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

AIR MONITORING SUMMARY REPORT FOR PARCEL E REMEDIAL ACTION PHASE 2

HUNTERS POINT NAVAL SHIPYARD

SAN FRANCISCO, CALIFORNIA

May 1st, 2023 through May 31st, 2023

Approved for public release; distribution is unlimited

DCN: GESL-0005-4332-0124

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Acronyms and Abbreviations

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

1.0 Introduction

This Air Monitoring Summary Report (AMSR) was prepared by GES 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. GES 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 GES at HPNS Parcel E from May 1st, 2023 through May 31st, 2023 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 one downwind location from the work area whenever active soil handling operations were in progress. Based on past meteorological data, the prevalent wind direction at HPNS was from the west or west-southwest. The locations of Parcel E air monitoring stations are presented on **Figure 2-1**.

Air monitoring was performed to estimate and assess the impact of field activities. The locations of air monitoring stations were determined based on the prevailing wind direction and were modified as needed for accessibility and worker safety considerations. Wind direction was monitored daily using a windsock and confirmed with the prevalent wind direction recorded for the APTIM HPNS - KCASANFR1504 published at Weather Underground (www.wunderground.com). If the APTIM station did not have available data, the Bayview Manor - KCASANFR1775 was used.

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

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

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.

3.3 TSP, Copper, Lead, and Manganese

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.

Once the TSP concentration was gravimetrically determined, the filter was analyzed for copper, lead, and manganese, in accordance with EPA Method 6010B (equivalent to IO-3.4 in the Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air [EPA, 1999b])

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 the Gilbane Radiological Procedure PR-RP-150 *Radiological Survey and Sampling* (Gilbane, 2019b).

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

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

4.0 Air Monitoring Data Interpretation and Action Levels

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

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

Table 4-1: Air Monitoring Threshold Criteria

Test Parameter	Threshold Criteria	Threshold Criteria Reference
Asbestos	0.1 fibers/cm^3	Cal/OSHA PEL
PM10[a]	5,000 ug/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.

ug/m^3 = micrograms per cubic meter

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

fibers/cm^3 = fibers per cubic centimeter

HPNS = Hunters Point Naval Shipyard

mg/m^3 = milligrams per cubic meter

PEL = permissible exposure limit

PM10 = particulate matter less than 10 microns in diameter

ROC = radionuclide of concern

TSP = total suspended particulates

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5.0 Air Monitoring Results

Weather information (including ambient pressure and temperature data) is presented in the table included as **Attachment 1**. Meteorological data for Stations 1 and 2 were sourced from the Weather Underground (wunderground.com) station APTIM HPNS - KCASANFR1504. If the APTIM station did not have available data, the Bayview Manor - KCASANFR1775 was used.

Air Monitoring Data was collected from Station 1 in Parcel E (MSE01) and Station 2 in Parcel D-1 (MSE02) from May 1st, 2023, through May 31st, 2023, during which GES was excavating, grading, and maintaining radiological screening yard pads, transporting excavated material and clean import. Samples were not collected during periods of site inactivity, rain events, and/or while site work was limited to non-earth moving tasks.

Construction and remediation activities conducted from May 1st, 2023, through May 31st, 2023, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from May 1st, 2023, through May 31st, 2023, did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10 results from May 1st, 2023, through May 31st, 2023, did not exceed the threshold criteria presented in **Table 4-1.** The results are presented as **Attachment 3**

TSP, copper, lead, and manganese, results from May 1st, 2023, through May 31st, 2023, did not exceed the threshold criteria presented in **Table 4-1**. The results are presented in **Attachment 4** and **Attachment 5**.

Radiological air sampling results from May 1st, 2023, through May 31st, 2023, 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 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), 1999a. Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Ambient Air Specific Methods.

EPA, 1999b. Compendium of Methods for the Determination of Inorganic Compounds in Ambient Air.

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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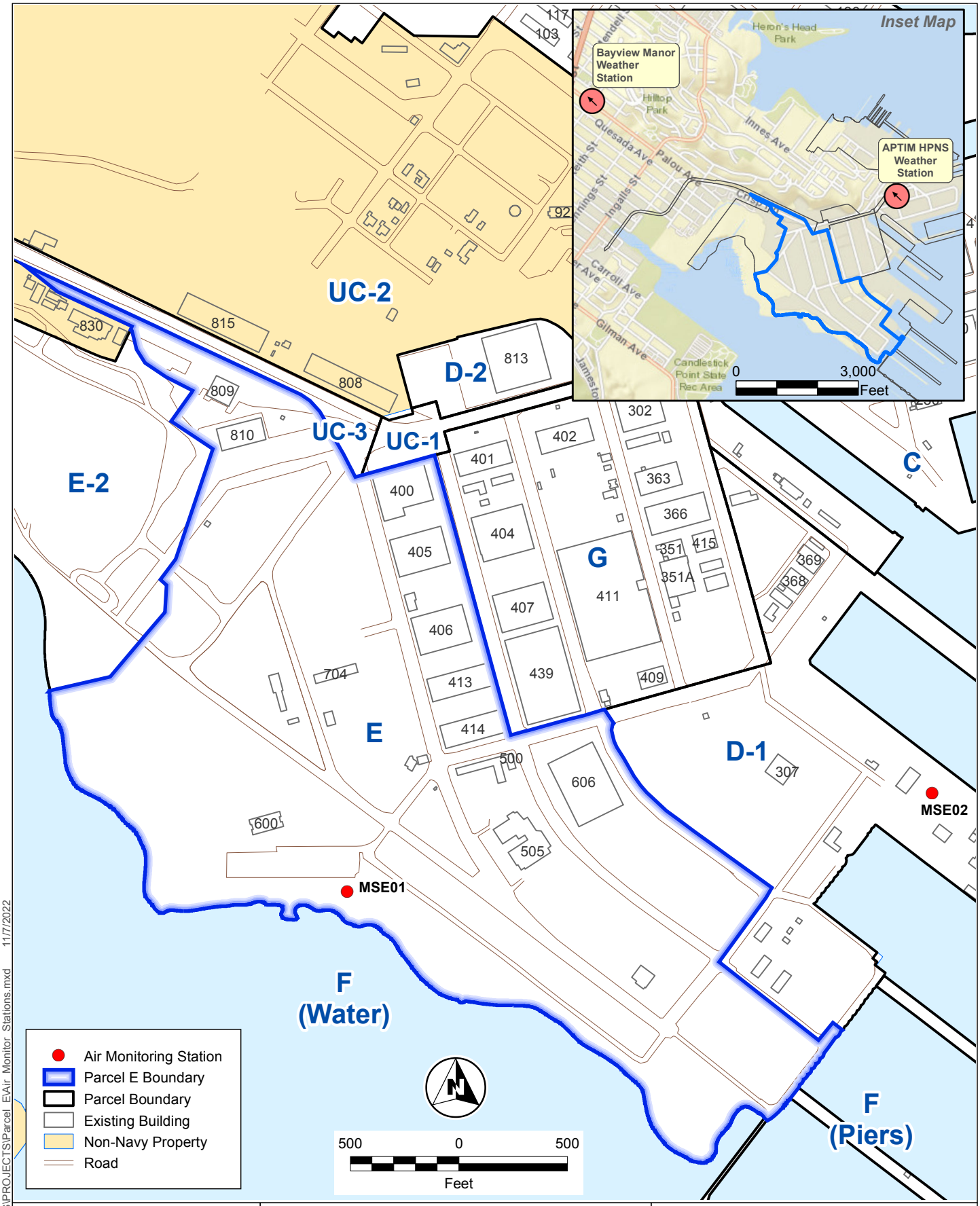

