround Time: <u>Standard</u>				<u>21.3°C</u>	<u>IR1</u>

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 13JAN22
ACTWGT: 1.00 LB
CAD: 254128867/INET4400

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000 400 00 18 04

PO

DEPT



560.J201EF/FE4A

FRI - 14 JAN 4:30P

STANDARD OVERNIGHT

TRK# 7757 4892 3338
0201

UL HBYA

77029
TX-US IAH



CUSTODY SEAL



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

Gilbane

Signature and initials

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Laboratory Analysis Report

Job ID : 22011686



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 : 01/19/2022 16:32
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
MSE01-011322	1/13/2022 14:55	Cassette	22011686.01
MSE02-011322	1/13/2022 14:43	Cassette	22011686.02
MSE03-011322	1/13/2022 14:38	Cassette	22011686.03
MSE01-011722	1/17/2022 15:32	Cassette	22011686.04
MSE02-011722	1/17/2022 15:32	Cassette	22011686.05
MSE03-011722	1/17/2022 15:28	Cassette	22011686.06

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

Analyst: [REDACTED]

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ab-q210-0321

1/26/2022



**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 1/26/2022

Job ID : 22011686
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
22011686.01	MSE01-011322	01/13/2022	Area	2			438	876	100	16.5	21.019	0.009		01/26/22	[REDACTED]
22011686.02	MSE02-011322	01/13/2022	Area	2			440	880	100	15.5	19.745	0.009		01/26/22	[REDACTED]
22011686.03	MSE03-011322	01/13/2022	Area	2			440	880	100	18.0	22.930	0.010		01/26/22	[REDACTED]
22011686.04	MSE01-011722	01/17/2022	Area	2			470	940	100	14.0	17.834	0.007		01/26/22	[REDACTED]
22011686.05	MSE02-011722	01/17/2022	Area	2			494	988	100	15.5	19.745	0.008		01/26/22	[REDACTED]
22011686.06	MSE03-011722	01/17/2022	Area	2			501	1002	100	14.5	18.471	0.007		01/26/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22011686	Date Received : 01/19/2022	Time Received : 4:32PM		
Client Name : GES - ASRC Industrial				
Temperature : 21.9°C	Sample pH : n/a			
Thermometer ID : IR1	pH Paper ID : n/a			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
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. TG 01-19-22

Received by : ██████████

Check in by/date : TGillespie / 01/19/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 1/18/2022
 Project Manager: [REDACTED] Address: 10100 East Fwy Ste. 100 Contact Name: [REDACTED] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22011686



01/19/2022 GES - ASRC Industrial ACH

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Total Time (min)	Special Instructions/Comments
							Asbestos	Preservative:		
MSE01-011322	1/13/2022	1455	NA	NA	1	AA	X		438	01A
MSE02-011322	1/13/2022	1443	NA	NA	1	AA	X		440	02A
MSE03-011322	1/13/2022	1438	NA	NA	1	AA	X		440	03A
MSE01-011722	1/17/2022	1532	NA	NA	1	AA	X		470	04A
MSE02-011722	1/17/2022	1532	NA	NA	1	AA	X		494	05A
MSE03-011722	1/17/2022	1528	NA	NA	1	AA	X		501	06A

TP

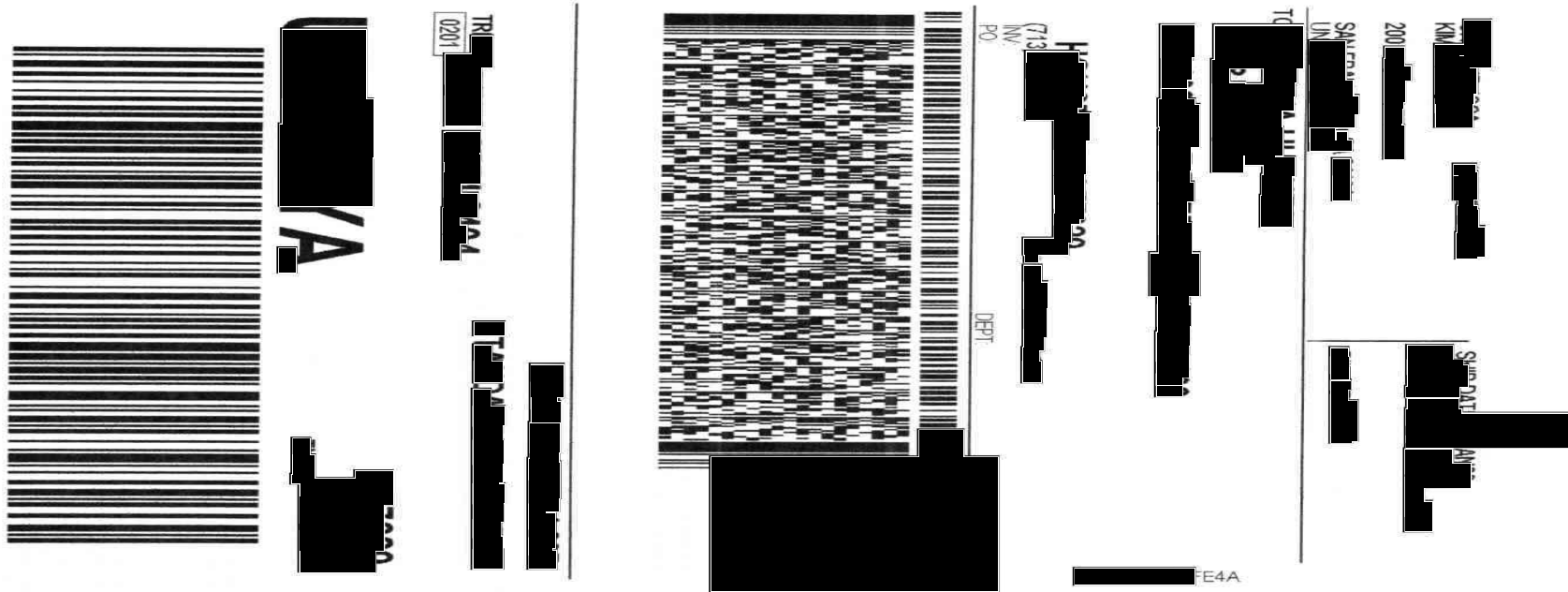
Sampled By: [REDACTED] Sampler: [REDACTED] Courier/Airbill No.: FedEx/ 7757 8459 5415

Relinquished By/Affiliation:	Date:	Time:	Received By/ Affiliation:	Date:	Time:
<u>[REDACTED] / Gilbane</u>	<u>1/18/22</u>	<u>1600</u>	<u>Fedex</u>	<u>1/18/22</u>	<u>1600</u>
	<u>1-19-22</u>		<u>[Signature]</u>	<u>1-19-22</u>	<u>1632</u>

Special Instructions: _____

Turnaround Time: Standard

TEMP: 21.9 C IPM



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Laboratory Analysis Report

Job ID : 22012068



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 : 01/24/2022 11:18
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
MSE01-011822	1/18/2022 14:45	Cassette	22012068.01
MSE02-011822	1/18/2022 14:55	Cassette	22012068.02
MSE03-011822	1/18/2022 15:00	Cassette	22012068.03
MSE01-011922	1/19/2022 15:45	Cassette	22012068.04
MSE02-011922	1/19/2022 15:40	Cassette	22012068.05
MSE03-011922	1/19/2022 15:41	Cassette	22012068.06

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

Analyst: [REDACTED]

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ab-q210-0321

1/31/2022



**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 1/31/2022

Job ID : 22012068
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
22012068.01	MSE01-011822	01/18/2022	Area	2			454	908	100	13.5	17.197	0.007		01/31/22	[REDACTED]
22012068.02	MSE02-011822	01/18/2022	Area	2			475	950	100	13.5	17.197	0.007		01/31/22	[REDACTED]
22012068.03	MSE03-011822	01/18/2022	Area	2			491	982	100	11.5	14.650	0.006		01/31/22	[REDACTED]
22012068.04	MSE01-011922	01/19/2022	Area	2			497	994	100	11.5	14.650	0.006		01/31/22	[REDACTED]
22012068.05	MSE02-011922	01/19/2022	Area	2			503	1006	100	10.0	12.739	0.005		01/31/22	[REDACTED]
22012068.06	MSE03-011922	01/19/2022	Area	2			520	1040	100	12.0	15.287	0.006		01/31/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22012068	Date Received : 01/24/2022	Time Received : 11:18AM
Client Name : GES - ASRC Industrial		
Temperature : 22.5°C	Sample pH : n/a	
Thermometer ID : IR1	pH Paper ID : n/a	
Perservative :		
	Check Points	Yes No N/A
1.	Cooler Seal present and signed.	X
2.	Sample(s) in a cooler.	X
3.	If yes, ice in cooler.	X
4.	Sample(s) received with chain-of-custody.	X
5.	C-O-C signed and dated.	X
6.	Sample(s) received with signed sample custody seal.	X
7.	Sample containers arrived intact. (If No comment)	X
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
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. TG 01-24-2022

Received by : ██████████

Check in by/date : ██████████ / 01/24/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 1/20/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22012068



01/24/2022 GES - ASRC Industrial ACH

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:		Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	
MSE01-011822	01A	1/18/2022	1445	NA	NA	1	AA	X	454
MSE02-011822	02A	1/18/2022	1455	NA	NA	1	AA	X	475
MSE03-011822	03A	1/18/2022	1500	NA	NA	1	AA	X	491
MSE01-011922	04A	1/19/2022	1545	NA	NA	1	AA	X	497
MSE02-011922	05A	1/19/2022	1540	NA	NA	1	AA	X	503
MSE03-011922	06A	1/19/2022	1541	NA	NA	1	AA	X	520
TP									

Flow Rate = 2 L/min

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7758 1002 2851

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] Date: 1/20/22 Time: 1600 Received By/ Affiliation: FedEx Date: 1/20/22 Time: 1600

Special Instructions: [Redacted] 1 Gilbane 1-24-22 [Redacted] 1-24-22 1118

Send Results to: [Redacted]

Turnaround Time: Standard

TEMP: 22.5°C IPA

ORIGIN ID: A0CA

SHIP DATE: 20JAN22

ACTWGT: 1.00 LB
CAD: 254128867/NET4490

200 FISHER STREET

SAN FRANCISCO, CA 94124

BILL SENDER

UNITED STATES US

TO

A & B LABS

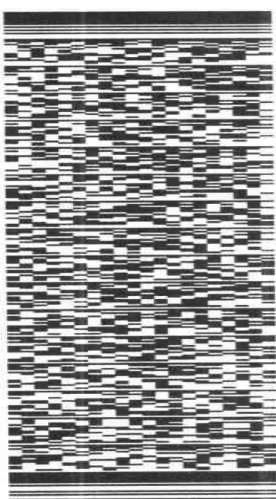
10100 EAST FREEMWAY, SUITE 100

HOUSTON TX 77029

56DJ4/F289/FE4A

REF: 31000.400.001804

INVT PO DEPT



J221022810501uv

FRI - 21 JAN 4:30P

STANDARD OVERNIGHT

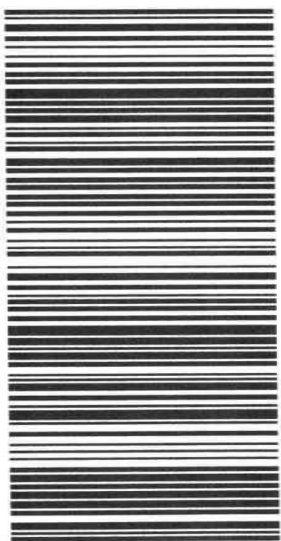
TRK# 7758 1595 1144
0201

77029

ULHBYA

TX:US

IAH



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SEAL
 Gilbane
 Date: 1/1
 Signature: *[Handwritten Signature]*

CUSTOMER SEAL

Laboratory Analysis Report

Job ID : 22012428



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 : 01/27/2022 10:21
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
MSE01-012022	1/20/2022 15:48	Cassette	22012428.01
MSE02-012022	1/20/2022 15:32	Cassette	22012428.02
MSE03-012022	1/20/2022 15:05	Cassette	22012428.03
MSE01-012422	1/24/2022 15:55	Cassette	22012428.04
MSE02-012422	1/24/2022 16:02	Cassette	22012428.05
MSE03-012422	1/24/2022 16:05	Cassette	22012428.06

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

Analyst: [REDACTED]

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ab-q210-0321

2/3/2022



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

Date 2/3/2022

Job ID : 22012428
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
22012428.01	MSE01-012022	01/20/2022	Area	2			510	1020	100	15.0	19.108	0.007		02/03/22	[REDACTED]
22012428.02	MSE02-012022	01/20/2022	Area	2			498	996	100	13.0	16.561	0.006		02/03/22	[REDACTED]
22012428.03	MSE03-012022	01/20/2022	Area	2			486	972	100	12	15.287	0.006		02/03/22	[REDACTED]
22012428.04	MSE01-012422	01/24/2022	Area	2			489	978	100	20.5	26.115	0.010		02/03/22	[REDACTED]
22012428.05	MSE02-012422	01/24/2022	Area	2			526	1052	100	17.0	21.656	0.008		02/03/22	[REDACTED]
22012428.06	MSE03-012422	01/24/2022	Area	2			539	1078	100	18.5	23.567	0.008		02/03/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22012428	Date Received : 01/27/2022	Time Received : 10:21AM		
Client Name : GES - ASRC Industrial				
Temperature : 18.4°C	Sample pH : NA			
Thermometer ID : IR1	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:
 Black Cassettes. No cooler was received; however, received in a box with a custody seal. ~JE 01/27/22

Received by : ██████████

Check in by/date : ██████████ 01/27/2022

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 Date: 1/25/2022
 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:			
MSE01-012022	1/20/2022	1548	NA	NA	1	AA	X	None		510	01A
MSE02-012022	1/20/2022	1532	NA	NA	1	AA	X	None		498	02A
MSE03-012022	1/20/2022	1509	NA	NA	1	AA	X	None		486	03A
MSE01-012422	1/24/2022	1555	NA	NA	1	AA	X	None		489	04A
MSE02-012422	1/24/2022	1602	NA	NA	1	AA	X	None		526	05A
MSE03-012422	1/24/2022	1605	NA	NA	1	AA	X	None		539	06A

Job ID: 22012428



01/27/2022 GES - ASRC Industrial ACH

Sampled By: <u>[Redacted]</u>	Sampler: <u>[Redacted]</u>	Courier/Airbill No.: FedEx/ 7758 5069 5662				
Signature: <u>[Redacted]</u>	Relinquished By/Affiliation: <u>[Redacted]</u>	Date:	Time:	Received By/ Affiliation:	Date:	Time:
Special Instructions: _____	<u>[Redacted] / Gilbane</u>	<u>1/25/22</u>	<u>1600</u>	<u>Fedex</u>	<u>1/25/22</u>	<u>1600</u>
Send Results to: <u>[Redacted]</u>	<u>Fedex</u>			<u>[Redacted]</u>	<u>1/25/22</u>	<u>1021</u>
Turnaround Time: <u>Standard</u>						

18.40c
T. G. W.

ORIGIN ID: ICCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 25 JAN 22
ACTWGT: 1.00 LB
CAD: 254128867/NET4460

BILL SENDER

TO [REDACTED]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J31000.400.00.18.04

INV. PO: DEPT:



56DJMF286/FE4A

J221822116581uv

WED - 26 JAN 4:30P

STANDARD OVERNIGHT

TRK# 7758 6164 0891
0201

UL HBYA

TX-US 77029
IAH



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JDY SEAL

Gilbane

1/25/22

Date:

[Signature]

Signature:



ENVIRONMENTAL SAMPLING SUPPLY
www.essvial.com 800-233-1155

Laboratory Analysis Report

Job ID : 22012674



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 : 01/31/2022 08:31
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
MSE01-012522	1/25/2022 15:45	Cassette	22012674.01
MSE02-012522	1/25/2022 15:55	Cassette	22012674.02
MSE03-012522	1/25/2022 16:11	Cassette	22012674.03
MSE01-012622	1/26/2022 15:36	Cassette	22012674.04
MSE02-012622	1/26/2022 16:00	Cassette	22012674.05
MSE03-012622	1/26/2022 15:55	Cassette	22012674.06

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

Analyst: [REDACTED]

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ab-q210-0321

2/7/2022



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

Date 2/7/2022

Job ID : 22012674
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
22012674.01	MSE01-012522	01/25/2022	Area	2			517	1034	100	11	14.013	0.005		02/07/22	[REDACTED]
22012674.02	MSE02-012522	01/25/2022	Area	2			533	1066	100	17.5	22.293	0.008		02/07/22	[REDACTED]
22012674.03	MSE03-012522	01/25/2022	Area	2			558	1116	100	18.5	23.567	0.008		02/07/22	[REDACTED]
22012674.04	MSE01-012622	01/26/2022	Area	2			496	992	100	11	14.013	0.005		02/07/22	[REDACTED]
22012674.05	MSE02-012622	01/26/2022	Area	2			537	1074	100	10.5	13.376	0.005		02/07/22	[REDACTED]
22012674.06	MSE03-012622	01/26/2022	Area	2			539	1078	100	14.5	18.471	0.007		02/07/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22012674	Date Received : 01/31/2022	Time Received : 8:31AM		
Client Name : GES - ASRC Industrial				
Temperature : 20.4°C	Sample pH : NA			
Thermometer ID : IR1	pH Paper ID : NA			
Perservative :				
	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.	X		
2.	Sample(s) in a cooler.		X	
3.	If yes, ice in cooler.			X
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water Soil Liquid Sludge Solid Cassette Tube Bulk Badge Food Other <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative			X
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

Black Cassettes. No cooler was received; however, received in a box with a custody seal. -CH 01/31/22

Received by : ██████████

Check in by/date : ██████████ / 01/31/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 1/27/2022
 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:		
MSE01-012522	01A	1/25/2022	1545	NA	NA	1	AA	X		517
MSE02-012522	02A	1/25/2022	1555	NA	NA	1	AA	X		533
MSE03-012522	03A	1/25/2022	1611	NA	NA	1	AA	X		558
MSE01-012622	04A	1/26/2022	1536	NA	NA	1	AA	X		496
MSE02-012622	05A	1/26/2022	1600	NA	NA	1	AA	X		537
MSE03-012622	06A	1/26/2022	1555	NA	NA	1	AA	X		539
TP										

Sampled By: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7758 7791 1506

Signature: [Redacted] Relinquished By/Affiliation: [Redacted] / Gilbane Date: 1/27/22 Time: 1600 Received By/ Affiliation: Fedex Date: 1/27/22 Time: 1600

Special Instructions: [Redacted] fedex 1/31/22 0831 [Redacted] 1/31/22 0831

Send Results to: [Redacted]

Turnaround Time: Standard

TEMP: 20.4
FO: IR 1 BLT

ORIGIN ID: ICCA
SHIP DATE: 27 JAN 22
ACTWGT: 1.00 LB
CAD: 254128867/NET4460

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

BILL SENDER

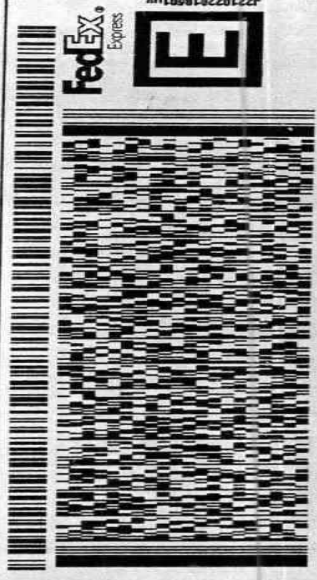
A & B LABS

10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF: J1000-400001804

RV
PO DEPT.

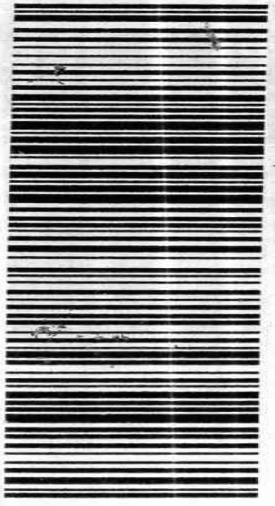


FRI - 28 JAN 4:30P

STANDARD OVERNIGHT

TRK# 7758 7791 1506

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Gilbane

Date: 1/27/22
Signature: [Handwritten Signature]

Laboratory Analysis Report

Job ID : 22020499



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

Client Project Name :
HPNS Parcel E Phase II J310000400

Report To : Client Name: GES - ASRC Industrial Total Number of Pages: 5
Attn: [REDACTED] P.O.#. : J310000400-0015
Client Address: 1501 West Fountainhead Parkway, Ste. #550 Date Received : 02/03/2022 14:04
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
MSE01-012722	1/27/2022 15:00	Cassette	22020499.01
MSE02-012722	1/27/2022 15:06	Cassette	22020499.02
MSE03-012722	1/27/2022 15:15	Cassette	22020499.03
MSE01-013122	1/31/2022 16:06	Cassette	22020499.04
MSE02-013122	1/31/2022 16:09	Cassette	22020499.05
MSE03-013122	1/31/2022 16:11	Cassette	22020499.06

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

Analyst: [REDACTED]

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ab-q210-0321

2/10/2022



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

Date 2/10/2022

Job ID : 22020499
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
22020499.01	MSE01-012722	01/27/2022	Area	2			481	962	100	17.0	21.656	0.009		02/10/22	[REDACTED]
22020499.02	MSE02-012722	01/27/2022	Area	2			478	956	100	15.0	19.108	0.008		02/10/22	[REDACTED]
22020499.03	MSE03-012722	01/27/2022	Area	2			477	954	100	13.0	16.561	0.007		02/10/22	[REDACTED]
22020499.04	MSE01-013122	01/31/2022	Area	2			509	1018	100	14.0	17.834	0.007		02/10/22	[REDACTED]
22020499.05	MSE02-013122	01/31/2022	Area	2			537	1074	100	14.5	18.471	0.007		02/10/22	[REDACTED]
22020499.06	MSE03-013122	01/31/2022	Area	2			556	1112	100	13	16.561	0.006		02/10/22	[REDACTED]

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



Sample Condition Checklist

A&B JobID : 22020499	Date Received : 02/03/2022	Time Received : 2:04PM		
Client Name : GES - ASRC Industrial				
Temperature : 12.9°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, received in a box with a custody seal. -CH 02/04/22

Received by : ██████████

Check in by/date : ██████████ / 02/04/2022

ab-s005-0321

Phone : ██████████

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Chain-Of-Custody

Project Name and Number: HPNS Parcel E Phase II J310000400 Laboratory Name: A&B Labs Date: 2/01/2022
 Project Manager: [Redacted] Address: 10100 East Fwy Ste. 100 Contact Name: [Redacted] Page: 1 of 1
 Site Location: Hunters Point, San Francisco, CA 94124 Houston TX 77029

Job ID: 22020499



01/31/2022 GES - ASRC Industrial ACH

Sample ID	Date	Time	Sample Depth (top)	Sample Depth (bottom)	No. of Containers	Sample Matrix	Analysis:			Special Instructions/Comments Total Time (min)
							Asbestos	Preservative:	Container Type:	
							None	Filter		
MSE01-012722	01A	1/27/2022	1500	NA	NA	1	AA	X		481
MSE02-012722	02A	1/27/2022	1506	NA	NA	1	AA	X		478
MSE03-012722	03A	1/27/2022	1515	NA	NA	1	AA	X		477
MSE01-013122	04A	1/31/2022	1606	NA	NA	1	AA	X		509
MSE02-013122	05A	1/31/2022	1609	NA	NA	1	AA	X		537
MSE03-013122	06A	1/31/2022	1611	NA	NA	1	AA	X		556
TP										

Flow Rate = 2 L/min

Sampled: [Redacted] Sampler: [Redacted] Courier/Airbill No.: FedEx/ 7758 7791 1506

Signature: [Redacted] Relinquished by/ Affiliation: [Redacted] Date: 2/1/22 Time: 1600 Received By/ Affiliation: Fedex Date: 2/1/22 Time: 1600

Special Instructions: [Redacted] Gilbane 2/1/22 1600 Fedex 2/1/22 1600
Fedex 2/1/22 1404 [Redacted] 2/1/22 1404

Send Results to: [Redacted]

Turnaround Time: Standard 12.90c (K)

ORIGIN ID: JCCA

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 01FEB22
ACTWGT: 1.00 LB
CAD: 254128867/NET4460

BILL SENDER

TO

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

REF J31000.400.00.19.04

56D.J2027C/FE4A

INV PO DEPT



WED - 02 FEB 4:30P

STANDARD OVERNIGHT

TRK# 7759 2672 7431
0201

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CUSTODY SEAL



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

Gilbane

Date: 2/1/22

Signature: *The Dan*

ANALYTICAL REPORT

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

Laboratory Job ID: 320-83537-1

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

For:

Gilbane Federal
2355 E. Camelback Road
Suite 850
Phoenix, Arizona 85016

Attn: [REDACTED]

Authorized for release by:
1/13/2022 9:02:32 AM

[REDACTED]

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

Job ID: 320-83537-1

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

Job ID: 320-83537-1

Job ID: 320-83537-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-83537-1

Comments

No additional comments.

Receipt

The samples were received on 1/5/2022 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.8° 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: Gilbane Federal
 Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-83537-1

Client Sample ID: GILBANEPM120921-1645

Lab Sample ID: 320-83537-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00087		0.00071	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.033		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0034		0.00071	0.000099	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	3.8		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1645

Lab Sample ID: 320-83537-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	6.7352		0.3061	0.3061	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1644

Lab Sample ID: 320-83537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00074		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.30		0.0014	0.00010	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	8.5		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1644

Lab Sample ID: 320-83537-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.4208		0.2880	0.2880	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1646

Lab Sample ID: 320-83537-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00082		0.00075	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.015		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0023		0.00075	0.00011	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	6.8		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1646

Lab Sample ID: 320-83537-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.7300		0.3087	0.3087	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83537-1

Client Sample ID: GILBANEPM120921-1645

Lab Sample ID: 320-83537-1

Date Collected: 01/04/22 07:34

Matrix: Air

Date Received: 01/05/22 11:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00087		0.00071	0.00011	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:31	1
Copper	0.033		0.0014	0.00011	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:31	1
Manganese	0.0034		0.00071	0.000099	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	3.8		0.29	0.29	ug/m3			01/07/22 10:45	1

Client Sample ID: GILBANETSP120921-1645

Lab Sample ID: 320-83537-2

Date Collected: 01/04/22 07:34

Matrix: Air

Date Received: 01/05/22 11:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	6.7352		0.3061	0.3061	ug/m3 (Air)			01/07/22 10:45	1

Client Sample ID: GILBANEPM120921-1644

Lab Sample ID: 320-83537-3

Date Collected: 01/04/22 07:11

Matrix: Air

Date Received: 01/05/22 11:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00074		0.00070	0.00010	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:41	1
Copper	0.30		0.0014	0.00010	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:41	1
Manganese	0.0016		0.00070	0.000098	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.5		0.29	0.29	ug/m3			01/07/22 10:45	1

Client Sample ID: GILBANETSP120921-1644

Lab Sample ID: 320-83537-4

Date Collected: 01/04/22 07:11

Matrix: Air

Date Received: 01/05/22 11:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.4208		0.2880	0.2880	ug/m3 (Air)			01/07/22 10:45	1

Client Sample ID: GILBANEPM120921-1646

Lab Sample ID: 320-83537-5

Date Collected: 01/04/22 07:20

Matrix: Air

Date Received: 01/05/22 11:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00082		0.00075	0.00011	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:44	1
Copper	0.015		0.0015	0.00011	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:44	1
Manganese	0.0023		0.00075	0.00011	ug/m3 (Air)		01/12/22 06:00	01/12/22 12:44	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83537-1

Client Sample ID: GILBANEPM120921-1646

Lab Sample ID: 320-83537-5

Date Collected: 01/04/22 07:20

Matrix: Air

Date Received: 01/05/22 11:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	6.8		0.31	0.31	ug/m3			01/07/22 10:45	1

Client Sample ID: GILBANETSP120921-1646

Lab Sample ID: 320-83537-6

Date Collected: 01/04/22 07:20

Matrix: Air

Date Received: 01/05/22 11:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.7300		0.3087	0.3087	ug/m3 (Air)			01/07/22 10:45	1

QC Sample Results

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

Job ID: 320-83537-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-557449/1-B
Matrix: Air
Analysis Batch: 557600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 557450

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		01/12/22 06:00	01/12/22 11:18	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		01/12/22 06:00	01/12/22 11:18	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		01/12/22 06:00	01/12/22 11:18	1

Lab Sample ID: LCS 320-557449/2-B
Matrix: Air
Analysis Batch: 557600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 557450

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	0.239		ug/m3 (Air)		100	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-557449/3-B
Matrix: Air
Analysis Batch: 557600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 557450

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.242		ug/m3 (Air)		101	86 - 111	1	15
Copper	0.240	0.249		ug/m3 (Air)		104	85 - 110	4	15
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110	1	15

QC Association Summary

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

Job ID: 320-83537-1

Metals

Pre Prep Batch: 557449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83537-1	GILBANEPM120921-1645	Total/NA	Air	Filter to Air	
320-83537-3	GILBANEPM120921-1644	Total/NA	Air	Filter to Air	
320-83537-5	GILBANEPM120921-1646	Total/NA	Air	Filter to Air	
MB 320-557449/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-557449/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-557449/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 557450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83537-1	GILBANEPM120921-1645	Total/NA	Air	3050B	557449
320-83537-3	GILBANEPM120921-1644	Total/NA	Air	3050B	557449
320-83537-5	GILBANEPM120921-1646	Total/NA	Air	3050B	557449
MB 320-557449/1-B	Method Blank	Total/NA	Air	3050B	557449
LCS 320-557449/2-B	Lab Control Sample	Total/NA	Air	3050B	557449
LCSD 320-557449/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	557449

Analysis Batch: 557600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83537-1	GILBANEPM120921-1645	Total/NA	Air	6020	557450
320-83537-3	GILBANEPM120921-1644	Total/NA	Air	6020	557450
320-83537-5	GILBANEPM120921-1646	Total/NA	Air	6020	557450
MB 320-557449/1-B	Method Blank	Total/NA	Air	6020	557450
LCS 320-557449/2-B	Lab Control Sample	Total/NA	Air	6020	557450
LCSD 320-557449/3-B	Lab Control Sample Dup	Total/NA	Air	6020	557450

General Chemistry

Pre Prep Batch: 557321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83537-2	GILBANETSP120921-1645	Total/NA	Air	Filter to Air	
320-83537-4	GILBANETSP120921-1644	Total/NA	Air	Filter to Air	
320-83537-6	GILBANETSP120921-1646	Total/NA	Air	Filter to Air	

Analysis Batch: 557327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83537-2	GILBANETSP120921-1645	Total/NA	Air	40CFR50 App B	557321
320-83537-4	GILBANETSP120921-1644	Total/NA	Air	40CFR50 App B	557321
320-83537-6	GILBANETSP120921-1646	Total/NA	Air	40CFR50 App B	557321

Analysis Batch: 557328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83537-1	GILBANEPM120921-1645	Total/NA	Air	PM10	
320-83537-3	GILBANEPM120921-1644	Total/NA	Air	PM10	
320-83537-5	GILBANEPM120921-1646	Total/NA	Air	PM10	

Lab Chronicle

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

Job ID: 320-83537-1

Client Sample ID: GILBANEPM120921-1645

Lab Sample ID: 320-83537-1

Date Collected: 01/04/22 07:34

Matrix: Air

Date Received: 01/05/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					557449	01/12/22 05:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	557450	01/12/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			557600	01/12/22 12:31	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0065 g	557328	01/07/22 10:45	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1645

Lab Sample ID: 320-83537-2

Date Collected: 01/04/22 07:34

Matrix: Air

Date Received: 01/05/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			557327	01/07/22 10:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1644

Lab Sample ID: 320-83537-3

Date Collected: 01/04/22 07:11

Matrix: Air

Date Received: 01/05/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					557449	01/12/22 05:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	557450	01/12/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			557600	01/12/22 12:41	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0145 g	557328	01/07/22 10:45	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1644

Lab Sample ID: 320-83537-4

Date Collected: 01/04/22 07:11

Matrix: Air

Date Received: 01/05/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			557327	01/07/22 10:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1646

Lab Sample ID: 320-83537-5

Date Collected: 01/04/22 07:20

Matrix: Air

Date Received: 01/05/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					557449	01/12/22 05:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	557450	01/12/22 06:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			557600	01/12/22 12:44	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0108 g	557328	01/07/22 10:45	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-83537-1

Client Sample ID: GILBANETSP120921-1646

Lab Sample ID: 320-83537-6

Date Collected: 01/04/22 07:20

Matrix: Air

Date Received: 01/05/22 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			557327	01/07/22 10:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 320-83537-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22

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

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

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Method Summary

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

Job ID: 320-83537-1

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

Job ID: 320-83537-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83537-1	GILBANEPM120921-1645	Air	01/04/22 07:34	01/05/22 11:00
320-83537-2	GILBANETSP120921-1645	Air	01/04/22 07:34	01/05/22 11:00
320-83537-3	GILBANEPM120921-1644	Air	01/04/22 07:11	01/05/22 11:00
320-83537-4	GILBANETSP120921-1644	Air	01/04/22 07:11	01/05/22 11:00
320-83537-5	GILBANEPM120921-1646	Air	01/04/22 07:20	01/05/22 11:00
320-83537-6	GILBANETSP120921-1646	Air	01/04/22 07:20	01/05/22 11:00

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal




COC # KT010422AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring January 2022
Project Number: J310000400	POC [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code	Matrix
			A	Air
Equipment:			Code	Container/Preservative
			1	1x 250-mL Plastic, 4 Degrees C
			1	1x Envelope, None



320-83537 Chain of Custody

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Event: Parcel E Phase 2 Air Monitoring January 2022															
Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
1	GILBANEPM120921-1645	A	01/04/2022	0734	KT	X	X				AMSE1	N1	0.00 0.00	1	VOLUME: 1695.94
2	GILBANETSP120921-1645	A	01/04/2022	0734	KT		X				AMSE1	N1	0.00 0.00	1	VOLUME: 1633.22
3	GILBANEPM120921-1644	A	01/04/2022	0711	KT	X	X				AMSE2	N1	0.00 0.00	1	VOLUME: 1715.42
4	GILBANETSP120921-1644	A	01/04/2022	0711	KT		X				AMSE2	N1	0.00 0.00	1	VOLUME: 1736.11
5	GILBANEPM120921-1646	A	01/04/2022	0720	KT	X	X				AMSE3	N1	0.00 0.00	1	VOLUME: 1598.24
6	GILBANETSP120921-1646	A	01/04/2022	0720	KT		X				AMSE3	N1	0.00 0.00	1	VOLUME: 1619.88
7			TP												
8															
Turnaround Time: 5 days															

[Redacted]	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	1/4/22	1600	Fedex	1/4/22	1600	Shipping Date: 1/4/2022/FedEx 7756 5803 9960
[Redacted]			[Redacted]	1/5/22	1100	
						Received by Laboratory: (Signature, Date, Time) & condition

1/13/2022



Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-83537-1

Login Number: 83537

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: [REDACTED]

Laboratory Job ID: 320-83621-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
Gilbane Federal
2355 E. Camelback Road
Suite 850
Phoenix, Arizona 85016

Attn: [REDACTED]

Authorized for release by:
1/15/2022 2:15:53 PM

[REDACTED]
[REDACTED]
[REDACTED]

LINKS

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

Job ID: 320-83621-1

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

Job ID: 320-83621-1

Job ID: 320-83621-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-83621-1

Comments

No additional comments.

Receipt

The samples were received on 1/7/2022 11:35 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 17.4° 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: Gilbane Federal
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-83621-1

Client Sample ID: GILBANEPM120921-1647

Lab Sample ID: 320-83621-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00036	J	0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.070		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0014		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	9.1		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1647

Lab Sample ID: 320-83621-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.6862		0.2988	0.2988	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1648

Lab Sample ID: 320-83621-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00034	J	0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.17		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.00080		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	10		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1648

Lab Sample ID: 320-83621-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	16.7379		0.2896	0.2896	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1649

Lab Sample ID: 320-83621-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00050	J	0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.00091		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	7.8		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1649

Lab Sample ID: 320-83621-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.5757		0.3071	0.3071	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1650

Lab Sample ID: 320-83621-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00062	J	0.0014	0.00021	ug/m3 (Air)	1		6020	Total/NA
Copper	0.21		0.0028	0.00021	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0024		0.0014	0.00020	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	8.0		0.59	0.59	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1650

Lab Sample ID: 320-83621-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	10.5949		0.5636	0.5636	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1651

Lab Sample ID: 320-83621-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00066	J	0.0011	0.00017	ug/m3 (Air)	1		6020	Total/NA
Copper	0.14		0.0023	0.00017	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0024		0.0011	0.00016	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-83621-1

Client Sample ID: GILBANEPM120921-1651 (Continued)

Lab Sample ID: 320-83621-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	8.2		0.47	0.47	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1651

Lab Sample ID: 320-83621-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	17.8220		0.4665	0.4665	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1652

Lab Sample ID: 320-83621-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00049	J	0.00075	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.017		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0019		0.00075	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	5.3		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1652

Lab Sample ID: 320-83621-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.7202		0.3076	0.3076	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83621-1

Client Sample ID: GILBANEPM120921-1647

Lab Sample ID: 320-83621-1

Date Collected: 01/05/22 07:24

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00036	J	0.00069	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:52	1
Copper	0.070		0.0014	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:52	1
Manganese	0.0014		0.00069	0.000097	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:52	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	9.1		0.29	0.29	ug/m3			01/10/22 16:05	1

Client Sample ID: GILBANETSP120921-1647

Lab Sample ID: 320-83621-2

Date Collected: 01/05/22 07:24

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.6862		0.2988	0.2988	ug/m3 (Air)			01/10/22 16:05	1

Client Sample ID: GILBANEPM120921-1648

Lab Sample ID: 320-83621-3

Date Collected: 01/05/22 06:55

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00034	J	0.00070	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:08	1
Copper	0.17		0.0014	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:08	1
Manganese	0.00080		0.00070	0.000098	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	10		0.29	0.29	ug/m3			01/10/22 16:05	1

Client Sample ID: GILBANETSP120921-1648

Lab Sample ID: 320-83621-4

Date Collected: 01/05/22 06:55

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.7379		0.2896	0.2896	ug/m3 (Air)			01/10/22 16:05	1

Client Sample ID: GILBANEPM120921-1649

Lab Sample ID: 320-83621-5

Date Collected: 01/05/22 07:09

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00050	J	0.00074	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:11	1
Copper	0.029		0.0015	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:11	1
Manganese	0.00091		0.00074	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:11	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83621-1

Client Sample ID: GILBANEPM120921-1649

Lab Sample ID: 320-83621-5

Date Collected: 01/05/22 07:09

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	7.8		0.31	0.31	ug/m3			01/10/22 16:05	1

Client Sample ID: GILBANETSP120921-1649

Lab Sample ID: 320-83621-6

Date Collected: 01/05/22 07:09

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.5757		0.3071	0.3071	ug/m3 (Air)			01/10/22 16:05	1

Client Sample ID: GILBANEPM120921-1650

Lab Sample ID: 320-83621-7

Date Collected: 01/06/22 07:22

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00062	J	0.0014	0.00021	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:14	1
Copper	0.21		0.0028	0.00021	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:14	1
Manganese	0.0024		0.0014	0.00020	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.0		0.59	0.59	ug/m3			01/10/22 16:05	1

Client Sample ID: GILBANETSP120921-1650

Lab Sample ID: 320-83621-8

Date Collected: 01/06/22 07:22

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	10.5949		0.5636	0.5636	ug/m3 (Air)			01/10/22 16:05	1

Client Sample ID: GILBANEPM120921-1651

Lab Sample ID: 320-83621-9

Date Collected: 01/06/22 07:05

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00066	J	0.0011	0.00017	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:17	1
Copper	0.14		0.0023	0.00017	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:17	1
Manganese	0.0024		0.0011	0.00016	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	8.2		0.47	0.47	ug/m3			01/10/22 16:05	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83621-1

Client Sample ID: GILBANETSP120921-1651

Lab Sample ID: 320-83621-10

Date Collected: 01/06/22 07:05

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	17.8220		0.4665	0.4665	ug/m3 (Air)			01/10/22 16:05	1

Client Sample ID: GILBANEPM120921-1652

Lab Sample ID: 320-83621-11

Date Collected: 01/06/22 06:50

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00049	J	0.00075	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:21	1
Copper	0.017		0.0015	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:21	1
Manganese	0.0019		0.00075	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	5.3		0.31	0.31	ug/m3			01/10/22 16:05	1

Client Sample ID: GILBANETSP120921-1652

Lab Sample ID: 320-83621-12

Date Collected: 01/06/22 06:50

Matrix: Air

Date Received: 01/07/22 11:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.7202		0.3076	0.3076	ug/m3 (Air)			01/10/22 16:05	1

QC Sample Results

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

Job ID: 320-83621-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-558025/1-B
Matrix: Air
Analysis Batch: 558149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:05	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:05	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:05	1

Lab Sample ID: LCS 320-558025/2-B
Matrix: Air
Analysis Batch: 558149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.225		ug/m3 (Air)		94	86 - 111
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110
Manganese	0.240	0.235		ug/m3 (Air)		98	88 - 110