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Gilbane

Parcel E
Hunters Point Naval Shipyard
San Francisco, California

Figure 2-1
Air Monitoring Stations

ATTACHMENT 1

AMBIENT PRESSURE, TEMPERATURE, AND PREVALENT WIND DIRECTION MONITORING RESULTS

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

Start Date	Ambient Pressure (in Hg)	Ambient Temperature (°F)	Prevalent Wind Direction
5/01/2023[1]	29.88	52.23	WSW
5/02/2023[1]	29.89	52.44	ESE
5/04/2023[1]	29.96	55.14	SW
5/08/2023[1]	30.16	55.90	WSW
5/09/2023[1]	30.09	56.20	W
5/10/2023[1]	30.17	54.84	WSW
5/11/2023[1]	30.17	56.05	SW
5/15/2023[2]	30.07	56.32	W
5/16/2023[2]	30.00	55.53	WSW
5/17/2023[1]	30.02	54.97	WSW
5/18/2023[2]	30.05	54.42	WSW
5/22/2023[2]	29.88	56.07	SW
5/23/2023[2]	29.87	55.59	SW
5/24/2023[2]	29.89	54.73	SW
5/25/2023[2]	29.88	55.85	SW
5/30/2023[1]	30.04	57.10	SW

Notes:

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

[2]Data collected using wunderground.com from Bayview Manor - KCASANFR1775

°F = degree Fareheit

in Hg = inches of mercury

E = East

N = North

S = South

W = West

ATTACHMENT 2
ASBESTOS MONITORING RESULTS

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Attachment 2: Asbestos Monitoring Results

Sample, Date and Station Information			Sampler Run Information		Asbestos Fibers		
Sample ID	Sample Start Date[1]	Monitoring Station	Duration of Run (min)	Total Air Volume Monitored (L)	Asbestos (fibers)	Conc Asbestos (fibers/cm^3)	Exceedance (Yes/No)
MSE01-050123	05/01/23	1	553	1106	12.0	0.005	No
MSE02-050123	05/01/23	2	553	1106	17.0	0.008	No
MSE01-050223	05/02/23	1	560	1120	24.0	0.011	No
MSE02-050223	05/02/23	2	567	1134	11.0	0.005	No
MSE01-050423	05/04/23	1	553	1106	24.5	0.011	No
MSE02-050423	05/04/23	2	568	1136	18.5	0.008	No
MSE01-050823	05/08/23	1	568	1136	17.5	0.008	No
MSE02-050823	05/08/23	2	566	1132	17.5	0.008	No
MSE01-050923	05/09/23	1	549	1098	21.5	0.010	No
MSE02-050923	05/09/23	2	560	1120	16.0	0.007	No
MSE01-051023	05/10/23	1	535	1070	20.5	0.009	No
MSE02-051023	05/10/23	2	549	1098	18.5	0.008	No
MSE01-051123	05/11/23	1	512	1024	20.5	0.010	No
MSE02-051123	05/11/23	2	537	1074	20.0	0.009	No
MSE01-051523	05/15/23	1	543	1086	11.5	0.005	No
MSE02-051523	05/15/23	2	558	1116	11.0	0.005	No
MSE01-051623	05/16/23	1	572	1144	12.5	0.005	No
MSE02-051623	05/16/23	2	592	1184	14.0	0.006	No
MSE01-051723	05/17/23	1	554	1108	16.0	0.007	No
MSE02-051723	05/17/23	2	582	1164	20.0	0.008	No
MSE01-051823	05/18/23	1	440	880	17.5	0.010	No
MSE02-051823	05/18/23	2	436	872	12.0	0.007	No
MSE01-052223	05/22/23	1	551	1102	15.5	0.007	No
MSE02-052223	05/22/23	2	565	1130	13.0	0.006	No
MSE01-052323	05/23/23	1	558	1116	16.0	0.007	No
MSE02-052323	05/23/23	2	558	1116	16.0	0.007	No
MSE01-052423	05/24/23	1	561	1122	20.5	0.009	No
MSE02-052423	05/24/23	2	573	1146	10.0	0.004	No
MSE01-052523	05/25/23	1	513	1026	22.5	0.011	No
MSE02-052523	05/25/23	2	511	1022	21.5	0.010	No
MSE01-053023	05/30/23	1	557	1114	26.0	0.011	No
MSE02-053023	05/30/23	2	553	1106	19.0	0.008	No
MSE01-053123	05/31/23	1	567	1134	22.5	0.010	No
MSE02-053123	05/31/23	2	580	1160	14.0	0.006	No