Lab Sample ID: LCSD 320-558025/3-B
Matrix: Air
Analysis Batch: 558149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 558063

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.230		ug/m3 (Air)		96	86 - 111	2	15
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110	4	15
Manganese	0.240	0.234		ug/m3 (Air)		98	88 - 110	0	15

QC Association Summary

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

Job ID: 320-83621-1

Metals

Pre Prep Batch: 558025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83621-1	GILBANEPM120921-1647	Total/NA	Air	Filter to Air	
320-83621-3	GILBANEPM120921-1648	Total/NA	Air	Filter to Air	
320-83621-5	GILBANEPM120921-1649	Total/NA	Air	Filter to Air	
320-83621-7	GILBANEPM120921-1650	Total/NA	Air	Filter to Air	
320-83621-9	GILBANEPM120921-1651	Total/NA	Air	Filter to Air	
320-83621-11	GILBANEPM120921-1652	Total/NA	Air	Filter to Air	
MB 320-558025/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-558025/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-558025/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 558063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83621-1	GILBANEPM120921-1647	Total/NA	Air	3050B	558025
320-83621-3	GILBANEPM120921-1648	Total/NA	Air	3050B	558025
320-83621-5	GILBANEPM120921-1649	Total/NA	Air	3050B	558025
320-83621-7	GILBANEPM120921-1650	Total/NA	Air	3050B	558025
320-83621-9	GILBANEPM120921-1651	Total/NA	Air	3050B	558025
320-83621-11	GILBANEPM120921-1652	Total/NA	Air	3050B	558025
MB 320-558025/1-B	Method Blank	Total/NA	Air	3050B	558025
LCS 320-558025/2-B	Lab Control Sample	Total/NA	Air	3050B	558025
LCSD 320-558025/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	558025

Analysis Batch: 558149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83621-1	GILBANEPM120921-1647	Total/NA	Air	6020	558063
320-83621-3	GILBANEPM120921-1648	Total/NA	Air	6020	558063
320-83621-5	GILBANEPM120921-1649	Total/NA	Air	6020	558063
320-83621-7	GILBANEPM120921-1650	Total/NA	Air	6020	558063
320-83621-9	GILBANEPM120921-1651	Total/NA	Air	6020	558063
320-83621-11	GILBANEPM120921-1652	Total/NA	Air	6020	558063
MB 320-558025/1-B	Method Blank	Total/NA	Air	6020	558063
LCS 320-558025/2-B	Lab Control Sample	Total/NA	Air	6020	558063
LCSD 320-558025/3-B	Lab Control Sample Dup	Total/NA	Air	6020	558063

General Chemistry

Pre Prep Batch: 557321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83621-2	GILBANETSP120921-1647	Total/NA	Air	Filter to Air	
320-83621-4	GILBANETSP120921-1648	Total/NA	Air	Filter to Air	
320-83621-6	GILBANETSP120921-1649	Total/NA	Air	Filter to Air	
320-83621-8	GILBANETSP120921-1650	Total/NA	Air	Filter to Air	
320-83621-10	GILBANETSP120921-1651	Total/NA	Air	Filter to Air	
320-83621-12	GILBANETSP120921-1652	Total/NA	Air	Filter to Air	

Analysis Batch: 558172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83621-2	GILBANETSP120921-1647	Total/NA	Air	40CFR50 App B	557321
320-83621-4	GILBANETSP120921-1648	Total/NA	Air	40CFR50 App B	557321
320-83621-6	GILBANETSP120921-1649	Total/NA	Air	40CFR50 App B	557321
320-83621-8	GILBANETSP120921-1650	Total/NA	Air	40CFR50 App B	557321

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-83621-1

General Chemistry (Continued)

Analysis Batch: 558172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83621-10	GILBANETSP120921-1651	Total/NA	Air	40CFR50 App B	557321
320-83621-12	GILBANETSP120921-1652	Total/NA	Air	40CFR50 App B	557321

Analysis Batch: 558188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83621-1	GILBANEPM120921-1647	Total/NA	Air	PM10	
320-83621-3	GILBANEPM120921-1648	Total/NA	Air	PM10	
320-83621-5	GILBANEPM120921-1649	Total/NA	Air	PM10	
320-83621-7	GILBANEPM120921-1650	Total/NA	Air	PM10	
320-83621-9	GILBANEPM120921-1651	Total/NA	Air	PM10	
320-83621-11	GILBANEPM120921-1652	Total/NA	Air	PM10	

Lab Chronicle

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

Job ID: 320-83621-1

Client Sample ID: GILBANEPM120921-1647

Lab Sample ID: 320-83621-1

Date Collected: 01/05/22 07:24

Matrix: Air

Date Received: 01/07/22 11:35

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					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 13:52	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0159 g	558188	01/10/22 16:05	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1647

Lab Sample ID: 320-83621-2

Date Collected: 01/05/22 07:24

Matrix: Air

Date Received: 01/07/22 11:35

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			558172	01/10/22 16:05	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1648

Lab Sample ID: 320-83621-3

Date Collected: 01/05/22 06:55

Matrix: Air

Date Received: 01/07/22 11:35

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					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 14:08	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0176 g	558188	01/10/22 16:05	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1648

Lab Sample ID: 320-83621-4

Date Collected: 01/05/22 06:55

Matrix: Air

Date Received: 01/07/22 11:35

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			558172	01/10/22 16:05	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1649

Lab Sample ID: 320-83621-5

Date Collected: 01/05/22 07:09

Matrix: Air

Date Received: 01/07/22 11:35

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					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 14:11	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0126 g	558188	01/10/22 16:05	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-83621-1

Client Sample ID: GILBANETSP120921-1649

Lab Sample ID: 320-83621-6

Date Collected: 01/05/22 07:09

Matrix: Air

Date Received: 01/07/22 11:35

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			558172	01/10/22 16:05	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1650

Lab Sample ID: 320-83621-7

Date Collected: 01/06/22 07:22

Matrix: Air

Date Received: 01/07/22 11:35

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					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 14:14	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0068 g	558188	01/10/22 16:05	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1650

Lab Sample ID: 320-83621-8

Date Collected: 01/06/22 07:22

Matrix: Air

Date Received: 01/07/22 11:35

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			558172	01/10/22 16:05	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1651

Lab Sample ID: 320-83621-9

Date Collected: 01/06/22 07:05

Matrix: Air

Date Received: 01/07/22 11:35

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					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 14:17	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0087 g	558188	01/10/22 16:05	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1651

Lab Sample ID: 320-83621-10

Date Collected: 01/06/22 07:05

Matrix: Air

Date Received: 01/07/22 11:35

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			558172	01/10/22 16:05	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-83621-1

Client Sample ID: GILBANEPM120921-1652

Lab Sample ID: 320-83621-11

Date Collected: 01/06/22 06:50

Matrix: Air

Date Received: 01/07/22 11:35

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					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 14:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0085 g	558188	01/10/22 16:05	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1652

Lab Sample ID: 320-83621-12

Date Collected: 01/06/22 06:50

Matrix: Air

Date Received: 01/07/22 11:35

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			558172	01/10/22 16:05	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					557321	01/11/22 12:41	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-83621-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22

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

Job ID: 320-83621-1

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

Job ID: 320-83621-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83621-1	GILBANEPM120921-1647	Air	01/05/22 07:24	01/07/22 11:35
320-83621-2	GILBANETSP120921-1647	Air	01/05/22 07:24	01/07/22 11:35
320-83621-3	GILBANEPM120921-1648	Air	01/05/22 06:55	01/07/22 11:35
320-83621-4	GILBANETSP120921-1648	Air	01/05/22 06:55	01/07/22 11:35
320-83621-5	GILBANEPM120921-1649	Air	01/05/22 07:09	01/07/22 11:35
320-83621-6	GILBANETSP120921-1649	Air	01/05/22 07:09	01/07/22 11:35
320-83621-7	GILBANEPM120921-1650	Air	01/06/22 07:22	01/07/22 11:35
320-83621-8	GILBANETSP120921-1650	Air	01/06/22 07:22	01/07/22 11:35
320-83621-9	GILBANEPM120921-1651	Air	01/06/22 07:05	01/07/22 11:35
320-83621-10	GILBANETSP120921-1651	Air	01/06/22 07:05	01/07/22 11:35
320-83621-11	GILBANEPM120921-1652	Air	01/06/22 06:50	01/07/22 11:35
320-83621-12	GILBANETSP120921-1652	Air	01/06/22 06:50	01/07/22 11:35

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT010622AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring January 2022
Project Number: J310000400	POC: [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
		A Air	
Equipment:		Code Container/Preservative	
		1 1x 250-mL Plastic, 4 Degrees C	
		1 1x Envelope, None	



Event: Parcel E Phase 2 Air Monitoring January 2022																					
Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method										Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments	
					1	1	1														
1	GILBANEPM120921-1647	A	01/05/2022	0724	KT	X		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1738.47
2	GILBANETSP120921-1647	A	01/05/2022	0724	KT		X									AMSE1	N1	0.00	0.00	1	VOLUME: 1673.22
3	GILBANEPM120921-1648	A	01/05/2022	0655	KT	X		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1713.43
4	GILBANETSP120921-1648	A	01/05/2022	0655	KT		X									AMSE2	N1	0.00	0.00	1	VOLUME: 1726.62
5	GILBANEPM120921-1649	A	01/05/2022	0709	KT	X		X								AMSE3	N1	0.00	0.00	1	VOLUME: 1612.97
6	GILBANETSP120921-1649	A	01/05/2022	0709	KT		X									AMSE3	N1	0.00	0.00	1	VOLUME: 1627.91
7	GILBANEPM120921-1650	A	01/06/2022	0722	KT	X		X								AMSE1	N1	0.00	0.00	1	VOLUME: 852.24
8	GILBANETSP120921-1650	A	01/06/2022	0722	KT		X									AMSE1	N1	0.00	0.00	1	VOLUME: 887.22
9	GILBANEPM120921-1651	A	01/06/2022	0705	KT	X		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1060.62
10	GILBANETSP120921-1651	A	01/06/2022	0705	KT		X									AMSE2	N1	0.00	0.00	1	VOLUME: 1071.71
11	GILBANEPM120921-1652	A	01/06/2022	0650	KT	X		X								AMSE3	N1	0.00	0.00	1	VOLUME: 1601.02

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/6/22	1600	Fedex	1/6/22	1600	Shipping Date: 1/6/2022/FedEx 7756 7383 4065
			[Redacted]	1/7/22	1135	
						Received by Laboratory: (Signature, Date, Time) & condition



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT010622AIR



Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: Eurofins Environment Testing TestAmerica-Sacramento, West Sacramento, CA	Event: Parcel E Phase 2 Air Monitoring January 2022
Project Number: J310000400	POC [Redacted]	
WBS Code: J310000400-016	Ship to: 880 Riverside Parkway, West Sacramento, CA 95605	

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
		A Air	
Equipment:		Code Container/Preservative	
		1 1x 250-mL Plastic, 4 Degrees C	
		1 1x Envelope, None	

Event: Parcel E Phase 2 Air Monitoring January 2022																
Sample ID	Matrix	Date	Time	Samp Init.	X	Y	Z	W	V	U	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
													Top	Bottom		
12	GILBANETSP120921-1652	A	01/06/2022	0650	KT	X					AMSE3	N1	0.00	0.00	1	VOLUME: 1625.34
13																
14																
15																
16																
17		TP														
18																
19																
20																
21																

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/6/22	1600	Fedex	1/6/22	1600	Shipping Date: 1/6/2022/FedEx 7756 7383 4065
			[Redacted]	1/11/22	1135	
						Received by Laboratory: (Signature, Date, Time) & condition



Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-83621-1

Login Number: 83621

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: 320-83746-1

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

For:

Gilbane Federal
2355 E. Camelback Road
Suite 850
Phoenix, Arizona 85016

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
1/20/2022 8:37:16 AM

[REDACTED]

LINKS

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

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



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Definitions/Glossary

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

Job ID: 320-83746-1

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

Job ID: 320-83746-1

Job ID: 320-83746-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-83746-1

Comments

No additional comments.

Receipt

The samples were received on 1/12/2022 10:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 14.5° C.

Metals

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

- 1
- 2
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Detection Summary

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

Job ID: 320-83746-1

Client Sample ID: GILBANEPM120921-1653

Lab Sample ID: 320-83746-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0010	J	0.0023	0.00035	ug/m3 (Air)	1		6020	Total/NA
Copper	0.10		0.0047	0.00035	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0027		0.0023	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.97	0.97	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1653

Lab Sample ID: 320-83746-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	16.4034		1.0126	1.0126	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1654

Lab Sample ID: 320-83746-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00092	J	0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.10		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0020	J	0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.91	0.91	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1654

Lab Sample ID: 320-83746-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	21.0038		0.9053	0.9053	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1655

Lab Sample ID: 320-83746-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00087	J	0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.019		0.0045	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	12		0.93	0.93	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1655

Lab Sample ID: 320-83746-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	22.3054		0.9217	0.9217	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1656

Lab Sample ID: 320-83746-7

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	0.10		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0069		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	20		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1656

Lab Sample ID: 320-83746-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.8054		0.2998	0.2998	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1657

Lab Sample ID: 320-83746-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.38		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0053		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-83746-1

Client Sample ID: GILBANEPM120921-1657 (Continued)

Lab Sample ID: 320-83746-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	21		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1657

Lab Sample ID: 320-83746-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.4477		0.2898	0.2898	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM120921-1658

Lab Sample ID: 320-83746-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0020		0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.039		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0049		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	14		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP120921-1658

Lab Sample ID: 320-83746-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	23.6194		0.3060	0.3060	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83746-1

Client Sample ID: GILBANEPM120921-1653

Lab Sample ID: 320-83746-1

Date Collected: 01/06/22 14:39

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0010	J	0.0023	0.00035	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:14	1
Copper	0.10		0.0047	0.00035	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:14	1
Manganese	0.0027		0.0023	0.00033	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.97	0.97	ug/m3			01/12/22 14:00	1

Client Sample ID: GILBANETSP120921-1653

Lab Sample ID: 320-83746-2

Date Collected: 01/06/22 14:39

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	16.4034		1.0126	1.0126	ug/m3 (Air)			01/12/22 14:00	1

Client Sample ID: GILBANEPM120921-1654

Lab Sample ID: 320-83746-3

Date Collected: 01/06/22 14:49

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00092	J	0.0022	0.00033	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:36	1
Copper	0.10		0.0044	0.00033	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:36	1
Manganese	0.0020	J	0.0022	0.00031	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.91	0.91	ug/m3			01/12/22 14:00	1

Client Sample ID: GILBANETSP120921-1654

Lab Sample ID: 320-83746-4

Date Collected: 01/06/22 14:49

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	21.0038		0.9053	0.9053	ug/m3 (Air)			01/12/22 14:00	1

Client Sample ID: GILBANEPM120921-1655

Lab Sample ID: 320-83746-5

Date Collected: 01/06/22 14:54

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00087	J	0.0022	0.00033	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:39	1
Copper	0.019		0.0045	0.00033	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:39	1
Manganese	0.0025		0.0022	0.00031	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:39	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83746-1

Client Sample ID: GILBANEPM120921-1655

Lab Sample ID: 320-83746-5

Date Collected: 01/06/22 14:54

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.93	0.93	ug/m3			01/12/22 14:00	1

Client Sample ID: GILBANETSP120921-1655

Lab Sample ID: 320-83746-6

Date Collected: 01/06/22 14:54

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.3054		0.9217	0.9217	ug/m3 (Air)			01/12/22 14:00	1

Client Sample ID: GILBANEPM120921-1656

Lab Sample ID: 320-83746-7

Date Collected: 01/11/22 07:24

Matrix: Air

Date Received: 01/12/22 10:45

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)		01/14/22 10:30	01/14/22 13:42	1
Copper	0.10		0.0014	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:42	1
Manganese	0.0069		0.00070	0.000098	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:42	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			01/12/22 14:00	1

Client Sample ID: GILBANETSP120921-1656

Lab Sample ID: 320-83746-8

Date Collected: 01/11/22 07:24

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.8054		0.2998	0.2998	ug/m3 (Air)			01/12/22 14:00	1

Client Sample ID: GILBANEPM120921-1657

Lab Sample ID: 320-83746-9

Date Collected: 01/11/22 07:11

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00070	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:45	1
Copper	0.38		0.0014	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:45	1
Manganese	0.0053		0.00070	0.000097	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:45	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	21		0.29	0.29	ug/m3			01/12/22 14:00	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83746-1

Client Sample ID: GILBANETSP120921-1657

Lab Sample ID: 320-83746-10

Date Collected: 01/11/22 07:11

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.4477		0.2898	0.2898	ug/m3 (Air)			01/12/22 14:00	1

Client Sample ID: GILBANETSP120921-1658

Lab Sample ID: 320-83746-11

Date Collected: 01/11/22 07:00

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0020		0.00074	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:49	1
Copper	0.039		0.0015	0.00011	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:49	1
Manganese	0.0049		0.00074	0.00010	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	14		0.31	0.31	ug/m3			01/12/22 14:00	1

Client Sample ID: GILBANETSP120921-1658

Lab Sample ID: 320-83746-12

Date Collected: 01/11/22 07:00

Matrix: Air

Date Received: 01/12/22 10:45

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	23.6194		0.3060	0.3060	ug/m3 (Air)			01/12/22 14:00	1

QC Sample Results

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

Job ID: 320-83746-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-558025/1-B
Matrix: Air
Analysis Batch: 558149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:05	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:05	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		01/14/22 10:30	01/14/22 13:05	1

Lab Sample ID: LCS 320-558025/2-B
Matrix: Air
Analysis Batch: 558149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.225		ug/m3 (Air)		94	86 - 111
Copper	0.240	0.250		ug/m3 (Air)		104	85 - 110
Manganese	0.240	0.235		ug/m3 (Air)		98	88 - 110

Lab Sample ID: LCSD 320-558025/3-B
Matrix: Air
Analysis Batch: 558149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 558063

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.230		ug/m3 (Air)		96	86 - 111	2	15
Copper	0.240	0.240		ug/m3 (Air)		100	85 - 110	4	15
Manganese	0.240	0.234		ug/m3 (Air)		98	88 - 110	0	15

QC Association Summary

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

Job ID: 320-83746-1

Metals

Pre Prep Batch: 558025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83746-1	GILBANEPM120921-1653	Total/NA	Air	Filter to Air	
320-83746-3	GILBANEPM120921-1654	Total/NA	Air	Filter to Air	
320-83746-5	GILBANEPM120921-1655	Total/NA	Air	Filter to Air	
320-83746-7	GILBANEPM120921-1656	Total/NA	Air	Filter to Air	
320-83746-9	GILBANEPM120921-1657	Total/NA	Air	Filter to Air	
320-83746-11	GILBANEPM120921-1658	Total/NA	Air	Filter to Air	
MB 320-558025/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-558025/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-558025/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 558063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83746-1	GILBANEPM120921-1653	Total/NA	Air	3050B	558025
320-83746-3	GILBANEPM120921-1654	Total/NA	Air	3050B	558025
320-83746-5	GILBANEPM120921-1655	Total/NA	Air	3050B	558025
320-83746-7	GILBANEPM120921-1656	Total/NA	Air	3050B	558025
320-83746-9	GILBANEPM120921-1657	Total/NA	Air	3050B	558025
320-83746-11	GILBANEPM120921-1658	Total/NA	Air	3050B	558025
MB 320-558025/1-B	Method Blank	Total/NA	Air	3050B	558025
LCS 320-558025/2-B	Lab Control Sample	Total/NA	Air	3050B	558025
LCSD 320-558025/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	558025

Analysis Batch: 558149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83746-1	GILBANEPM120921-1653	Total/NA	Air	6020	558063
320-83746-3	GILBANEPM120921-1654	Total/NA	Air	6020	558063
320-83746-5	GILBANEPM120921-1655	Total/NA	Air	6020	558063
320-83746-7	GILBANEPM120921-1656	Total/NA	Air	6020	558063
320-83746-9	GILBANEPM120921-1657	Total/NA	Air	6020	558063
320-83746-11	GILBANEPM120921-1658	Total/NA	Air	6020	558063
MB 320-558025/1-B	Method Blank	Total/NA	Air	6020	558063
LCS 320-558025/2-B	Lab Control Sample	Total/NA	Air	6020	558063
LCSD 320-558025/3-B	Lab Control Sample Dup	Total/NA	Air	6020	558063

General Chemistry

Pre Prep Batch: 558649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83746-2	GILBANETSP120921-1653	Total/NA	Air	Filter to Air	
320-83746-4	GILBANETSP120921-1654	Total/NA	Air	Filter to Air	
320-83746-6	GILBANETSP120921-1655	Total/NA	Air	Filter to Air	
320-83746-8	GILBANETSP120921-1656	Total/NA	Air	Filter to Air	
320-83746-10	GILBANETSP120921-1657	Total/NA	Air	Filter to Air	
320-83746-12	GILBANETSP120921-1658	Total/NA	Air	Filter to Air	

Analysis Batch: 559190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83746-1	GILBANEPM120921-1653	Total/NA	Air	PM10	
320-83746-3	GILBANEPM120921-1654	Total/NA	Air	PM10	
320-83746-5	GILBANEPM120921-1655	Total/NA	Air	PM10	
320-83746-7	GILBANEPM120921-1656	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-83746-1

General Chemistry (Continued)

Analysis Batch: 559190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83746-9	GILBANEPM120921-1657	Total/NA	Air	PM10	
320-83746-11	GILBANEPM120921-1658	Total/NA	Air	PM10	

Analysis Batch: 559191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83746-2	GILBANETSP120921-1653	Total/NA	Air	40CFR50 App B	558649
320-83746-4	GILBANETSP120921-1654	Total/NA	Air	40CFR50 App B	558649
320-83746-6	GILBANETSP120921-1655	Total/NA	Air	40CFR50 App B	558649
320-83746-8	GILBANETSP120921-1656	Total/NA	Air	40CFR50 App B	558649
320-83746-10	GILBANETSP120921-1657	Total/NA	Air	40CFR50 App B	558649
320-83746-12	GILBANETSP120921-1658	Total/NA	Air	40CFR50 App B	558649

Lab Chronicle

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

Job ID: 320-83746-1

Client Sample ID: GILBANEPM120921-1653

Lab Sample ID: 320-83746-1

Date Collected: 01/06/22 14:39

Matrix: Air

Date Received: 01/12/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 13:14	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0075 g	559190	01/12/22 14:00	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1653

Lab Sample ID: 320-83746-2

Date Collected: 01/06/22 14:39

Matrix: Air

Date Received: 01/12/22 10:45

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			559191	01/12/22 14:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1654

Lab Sample ID: 320-83746-3

Date Collected: 01/06/22 14:49

Matrix: Air

Date Received: 01/12/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 13:36	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0083 g	559190	01/12/22 14:00	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1654

Lab Sample ID: 320-83746-4

Date Collected: 01/06/22 14:49

Matrix: Air

Date Received: 01/12/22 10:45

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			559191	01/12/22 14:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1655

Lab Sample ID: 320-83746-5

Date Collected: 01/06/22 14:54

Matrix: Air

Date Received: 01/12/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 13:39	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0063 g	559190	01/12/22 14:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-83746-1

Client Sample ID: GILBANETSP120921-1655

Lab Sample ID: 320-83746-6

Date Collected: 01/06/22 14:54

Matrix: Air

Date Received: 01/12/22 10:45

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			559191	01/12/22 14:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1656

Lab Sample ID: 320-83746-7

Date Collected: 01/11/22 07:24

Matrix: Air

Date Received: 01/12/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 13:42	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0352 g	559190	01/12/22 14:00	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1656

Lab Sample ID: 320-83746-8

Date Collected: 01/11/22 07:24

Matrix: Air

Date Received: 01/12/22 10:45

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			559191	01/12/22 14:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM120921-1657

Lab Sample ID: 320-83746-9

Date Collected: 01/11/22 07:11

Matrix: Air

Date Received: 01/12/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 13:45	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0362 g	559190	01/12/22 14:00	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1657

Lab Sample ID: 320-83746-10

Date Collected: 01/11/22 07:11

Matrix: Air

Date Received: 01/12/22 10:45

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			559191	01/12/22 14:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-83746-1

Client Sample ID: GILBANEPM120921-1658

Lab Sample ID: 320-83746-11

Date Collected: 01/11/22 07:00

Matrix: Air

Date Received: 01/12/22 10:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					558025	01/14/22 09:59	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	558063	01/14/22 10:30	NIM	TAL SAC
Total/NA	Analysis	6020		1			558149	01/14/22 13:49	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0219 g	559190	01/12/22 14:00	DPM	TAL SAC

Client Sample ID: GILBANETSP120921-1658

Lab Sample ID: 320-83746-12

Date Collected: 01/11/22 07:00

Matrix: Air

Date Received: 01/12/22 10:45

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			559191	01/12/22 14:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-83746-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22

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

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

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Method Summary

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

Job ID: 320-83746-1

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

Job ID: 320-83746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83746-1	GILBANEPM120921-1653	Air	01/06/22 14:39	01/12/22 10:45
320-83746-2	GILBANETSP120921-1653	Air	01/06/22 14:39	01/12/22 10:45
320-83746-3	GILBANEPM120921-1654	Air	01/06/22 14:49	01/12/22 10:45
320-83746-4	GILBANETSP120921-1654	Air	01/06/22 14:49	01/12/22 10:45
320-83746-5	GILBANEPM120921-1655	Air	01/06/22 14:54	01/12/22 10:45
320-83746-6	GILBANETSP120921-1655	Air	01/06/22 14:54	01/12/22 10:45
320-83746-7	GILBANEPM120921-1656	Air	01/11/22 07:24	01/12/22 10:45
320-83746-8	GILBANETSP120921-1656	Air	01/11/22 07:24	01/12/22 10:45
320-83746-9	GILBANEPM120921-1657	Air	01/11/22 07:11	01/12/22 10:45
320-83746-10	GILBANETSP120921-1657	Air	01/11/22 07:11	01/12/22 10:45
320-83746-11	GILBANEPM120921-1658	Air	01/11/22 07:00	01/12/22 10:45
320-83746-12	GILBANETSP120921-1658	Air	01/11/22 07:00	01/12/22 10:45

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT011122AIR



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

Comments:	Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SWG020 - Air Pb Mn Cu													Code Matrix
																	A Air
Equipment:																	Code Container/Preservative
																	1 1x 250-mL Plastic, 4 Degrees C
																	1 1x Envelope, None



320-83746 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring January 2022																		
Sample ID	Matrix	Date	Time	Samp Init.									Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
															Top	Bottom		
1	GILBANEPM120921-1653	A	01/06/2022	1439	KT	X		X					AMSE1	N2	0.00	0.00	1	VOLUME: 513.38 (M3)
2	GILBANETSP120921-1653	A	01/06/2022	1439	KT		X						AMSE1	N2	0.00	0.00	1	VOLUME: 493.80 (M3)
3	GILBANEPM120921-1654	A	01/06/2022	1449	KT	X		X					AMSE2	N2	0.00	0.00	1	VOLUME: 547.96 (M3)
4	GILBANETSP120921-1654	A	01/06/2022	1449	KT		X						AMSE2	N2	0.00	0.00	1	VOLUME: 552.28 (M3)
5	GILBANEPM120921-1655	A	01/06/2022	1454	KT	X		X					AMSE3	N2	0.00	0.00	1	VOLUME: 537.46 (M3)
6	GILBANETSP120921-1655	A	01/06/2022	1454	KT		X						AMSE3	N2	0.00	0.00	1	VOLUME: 542.47 (M3)
7	GILBANEPM120921-1656	A	01/11/2022	0724	KT	X		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1722.55 (M3)
8	GILBANETSP120921-1656	A	01/11/2022	0724	KT		X						AMSE1	N1	0.00	0.00	1	VOLUME: 1667.84 (M3)
9	GILBANEPM120921-1657	A	01/11/2022	0711	KT	X		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1724.51 (M3)
10	GILBANETSP120921-1657	A	01/11/2022	0711	KT		X						AMSE2	N1	0.00	0.00	1	VOLUME: 1725.09 (M3)
11	GILBANEPM120921-1658	A	01/11/2022	0700	KT	X		X					AMSE3	N1	0.00	0.00	1	VOLUME: 1618.15 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/11/22	1600	Feder	1/11/22	1600	Shipping Date: 1/11/2022 / FedEx 7757 1842 6639
			[Redacted]	1/12/22	1045	
						Received by Laboratory: (Signature, Date, Time) & condition
						14.5"

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1/20/2022



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT011122AIR



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

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SWG6020 - Air Pb Mn Cu	Code Matrix	
		A Air	
Equipment:		Code Container/Preservative	
		1 1x 250-mL Plastic, 4 Degrees C	
		1 1x Envelope, None	

Event: Parcel E Phase 2 Air Monitoring January 2022

	Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
												Top	Bottom		
12	GILBANETSP120921-1658	A	01/11/2022	0700	KT	X				AMSE3	N1	0.00	0.00	1	VOLUME: 1634.25 (M3)
13															
14															
15															
16															
17															
18															
19															
20															
21															

Turnaround Time: 5 days

Relinquished by: (Signature) [Redacted]	Date 1/11/22	Time 1600	Received by: (Signature) [Redacted]	Date 1/11/22	Time 1600	Shipping Date / Carrier / Airbill Number Shipping Date: 1/11/2022 / FedEx 7757 1842 6639
						Received by Laboratory: (Signature, Date, Time) & condition 14.5 ^{oc}



Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-83746-1

Login Number: 83746

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: 320-83882-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
Gilbane Federal
2355 E. Camelback Road
Suite 850
Phoenix, Arizona 85016

Attn: Ms. [REDACTED]
[REDACTED]

Authorized for release by:
1/24/2022 9:04:47 AM

[REDACTED]
[REDACTED]
[REDACTED]

LINKS

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results through
TotalAccess

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

Job ID: 320-83882-1

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

Job ID: 320-83882-1

Job ID: 320-83882-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-83882-1

Comments

No additional comments.

Receipt

The samples were received on 1/14/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 19.6° C.

Metals

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

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Detection Summary

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

Job ID: 320-83882-1

Client Sample ID: GILBANEPM121421-1659

Lab Sample ID: 320-83882-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.21		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	25		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1659

Lab Sample ID: 320-83882-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	31.1258		0.2987	0.2987	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1660

Lab Sample ID: 320-83882-3

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	0.18		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0074		0.00069	0.000097	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: GILBANETSP121421-1660

Lab Sample ID: 320-83882-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	27.4280		0.2887	0.2887	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1661

Lab Sample ID: 320-83882-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.035		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0062		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	17		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1661

Lab Sample ID: 320-83882-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.5234		0.3071	0.3071	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1662

Lab Sample ID: 320-83882-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0071		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0087		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	44		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1662

Lab Sample ID: 320-83882-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	50.3968		0.2961	0.2961	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1663

Lab Sample ID: 320-83882-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0067		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.22		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0059		0.00069	0.000096	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-83882-1

Client Sample ID: GILBANEPM121421-1663 (Continued)

Lab Sample ID: 320-83882-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	42		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1663

Lab Sample ID: 320-83882-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.2570		0.2843	0.2843	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1664

Lab Sample ID: 320-83882-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0043		0.00073	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.049		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0045		0.00073	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	28		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1664

Lab Sample ID: 320-83882-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	45.4233		0.3040	0.3040	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83882-1

Client Sample ID: GILBANEPM121421-1659

Lab Sample ID: 320-83882-1

Date Collected: 01/12/22 07:19

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.00069	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:30	1
Copper	0.21		0.0014	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:30	1
Manganese	0.011		0.00069	0.000096	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:30	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			01/16/22 14:45	1

Client Sample ID: GILBANETSP121421-1659

Lab Sample ID: 320-83882-2

Date Collected: 01/12/22 07:19

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.1258		0.2987	0.2987	ug/m3 (Air)			01/16/22 14:45	1

Client Sample ID: GILBANEPM121421-1660

Lab Sample ID: 320-83882-3

Date Collected: 01/12/22 07:10

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0031		0.00069	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:40	1
Copper	0.18		0.0014	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:40	1
Manganese	0.0074		0.00069	0.000097	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:40	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			01/16/22 14:45	1

Client Sample ID: GILBANETSP121421-1660

Lab Sample ID: 320-83882-4

Date Collected: 01/12/22 07:10

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	27.4280		0.2887	0.2887	ug/m3 (Air)			01/16/22 14:45	1

Client Sample ID: GILBANEPM121421-1661

Lab Sample ID: 320-83882-5

Date Collected: 01/12/22 07:00

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00074	0.00011	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:43	1
Copper	0.035		0.0015	0.00011	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:43	1
Manganese	0.0062		0.00074	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:43	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83882-1

Client Sample ID: GILBANEPM121421-1661

Lab Sample ID: 320-83882-5

Date Collected: 01/12/22 07:00

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	17		0.31	0.31	ug/m3			01/16/22 14:45	1

Client Sample ID: GILBANETSP121421-1661

Lab Sample ID: 320-83882-6

Date Collected: 01/12/22 07:00

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.5234		0.3071	0.3071	ug/m3 (Air)			01/16/22 14:45	1

Client Sample ID: GILBANEPM121421-1662

Lab Sample ID: 320-83882-7

Date Collected: 01/12/22 07:31

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0071		0.00068	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:46	1
Copper	0.13		0.0014	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:46	1
Manganese	0.0087		0.00068	0.000095	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	44		0.28	0.28	ug/m3			01/16/22 14:45	1

Client Sample ID: GILBANETSP121421-1662

Lab Sample ID: 320-83882-8

Date Collected: 01/13/22 07:31

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	50.3968		0.2961	0.2961	ug/m3 (Air)			01/16/22 14:45	1

Client Sample ID: GILBANEPM121421-1663

Lab Sample ID: 320-83882-9

Date Collected: 01/13/22 07:17

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0067		0.00069	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:49	1
Copper	0.22		0.0014	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:49	1
Manganese	0.0059		0.00069	0.000096	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	42		0.29	0.29	ug/m3			01/16/22 14:45	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-83882-1

Client Sample ID: GILBANETSP121421-1663

Lab Sample ID: 320-83882-10

Date Collected: 01/13/22 07:17

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.2570		0.2843	0.2843	ug/m3 (Air)			01/16/22 14:45	1

Client Sample ID: GILBANEPM121421-1664

Lab Sample ID: 320-83882-11

Date Collected: 01/13/22 07:09

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0043		0.00073	0.00011	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:53	1
Copper	0.049		0.0015	0.00011	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:53	1
Manganese	0.0045		0.00073	0.00010	ug/m3 (Air)		01/20/22 16:00	01/20/22 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.31	0.31	ug/m3			01/16/22 14:45	1

Client Sample ID: GILBANETSP121421-1664

Lab Sample ID: 320-83882-12

Date Collected: 01/13/22 07:09

Matrix: Air

Date Received: 01/14/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.4233		0.3040	0.3040	ug/m3 (Air)			01/16/22 14:45	1

QC Sample Results

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

Job ID: 320-83882-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-559476/1-B
Matrix: Air
Analysis Batch: 559595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559487

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0012	0.00018	ug/m3 (Air)		01/20/22 16:00	01/20/22 17:50	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		01/20/22 16:00	01/20/22 17:50	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		01/20/22 16:00	01/20/22 17:50	1

Lab Sample ID: LCS 320-559476/2-B
Matrix: Air
Analysis Batch: 559595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559487

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Lead	0.240	0.241		ug/m3 (Air)		101	86 - 111
Copper	0.240	0.242		ug/m3 (Air)		101	85 - 110
Manganese	0.240	0.233		ug/m3 (Air)		97	88 - 110

Lab Sample ID: LCSD 320-559476/3-B
Matrix: Air
Analysis Batch: 559595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559487

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Lead	0.240	0.249		ug/m3 (Air)		104	86 - 111	3	15
Copper	0.240	0.237		ug/m3 (Air)		99	85 - 110	2	15
Manganese	0.240	0.231		ug/m3 (Air)		96	88 - 110	1	15

QC Association Summary

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

Job ID: 320-83882-1

Metals

Pre Prep Batch: 559476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83882-1	GILBANEPM121421-1659	Total/NA	Air	Filter to Air	
320-83882-3	GILBANEPM121421-1660	Total/NA	Air	Filter to Air	
320-83882-5	GILBANEPM121421-1661	Total/NA	Air	Filter to Air	
320-83882-7	GILBANEPM121421-1662	Total/NA	Air	Filter to Air	
320-83882-9	GILBANEPM121421-1663	Total/NA	Air	Filter to Air	
320-83882-11	GILBANEPM121421-1664	Total/NA	Air	Filter to Air	
MB 320-559476/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-559476/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-559476/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 559487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83882-1	GILBANEPM121421-1659	Total/NA	Air	3050B	559476
320-83882-3	GILBANEPM121421-1660	Total/NA	Air	3050B	559476
320-83882-5	GILBANEPM121421-1661	Total/NA	Air	3050B	559476
320-83882-7	GILBANEPM121421-1662	Total/NA	Air	3050B	559476
320-83882-9	GILBANEPM121421-1663	Total/NA	Air	3050B	559476
320-83882-11	GILBANEPM121421-1664	Total/NA	Air	3050B	559476
MB 320-559476/1-B	Method Blank	Total/NA	Air	3050B	559476
LCS 320-559476/2-B	Lab Control Sample	Total/NA	Air	3050B	559476
LCSD 320-559476/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	559476

Analysis Batch: 559595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83882-1	GILBANEPM121421-1659	Total/NA	Air	6020	559487
320-83882-3	GILBANEPM121421-1660	Total/NA	Air	6020	559487
320-83882-5	GILBANEPM121421-1661	Total/NA	Air	6020	559487
320-83882-7	GILBANEPM121421-1662	Total/NA	Air	6020	559487
320-83882-9	GILBANEPM121421-1663	Total/NA	Air	6020	559487
320-83882-11	GILBANEPM121421-1664	Total/NA	Air	6020	559487
MB 320-559476/1-B	Method Blank	Total/NA	Air	6020	559487
LCS 320-559476/2-B	Lab Control Sample	Total/NA	Air	6020	559487
LCSD 320-559476/3-B	Lab Control Sample Dup	Total/NA	Air	6020	559487

General Chemistry

Pre Prep Batch: 558649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83882-2	GILBANETSP121421-1659	Total/NA	Air	Filter to Air	
320-83882-4	GILBANETSP121421-1660	Total/NA	Air	Filter to Air	
320-83882-6	GILBANETSP121421-1661	Total/NA	Air	Filter to Air	
320-83882-8	GILBANETSP121421-1662	Total/NA	Air	Filter to Air	
320-83882-10	GILBANETSP121421-1663	Total/NA	Air	Filter to Air	
320-83882-12	GILBANETSP121421-1664	Total/NA	Air	Filter to Air	

Analysis Batch: 559694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83882-1	GILBANEPM121421-1659	Total/NA	Air	PM10	
320-83882-3	GILBANEPM121421-1660	Total/NA	Air	PM10	
320-83882-5	GILBANEPM121421-1661	Total/NA	Air	PM10	
320-83882-7	GILBANEPM121421-1662	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-83882-1

General Chemistry (Continued)

Analysis Batch: 559694 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83882-9	GILBANEPM121421-1663	Total/NA	Air	PM10	
320-83882-11	GILBANEPM121421-1664	Total/NA	Air	PM10	

Analysis Batch: 559701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83882-2	GILBANETSP121421-1659	Total/NA	Air	40CFR50 App B	558649
320-83882-4	GILBANETSP121421-1660	Total/NA	Air	40CFR50 App B	558649
320-83882-6	GILBANETSP121421-1661	Total/NA	Air	40CFR50 App B	558649
320-83882-8	GILBANETSP121421-1662	Total/NA	Air	40CFR50 App B	558649
320-83882-10	GILBANETSP121421-1663	Total/NA	Air	40CFR50 App B	558649
320-83882-12	GILBANETSP121421-1664	Total/NA	Air	40CFR50 App B	558649

Lab Chronicle

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

Job ID: 320-83882-1

Client Sample ID: GILBANEPM121421-1659

Lab Sample ID: 320-83882-1

Date Collected: 01/12/22 07:19

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					559476	01/20/22 12:25	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	559487	01/20/22 16:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			559595	01/20/22 18:30	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0440 g	559694	01/16/22 14:45	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1659

Lab Sample ID: 320-83882-2

Date Collected: 01/12/22 07:19

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			559701	01/16/22 14:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1660

Lab Sample ID: 320-83882-3

Date Collected: 01/12/22 07:10

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					559476	01/20/22 12:25	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	559487	01/20/22 16:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			559595	01/20/22 18:40	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0379 g	559694	01/16/22 14:45	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1660

Lab Sample ID: 320-83882-4

Date Collected: 01/12/22 07:10

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			559701	01/16/22 14:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1661

Lab Sample ID: 320-83882-5

Date Collected: 01/12/22 07:00

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					559476	01/20/22 12:25	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	559487	01/20/22 16:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			559595	01/20/22 18:43	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0270 g	559694	01/16/22 14:45	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-83882-1

Client Sample ID: GILBANETSP121421-1661

Lab Sample ID: 320-83882-6

Date Collected: 01/12/22 07:00

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			559701	01/16/22 14:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1662