Notes:

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

Samples analyzed by A&B Labs

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)	Concen-tration 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[3] (ug/m^3)	Exceedance (Yes/No)
PM021523-44	1	05/02/23	1742.38	0.02949988						
PM021523-46	2	05/02/23	1766.31	0.01007751	-0.0194	-19.4	5,000	No	50	No
PM021523-48	1	05/03/23	1667.68	0.0095342						
PM021523-50	2	05/03/23	1754.82	0.00472983	-0.0048	-4.8	5,000	No	50	No
PM021723-06	1	05/04/23	661.80	0.00891508						
PM021723-08	2	05/04/23	690.56	0.00622683	-0.0027	-2.7	5,000	No	50	No
PM031423-15	1	05/09/23	1757.14	0.01621954						
PM031423-17	2	05/09/23	1787.37	0.0105742	-0.0056	-5.6	5,000	No	50	No
PM031423-19	1	05/10/23	1751.53	0.02420741						
PM031423-21	2	05/10/23	1777.73	0.00961901	-0.0146	-14.6	5,000	No	50	No
PM031423-23	1	05/11/23	1753.74	0.01875991						
PM031423-25	2	05/11/23	1783.33	0.00751403	-0.0112	-11.2	5,000	No	50	No
PM031523-02	1	05/11/23[1]	603.44	0.0220403						
PM031523-04	2	05/11/23[1]	637.66	0.01160493	-0.0104	-10.4	5,000	No	50	No
PM021723-10	1	05/16/23	1742.69	0.01210772						
PM031223-01	2	05/16/23	1780.28	0.0061788	-0.0059	-5.9	5,000	No	50	No
PM031523-06	1	5/17/2023[2]	1310.95	0.02311301						
PM031523-08	2	05/17/23	1775.70	0.01024948	-0.0129	-12.9	5,000	No	50	No
PM031523-10	1	05/18/23	1751.39	0.01284694						
PM031523-12	2	05/18/23	1774.57	0.00811464	-0.0047	-4.7	5,000	No	50	No
PM031523-14	1	05/18/23[1]	430.73	0.00998305						
PM031523-16	2	05/18/23[1]	535.95	0.00634388	-0.0036	-3.6	5,000	No	50	No
PM031523-36	1	05/23/23	1757.59	0.03379628						
PM031523-38	2	05/23/23	1791.15	0.03014823	-0.0036	-3.6	5,000	No	50	No
PM031523-40	1	5/24/2023[2]	958.87	0.02742812						
PM031523-42	2	05/24/23	1785.74	0.02643162	-0.0010	-1.0	5,000	No	50	No
PM031523-44	1	05/25/23	1747.74	0.0249465						
PM031523-46	2	05/25/23	1772.48	0.01517648	-0.0098	-9.8	5,000	No	50	No
PM031423-48	1	05/25/23[1]	611.03	0.01898434						
PM031523-50	2	05/25/23[1]	606.24	0.00923727	-0.0097	-9.7	5,000	No	50	No
PM031223-20	1	05/31/23	1759.47	0.01028719						
PM031223-22	2	05/31/23	1780.42	0.00606598	-0.0042	-4.2	5,000	No	50	No

Notes:

[1]Air sample was taken down during the afternoon after field activities ceased.

[2] Generator malfunction

[3]PM10 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.

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

Samples analyzed by Eurofins Analytics

Sample locations are shown on Figure 2-1

min = minutes

Cal/OSHA = California Division of Occupational Safety and Health

HERO = Human and Ecological Risk Office

ATTACHMENT 4

TOTAL SUSPENDED PARTICULATES MONITORING RESULTS

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Attachment 4: 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)
TSP021523-45	1	05/02/23	1655.00	0.0628			
TSP021523-47	2	05/02/23	1775.50	0.0222	-0.0406	0.5	No
TSP021523-49	1	05/03/23	1580.17	0.0224			
TSP021523-51	2	05/03/23	1762.96	0.008	-0.014	0.5	No
TSP021723-07	1	05/04/23	629.37	0.0168			
TSP021723-09	2	05/04/23	693.25	0.00909	-0.008	0.5	No
TSP031423-16	1	05/09/23	1668.90	0.0292			
TSP031423-18	2	05/09/23	1783.53	0.0157	-0.0135	0.5	No
TSP031423-20	1	05/10/23	1661.14	0.046			
TSP031423-22	2	05/10/23	1783.42	0.0182	-0.028	0.5	No
TSP031423-24	1	05/11/23	1665.51	0.042			
TSP031523-01	2	05/11/23	1781.39	0.0138	-0.028	0.5	No
TSP031523-03	1	05/11/23[1]	572.90	0.0503			
TSP031523-05	2	05/11/23[1]	638.31	0.021	-0.029	0.5	No
TSP021723-11	1	05/16/23	1648.88	0.0282			
TSP031223-02	2	05/16/23	1789.32	0.0163	-0.0119	0.5	No
TSP031523-07	1	05/17/23	1242.82	0.0518			
TSP031523-09	2	05/17/23	1778.52	0.0206	-0.031	0.5	No
TSP031523-11	1	05/18/23	1655.24	0.0328			
TSP031523-13	2	05/18/23	1778.09	0.0163	-0.0165	0.5	No
TSP031523-15	1	05/18/23[1]	500.14	0.0184			
TSP031523-17	2	05/18/23[1]	532.98	< 0.00188	-0.0165	0.5	No
TSP031523-37	1	05/23/23	1660.62	0.0573			
TSP031523-39	2	05/23/23	1788.49	0.0503	-0.0070	0.5	No
TSP031523-41	1	5/24/2023[2]	907.11	0.0454			
TSP031523-43	2	05/24/23	1784.53	0.041	-0.004	0.5	No
TSP031523-45	1	05/25/23	1656.57	0.0522			
TSP031523-47	2	05/25/23	1773.93	0.0225	-0.0297	0.5	No
TSP031523-49	1	05/25/23[1]	576.84	0.0444			
TSP031223-19	2	05/25/23[1]	605.78	0.0137	-0.031	0.5	No
TSP031223-21	1	05/31/23	1664.40	0.0248			
TSP031223-23	2	05/31/23	1786.42	0.0116	-0.0132	0.5	No

Notes:

[1]Air sample was taken down during the afternoon after field activities ceased.