Lab Sample ID: 320-83882-7

Date Collected: 01/12/22 07:31

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					559476	01/20/22 12:25	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	559487	01/20/22 16:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			559595	01/20/22 18:46	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0768 g	559694	01/16/22 14:45	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1662

Lab Sample ID: 320-83882-8

Date Collected: 01/13/22 07:31

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			559701	01/16/22 14:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1663

Lab Sample ID: 320-83882-9

Date Collected: 01/13/22 07:17

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					559476	01/20/22 12:25	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	559487	01/20/22 16:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			559595	01/20/22 18:49	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0742 g	559694	01/16/22 14:45	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1663

Lab Sample ID: 320-83882-10

Date Collected: 01/13/22 07:17

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			559701	01/16/22 14:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-83882-1

Client Sample ID: GILBANEPM121421-1664

Lab Sample ID: 320-83882-11

Date Collected: 01/13/22 07:09

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					559476	01/20/22 12:25	DPM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	559487	01/20/22 16:00	DPM	TAL SAC
Total/NA	Analysis	6020		1			559595	01/20/22 18:53	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0462 g	559694	01/16/22 14:45	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1664

Lab Sample ID: 320-83882-12

Date Collected: 01/13/22 07:09

Matrix: Air

Date Received: 01/14/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			559701	01/16/22 14:45	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					558649	01/17/22 17:19	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-83882-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22

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

Job ID: 320-83882-1

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

Job ID: 320-83882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83882-1	GILBANEPM121421-1659	Air	01/12/22 07:19	01/14/22 10:00
320-83882-2	GILBANETSP121421-1659	Air	01/12/22 07:19	01/14/22 10:00
320-83882-3	GILBANEPM121421-1660	Air	01/12/22 07:10	01/14/22 10:00
320-83882-4	GILBANETSP121421-1660	Air	01/12/22 07:10	01/14/22 10:00
320-83882-5	GILBANEPM121421-1661	Air	01/12/22 07:00	01/14/22 10:00
320-83882-6	GILBANETSP121421-1661	Air	01/12/22 07:00	01/14/22 10:00
320-83882-7	GILBANEPM121421-1662	Air	01/12/22 07:31	01/14/22 10:00
320-83882-8	GILBANETSP121421-1662	Air	01/13/22 07:31	01/14/22 10:00
320-83882-9	GILBANEPM121421-1663	Air	01/13/22 07:17	01/14/22 10:00
320-83882-10	GILBANETSP121421-1663	Air	01/13/22 07:17	01/14/22 10:00
320-83882-11	GILBANEPM121421-1664	Air	01/13/22 07:09	01/14/22 10:00
320-83882-12	GILBANETSP121421-1664	Air	01/13/22 07:09	01/14/22 10:00



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT011322AIR



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

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
			A Air	
Equipment:			Code Container/Preservative	
			1 1x 250-mL Plastic, 4 Degrees C	
			1 1x Envelope, None	



Event: Parcel E Phase 2 Air Monitoring January 2022																			
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																Top	Bottom		
1	GILBANEPM121421-1659	A	01/12/2022	0719	KT	X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1747.12 (M3)
2	GILBANETSP121421-1659	A	01/12/2022	0719	KT		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1673.85 (M3)
3	GILBANEPM121421-1660	A	01/12/2022	0710	KT	X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1736.25 (M3)
4	GILBANETSP121421-1660	A	01/12/2022	0710	KT		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1731.81 (M3)
5	GILBANEPM121421-1661	A	01/12/2022	0700	KT	X	X							AMSE3	N1	0.00	0.00	1	VOLUME: 1624.39 (M3)
6	GILBANETSP121421-1661	A	01/12/2022	0700	KT		X							AMSE3	N1	0.00	0.00	1	VOLUME: 1628.26 (M3)
7	GILBANEPM121421-1662	A	01/12/2022	0731	KT	X	X							AMSE1	N1	0.00	0.00	1	VOLUME: 1763.03 (M3)
8	GILBANETSP121421-1662	A	01/13/2022	0731	KT		X							AMSE1	N1	0.00	0.00	1	VOLUME: 1688.60 (M3)
9	GILBANEPM121421-1663	A	01/13/2022	0717	KT	X	X							AMSE2	N1	0.00	0.00	1	VOLUME: 1747.12 (M3)
10	GILBANETSP121421-1663	A	01/13/2022	0717	KT		X							AMSE2	N1	0.00	0.00	1	VOLUME: 1758.47 (M3)
11	GILBANEPM121421-1664	A	01/13/2022	0709	KT	X	X							AMSE3	N1	0.00	0.00	1	VOLUME: 1638.40 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/13/22	1600	Fedex	1/13/22	1600	Shipping Date: 1/13/2022/FedEx 7757 4233 0195
			[Redacted]	1/4/22	1600	
						Received by Laboratory: (Signature, Date, Time) & condition
						19.6°C



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT011322AIR



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

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
			A Air	
Equipment:			Code Container/Preservative	
			1 1x 250-mL Plastic, 4 Degrees C	
			1 1x Envelope, None	

Event: Parcel E Phase 2 Air Monitoring January 2022														
	Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
12	GILBANETSP121421-1664	A	01/13/2022	0709	KT	X				AMSE3	N1	0.00 0.00	1	VOLUME: 1644.53 (M3)
13														
14														
15														
16														
17														
18														
19														
20														
21														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/13/22	1600	Fedex	1/13/22	1600	Shipping Date: 1/13/2022/FedEx 7757 4233 0195
			[Redacted]	1/14/22	000	
						Received by Laboratory: (Signature, Date, Time) & condition
						19.6 ^{oc}



Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-83882-1

Login Number: 83882

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: 320-84014-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
Gilbane Federal
2355 E. Camelback Road
Suite 850
Phoenix, Arizona 85016

Attn: Ms. [REDACTED]

[REDACTED]

Authorized for release by:
1/27/2022 9:26:11 AM

[REDACTED]
[REDACTED]
[REDACTED]

LINKS

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The
Expert**

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

Job ID: 320-84014-1

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

Job ID: 320-84014-1

Job ID: 320-84014-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84014-1

Comments

No additional comments.

Receipt

The samples were received on 1/19/2022 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 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: Gilbane Federal
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-84014-1

Client Sample ID: GILBANEPM121421-1665

Lab Sample ID: 320-84014-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0045		0.0023	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.076		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.014		0.0023	0.00032	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	51		0.94	0.94	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1665

Lab Sample ID: 320-84014-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	57.2325		0.9800	0.9800	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1666

Lab Sample ID: 320-84014-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0051		0.0022	0.00034	ug/m3 (Air)	1		6020	Total/NA
Copper	0.30		0.0045	0.00034	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0098		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	55		0.94	0.94	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1666

Lab Sample ID: 320-84014-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	61.4108		0.9390	0.9390	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1667

Lab Sample ID: 320-84014-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0039		0.0024	0.00036	ug/m3 (Air)	1		6020	Total/NA
Copper	0.13		0.0048	0.00036	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0094		0.0024	0.00033	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	43		0.99	0.99	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1667

Lab Sample ID: 320-84014-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	67.9966		0.9770	0.9770	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1668

Lab Sample ID: 320-84014-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.087		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0069		0.00070	0.000099	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: GILBANETSP121421-1668

Lab Sample ID: 320-84014-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	31.6353		0.3071	0.3071	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1669

Lab Sample ID: 320-84014-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0024		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0042		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-84014-1

Client Sample ID: GILBANEPM121421-1669 (Continued)

Lab Sample ID: 320-84014-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	18		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1669

Lab Sample ID: 320-84014-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.7872		0.2931	0.2931	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1670

Lab Sample ID: 320-84014-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0016		0.00075	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.024		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0044		0.00075	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1670

Lab Sample ID: 320-84014-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	32.5060		0.3102	0.3102	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84014-1

Client Sample ID: GILBANEPM121421-1665

Lab Sample ID: 320-84014-1

Date Collected: 01/13/22 14:55

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0045		0.0023	0.00034	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:36	1
Copper	0.076		0.0045	0.00034	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:36	1
Manganese	0.014		0.0023	0.00032	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	51		0.94	0.94	ug/m3			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1665

Lab Sample ID: 320-84014-2

Date Collected: 01/13/22 14:55

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	57.2325		0.9800	0.9800	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM121421-1666

Lab Sample ID: 320-84014-3

Date Collected: 01/13/22 14:47

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0051		0.0022	0.00034	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:46	1
Copper	0.30		0.0045	0.00034	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:46	1
Manganese	0.0098		0.0022	0.00031	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:46	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	55		0.94	0.94	ug/m3			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1666

Lab Sample ID: 320-84014-4

Date Collected: 01/13/22 14:47

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	61.4108		0.9390	0.9390	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM121421-1667

Lab Sample ID: 320-84014-5

Date Collected: 01/13/22 14:40

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0039		0.0024	0.00036	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:49	1
Copper	0.13		0.0048	0.00036	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:49	1
Manganese	0.0094		0.0024	0.00033	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:49	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84014-1

Client Sample ID: GILBANEPM121421-1667

Lab Sample ID: 320-84014-5

Date Collected: 01/13/22 14:40

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	43		0.99	0.99	ug/m3			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1667

Lab Sample ID: 320-84014-6

Date Collected: 01/13/22 14:40

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	67.9966		0.9770	0.9770	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM121421-1668

Lab Sample ID: 320-84014-7

Date Collected: 01/18/22 07:06

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00070	0.00011	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:52	1
Copper	0.087		0.0014	0.00011	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:52	1
Manganese	0.0069		0.00070	0.000099	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:52	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			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1668

Lab Sample ID: 320-84014-8

Date Collected: 01/18/22 07:06

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	31.6353		0.3071	0.3071	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM121421-1669

Lab Sample ID: 320-84014-9

Date Collected: 01/18/22 06:54

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0024		0.00070	0.00011	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:55	1
Copper	0.024		0.0014	0.00011	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:55	1
Manganese	0.0042		0.00070	0.000098	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18		0.29	0.29	ug/m3			01/24/22 08:00	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84014-1

Client Sample ID: GILBANETSP121421-1669

Lab Sample ID: 320-84014-10

Date Collected: 01/18/22 06:54

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.7872		0.2931	0.2931	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM121421-1670

Lab Sample ID: 320-84014-11

Date Collected: 01/18/22 06:45

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0016		0.00075	0.00011	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:59	1
Copper	0.024		0.0015	0.00011	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:59	1
Manganese	0.0044		0.00075	0.00010	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	15		0.31	0.31	ug/m3			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1670

Lab Sample ID: 320-84014-12

Date Collected: 01/18/22 06:45

Matrix: Air

Date Received: 01/19/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	32.5060		0.3102	0.3102	ug/m3 (Air)			01/24/22 08:00	1

QC Sample Results

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

Job ID: 320-84014-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-560731/1-B
Matrix: Air
Analysis Batch: 560900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 560736

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.0012	0.00018	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:05	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:05	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		01/26/22 09:45	01/26/22 14:05	1

Lab Sample ID: LCS 320-560731/2-B
Matrix: Air
Analysis Batch: 560900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 560736

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Lead	0.240	0.232		ug/m3 (Air)		97	86 - 111
Copper	0.240	0.256		ug/m3 (Air)		107	85 - 110
Manganese	0.240	0.250		ug/m3 (Air)		104	88 - 110

Lab Sample ID: LCSD 320-560731/3-B
Matrix: Air
Analysis Batch: 560900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 560736

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
		Result	Qualifier						
Lead	0.240	0.229		ug/m3 (Air)		95	86 - 111	1	15
Copper	0.240	0.261		ug/m3 (Air)		109	85 - 110	2	15
Manganese	0.240	0.245		ug/m3 (Air)		102	88 - 110	2	15

QC Association Summary

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

Job ID: 320-84014-1

Metals

Pre Prep Batch: 560731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84014-1	GILBANEPM121421-1665	Total/NA	Air	Filter to Air	
320-84014-3	GILBANEPM121421-1666	Total/NA	Air	Filter to Air	
320-84014-5	GILBANEPM121421-1667	Total/NA	Air	Filter to Air	
320-84014-7	GILBANEPM121421-1668	Total/NA	Air	Filter to Air	
320-84014-9	GILBANEPM121421-1669	Total/NA	Air	Filter to Air	
320-84014-11	GILBANEPM121421-1670	Total/NA	Air	Filter to Air	
MB 320-560731/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-560731/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-560731/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 560736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84014-1	GILBANEPM121421-1665	Total/NA	Air	3050B	560731
320-84014-3	GILBANEPM121421-1666	Total/NA	Air	3050B	560731
320-84014-5	GILBANEPM121421-1667	Total/NA	Air	3050B	560731
320-84014-7	GILBANEPM121421-1668	Total/NA	Air	3050B	560731
320-84014-9	GILBANEPM121421-1669	Total/NA	Air	3050B	560731
320-84014-11	GILBANEPM121421-1670	Total/NA	Air	3050B	560731
MB 320-560731/1-B	Method Blank	Total/NA	Air	3050B	560731
LCS 320-560731/2-B	Lab Control Sample	Total/NA	Air	3050B	560731
LCSD 320-560731/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	560731

Analysis Batch: 560900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84014-1	GILBANEPM121421-1665	Total/NA	Air	6020	560736
320-84014-3	GILBANEPM121421-1666	Total/NA	Air	6020	560736
320-84014-5	GILBANEPM121421-1667	Total/NA	Air	6020	560736
320-84014-7	GILBANEPM121421-1668	Total/NA	Air	6020	560736
320-84014-9	GILBANEPM121421-1669	Total/NA	Air	6020	560736
320-84014-11	GILBANEPM121421-1670	Total/NA	Air	6020	560736
MB 320-560731/1-B	Method Blank	Total/NA	Air	6020	560736
LCS 320-560731/2-B	Lab Control Sample	Total/NA	Air	6020	560736
LCSD 320-560731/3-B	Lab Control Sample Dup	Total/NA	Air	6020	560736

General Chemistry

Pre Prep Batch: 560548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84014-2	GILBANETSP121421-1665	Total/NA	Air	Filter to Air	
320-84014-4	GILBANETSP121421-1666	Total/NA	Air	Filter to Air	
320-84014-6	GILBANETSP121421-1667	Total/NA	Air	Filter to Air	
320-84014-8	GILBANETSP121421-1668	Total/NA	Air	Filter to Air	
320-84014-10	GILBANETSP121421-1669	Total/NA	Air	Filter to Air	
320-84014-12	GILBANETSP121421-1670	Total/NA	Air	Filter to Air	

Analysis Batch: 560943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84014-1	GILBANEPM121421-1665	Total/NA	Air	PM10	
320-84014-3	GILBANEPM121421-1666	Total/NA	Air	PM10	
320-84014-5	GILBANEPM121421-1667	Total/NA	Air	PM10	
320-84014-7	GILBANEPM121421-1668	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-84014-1

General Chemistry (Continued)

Analysis Batch: 560943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84014-9	GILBANEPM121421-1669	Total/NA	Air	PM10	
320-84014-11	GILBANEPM121421-1670	Total/NA	Air	PM10	

Analysis Batch: 560945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84014-2	GILBANETSP121421-1665	Total/NA	Air	40CFR50 App B	560548
320-84014-4	GILBANETSP121421-1666	Total/NA	Air	40CFR50 App B	560548
320-84014-6	GILBANETSP121421-1667	Total/NA	Air	40CFR50 App B	560548
320-84014-8	GILBANETSP121421-1668	Total/NA	Air	40CFR50 App B	560548
320-84014-10	GILBANETSP121421-1669	Total/NA	Air	40CFR50 App B	560548
320-84014-12	GILBANETSP121421-1670	Total/NA	Air	40CFR50 App B	560548



Lab Chronicle

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

Job ID: 320-84014-1

Client Sample ID: GILBANEPM121421-1665

Lab Sample ID: 320-84014-1

Date Collected: 01/13/22 14:55

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					560731	01/26/22 09:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	560736	01/26/22 09:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			560900	01/26/22 14:36	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0272 g	560943	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1665

Lab Sample ID: 320-84014-2

Date Collected: 01/13/22 14:55

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			560945	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1666

Lab Sample ID: 320-84014-3

Date Collected: 01/13/22 14:47

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					560731	01/26/22 09:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	560736	01/26/22 09:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			560900	01/26/22 14:46	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0294 g	560943	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1666

Lab Sample ID: 320-84014-4

Date Collected: 01/13/22 14:47

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			560945	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1667

Lab Sample ID: 320-84014-5

Date Collected: 01/13/22 14:40

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					560731	01/26/22 09:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	560736	01/26/22 09:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			560900	01/26/22 14:49	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0217 g	560943	01/24/22 08:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84014-1

Client Sample ID: GILBANETSP121421-1667

Lab Sample ID: 320-84014-6

Date Collected: 01/13/22 14:40

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			560945	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1668

Lab Sample ID: 320-84014-7

Date Collected: 01/18/22 07:06

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					560731	01/26/22 09:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	560736	01/26/22 09:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			560900	01/26/22 14:52	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0370 g	560943	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1668

Lab Sample ID: 320-84014-8

Date Collected: 01/18/22 07:06

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			560945	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1669

Lab Sample ID: 320-84014-9

Date Collected: 01/18/22 06:54

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					560731	01/26/22 09:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	560736	01/26/22 09:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			560900	01/26/22 14:55	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0300 g	560943	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1669

Lab Sample ID: 320-84014-10

Date Collected: 01/18/22 06:54

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			560945	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84014-1

Client Sample ID: GILBANEPM121421-1670

Lab Sample ID: 320-84014-11

Date Collected: 01/18/22 06:45

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					560731	01/26/22 09:35	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	560736	01/26/22 09:45	NIM	TAL SAC
Total/NA	Analysis	6020		1			560900	01/26/22 14:59	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0248 g	560943	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1670

Lab Sample ID: 320-84014-12

Date Collected: 01/18/22 06:45

Matrix: Air

Date Received: 01/19/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			560945	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-84014-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22

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

Job ID: 320-84014-1

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

Job ID: 320-84014-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84014-1	GILBANEPM121421-1665	Air	01/13/22 14:55	01/19/22 09:20
320-84014-2	GILBANETSP121421-1665	Air	01/13/22 14:55	01/19/22 09:20
320-84014-3	GILBANEPM121421-1666	Air	01/13/22 14:47	01/19/22 09:20
320-84014-4	GILBANETSP121421-1666	Air	01/13/22 14:47	01/19/22 09:20
320-84014-5	GILBANEPM121421-1667	Air	01/13/22 14:40	01/19/22 09:20
320-84014-6	GILBANETSP121421-1667	Air	01/13/22 14:40	01/19/22 09:20
320-84014-7	GILBANEPM121421-1668	Air	01/18/22 07:06	01/19/22 09:20
320-84014-8	GILBANETSP121421-1668	Air	01/18/22 07:06	01/19/22 09:20
320-84014-9	GILBANEPM121421-1669	Air	01/18/22 06:54	01/19/22 09:20
320-84014-10	GILBANETSP121421-1669	Air	01/18/22 06:54	01/19/22 09:20
320-84014-11	GILBANEPM121421-1670	Air	01/18/22 06:45	01/19/22 09:20
320-84014-12	GILBANETSP121421-1670	Air	01/18/22 06:45	01/19/22 09:20

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT011822AIR



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

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:		 320-84014 Chain of Custody	

Event: Parcel E Phase 2 Air Monitoring January 2022																
Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
													Top	Bottom		
1	GILBANEPM121421-1665	A	01/13/2022	1455	KT	X	X				AMSE1	N2	0.00	0.00	1	VOLUME: 533.24 (M3)
2	GILBANETSP121421-1665	A	01/13/2022	1455	KT		X				AMSE1	N2	0.00	0.00	1	VOLUME: 510.20 (M3)
3	GILBANEPM121421-1666	A	01/13/2022	1447	KT	X	X				AMSE2	N2	0.00	0.00	1	VOLUME: 534.28 (M3)
4	GILBANETSP121421-1666	A	01/13/2022	1447	KT		X				AMSE2	N2	0.00	0.00	1	VOLUME: 532.48 (M3)
5	GILBANEPM121421-1667	A	01/13/2022	1440	KT	X	X				AMSE3	N2	0.00	0.00	1	VOLUME: 504.61 (M3)
6	GILBANETSP121421-1667	A	01/13/2022	1440	KT		X				AMSE3	N2	0.00	0.00	1	VOLUME: 511.79 (M3)
7	GILBANEPM121421-1668	A	01/18/2022	0706	KT	X	X				AMSE1	N1	0.00	0.00	1	VOLUME: 1705.50 (M3)
8	GILBANETSP121421-1668	A	01/18/2022	0706	KT		X				AMSE1	N1	0.00	0.00	1	VOLUME: 1627.93 (M3)
9	GILBANEPM121421-1669	A	01/18/2022	0654	KT	X	X				AMSE2	N1	0.00	0.00	1	VOLUME: 1706.90 (M3)
10	GILBANETSP121421-1669	A	01/18/2022	0654	KT		X				AMSE2	N1	0.00	0.00	1	VOLUME: 1706.04 (M3)
11	GILBANEPM121421-1670	A	01/18/2022	0645	KT	X	X				AMSE3	N1	0.00	0.00	1	VOLUME: 1602.29 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/18/22	1600	Fedex	1/18/22	1600	Shipping Date: 1/18/2022 / FedEx 7757 8462 7322
			[Redacted]	1-19-22	920	
						Received by Laboratory: (Signature, Date, Time) & condition

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**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT011822AIR



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

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code	Matrix
			A	Air
Equipment:			Code	Container/Preservative
			1	1x 250-mL Plastic, 4 Degrees C
			1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring January 2022													
						1	1	1					
Sample ID	Matrix	Date	Time	Samp Init.					Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
12	GILBANETSP121421-1670	A	01/18/2022	0645	KT	X			AMSE3	N1	0.00 0.00	1	VOLUME: 1612.01 (M3)
13													
14			TP										
15													
16													
17													
18													
19													
20													
21													

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/18/22	1600	Fedex	1/18/22	1600	Shipping Date: 1/18/2022 / FedEx 7757 8462 7322
			[Redacted]	1-19-22	920	
						Received by Laboratory: (Signature, Date, Time) & condition

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1/27/2022



Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-84014-1

Login Number: 84014

List Source: Eurofins Sacramento

List Number: 1

Creator: [REDACTED]

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



ANALYTICAL REPORT

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

Laboratory Job ID: 320-84129-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
Gilbane Federal
2355 E. Camelback Road
Suite 850
Phoenix, Arizona 85016

Attn: [REDACTED]
[REDACTED]

Authorized for release by:
1/28/2022 7:36:00 PM

[REDACTED]
[REDACTED]
[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: Gilbane Federal
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-84129-1

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

Job ID: 320-84129-1

Job ID: 320-84129-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84129-1

Comments

No additional comments.