[2] Generator malfunction

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

Samples analyzed by Eurofins Analytics

Sample locations are shown on Figure 2-1

HPNS = Hunters Point Naval Shipyard

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

m^3 = cubic meters

mg/m^3 = milligrams per cubic meter

ATTACHMENT 5
COPPER, LEAD, AND MANGANESE MONITORING RESULTS

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Attachment 5: 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)
TSP021523-45	1	05/02/23	1655.00	0.00020423	No	0.00001462	No	< 0.00005921	No
TSP021523-47	2	05/02/23	1775.50	< 0.0000552	No	< 0.00000789	No	< 0.0000552	No
TSP021523-49	1	05/03/23	1580.17	0.00043476	No	0.00000924	No	< 0.00006202	No
TSP021523-51	2	05/03/23	1762.96	0.00012819	No	< 0.00000794	No	< 0.00005559	No
TSP021723-07	1	05/04/23	629.37	0.00057518	No	< 0.00002224	No	< 0.00015571	No
TSP021723-09	2	05/04/23	693.25	0.00015579	No	< 0.00002019	No	< 0.00014136	No
TSP031423-16	1	05/09/23	1668.90	0.00044041	No	< 0.00000839	No	< 0.00005872	No
TSP031423-18	2	05/09/23	1783.53	0.00008186	No	< 0.00000785	No	< 0.00005495	No
TSP031423-20	1	05/10/23	1661.14	0.00019625	No	0.00001138	No	< 0.000059	No
TSP031423-22	2	05/10/23	1783.42	< 0.00005495	No	< 0.00000785	No	< 0.00005495	No
TSP031423-24	1	05/11/23	1665.51	0.00024617	No	0.00001117	No	< 0.00005884	No
TSP031523-01	2	05/11/23	1781.39	< 0.00005501	No	< 0.00000786	No	< 0.00005501	No
TSP031523-03	1	05/11/23[1]	572.90	0.0004678	No	< 0.00002444	No	< 0.00017106	No
TSP031523-05	2	05/11/23[1]	638.31	< 0.00015353	No	< 0.00002193	No	< 0.00015353	No
TSP021723-11	1	05/16/23	1648.88	0.00058895	No	< 0.00000849	No	< 0.00005943	No
TSP031223-02	2	05/16/23	1789.32	0.00011077	No	< 0.00000782	No	< 0.00005477	No
TSP031523-07	1	05/17/23	1242.82	0.00058802	No	0.0000123	No	< 0.00007885	No
TSP031523-09	2	05/17/23	1778.52	0.00011453	No	< 0.00000787	No	< 0.0000551	No
TSP031523-11	1	05/18/23	1655.24	0.00056705	No	< 0.00000846	No	< 0.00005921	No
TSP031523-13	2	05/18/23	1778.09	< 0.00005512	No	< 0.00000787	No	< 0.00005512	No
TSP031523-15	1	05/18/23[1]	500.14	0.00022214	No	< 0.00002799	No	< 0.00019595	No
TSP031523-17	2	05/18/23[1]	532.98	< 0.00018387	No	< 0.00002627	No	< 0.00018387	No
TSP031523-37	1	05/23/23	1660.62	0.00026195	No	0.00001873	No	< 0.00005901	No
TSP031523-39	2	05/23/23	1788.49	0.00009785	No	0.00001375	No	< 0.00005479	No
TSP031523-41	1	5/24/2023[2]	907.11	0.00032521	No	0.00002569	No	< 0.00010804	No
TSP031523-43	2	05/24/23	1784.53	< 0.00005492	No	0.00001244	No	< 0.00005492	No
TSP031523-45	1	05/25/23	1656.57	0.00032356	No	0.00001956	No	< 0.00005916	No
TSP031523-47	2	05/25/23	1773.93	0.00006088	No	0.00001156	No	< 0.00005524	No
TSP031523-49	1	05/25/23[1]	576.84	0.00044206	No	0.00004733	No	< 0.00016989	No
TSP031223-19	2	05/25/23[1]	605.78	< 0.00016177	No	0.00003269	No	< 0.00016177	No
TSP031223-21	1	05/31/23	1664.40	0.0002956	No	< 0.00000841	No	< 0.00005888	No
TSP031223-23	2	05/31/23	1786.42	< 0.00005486	No	< 0.00000784	No	< 0.00005486	No

Notes:

[1]Air sample was taken down during the afternoon after field activities ceased.

[2] Generator malfunction

Samples analyzed by Eurofins Analytics

Sample locations are shown on Figure 2-1

ATTACHMENT 6

AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

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AIR SAMPLE RESULTS - PUBLIC EXPOSURE MONITORING

Project Information			Effluent Air Concentration			Sampling Period	Color Codes
Contract / Task Order Number:	Project Title / Location:	GES Project Number:		Alpha	Beta	Air samples collected	Value < 0.1 x Effluent Conc (i.e., < 10%)
N62473-17-D-0005 / F4332	HPNS Parcel E Phase 2 RA / San Francisco, CA	J310000400	Radionuclide	Ra-226	Sr-90	between 01 May 2023	Value > 0.1 x Effluent Conc (i.e., > 10%)
Information effective as of: 13 Jun 2023			Effluent Conc (µCi/ml)	9.E-13	6.E-12	and 31 May 2023	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 Alpha	Gross Activity Beta	Net dpm Alpha	Net dpm Beta	Activity (µCi/ml) Alpha	Activity (µCi/ml) Beta	Effluent Conc (%) Alpha	Effluent Conc (%) Beta	Count Tech	Data Reviewer
AS-0841	Perimeter	MSE-01	PE15	50	5/1/23 6:45	5/1/23 15:35	530	2.6E+07	B	05/08/23	1	cpm	0.05	5.05	-0.2	8.3	N/A	1.4E-13	***N/A***	***2.3%***	DFB	BCS
AS-0842	Perimeter	MSE-02	PE16	50	5/1/23 6:47	5/1/23 15:33	526	2.6E+07	B	05/08/23	1	cpm	0.10	3.70	0.0	4.3	0.0E+00	7.4E-14	***0.0%***	***1.2%***	DFB	BCS
AS-0843	Perimeter	MSE-01	PE15	50	5/2/23 6:39	5/2/23 16:00	561	2.8E+07	B	05/08/23	1	cpm	0.10	4.00	0.0	5.2	0.0E+00	8.4E-14	***0.0%***	***1.4%***	DFB	BCS
AS-0844	Perimeter	MSE-02	PE16	50	5/2/23 6:47	5/2/23 15:50	543	2.7E+07	B	05/08/23	1	cpm	0.20	3.15	0.3	2.8	5.6E-15	4.6E-14	***0.6%***	***0.8%***	DFB	BCS
AS-0845	Perimeter	MSE-01	PE15	50	5/4/23 6:48	5/4/23 15:50	542	2.7E+07	B	05/08/23	1	cpm	0.35	3.40	0.8	3.5	1.4E-14	5.8E-14	***1.6%***	***1.0%***	DFB	BCS
AS-0846	Perimeter	MSE-02	PE16	50	5/4/23 6:54	5/4/23 15:47	533	2.7E+07	B	05/08/23	1	cpm	0.30	3.95	0.7	5.1	1.1E-14	8.6E-14	***1.3%***	***1.4%***	DFB	BCS
AS-0847	Perimeter	MSE-01	PE15	50	5/8/23 4:45	5/8/23 16:10	685	3.4E+07	B	05/15/23	1	cpm	0.15	4.55	0.2	6.8	2.2E-15	9.0E-14	***0.2%***	***1.5%***	DFB	BCS
AS-0848	Perimeter	MSE-02	PE16	50	5/8/23 5:00	5/8/23 16:06	666	3.3E+07	B	05/15/23	1	cpm	0.15	4.10	0.2	5.5	2.3E-15	7.4E-14	***0.3%***	***1.2%***	DFB	BCS
AS-0849	Perimeter	MSE-01	PE15	50	5/9/23 4:45	5/9/23 15:50	665	3.3E+07	B	05/15/23	1	cpm	0.15	4.00	0.2	5.2	2.3E-15	7.1E-14	***0.3%***	***1.2%***	DFB	BCS
AS-0850	Perimeter	MSE-02	PE16	50	5/9/23 4:55	5/9/23 15:45	650	3.3E+07	B	05/15/23	1	cpm	0.05	4.25	-0.2	5.9	N/A	8.2E-14	***N/A***	***1.4%***	DFB	BCS
AS-0851	Perimeter	MSE-01	PE15	50	5/10/23 4:45	5/10/23 15:32	647	3.2E+07	B	05/15/23	1	cpm	0.30	3.10	0.7	2.6	9.4E-15	3.6E-14	***1.0%***	***0.6%***	DFB	BCS
AS-0852	Perimeter	MSE-02	PE16	50	5/10/23 4:35	5/10/23 15:25	650	3.3E+07	B	05/15/23	1	cpm	0.10	3.70	0.0	4.3	0.0E+00	6.0E-14	***0.0%***	***1.0%***	DFB	BCS
AS-0853	Perimeter	MSE-01	PE15	50	5/11/23 4:45	5/11/23 15:18	633	3.2E+07	B	05/15/23	1	cpm	0.10	3.60	0.0	4.1	0.0E+00	5.8E-14	***0.0%***	***1.0%***	DFB	BCS
AS-0854	Perimeter	MSE02	PE16	50	5/11/23 4:35	5/11/23 15:06	631	3.2E+07	B	05/15/23	1	cpm	0.10	3.90	0.0	4.9	0.0E+00	7.0E-14	***0.0%***	***1.2%***	DFB	BCS
AS-0855	Perimeter	MSE-01	PE15	50	5/15/23 6:45	5/15/23 15:48	543	2.7E+07	B	05/22/23	1	cpm	0.40	3.85	1.0	4.8	1.7E-14	7.9E-14	***1.9%***	***1.3%***	JSV	BCS
AS-0856	Perimeter	MSE-02	PE16	50	5/15/23 6:52	5/15/23 15:43	531	2.7E+07	B	05/22/23	1	cpm	0.10	3.90	0.0	4.9	0.0E+00	8.4E-14	***0.0%***	***1.4%***	JSV	BCS
AS-0857	Perimeter	MSE-01	PE15	50	5/16/23 6:38	5/16/23 15:32	534	2.7E+07	B	05/22/23	1	cpm	0.20	4.10	0.3	5.5	5.7E-15	9.3E-14	***0.6%***	***1.5%***	JSV	BCS
AS-0858	Perimeter	MSE-02	PE16	50	5/16/23 6:43	5/16/23 15:40	537	2.7E+07	B	05/22/23	1	cpm	0.10	4.80	0.0	7.5	0.0E+00	1.3E-13	***0.0%***	***2.1%***	JSV	BCS
AS-0859	Perimeter	MSE-01	PE15	50	5/17/23 6:40	5/17/23 16:05	565	2.8E+07	B	05/22/23	1	cpm	0.15	4.30	0.2	6.1	2.7E-15	9.7E-14	***0.3%***	***1.6%***	JSV	BCS
AS-0860	Perimeter	MSE-02	PE16	50	5/17/23 6:45	5/17/23 16:00	555	2.8E+07	B	05/22/23	1	cpm	0.20	4.05	0.3	5.4	5.5E-15	8.7E-14	***0.6%***	***1.5%***	JSV	BCS
AS-0861	Perimeter	MSE-01	PE15	50	5/18/23 6:50	5/18/23 13:53	423	2.1E+07	B	05/22/23	1	cpm	0.25	4.15	0.5	5.7	1.1E-14	1.2E-13	***1.2%***	***2.0%***	JSV	BCS
AS-0862	Perimeter	MSE-02	PE16	50	5/18/23 6:55	5/18/23 14:05	430	2.1E+07	B	05/22/23	1	cpm	0.10	4.25	0.0	5.9	0.0E+00	1.2E-13	***0.0%***	***2.1%***	JSV	BCS
AS-0863	Perimeter	MSE-01	PE15	50	5/22/23 6:47	5/22/23 15:51	544	2.7E+07	B	05/30/23	1	cpm	0.10	4.45	0.0	6.5	0.0E+00	1.1E-13	***0.0%***	***1.8%***	DFB	BCS
AS-0864	Perimeter	MSE-02	PE16	50	5/22/23 6:52	5/22/23 15:47	535	2.7E+07	B	05/30/23	1	cpm	0.20	4.70	0.3	7.2	5.7E-15	1.2E-13	***0.6%***	***2.0%***	DFB	BCS
AS-0865	Perimeter	MSE-01	PE15	50	5/23/23 6:53	5/23/23 15:56	543	2.7E+07	B	05/30/23	1	cpm	0.05	3.20	-0.2	2.9	N/A	4.8E-14	***N/A***	***0.8%***	DFB	BCS
AS-0866	Perimeter	MSE-02	PE16	50	5/23/23 6:58	5/23/23 15:51	533	2.7E+07	B	05/30/23	1	cpm	0.00	3.60	-0.3	4.1	N/A	6.9E-14	***N/A***	***1.1%***	DFB	BCS
AS-0867	Perimeter	MSE-01	PE15	50	5/24/23 6:44	5/24/23 16:04	560	2.8E+07	B	05/30/23	1	cpm	0.15	4.65	0.2	7.1	2.7E-15	1.1E-13	***0.3%***	***1.9%***	DFB	BCS
AS-0868	Perimeter	MSE-02	PE16	50	5/24/23 6:50	5/24/23 15:59	549	2.7E+07	B	05/30/23	1	cpm	0.25	3.05	0.5	2.5	8.3E-15	4.0E-14	***0.9%***	***0.7%***	DFB	BCS
AS-0869	Perimeter	MSE-01	PE15	50	5/25/23 6:45	5/25/23 15:26	521	2.6E+07	B	05/30/23	1	cpm	0.10	4.55	0.0	6.8	0.0E+00	1.2E-13	***0.0%***	***2.0%***	DFB	BCS
AS-0870	Perimeter	MSE-02	PE16	50	5/25/23 6:56	5/25/23 15:15	499	2.5E+07	B	05/30/23	1	cpm	0.40	3.75	1.0	4.5	1.8E-14	8.1E-14	***2.0%***	***1.4%***	DFB	BCS
AS-0871	Perimeter	MSE-01	PE15	50	5/30/23 6:50	5/30/23 16:02	552	2.8E+07	B	06/05/23	1	cpm	0.15	4.55	0.2	6.8	2.7E-15	1.1E-13	***0.3%***	***1.9%***	DFB	BCS
AS-0872	Perimeter	MSE-02	PE16	50	5/30/23 7:00	5/30/23 16:02	542	2.7E+07	B	06/05/23	1	cpm	0.15	3.65	0.2	4.2	2.8E-15	7.0E-14	***0.3%***	***1.2%***	DFB	BCS
AS-0873	Perimeter	MSE-01	PE15	50	5/31/23 5:45	5/31/23 16:10	625	3.1E+07	B	06/05/23	1	cpm	0.20	4.15	0.3	5.7	4.9E-15	8.1E-14	***0.5%***	***1.4%***	DFB	BCS
AS-0874	Perimeter	MSE-02	PE16	50	5/31/23 6:45	5/31/23 16:00	555	2.8E+07	B	06/05/23	1	cpm	0.05	4.95	-0.2	8.0	N/A	1.3E-13	***N/A***	***2.2%***	DFB	BCS