Receipt

The samples were received on 1/21/2022 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.2° C.

Metals

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

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Detection Summary

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

Job ID: 320-84129-1

Client Sample ID: GILBANEPM121421-1671

Lab Sample ID: 320-84129-1

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	0.14		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0043		0.00068	0.000095	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	18		0.28	0.28	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1671

Lab Sample ID: 320-84129-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	24.9145		0.2959	0.2959	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1672

Lab Sample ID: 320-84129-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00095		0.00068	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.073		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0026		0.00068	0.000096	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	15		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1672

Lab Sample ID: 320-84129-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	25.2579		0.2857	0.2857	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM121421-1673

Lab Sample ID: 320-84129-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00078		0.00073	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.041		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0022		0.00073	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	12		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP121421-1673

Lab Sample ID: 320-84129-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	22.4753		0.3029	0.3029	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1694

Lab Sample ID: 320-84129-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0011		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.083		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0035		0.00069	0.000096	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: GILBANETSP010422-1694

Lab Sample ID: 320-84129-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	20.8439		0.2986	0.2986	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1695

Lab Sample ID: 320-84129-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00083		0.00070	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.031		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0026		0.00070	0.000097	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-84129-1

Client Sample ID: GILBANEPM010422-1695 (Continued)

Lab Sample ID: 320-84129-9

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

Client Sample ID: GILBANETSP010422-1695

Lab Sample ID: 320-84129-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	13.3258		0.2872	0.2872	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1696

Lab Sample ID: 320-84129-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00064	J	0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.018		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0025		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	11		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1696

Lab Sample ID: 320-84129-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	22.9256		0.3081	0.3081	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84129-1

Client Sample ID: GILBANEPM121421-1671

Lab Sample ID: 320-84129-1

Date Collected: 01/19/22 07:23

Matrix: Air

Date Received: 01/21/22 10:35

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)		01/27/22 10:00	01/28/22 02:49	1
Copper	0.14		0.0014	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 02:49	1
Manganese	0.0043		0.00068	0.000095	ug/m3 (Air)		01/27/22 10:00	01/28/22 02:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18		0.28	0.28	ug/m3			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1671

Lab Sample ID: 320-84129-2

Date Collected: 01/19/22 07:23

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	24.9145		0.2959	0.2959	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM121421-1672

Lab Sample ID: 320-84129-3

Date Collected: 01/19/22 07:10

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00095		0.00068	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:12	1
Copper	0.073		0.0014	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:12	1
Manganese	0.0026		0.00068	0.000096	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:12	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			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1672

Lab Sample ID: 320-84129-4

Date Collected: 01/19/22 07:10

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	25.2579		0.2857	0.2857	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM121421-1673

Lab Sample ID: 320-84129-5

Date Collected: 01/19/22 07:00

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00078		0.00073	0.00011	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:15	1
Copper	0.041		0.0015	0.00011	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:15	1
Manganese	0.0022		0.00073	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:15	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84129-1

Client Sample ID: GILBANEPM121421-1673

Lab Sample ID: 320-84129-5

Date Collected: 01/19/22 07:00

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	12		0.31	0.31	ug/m3			01/24/22 08:00	1

Client Sample ID: GILBANETSP121421-1673

Lab Sample ID: 320-84129-6

Date Collected: 01/19/22 07:00

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.4753		0.3029	0.3029	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM010422-1694

Lab Sample ID: 320-84129-7

Date Collected: 01/20/22 07:22

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0011		0.00069	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:18	1
Copper	0.083		0.0014	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:18	1
Manganese	0.0035		0.00069	0.000096	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:18	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			01/24/22 08:00	1

Client Sample ID: GILBANETSP010422-1694

Lab Sample ID: 320-84129-8

Date Collected: 01/20/22 07:22

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	20.8439		0.2986	0.2986	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM010422-1695

Lab Sample ID: 320-84129-9

Date Collected: 01/20/22 07:08

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00083		0.00070	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:21	1
Copper	0.031		0.0014	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:21	1
Manganese	0.0026		0.00070	0.000097	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	13		0.29	0.29	ug/m3			01/24/22 08:00	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84129-1

Client Sample ID: GILBANETSP010422-1695

Lab Sample ID: 320-84129-10

Date Collected: 01/20/22 07:08

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	13.3258		0.2872	0.2872	ug/m3 (Air)			01/24/22 08:00	1

Client Sample ID: GILBANEPM010422-1696

Lab Sample ID: 320-84129-11

Date Collected: 01/20/22 06:57

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00064	J	0.00074	0.00011	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:25	1
Copper	0.018		0.0015	0.00011	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:25	1
Manganese	0.0025		0.00074	0.00010	ug/m3 (Air)		01/27/22 10:00	01/28/22 03:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	11		0.31	0.31	ug/m3			01/24/22 08:00	1

Client Sample ID: GILBANETSP010422-1696

Lab Sample ID: 320-84129-12

Date Collected: 01/20/22 06:57

Matrix: Air

Date Received: 01/21/22 10:35

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.9256		0.3081	0.3081	ug/m3 (Air)			01/24/22 08:00	1

QC Sample Results

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

Job ID: 320-84129-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-561114/1-B
Matrix: Air
Analysis Batch: 561445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 561115

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		01/27/22 10:00	01/28/22 02:30	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		01/27/22 10:00	01/28/22 02:30	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		01/27/22 10:00	01/28/22 02:30	1

Lab Sample ID: LCS 320-561114/2-B
Matrix: Air
Analysis Batch: 561445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 561115

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.242		ug/m3 (Air)		101	86 - 111
Copper	0.240	0.255		ug/m3 (Air)		106	85 - 110
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110

Lab Sample ID: LCSD 320-561114/3-B
Matrix: Air
Analysis Batch: 561445

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 561115

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.243		ug/m3 (Air)		101	86 - 111	0	15
Copper	0.240	0.256		ug/m3 (Air)		107	85 - 110	0	15
Manganese	0.240	0.247		ug/m3 (Air)		103	88 - 110	0	15

QC Association Summary

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

Job ID: 320-84129-1

Metals

Pre Prep Batch: 561114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84129-1	GILBANEPM121421-1671	Total/NA	Air	Filter to Air	
320-84129-3	GILBANEPM121421-1672	Total/NA	Air	Filter to Air	
320-84129-5	GILBANEPM121421-1673	Total/NA	Air	Filter to Air	
320-84129-7	GILBANEPM010422-1694	Total/NA	Air	Filter to Air	
320-84129-9	GILBANEPM010422-1695	Total/NA	Air	Filter to Air	
320-84129-11	GILBANEPM010422-1696	Total/NA	Air	Filter to Air	
MB 320-561114/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-561114/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-561114/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 561115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84129-1	GILBANEPM121421-1671	Total/NA	Air	3050B	561114
320-84129-3	GILBANEPM121421-1672	Total/NA	Air	3050B	561114
320-84129-5	GILBANEPM121421-1673	Total/NA	Air	3050B	561114
320-84129-7	GILBANEPM010422-1694	Total/NA	Air	3050B	561114
320-84129-9	GILBANEPM010422-1695	Total/NA	Air	3050B	561114
320-84129-11	GILBANEPM010422-1696	Total/NA	Air	3050B	561114
MB 320-561114/1-B	Method Blank	Total/NA	Air	3050B	561114
LCS 320-561114/2-B	Lab Control Sample	Total/NA	Air	3050B	561114
LCSD 320-561114/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	561114

Analysis Batch: 561445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84129-1	GILBANEPM121421-1671	Total/NA	Air	6020	561115
320-84129-3	GILBANEPM121421-1672	Total/NA	Air	6020	561115
320-84129-5	GILBANEPM121421-1673	Total/NA	Air	6020	561115
320-84129-7	GILBANEPM010422-1694	Total/NA	Air	6020	561115
320-84129-9	GILBANEPM010422-1695	Total/NA	Air	6020	561115
320-84129-11	GILBANEPM010422-1696	Total/NA	Air	6020	561115
MB 320-561114/1-B	Method Blank	Total/NA	Air	6020	561115
LCS 320-561114/2-B	Lab Control Sample	Total/NA	Air	6020	561115
LCSD 320-561114/3-B	Lab Control Sample Dup	Total/NA	Air	6020	561115

General Chemistry

Pre Prep Batch: 560548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84129-2	GILBANETSP121421-1671	Total/NA	Air	Filter to Air	
320-84129-4	GILBANETSP121421-1672	Total/NA	Air	Filter to Air	
320-84129-6	GILBANETSP121421-1673	Total/NA	Air	Filter to Air	
320-84129-8	GILBANETSP010422-1694	Total/NA	Air	Filter to Air	
320-84129-10	GILBANETSP010422-1695	Total/NA	Air	Filter to Air	
320-84129-12	GILBANETSP010422-1696	Total/NA	Air	Filter to Air	

Analysis Batch: 561630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84129-1	GILBANEPM121421-1671	Total/NA	Air	PM10	
320-84129-3	GILBANEPM121421-1672	Total/NA	Air	PM10	
320-84129-5	GILBANEPM121421-1673	Total/NA	Air	PM10	
320-84129-7	GILBANEPM010422-1694	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-84129-1

General Chemistry (Continued)

Analysis Batch: 561630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84129-9	GILBANEPM010422-1695	Total/NA	Air	PM10	
320-84129-11	GILBANEPM010422-1696	Total/NA	Air	PM10	

Analysis Batch: 561633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84129-2	GILBANETSP121421-1671	Total/NA	Air	40CFR50 App B	560548
320-84129-4	GILBANETSP121421-1672	Total/NA	Air	40CFR50 App B	560548
320-84129-6	GILBANETSP121421-1673	Total/NA	Air	40CFR50 App B	560548
320-84129-8	GILBANETSP010422-1694	Total/NA	Air	40CFR50 App B	560548
320-84129-10	GILBANETSP010422-1695	Total/NA	Air	40CFR50 App B	560548
320-84129-12	GILBANETSP010422-1696	Total/NA	Air	40CFR50 App B	560548

Lab Chronicle

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

Job ID: 320-84129-1

Client Sample ID: GILBANEPM121421-1671

Lab Sample ID: 320-84129-1

Date Collected: 01/19/22 07:23

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					561114	01/27/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	561115	01/27/22 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			561445	01/28/22 02:49	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0314 g	561630	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1671

Lab Sample ID: 320-84129-2

Date Collected: 01/19/22 07:23

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			561633	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1672

Lab Sample ID: 320-84129-3

Date Collected: 01/19/22 07:10

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					561114	01/27/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	561115	01/27/22 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			561445	01/28/22 03:12	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0256 g	561630	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP121421-1672

Lab Sample ID: 320-84129-4

Date Collected: 01/19/22 07:10

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			561633	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM121421-1673

Lab Sample ID: 320-84129-5

Date Collected: 01/19/22 07:00

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					561114	01/27/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	561115	01/27/22 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			561445	01/28/22 03:15	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0199 g	561630	01/24/22 08:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84129-1

Client Sample ID: GILBANETSP121421-1673

Lab Sample ID: 320-84129-6

Date Collected: 01/19/22 07:00

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			561633	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1694

Lab Sample ID: 320-84129-7

Date Collected: 01/20/22 07:22

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					561114	01/27/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	561115	01/27/22 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			561445	01/28/22 03:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0242 g	561630	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1694

Lab Sample ID: 320-84129-8

Date Collected: 01/20/22 07:22

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			561633	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1695

Lab Sample ID: 320-84129-9

Date Collected: 01/20/22 07:08

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					561114	01/27/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	561115	01/27/22 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			561445	01/28/22 03:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0222 g	561630	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1695

Lab Sample ID: 320-84129-10

Date Collected: 01/20/22 07:08

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			561633	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84129-1

Client Sample ID: GILBANEPM010422-1696

Lab Sample ID: 320-84129-11

Date Collected: 01/20/22 06:57

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					561114	01/27/22 09:45	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	561115	01/27/22 10:00	NIM	TAL SAC
Total/NA	Analysis	6020		1			561445	01/28/22 03:25	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0177 g	561630	01/24/22 08:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1696

Lab Sample ID: 320-84129-12

Date Collected: 01/20/22 06:57

Matrix: Air

Date Received: 01/21/22 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			561633	01/24/22 08:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					560548	01/25/22 14:46	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-84129-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22

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

Job ID: 320-84129-1

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

Job ID: 320-84129-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84129-1	GILBANEPM121421-1671	Air	01/19/22 07:23	01/21/22 10:35
320-84129-2	GILBANETSP121421-1671	Air	01/19/22 07:23	01/21/22 10:35
320-84129-3	GILBANEPM121421-1672	Air	01/19/22 07:10	01/21/22 10:35
320-84129-4	GILBANETSP121421-1672	Air	01/19/22 07:10	01/21/22 10:35
320-84129-5	GILBANEPM121421-1673	Air	01/19/22 07:00	01/21/22 10:35
320-84129-6	GILBANETSP121421-1673	Air	01/19/22 07:00	01/21/22 10:35
320-84129-7	GILBANEPM010422-1694	Air	01/20/22 07:22	01/21/22 10:35
320-84129-8	GILBANETSP010422-1694	Air	01/20/22 07:22	01/21/22 10:35
320-84129-9	GILBANEPM010422-1695	Air	01/20/22 07:08	01/21/22 10:35
320-84129-10	GILBANETSP010422-1695	Air	01/20/22 07:08	01/21/22 10:35
320-84129-11	GILBANEPM010422-1696	Air	01/20/22 06:57	01/21/22 10:35
320-84129-12	GILBANETSP010422-1696	Air	01/20/22 06:57	01/21/22 10:35

- 1
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**CHAIN-OF-CUSTODY
RECORD**


Gilbane Federal

COC # KT012022AIR



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

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix
		A Air
Equipment:		Code Container/Preservative
		1 1x 250-mL Plastic, 4 Degrees C
		1 1x Envelope, None



320-84129 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring January 2022																				
Sample ID	Matrix	Date	Time	Samp Init.	X	X	X	X	X	X	X	X	X	X	Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
																	Top	Bottom		
1	GILBANEPM121421-1671	A	01/19/2022	0723	KT	X	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1767.88 (M3)
2	GILBANETSP121421-1671	A	01/19/2022	0723	KT		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1689.78 (M3)
3	GILBANEPM121421-1672	A	01/19/2022	0710	KT	X	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1752.06 (M3)
4	GILBANETSP121421-1672	A	01/19/2022	0710	KT		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1749.95 (M3)
5	GILBANEPM121421-1673	A	01/19/2022	0700	KT	X	X								AMSE3	N1	0.00	0.00	1	VOLUME: 1638.52 (M3)
6	GILBANETSP121421-1673	A	01/19/2022	0700	KT		X								AMSE3	N1	0.00	0.00	1	VOLUME: 1650.70 (M3)
7	GILBANEPM010422-1694	A	01/20/2022	0722	KT	X	X								AMSE1	N1	0.00	0.00	1	VOLUME: 1749.26 (M3)
8	GILBANETSP010422-1694	A	01/20/2022	0722	KT		X								AMSE1	N1	0.00	0.00	1	VOLUME: 1674.35 (M3)
9	GILBANEPM010422-1695	A	01/20/2022	0708	KT	X	X								AMSE2	N1	0.00	0.00	1	VOLUME: 1723.91 (M3)
10	GILBANETSP010422-1695	A	01/20/2022	0708	KT		X								AMSE2	N1	0.00	0.00	1	VOLUME: 1740.98 (M3)
11	GILBANEPM010422-1696	A	01/20/2022	0657	KT	X	X								AMSE3	N1	0.00	0.00	1	VOLUME: 1612.39 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/20/22	1600	Edex	1/20/22	1600	Shipping Date: 1/20/2022/FedEx 7758 1004 6594
			[Redacted]	1/20/22	1035	
						Received by Laboratory: (Signature, Date, Time) & condition



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT012022AIR



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

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
			A Air	
Equipment:			Code Container/Preservative	
			1 1x 250-mL Plastic, 4 Degrees C	
			1 1x Envelope, None	

Event: Parcel E Phase 2 Air Monitoring January 2022						1	1	1												
Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs) Top - Bottom		Cooler	Comments				
12	GILBANETSP010422-1696	A	01/20/2022	0657	KT	X					AMSE3	N1	0.00	0.00	1	VOLUME: 1622.64 (M3)				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/20/22	1600	Fedex	1/20/22	1600	Shipping Date: 1/20/2022/FedEx 7758 1004 6594
			[Redacted]	1/20/22	1835	
						Received by Laboratory: (Signature, Date, Time) & condition

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1/28/2022



Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-84129-1

Login Number: 84129

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	
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: 320-84202-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

For:
Gilbane Federal
2355 E. Camelback Road
Suite 850
Phoenix, Arizona 85016

Attn: [REDACTED]

Authorized for release by:
2/2/2022 6:50:18 PM



LINKS

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

Job ID: 320-84202-1

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

Job ID: 320-84202-1

Job ID: 320-84202-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84202-1

Comments

No additional comments.