ATTACHMENT 7
LABORATORY REPORTS

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Laboratory Analysis Report

Job ID : 23051135

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

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:		P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	05/10/2023 09:34
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-050123	5/1/2023 15:46	Cassette	23051135.01
MSE02-050123	5/1/2023 15:40	Cassette	23051135.02
MSE01-050223	5/2/2023 16:01	Cassette	23051135.03
MSE02-050223	5/2/2023 15:56	Cassette	23051135.04
MSE01-050423	5/4/2023 15:48	Cassette	23051135.05
MSE02-050423	5/4/2023 15:57	Cassette	23051135.06

Released By:

Title: Senior Project Manager

Analyst:

Laboratory Report: Case Narrative

A&B Job ID: 23051135

Date: 05/19/23

Client Name: GES - ASRC Industrial

Attn:

Project Name: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Date Received: 05/10/23

Collected By:

REVISED REPORT - The attached report was revised for the chain of custody per client email.

All data reported in this analytical report is in compliance with NELAC standards unless otherwise noted in the sample receipt checklist or case narrative. Any other exceptions associated with this report will be qualified in the analytical result page(s) and/or the quality control summary page(s). Data qualifiers are defined in the Term and Qualifier Definition Report page.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random, unless specified by client, from an analytical batch of "like" matrix to check for possible matrix effects. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory.

Some of the MS/MSD percent recoveries and RPDs on the QC report may be different than the calculated recoveries and RPDs using the sample result and the MS/MSD results listed on the report because the actual raw result is used to perform the calculations for percent recovery and RPD.

The results contained in this report are only representative of the samples received. A&B Labs is not responsible for use or interpretation of the data results included herein.

Please do not hesitate to contact us with any questions or concerns regarding your laboratory report. A&B Labs is pleased to be of service to you and we look forward to fulfilling all of your future analytical needs.