Receipt

The samples were received on 1/26/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 18.4° 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: Gilbane Federal
Project/Site: Hunters Point, Parcel E, Phase 2

Job ID: 320-84202-1

Client Sample ID: GILBANEPM010422-1697

Lab Sample ID: 320-84202-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0037		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.22		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	23		0.86	0.86	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1697

Lab Sample ID: 320-84202-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	26.7610		0.8980	0.8980	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1698

Lab Sample ID: 320-84202-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0022		0.0020	0.00030	ug/m3 (Air)	1		6020	Total/NA
Copper	0.090		0.0040	0.00030	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0077		0.0020	0.00028	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	16		0.84	0.84	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1698

Lab Sample ID: 320-84202-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	15.5351		0.8263	0.8263	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1699

Lab Sample ID: 320-84202-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.029		0.0041	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0083		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	18		0.86	0.86	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1699

Lab Sample ID: 320-84202-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.6327		0.9158	0.9158	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1700

Lab Sample ID: 320-84202-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0034		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0087		0.00070	0.000099	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: GILBANETSP010422-1700

Lab Sample ID: 320-84202-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	30.8442		0.3000	0.3000	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1701

Lab Sample ID: 320-84202-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0035		0.00070	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.037		0.0014	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0081		0.00070	0.000098	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-84202-1

Client Sample ID: GILBANEPM010422-1701 (Continued)

Lab Sample ID: 320-84202-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	33		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1701

Lab Sample ID: 320-84202-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	44.9819		0.2898	0.2898	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1702

Lab Sample ID: 320-84202-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00075	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.056		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0063		0.00075	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	26		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1702

Lab Sample ID: 320-84202-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	45.6826		0.3078	0.3078	ug/m3 (Air)	1		40CFR50 App B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84202-1

Client Sample ID: GILBANEPM010422-1697

Lab Sample ID: 320-84202-1

Date Collected: 01/20/22 15:48

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0037		0.0021	0.00031	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:32	1
Copper	0.22		0.0041	0.00031	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:32	1
Manganese	0.012		0.0021	0.00029	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:32	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	23		0.86	0.86	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1697

Lab Sample ID: 320-84202-2

Date Collected: 01/20/22 15:48

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	26.7610		0.8980	0.8980	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1698

Lab Sample ID: 320-84202-3

Date Collected: 01/20/22 15:08

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0022		0.0020	0.00030	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:42	1
Copper	0.090		0.0040	0.00030	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:42	1
Manganese	0.0077		0.0020	0.00028	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:42	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	16		0.84	0.84	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1698

Lab Sample ID: 320-84202-4

Date Collected: 01/20/22 15:08

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	15.5351		0.8263	0.8263	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1699

Lab Sample ID: 320-84202-5

Date Collected: 01/20/22 15:40

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021		0.0021	0.00031	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:46	1
Copper	0.029		0.0041	0.00031	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:46	1
Manganese	0.0083		0.0021	0.00029	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:46	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84202-1

Client Sample ID: GILBANEPM010422-1699

Lab Sample ID: 320-84202-5

Date Collected: 01/20/22 15:40

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	18		0.86	0.86	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1699

Lab Sample ID: 320-84202-6

Date Collected: 01/20/22 15:40

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.6327		0.9158	0.9158	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1700

Lab Sample ID: 320-84202-7

Date Collected: 01/25/22 07:09

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0034		0.00070	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:49	1
Copper	0.12		0.0014	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:49	1
Manganese	0.0087		0.00070	0.000099	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:49	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	34		0.29	0.29	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1700

Lab Sample ID: 320-84202-8

Date Collected: 01/25/22 07:09

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	30.8442		0.3000	0.3000	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1701

Lab Sample ID: 320-84202-9

Date Collected: 01/25/22 06:58

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0035		0.00070	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:52	1
Copper	0.037		0.0014	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:52	1
Manganese	0.0081		0.00070	0.000098	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:52	1

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			01/29/22 16:00	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84202-1

Client Sample ID: GILBANETSP010422-1701

Lab Sample ID: 320-84202-10

Date Collected: 01/25/22 06:58

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	44.9819		0.2898	0.2898	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1702

Lab Sample ID: 320-84202-11

Date Collected: 01/25/22 06:48

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00075	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:55	1
Copper	0.056		0.0015	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:55	1
Manganese	0.0063		0.00075	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 03:55	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	26		0.31	0.31	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1702

Lab Sample ID: 320-84202-12

Date Collected: 01/25/22 06:48

Matrix: Air

Date Received: 01/26/22 10:00

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	45.6826		0.3078	0.3078	ug/m3 (Air)			01/29/22 16:00	1

QC Sample Results

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

Job ID: 320-84202-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-562219/1-B
Matrix: Air
Analysis Batch: 562742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 562229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/01/22 06:18	02/02/22 08:54	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/01/22 06:18	02/02/22 08:54	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/01/22 06:18	02/02/22 08:54	1

Lab Sample ID: LCS 320-562219/2-B
Matrix: Air
Analysis Batch: 562742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 562229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.226		ug/m3 (Air)		94	86 - 111
Copper	0.240	0.235		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-562219/3-B
Matrix: Air
Analysis Batch: 562742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 562229

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.230		ug/m3 (Air)		96	86 - 111	2	15
Copper	0.240	0.235		ug/m3 (Air)		98	85 - 110	0	15
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110	0	15

QC Association Summary

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

Job ID: 320-84202-1

Metals

Pre Prep Batch: 562219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84202-1	GILBANEPM010422-1697	Total/NA	Air	Filter to Air	
320-84202-3	GILBANEPM010422-1698	Total/NA	Air	Filter to Air	
320-84202-5	GILBANEPM010422-1699	Total/NA	Air	Filter to Air	
320-84202-7	GILBANEPM010422-1700	Total/NA	Air	Filter to Air	
320-84202-9	GILBANEPM010422-1701	Total/NA	Air	Filter to Air	
320-84202-11	GILBANEPM010422-1702	Total/NA	Air	Filter to Air	
MB 320-562219/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-562219/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-562219/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 562229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84202-1	GILBANEPM010422-1697	Total/NA	Air	3050B	562219
320-84202-3	GILBANEPM010422-1698	Total/NA	Air	3050B	562219
320-84202-5	GILBANEPM010422-1699	Total/NA	Air	3050B	562219
320-84202-7	GILBANEPM010422-1700	Total/NA	Air	3050B	562219
320-84202-9	GILBANEPM010422-1701	Total/NA	Air	3050B	562219
320-84202-11	GILBANEPM010422-1702	Total/NA	Air	3050B	562219
MB 320-562219/1-B	Method Blank	Total/NA	Air	3050B	562219
LCS 320-562219/2-B	Lab Control Sample	Total/NA	Air	3050B	562219
LCSD 320-562219/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	562219

Analysis Batch: 562742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84202-1	GILBANEPM010422-1697	Total/NA	Air	6020	562229
320-84202-3	GILBANEPM010422-1698	Total/NA	Air	6020	562229
320-84202-5	GILBANEPM010422-1699	Total/NA	Air	6020	562229
320-84202-7	GILBANEPM010422-1700	Total/NA	Air	6020	562229
320-84202-9	GILBANEPM010422-1701	Total/NA	Air	6020	562229
320-84202-11	GILBANEPM010422-1702	Total/NA	Air	6020	562229
MB 320-562219/1-B	Method Blank	Total/NA	Air	6020	562229
LCS 320-562219/2-B	Lab Control Sample	Total/NA	Air	6020	562229
LCSD 320-562219/3-B	Lab Control Sample Dup	Total/NA	Air	6020	562229

General Chemistry

Pre Prep Batch: 562831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84202-2	GILBANETSP010422-1697	Total/NA	Air	Filter to Air	
320-84202-4	GILBANETSP010422-1698	Total/NA	Air	Filter to Air	
320-84202-6	GILBANETSP010422-1699	Total/NA	Air	Filter to Air	
320-84202-8	GILBANETSP010422-1700	Total/NA	Air	Filter to Air	
320-84202-10	GILBANETSP010422-1701	Total/NA	Air	Filter to Air	
320-84202-12	GILBANETSP010422-1702	Total/NA	Air	Filter to Air	

Analysis Batch: 562832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84202-1	GILBANEPM010422-1697	Total/NA	Air	PM10	
320-84202-3	GILBANEPM010422-1698	Total/NA	Air	PM10	
320-84202-5	GILBANEPM010422-1699	Total/NA	Air	PM10	
320-84202-7	GILBANEPM010422-1700	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-84202-1

General Chemistry (Continued)

Analysis Batch: 562832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84202-9	GILBANEPM010422-1701	Total/NA	Air	PM10	
320-84202-11	GILBANEPM010422-1702	Total/NA	Air	PM10	

Analysis Batch: 562833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84202-2	GILBANETSP010422-1697	Total/NA	Air	40CFR50 App B	562831
320-84202-4	GILBANETSP010422-1698	Total/NA	Air	40CFR50 App B	562831
320-84202-6	GILBANETSP010422-1699	Total/NA	Air	40CFR50 App B	562831
320-84202-8	GILBANETSP010422-1700	Total/NA	Air	40CFR50 App B	562831
320-84202-10	GILBANETSP010422-1701	Total/NA	Air	40CFR50 App B	562831
320-84202-12	GILBANETSP010422-1702	Total/NA	Air	40CFR50 App B	562831

Lab Chronicle

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

Job ID: 320-84202-1

Client Sample ID: GILBANEPM010422-1697

Lab Sample ID: 320-84202-1

Date Collected: 01/20/22 15:48

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 03:32	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0136 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1697

Lab Sample ID: 320-84202-2

Date Collected: 01/20/22 15:48

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1698

Lab Sample ID: 320-84202-3

Date Collected: 01/20/22 15:08

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 03:42	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0097 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1698

Lab Sample ID: 320-84202-4

Date Collected: 01/20/22 15:08

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1699

Lab Sample ID: 320-84202-5

Date Collected: 01/20/22 15:40

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 03:46	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0105 g	562832	01/29/22 16:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84202-1

Client Sample ID: GILBANETSP010422-1699

Lab Sample ID: 320-84202-6

Date Collected: 01/20/22 15:40

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1700

Lab Sample ID: 320-84202-7

Date Collected: 01/25/22 07:09

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 03:49	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0581 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1700

Lab Sample ID: 320-84202-8

Date Collected: 01/25/22 07:09

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1701

Lab Sample ID: 320-84202-9

Date Collected: 01/25/22 06:58

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 03:52	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0560 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1701

Lab Sample ID: 320-84202-10

Date Collected: 01/25/22 06:58

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84202-1

Client Sample ID: GILBANEPM010422-1702

Lab Sample ID: 320-84202-11

Date Collected: 01/25/22 06:48

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 03:55	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0419 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1702

Lab Sample ID: 320-84202-12

Date Collected: 01/25/22 06:48

Matrix: Air

Date Received: 01/26/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 320-84202-1

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

- 1
- 2
- 3
- 4
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- 10
- 11
- 12
- 13
- 14

Method Summary

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

Job ID: 320-84202-1

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

Job ID: 320-84202-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84202-1	GILBANEPM010422-1697	Air	01/20/22 15:48	01/26/22 10:00
320-84202-2	GILBANETSP010422-1697	Air	01/20/22 15:48	01/26/22 10:00
320-84202-3	GILBANEPM010422-1698	Air	01/20/22 15:08	01/26/22 10:00
320-84202-4	GILBANETSP010422-1698	Air	01/20/22 15:08	01/26/22 10:00
320-84202-5	GILBANEPM010422-1699	Air	01/20/22 15:40	01/26/22 10:00
320-84202-6	GILBANETSP010422-1699	Air	01/20/22 15:40	01/26/22 10:00
320-84202-7	GILBANEPM010422-1700	Air	01/25/22 07:09	01/26/22 10:00
320-84202-8	GILBANETSP010422-1700	Air	01/25/22 07:09	01/26/22 10:00
320-84202-9	GILBANEPM010422-1701	Air	01/25/22 06:58	01/26/22 10:00
320-84202-10	GILBANETSP010422-1701	Air	01/25/22 06:58	01/26/22 10:00
320-84202-11	GILBANEPM010422-1702	Air	01/25/22 06:48	01/26/22 10:00
320-84202-12	GILBANETSP010422-1702	Air	01/25/22 06:48	01/26/22 10:00

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**CHAIN-OF-CUSTODY
RECORD**


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

COC # KT012522AIR



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

Comments:	Analytical Test Method CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
		A Air	
Equipment:		Code Container/Preservative	
		1 1x 250-mL Plastic, 4 Degrees C	
		1 1x Envelope, None	


 320-84202 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring January 2022														
Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample		Comments
												Type	Depth (ft bgs) Top - Bottom	
1	GILBANEPM010422-1697	A	01/20/2022	1548	KT	X	X				AMSE1	N2	0.00 0.00	1 VOLUME: 584.30 (M3)
2	GILBANETSP010422-1697	A	01/20/2022	1548	KT		X				AMSE1	N2	0.00 0.00	1 VOLUME: 556.78 (M3)
3	GILBANEPM010422-1698	A	01/20/2022	1508	KT	X	X				AMSE2	N2	0.00 0.00	1 VOLUME: 597.72 (M3)
4	GILBANETSP010422-1698	A	01/20/2022	1508	KT		X				AMSE2	N2	0.00 0.00	1 VOLUME: 605.08 (M3)
5	GILBANEPM010422-1699	A	01/20/2022	1540	KT	X	X				AMSE3	N2	0.00 0.00	1 VOLUME: 582.48 (M3)
6	GILBANETSP010422-1699	A	01/20/2022	1540	KT		X				AMSE3	N2	0.00 0.00	1 VOLUME: 545.96 (M3)
7	GILBANEPM010422-1700	A	01/25/2022	0709	KT	X	X				AMSE1	N1	0.00 0.00	1 VOLUME: 1703.96 (M3)
8	GILBANETSP010422-1700	A	01/25/2022	0709	KT		X				AMSE1	N1	0.00 0.00	1 VOLUME: 1666.44 (M3)
9	GILBANEPM010422-1701	A	01/25/2022	0658	KT	X	X				AMSE2	N1	0.00 0.00	1 VOLUME: 1706.54 (M3)
10	GILBANETSP010422-1701	A	01/25/2022	0658	KT		X				AMSE2	N1	0.00 0.00	1 VOLUME: 1725.14 (M3)
11	GILBANEPM010422-1702	A	01/25/2022	0648	KT	X	X				AMSE3	N1	0.00 0.00	1 VOLUME: 1606.20 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/25/22	1600	Fedex	1/25/22	1600	Shipping Date: 1/25/2022/FedEx 7758 5071 5348
			[Redacted]	1/26/22	1000	
						Received by Laboratory: (Signature, Date, Time) & condition
						18.4

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2/2/2022



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal

COC # KT012522AIR



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

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix
			A Air
Equipment:			Code Container/Preservative
			1 1x 250-mL Plastic, 4 Degrees C
			1 1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring January 2022															
Sample ID	Matrix	Date	Time	Samp Init.						Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
												Top	Bottom		
12	GILBANETSP010422-1702	A	01/25/2022	0648	KT	X				AMSE3	N1	0.00	0.00	1	VOLUME: 1624.25 (M3)
13															
14															
15															
16															
17															
18															
19															
20															
21															

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/25/22	1600	Fedex	1/25/22	1600	Shipping Date: 1/25/2022/FedEx 7758 5071 5348
			[Redacted]	1/26/22	1000	
						Received by Laboratory: (Signature, Date, Time) & condition
						18.4

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2/2/2022



Login Sample Receipt Checklist

Client: Gilbane Federal

Job Number: 320-84202-1

Login Number: 84202

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: 320-84294-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

Authorized for release by:
2/4/2022 11:53:59 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: 320-84294-1

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: 320-84294-1

Job ID: 320-84294-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84294-1

Comments

No additional comments.

Receipt

The samples were received on 1/28/2022 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 16.6° 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: 320-84294-1

Client Sample ID: GILBANEPM010422-1703

Lab Sample ID: 320-84294-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0021		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.21		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0060		0.00069	0.000096	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: GILBANETSP010422-1703

Lab Sample ID: 320-84294-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	36.6207		0.2968	0.2968	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1704

Lab Sample ID: 320-84294-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0014		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.035		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0037		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	27		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1704

Lab Sample ID: 320-84294-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	29.3399		0.2854	0.2854	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1705

Lab Sample ID: 320-84294-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0017		0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.034		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.011		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	28		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1705

Lab Sample ID: 320-84294-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	59.2908		0.3063	0.3063	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1706

Lab Sample ID: 320-84294-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0034		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.20		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	41		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1706

Lab Sample ID: 320-84294-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	47.6756		0.2983	0.2983	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1707

Lab Sample ID: 320-84294-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0034		0.00069	0.00010	ug/m3 (Air)	1		6020	Total/NA
Copper	0.10		0.0014	0.00010	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0091		0.00069	0.000097	ug/m3 (Air)	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Sacramento

Detection Summary

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

Job ID: 320-84294-1

Client Sample ID: GILBANEPM010422-1707 (Continued)

Lab Sample ID: 320-84294-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Particulate Matter as PM 10	41		0.29	0.29	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1707

Lab Sample ID: 320-84294-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	50.8430		0.3055	0.3055	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1708

Lab Sample ID: 320-84294-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0026		0.00074	0.00011	ug/m3 (Air)	1		6020	Total/NA
Copper	0.12		0.0015	0.00011	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0076		0.00074	0.00010	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	33		0.31	0.31	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1708

Lab Sample ID: 320-84294-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	49.6440		0.3061	0.3061	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: 320-84294-1

Client Sample ID: GILBANEPM010422-1703

Lab Sample ID: 320-84294-1

Date Collected: 01/26/22 07:17

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0021		0.00069	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:12	1
Copper	0.21		0.0014	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:12	1
Manganese	0.0060		0.00069	0.000096	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:12	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	31		0.29	0.29	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1703

Lab Sample ID: 320-84294-2

Date Collected: 01/26/22 07:17

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	36.6207		0.2968	0.2968	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1704

Lab Sample ID: 320-84294-3

Date Collected: 01/26/22 07:00

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0014		0.00069	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:15	1
Copper	0.035		0.0014	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:15	1
Manganese	0.0037		0.00069	0.000097	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:15	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	27		0.29	0.29	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1704

Lab Sample ID: 320-84294-4

Date Collected: 01/26/22 07:00

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	29.3399		0.2854	0.2854	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1705

Lab Sample ID: 320-84294-5

Date Collected: 01/26/22 06:47

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0017		0.00074	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:18	1
Copper	0.034		0.0015	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:18	1
Manganese	0.011		0.00074	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:18	1

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Client Sample Results

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

Job ID: 320-84294-1

Client Sample ID: GILBANEPM010422-1705

Lab Sample ID: 320-84294-5

Date Collected: 01/26/22 06:47

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.31	0.31	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1705

Lab Sample ID: 320-84294-6

Date Collected: 01/26/22 06:47

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	59.2908		0.3063	0.3063	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1706

Lab Sample ID: 320-84294-7

Date Collected: 01/27/22 07:16

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0034		0.00069	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:22	1
Copper	0.20		0.0014	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:22	1
Manganese	0.010		0.00069	0.000097	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:22	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	41		0.29	0.29	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1706

Lab Sample ID: 320-84294-8

Date Collected: 01/27/22 07:16

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	47.6756		0.2983	0.2983	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANEPM010422-1707

Lab Sample ID: 320-84294-9

Date Collected: 01/27/22 07:09

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0034		0.00069	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:25	1
Copper	0.10		0.0014	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:25	1
Manganese	0.0091		0.00069	0.000097	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:25	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	41		0.29	0.29	ug/m3			01/29/22 16:00	1

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Client Sample Results

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

Job ID: 320-84294-1

Client Sample ID: GILBANETSP010422-1707

Lab Sample ID: 320-84294-10

Date Collected: 01/27/22 07:09

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	50.8430		0.3055	0.3055	ug/m3 (Air)			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1708

Lab Sample ID: 320-84294-11

Date Collected: 01/27/22 06:54

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0026		0.00074	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:28	1
Copper	0.12		0.0015	0.00011	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:28	1
Manganese	0.0076		0.00074	0.00010	ug/m3 (Air)		02/01/22 06:18	02/02/22 04:28	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	33		0.31	0.31	ug/m3			01/29/22 16:00	1

Client Sample ID: GILBANETSP010422-1708

Lab Sample ID: 320-84294-12

Date Collected: 01/27/22 06:54

Matrix: Air

Date Received: 01/28/22 09:20

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.6440		0.3061	0.3061	ug/m3 (Air)			01/29/22 16:00	1

QC Sample Results

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

Job ID: 320-84294-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 320-562219/1-B
Matrix: Air
Analysis Batch: 562742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 562229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0012	0.00018	ug/m3 (Air)		02/01/22 06:18	02/02/22 08:54	1
Copper	ND		0.0024	0.00018	ug/m3 (Air)		02/01/22 06:18	02/02/22 08:54	1
Manganese	ND		0.0012	0.00017	ug/m3 (Air)		02/01/22 06:18	02/02/22 08:54	1

Lab Sample ID: LCS 320-562219/2-B
Matrix: Air
Analysis Batch: 562742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 562229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.240	0.226		ug/m3 (Air)		94	86 - 111
Copper	0.240	0.235		ug/m3 (Air)		98	85 - 110
Manganese	0.240	0.242		ug/m3 (Air)		101	88 - 110

Lab Sample ID: LCSD 320-562219/3-B
Matrix: Air
Analysis Batch: 562742

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 562229

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.240	0.230		ug/m3 (Air)		96	86 - 111	2	15
Copper	0.240	0.235		ug/m3 (Air)		98	85 - 110	0	15
Manganese	0.240	0.240		ug/m3 (Air)		100	88 - 110	0	15

QC Association Summary

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

Job ID: 320-84294-1

Metals

Pre Prep Batch: 562219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84294-1	GILBANEPM010422-1703	Total/NA	Air	Filter to Air	
320-84294-3	GILBANEPM010422-1704	Total/NA	Air	Filter to Air	
320-84294-5	GILBANEPM010422-1705	Total/NA	Air	Filter to Air	
320-84294-7	GILBANEPM010422-1706	Total/NA	Air	Filter to Air	
320-84294-9	GILBANEPM010422-1707	Total/NA	Air	Filter to Air	
320-84294-11	GILBANEPM010422-1708	Total/NA	Air	Filter to Air	
MB 320-562219/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-562219/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-562219/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 562229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84294-1	GILBANEPM010422-1703	Total/NA	Air	3050B	562219
320-84294-3	GILBANEPM010422-1704	Total/NA	Air	3050B	562219
320-84294-5	GILBANEPM010422-1705	Total/NA	Air	3050B	562219
320-84294-7	GILBANEPM010422-1706	Total/NA	Air	3050B	562219
320-84294-9	GILBANEPM010422-1707	Total/NA	Air	3050B	562219
320-84294-11	GILBANEPM010422-1708	Total/NA	Air	3050B	562219
MB 320-562219/1-B	Method Blank	Total/NA	Air	3050B	562219
LCS 320-562219/2-B	Lab Control Sample	Total/NA	Air	3050B	562219
LCSD 320-562219/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	562219