Released By:

Title: Senior Project Manager

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

Date 5/19/2023

Job ID : 23051135
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II Attn:

A&B Sample ID	Client Sample ID	Collected Date	Area/Person	Flow Rate L/m	Time On	Time Off	Total Time (min)	Volume (Liters)	Total Fields	Total Fibers	F/mm2	Fiber/cc	8 Hour TWA	Analysis Date	Analyzed By
23051135.01	MSE01-050123	05/01/2023	Area	2			553	1106	100	12	15.287	0.005		05/17/23	
23051135.02	MSE02-050123	05/01/2023	Area	2			553	1106	100	17.0	21.656	0.008		05/17/23	
23051135.03	MSE01-050223	05/02/2023	Area	2			560	1120	100	24.0	30.573	0.011		05/17/23	
23051135.04	MSE02-050223	05/02/2023	Area	2			567	1134	100	11	14.013	0.005		05/17/23	
23051135.05	MSE01-050423	05/04/2023	Area	2			553	1106	100	24.5	31.210	0.011		05/17/23	
23051135.06	MSE02-050423	05/04/2023	Area	2			568	1136	100	18.5	23.567	0.008		05/17/23	

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

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

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23051135**	Date Received : **05/10/2023**	Time Received : **9:34AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **20.3°C**	Sample pH : **NA**	
Thermometer ID : **IR4**	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 ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**		X	
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Black Cassettes. Sample 05 & 06 ID's do not match COC, sample 05 shows "MSE01-050423" & 06 shows "MSE02-050423". ~ 5/10/2023

Received by :

Check in by/date : / 05/10/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

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

COC ID # 050923ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC:	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Job ID:23051135

05/10/2023 GES - ASRC Industrial ACH

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

5/9/23

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-050123	A	05/01/2023	1546		x	MSE01	N1	0.00	0.00	1	01A
2	MSE02-050123	A	05/01/2023	1540		x	MSE02	N1	0.00	0.00	1	02A
3												
4												
5												
6												
7												
8												
9												
10												
11												

5/9/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
	5/9/23	1600	FedEx	5/9/23	1600	Shipping Date 05/09/23 / FEDEX 7719 8703 0115
FEDEX	5/10/23	9:34		5/10/23		**Received by Laboratory:** *(Signature, Date, Time)* **& condition** 5/10/23 9:34
			5/10/23			

20.3 °C IR4

CHAIN-OF-CUSTODY RECORD

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

COC ID # 050923ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

5/9/23

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-050223	A	05/02/2023	1601		x	MSE01	N1	0.00	0.00	1	03A
2	MSE02-050223	A	05/02/2023	1556		x	MSE02	N1	0.00	0.00	1	04A
3												
4												
5												
6												
7												
8												
9												
10												
11												

5/9/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
	5/9/23	1600		5/9/23	1600	Shipping Date:05/09/23 / FEDEX 7719 8703 0115
FED EX	5/10/23	9:34		5/10/23		Received by Laboratory: *(Signature, Date, Time)* & condition: 5/10/23 9:34
			5/10/23			

20.3°C IR4

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520 [redacted]

COC ID # [redacted]050923ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Page 3 of 4 [redacted] 5/9/23

Event: Parcel E Asbestos

	Sample ID		Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
KT 5/18/23	1 MSE01-050323	MSE01-050423	A	05/03/2023	1548	[redacted]	x	MSE01	N1	0.00	0.00	1	OSA
KT 5/18/23	2 MSE02-050323	MSE02-050423	A	05/03/2023	1557		x	MSE02	N1	0.00	0.00	1	OSA
	3			05/04/2023									
	4												
	5												
	6												
	7												
	8												
	9												
	10												[redacted] 5/9/23
	11												

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/9/23	1600	FedEx	5/9/23	1600	Shipping Date:05/09/23 / FEDEX 7719 8703 0115
FEDEX	5/10/23	9:34	[redacted]	5/10/23		Received by Laboratory: *(Signature, Date, Time)* & condition [redacted] 5/10/23 9:34

20.3°C
IR4 [redacted]

COC ID # [redacted]050923ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-050123	1-May	15:46	2; 553
MSE02-050123	1-May	15:40	2; 553
MSE01-050223	2-May	16:01	2; 560
MSE02-050223	2-May	15:56	2; 567
MSE01-050423	4-May	15:48	2; 553
MSE02-050423	4-May	15:57	2; 568


ORIGIN ID:JCCA [redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 02MAY23
ACTWGT: 1.00 LB
CAD: 254128867/INET4610

BILL SENDER

TO [redacted]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029
(713) 453-6060 REF J31000 400 00 18 04
INV
PO DEPT

FedEx Express

WED - 03 MAY 4:30P
STANDARD OVERNIGHT

TRK# 0201 7719 8703 0115

AB HBYA

77029
TX-US IAH

983J3/2B03/FE2D

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Laboratory Analysis Report

Job ID : 23051992

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

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	05/17/2023 10:23
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-050823	5/8/2023 16:02	Cassette	23051992.01
MSE02-050823	5/8/2023 15:57	Cassette	23051992.02
MSE01-050923	5/9/2023 15:49	Cassette	23051992.03
MSE02-050923	5/9/2023 15:51	Cassette	23051992.04
MSE01-051023	5/10/2023 15:27	Cassette	23051992.05
MSE02-051023	5/10/2023 15:33	Cassette	23051992.06
MSE01-051123	5/11/2023 15:09	Cassette	23051992.07
MSE02-051123	5/11/2023 15:21	Cassette	23051992.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

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

Date 5/24/2023

Job ID : 23051992
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II 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
23051992.01	MSE01-050823	05/08/2023	Area	2			568	1136	100	17.5	22.293	0.008		05/24/23	[redacted]
23051992.02	MSE02-050823	05/08/2023	Area	2			566	1132	100	17.5	22.293	0.008		05/24/23	
23051992.03	MSE01-050923	05/09/2023	Area	2			549	1098	100	21.5	27.389	0.010		05/24/23	
23051992.04	MSE02-050923	05/09/2023	Area	2			560	1120	100	16	20.382	0.007		05/24/23	
23051992.05	MSE01-051023	05/10/2023	Area	2			535	1070	100	20.5	26.115	0.009		05/24/23	
23051992.06	MSE02-051023	05/10/2023	Area	2			549	1098	100	18.5	23.567	0.008		05/24/23	
23051992.07	MSE01-051123	05/11/2023	Area	2			512	1024	100	20.5	26.115	0.010		05/24/23	
23051992.08	MSE02-051123	05/11/2023	Area	2			537	1074	100	20.0	25.478	0.009		05/24/23	

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23051992**	Date Received : **05/17/2023**	Time Received : **10:23AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **23.7°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	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 ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Black cassettes. ~[redacted] 5/17/2023