Analysis Batch: 562742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84294-1	GILBANEPM010422-1703	Total/NA	Air	6020	562229
320-84294-3	GILBANEPM010422-1704	Total/NA	Air	6020	562229
320-84294-5	GILBANEPM010422-1705	Total/NA	Air	6020	562229
320-84294-7	GILBANEPM010422-1706	Total/NA	Air	6020	562229
320-84294-9	GILBANEPM010422-1707	Total/NA	Air	6020	562229
320-84294-11	GILBANEPM010422-1708	Total/NA	Air	6020	562229
MB 320-562219/1-B	Method Blank	Total/NA	Air	6020	562229
LCS 320-562219/2-B	Lab Control Sample	Total/NA	Air	6020	562229
LCSD 320-562219/3-B	Lab Control Sample Dup	Total/NA	Air	6020	562229

General Chemistry

Pre Prep Batch: 562831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84294-2	GILBANETSP010422-1703	Total/NA	Air	Filter to Air	
320-84294-4	GILBANETSP010422-1704	Total/NA	Air	Filter to Air	
320-84294-6	GILBANETSP010422-1705	Total/NA	Air	Filter to Air	
320-84294-8	GILBANETSP010422-1706	Total/NA	Air	Filter to Air	
320-84294-10	GILBANETSP010422-1707	Total/NA	Air	Filter to Air	
320-84294-12	GILBANETSP010422-1708	Total/NA	Air	Filter to Air	

Analysis Batch: 562832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84294-1	GILBANEPM010422-1703	Total/NA	Air	PM10	
320-84294-3	GILBANEPM010422-1704	Total/NA	Air	PM10	
320-84294-5	GILBANEPM010422-1705	Total/NA	Air	PM10	
320-84294-7	GILBANEPM010422-1706	Total/NA	Air	PM10	

Eurofins Sacramento

QC Association Summary

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

Job ID: 320-84294-1

General Chemistry (Continued)

Analysis Batch: 562832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84294-9	GILBANEPM010422-1707	Total/NA	Air	PM10	
320-84294-11	GILBANEPM010422-1708	Total/NA	Air	PM10	

Analysis Batch: 562833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84294-2	GILBANETSP010422-1703	Total/NA	Air	40CFR50 App B	562831
320-84294-4	GILBANETSP010422-1704	Total/NA	Air	40CFR50 App B	562831
320-84294-6	GILBANETSP010422-1705	Total/NA	Air	40CFR50 App B	562831
320-84294-8	GILBANETSP010422-1706	Total/NA	Air	40CFR50 App B	562831
320-84294-10	GILBANETSP010422-1707	Total/NA	Air	40CFR50 App B	562831
320-84294-12	GILBANETSP010422-1708	Total/NA	Air	40CFR50 App B	562831

Lab Chronicle

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

Job ID: 320-84294-1

Client Sample ID: GILBANEPM010422-1703

Lab Sample ID: 320-84294-1

Date Collected: 01/26/22 07:17

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 04:12	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0540 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1703

Lab Sample ID: 320-84294-2

Date Collected: 01/26/22 07:17

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1704

Lab Sample ID: 320-84294-3

Date Collected: 01/26/22 07:00

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 04:15	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0465 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1704

Lab Sample ID: 320-84294-4

Date Collected: 01/26/22 07:00

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1705

Lab Sample ID: 320-84294-5

Date Collected: 01/26/22 06:47

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 04:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0453 g	562832	01/29/22 16:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84294-1

Client Sample ID: GILBANETSP010422-1705

Lab Sample ID: 320-84294-6

Date Collected: 01/26/22 06:47

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1706

Lab Sample ID: 320-84294-7

Date Collected: 01/27/22 07:16

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 04:22	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0708 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1706

Lab Sample ID: 320-84294-8

Date Collected: 01/27/22 07:16

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1707

Lab Sample ID: 320-84294-9

Date Collected: 01/27/22 07:09

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 04:25	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0710 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1707

Lab Sample ID: 320-84294-10

Date Collected: 01/27/22 07:09

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84294-1

Client Sample ID: GILBANEPM010422-1708

Lab Sample ID: 320-84294-11

Date Collected: 01/27/22 06:54

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					562219	02/01/22 05:07	NIM	TAL SAC
Total/NA	Prep	3050B			0.08333 Sample	100 mL	562229	02/01/22 06:18	NIM	TAL SAC
Total/NA	Analysis	6020		1			562742	02/02/22 04:28	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0527 g	562832	01/29/22 16:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1708

Lab Sample ID: 320-84294-12

Date Collected: 01/27/22 06:54

Matrix: Air

Date Received: 01/28/22 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			562833	01/29/22 16:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					562831	02/02/22 17:19	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: 320-84294-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22 *

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

Method Summary

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

Job ID: 320-84294-1

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: 320-84294-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84294-1	GILBANEPM010422-1703	Air	01/26/22 07:17	01/28/22 09:20
320-84294-2	GILBANETSP010422-1703	Air	01/26/22 07:17	01/28/22 09:20
320-84294-3	GILBANEPM010422-1704	Air	01/26/22 07:00	01/28/22 09:20
320-84294-4	GILBANETSP010422-1704	Air	01/26/22 07:00	01/28/22 09:20
320-84294-5	GILBANEPM010422-1705	Air	01/26/22 06:47	01/28/22 09:20
320-84294-6	GILBANETSP010422-1705	Air	01/26/22 06:47	01/28/22 09:20
320-84294-7	GILBANEPM010422-1706	Air	01/27/22 07:16	01/28/22 09:20
320-84294-8	GILBANETSP010422-1706	Air	01/27/22 07:16	01/28/22 09:20
320-84294-9	GILBANEPM010422-1707	Air	01/27/22 07:09	01/28/22 09:20
320-84294-10	GILBANETSP010422-1707	Air	01/27/22 07:09	01/28/22 09:20
320-84294-11	GILBANEPM010422-1708	Air	01/27/22 06:54	01/28/22 09:20
320-84294-12	GILBANETSP010422-1708	Air	01/27/22 06:54	01/28/22 09:20

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CHAIN-OF-CUSTODY RECORD

Gilbane Federal

COC # KT012722AIR



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

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
Equipment:		1 1x Envelope, None	

320-84294 Chain of Custody



Event: Parcel E Phase 2 Air Monitoring January 2022																	
Sample ID	Matrix	Date	Time	Samp Init.								Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
														Top	Bottom		
1	GILBANEPM010422-1703	A	01/26/2022	0717	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1747.32 (M3)
2	GILBANETSP010422-1703	A	01/26/2022	0717	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1684.84 (M3)
3	GILBANEPM010422-1704	A	01/26/2022	0700	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1733.21 (M3)
4	GILBANETSP010422-1704	A	01/26/2022	0700	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1751.88 (M3)
5	GILBANEPM010422-1705	A	01/26/2022	0647	KT	X	X					AMSE3	N1	0.00	0.00	1	VOLUME: 1617.12 (M3)
6	GILBANETSP010422-1705	A	01/26/2022	0647	KT		X					AMSE3	N1	0.00	0.00	1	VOLUME: 1632.63 (M3)
7	GILBANEPM010422-1706	A	01/27/2022	0716	KT	X	X					AMSE1	N1	0.00	0.00	1	VOLUME: 1738.40 (M3)
8	GILBANETSP010422-1706	A	01/27/2022	0716	KT		X					AMSE1	N1	0.00	0.00	1	VOLUME: 1675.91 (M3)
9	GILBANEPM010422-1707	A	01/27/2022	0709	KT	X	X					AMSE2	N1	0.00	0.00	1	VOLUME: 1726.69 (M3)
10	GILBANETSP010422-1707	A	01/27/2022	0709	KT		X					AMSE2	N1	0.00	0.00	1	VOLUME: 1636.41 (M3)
11	GILBANEPM010422-1708	A	01/27/2022	0654	KT	X	X					AMSE3	N1	0.00	0.00	1	VOLUME: 1618.76 (M3)

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/27/22	1600	Fedex	1/27/22	1600	Shipping Date: 1/27/2022/Fedex 7758 7796 6958
			[Redacted]	1/28/22	920	
						Received by Laboratory: (Signature, Date, Time) & condition
						16.6 ²



**CHAIN-OF-CUSTODY
RECORD**

Gilbane Federal



COC # KT012722AIR



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

Comments:	Analytical Test Method	Code	Matrix
		A	Air
Equipment:	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code	Container/Preservative
		1	1x 250-mL Plastic, 4 Degrees C
		1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring January 2022														
Sample ID	Matrix	Date	Time	Samp Init.						Location ID	Sample Type	Depth (ft bgs) Top - Bottom	Cooler	Comments
12	GILBANETSP010422-1708	A	01/27/2022	0654	KT	X				AMSE3	N1	0.00 0.00	1	VOLUME: 1633.63 (M3)
13			TP											
14														
15														
16														
17														
18														
19														
20														
21														

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[Redacted]	1/27/22	1600	Fedex	1/27/22	1600	Shipping Date: 1/27/2022/Fedex 7758 7796 6958
			[Redacted]	1/28/22	0900	
						Received by Laboratory: (Signature, Date, Time) & condition
						16.6cc

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2/4/2022



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-84294-1

Login Number: 84294

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: 320-84430-1
Client Project/Site: Hunters Point, Parcel E, Phase 2

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

Attn: [REDACTED]

[REDACTED]

Authorized for release by:
2/10/2022 8:24:30 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: 320-84430-1

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: 320-84430-1

Job ID: 320-84430-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-84430-1

Comments

No additional comments.

Receipt

The samples were received on 2/2/2022 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 17.6° C.

Metals

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

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Detection Summary

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

Job ID: 320-84430-1

Client Sample ID: GILBANEPM010422-1709

Lab Sample ID: 320-84430-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0035		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.079		0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.012		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	35		0.87	0.87	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1709

Lab Sample ID: 320-84430-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	41.8606		0.9022	0.9022	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1710

Lab Sample ID: 320-84430-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0033		0.0021	0.00031	ug/m3 (Air)	1		6020	Total/NA
Copper	0.077		0.0042	0.00031	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0093		0.0021	0.00029	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	36		0.87	0.87	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1710

Lab Sample ID: 320-84430-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	22.1342		0.8646	0.8646	ug/m3 (Air)	1		40CFR50 App B	Total/NA

Client Sample ID: GILBANEPM010422-1711

Lab Sample ID: 320-84430-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0027		0.0022	0.00033	ug/m3 (Air)	1		6020	Total/NA
Copper	0.050		0.0044	0.00033	ug/m3 (Air)	1		6020	Total/NA
Manganese	0.0093		0.0022	0.00031	ug/m3 (Air)	1		6020	Total/NA
Particulate Matter as PM 10	28		0.92	0.92	ug/m3	1		PM10	Total/NA

Client Sample ID: GILBANETSP010422-1711

Lab Sample ID: 320-84430-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Particulates	49.3421		0.9137	0.9137	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: 320-84430-1

Client Sample ID: GILBANEPM010422-1709

Lab Sample ID: 320-84430-1

Date Collected: 01/27/22 15:15

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0035		0.0021	0.00031	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:18	1
Copper	0.079		0.0042	0.00031	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:18	1
Manganese	0.012		0.0021	0.00029	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:18	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	35		0.87	0.87	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1709

Lab Sample ID: 320-84430-2

Date Collected: 01/27/22 15:15

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	41.8606		0.9022	0.9022	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM010422-1710

Lab Sample ID: 320-84430-3

Date Collected: 01/27/22 15:05

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0033		0.0021	0.00031	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:21	1
Copper	0.077		0.0042	0.00031	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:21	1
Manganese	0.0093		0.0021	0.00029	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:21	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	36		0.87	0.87	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1710

Lab Sample ID: 320-84430-4

Date Collected: 01/27/22 15:05

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	22.1342		0.8646	0.8646	ug/m3 (Air)			02/05/22 11:00	1

Client Sample ID: GILBANEPM010422-1711

Lab Sample ID: 320-84430-5

Date Collected: 01/27/22 15:03

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0027		0.0022	0.00033	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:24	1
Copper	0.050		0.0044	0.00033	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:24	1
Manganese	0.0093		0.0022	0.00031	ug/m3 (Air)		02/09/22 08:49	02/09/22 14:24	1

Eurofins Sacramento

Client Sample Results

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

Job ID: 320-84430-1

Client Sample ID: GILBANEPM010422-1711

Lab Sample ID: 320-84430-5

Date Collected: 01/27/22 15:03

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Particulate Matter as PM 10	28		0.92	0.92	ug/m3			02/05/22 11:00	1

Client Sample ID: GILBANETSP010422-1711

Lab Sample ID: 320-84430-6

Date Collected: 01/27/22 15:03

Matrix: Air

Date Received: 02/02/22 09:40

Sample Container: Folder/Filter

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Particulates	49.3421		0.9137	0.9137	ug/m3 (Air)			02/05/22 11:00	1

QC Sample Results

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

Job ID: 320-84430-1

Method: 6020 - Metals (ICP/MS)

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

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

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

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

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

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

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

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

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

QC Association Summary

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

Job ID: 320-84430-1

Metals

Pre Prep Batch: 564410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84430-1	GILBANEPM010422-1709	Total/NA	Air	Filter to Air	
320-84430-3	GILBANEPM010422-1710	Total/NA	Air	Filter to Air	
320-84430-5	GILBANEPM010422-1711	Total/NA	Air	Filter to Air	
MB 320-564410/1-B	Method Blank	Total/NA	Air	Filter to Air	
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	Filter to Air	
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	Filter to Air	

Prep Batch: 564411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84430-1	GILBANEPM010422-1709	Total/NA	Air	3050B	564410
320-84430-3	GILBANEPM010422-1710	Total/NA	Air	3050B	564410
320-84430-5	GILBANEPM010422-1711	Total/NA	Air	3050B	564410
MB 320-564410/1-B	Method Blank	Total/NA	Air	3050B	564410
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	3050B	564410
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	3050B	564410

Analysis Batch: 564645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84430-1	GILBANEPM010422-1709	Total/NA	Air	6020	564411
320-84430-3	GILBANEPM010422-1710	Total/NA	Air	6020	564411
320-84430-5	GILBANEPM010422-1711	Total/NA	Air	6020	564411
MB 320-564410/1-B	Method Blank	Total/NA	Air	6020	564411
LCS 320-564410/2-B	Lab Control Sample	Total/NA	Air	6020	564411
LCSD 320-564410/3-B	Lab Control Sample Dup	Total/NA	Air	6020	564411

General Chemistry

Pre Prep Batch: 564569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84430-2	GILBANETSP010422-1709	Total/NA	Air	Filter to Air	
320-84430-4	GILBANETSP010422-1710	Total/NA	Air	Filter to Air	
320-84430-6	GILBANETSP010422-1711	Total/NA	Air	Filter to Air	

Analysis Batch: 564610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84430-1	GILBANEPM010422-1709	Total/NA	Air	PM10	
320-84430-3	GILBANEPM010422-1710	Total/NA	Air	PM10	
320-84430-5	GILBANEPM010422-1711	Total/NA	Air	PM10	

Analysis Batch: 564629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-84430-2	GILBANETSP010422-1709	Total/NA	Air	40CFR50 App B	564569
320-84430-4	GILBANETSP010422-1710	Total/NA	Air	40CFR50 App B	564569
320-84430-6	GILBANETSP010422-1711	Total/NA	Air	40CFR50 App B	564569

Lab Chronicle

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

Job ID: 320-84430-1

Client Sample ID: GILBANEPM010422-1709

Lab Sample ID: 320-84430-1

Date Collected: 01/27/22 15:15

Matrix: Air

Date Received: 02/02/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:18	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0204 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1709

Lab Sample ID: 320-84430-2

Date Collected: 01/27/22 15:15

Matrix: Air

Date Received: 02/02/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1710

Lab Sample ID: 320-84430-3

Date Collected: 01/27/22 15:05

Matrix: Air

Date Received: 02/02/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:21	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0207 g	564610	02/05/22 11:00	DPM	TAL SAC

Client Sample ID: GILBANETSP010422-1710

Lab Sample ID: 320-84430-4

Date Collected: 01/27/22 15:05

Matrix: Air

Date Received: 02/02/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Client Sample ID: GILBANEPM010422-1711

Lab Sample ID: 320-84430-5

Date Collected: 01/27/22 15:03

Matrix: Air

Date Received: 02/02/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	Filter to Air					564410	02/09/22 08:17	NIM	TAL SAC
Total/NA	Prep	3050B			0.083333 Sample	100 mL	564411	02/09/22 08:49	NIM	TAL SAC
Total/NA	Analysis	6020		1			564645	02/09/22 14:24	DPM	TAL SAC
Total/NA	Analysis	PM10		1	0 g	0.0154 g	564610	02/05/22 11:00	DPM	TAL SAC

Lab Chronicle

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

Job ID: 320-84430-1

Client Sample ID: GILBANETSP010422-1711

Lab Sample ID: 320-84430-6

Date Collected: 01/27/22 15:03

Matrix: Air

Date Received: 02/02/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	40CFR50 App B		1			564629	02/05/22 11:00	DPM	TAL SAC
Total/NA	Pre Prep	Filter to Air					564569	02/09/22 13:49	DPM	TAL SAC

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 320-84430-1

Laboratory: Eurofins Sacramento

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
Oregon	NELAP	4040	01-29-22 *

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

Method Summary

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

Job ID: 320-84430-1

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: 320-84430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-84430-1	GILBANEPM010422-1709	Air	01/27/22 15:15	02/02/22 09:40
320-84430-2	GILBANETSP010422-1709	Air	01/27/22 15:15	02/02/22 09:40
320-84430-3	GILBANEPM010422-1710	Air	01/27/22 15:05	02/02/22 09:40
320-84430-4	GILBANETSP010422-1710	Air	01/27/22 15:05	02/02/22 09:40
320-84430-5	GILBANEPM010422-1711	Air	01/27/22 15:03	02/02/22 09:40
320-84430-6	GILBANETSP010422-1711	Air	01/27/22 15:03	02/02/22 09:40

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**CHAIN-OF-CUSTODY
RECORD**

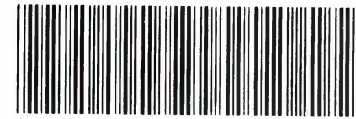
Gilbane Federal

COC # KT012722PM



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

Comments:	Analytical Test Method	CAAIR - Air PM10 N0500 - Air TSP SW6020 - Air Pb Mn Cu	Code Matrix	
			A Air	
Equipment:			Code Container/Preservative	
			1 1x 250-mL Plastic, 4 Degrees C	
			1 1x Envelope, None	



320-84430 Chain of Custody

Event: Parcel E Phase 2 Air Monitoring January 2022

Sample ID	Matrix	Date	Time	Samp Init.							Location ID	Sample Type	Depth (ft bgs)		Cooler	Comments
													Top	Bottom		
1 GILBANEPM010422-1709	A	01/27/2022	1515	KT	X		X				AMSE1	N2	0.00	0.00	1	VOLUME: 575.18 (M3)
2 GILBANETSP010422-1709	A	01/27/2022	1515	KT		X					AMSE1	N2	0.00	0.00	1	VOLUME: 554.22 (M3)
3 GILBANEPM010422-1710	A	01/27/2022	1505	KT	X		X				AMSE2	N2	0.00	0.00	1	VOLUME: 572.23 (M3)
4 GILBANETSP010422-1710	A	01/27/2022	1505	KT		X					AMSE2	N2	0.00	0.00	1	VOLUME: 578.29 (M3)
5 GILBANEPM010422-1711	A	01/27/2022	1503	KT	X		X				AMSE3	N2	0.00	0.00	1	VOLUME: 541.54 (M3)
6 GILBANETSP010422-1711	A	01/27/2022	1503	KT		X					AMSE3	N2	0.00	0.00	1	VOLUME: 547.20 (M3)
7																
8																
9																
10																

Turnaround Time: 5 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
	2/1/22	1600	Fedex	2/1/22	1600	Shipping Date: 2/1/2022 / FedEx 7759 2677 2824
					9:40	
						Received by Laboratory: (Signature, Date, Time) & condition

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2/10/2022



Login Sample Receipt Checklist

Client: GES-AIS, LLC

Job Number: 320-84430-1

Login Number: 84430

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	