Received by : [redacted]

Check in by/date : [redacted] / 05/17/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federa [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]051623ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Job ID:23051992

05/17/2023 GES - ASRC Industrial ACH

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Equipment:

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-050823	A	05/08/2023	1602	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-050823	A	05/08/2023	1557		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

5/16/23

[redacted]

5/16/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/16/23	1400	Fedex	5/16/23	1400	Shipping Date:05/16/23 / FEDEX 7720 3818 4453
FedEx	5/17/23	10:23				[redacted] *(Signature, Date, Time)* & condition 5/17/23 10:23

23.7°C
TMS

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]051623ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Analytical Test Method: Asbestos

[redacted] 5/16/23

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos — 1

	Sample ID	Matrix	Date	Time	Samp Init.		Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-050923	A	05/09/2023	1549	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-050923	A	05/09/2023	1551		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

C3B
04B

[redacted] 5/16/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/16/23	1400	Fedex	5/16/23	1400	Shipping Date:05/16/23 / FEDEX 7720 3818 4453
FedEx	5/17/23	10:23				[redacted] ature, Date, Time) & condition 5/17/23 10:23

23.7°C
IR5
[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federa[redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID #[redacted]051623ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Analytical Test Method

Asbestos [redacted] 5/16/23

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-051023	A	05/10/2023	1527	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-051023	A	05/10/2023	1533		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 5/16/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/16/23	1400	Fedex	5/16/23	1400	Shipping Date:05/16/23 / FEDEX 7720 3818 4453
FEDEX	5/17/23	10:23				[redacted] *(Signature, Date, Time)* & condition 5/17/23 10:23

23.7°C IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
[redacted] Concord, CA 94520

COC ID # [redacted]051623ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Analytical Test Method

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos 1	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-051123	A	05/11/2023	1509	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-051123	A	05/11/2023	1521		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/16/23	1400	Fedex	5/16/23	1400	Shipping Date:05/16/23 / FEDEX 7720 3818 4453
FedEx	5/17/23	10:23	[redacted]			*(Signature, Date, Time)* **& condition** 5/17/23 10:23

23.7°C

[redacted]

COC ID # [redacted]051623ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: **Parcel E Asbestos**
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-050823	8-May	16:02	2; 568
MSE02-050823	8-May	15:57	2; 566
MSE01-050923	9-May	15:49	2; 549
MSE02-050923	9-May	15:51	2; 560
MSE01-051023	10-May	15:27	2; 535
MSE02-051023	10-May	15:33	2; 549
MSE01-051123	11-May	15:09	2; 512
MSE02-051123	11-May	15:21	2; 537

ORIGIN ID:JCCA [redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 09MAY23
ACTWGT: 1.00 LB
CAD: 254128867/INET4610

BILL SENDER

TO [redacted]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029
(713) 453-6060 REF: J31000.400.00.18.04
INV:
PO DEPT

583J3/2BC3/FE2D

FedEx Express

J232023043501uv

WED - 10 MAY 4:30P
STANDARD OVERNIGHT

TRK# 0201 **7720 3818 4453**

77029
IAH

AB HBYA

TX-US

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Laboratory Analysis Report

Job ID : 23052732

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

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	05/24/2023 09:55
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-051523	5/15/2023 15:42	Cassette	23052732.01
MSE02-051523	5/15/2023 15:47	Cassette	23052732.02
MSE01-051623	5/16/2023 16:12	Cassette	23052732.03
MSE02-051623	5/16/2023 16:20	Cassette	23052732.04
MSE01-051723	5/17/2023 16:04	Cassette	23052732.05
MSE02-051723	5/17/2023 16:13	Cassette	23052732.06
MSE01-051823	5/18/2023 14:04	Cassette	23052732.07
MSE02-051823	5/18/2023 13:49	Cassette	23052732.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

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

Date 6/1/2023

Job ID : 23052732
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II 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
23052732.01	MSE01-051523	05/15/2023	Area	2			543	1086	100	11.5	14.650	0.005		06/01/23	[redacted]
23052732.02	MSE02-051523	05/15/2023	Area	2			558	1116	100	11.0	14.013	0.005		06/01/23	
23052732.03	MSE01-051623	05/16/2023	Area	2			572	1144	100	12.5	15.924	0.005		06/01/23	
23052732.04	MSE02-051623	05/16/2023	Area	2			592	1184	100	14.0	17.834	0.006		06/01/23	
23052732.05	MSE01-051723	05/17/2023	Area	2			554	1108	100	16.0	20.382	0.007		06/01/23	
23052732.06	MSE02-051723	05/17/2023	Area	2			582	1164	100	20.0	25.478	0.008		06/01/23	
23052732.07	MSE01-051823	05/18/2023	Area	2			440	880	100	17.5	22.293	0.010		06/01/23	
23052732.08	MSE02-051823	05/18/2023	Area	2			436	872	100	12.0	15.287	0.007		06/01/23	

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Sample Condition Checklist

A&B JobID : **23052732**	Date Received : **05/24/2023**	Time Received : **9:55AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **23.3°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	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 ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

Black cassettes. No cooler was received, however samples are received in a box with a custody seal. ~[redacted] 5/24/23

Received by : [redacted]

Check in by/date : [redacted] / 05/24/2023

ab-s005-0321

Job ID:23052732

05/24/2023 GES - ASRC Industrial ACH

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]052323ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: Parcel E Asbestos
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Analytical Test Method: Asbestos

[redacted] 5/23/23

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	1	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-051523	A	05/15/2023	1542	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-051523	A	05/15/2023	1547		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 5/23/23

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/23/23	1400	FedEx	5/23/23	1400	Shipping Date:05/23/23 / FEDEX 7720 9281 9786
FEDEX	5/24/23	9:55				[redacted] (Signature, Date, Time) & condition 5/24/23 9:55

23.3°C IR#5

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]052323ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-051623	A	05/16/2023	1612	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-051623	A	05/16/2023	1620		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/23/23	1400	Fedex	5/23/23	1400	Shipping Date:05/23/23 / FEDEX 7720 9281 9786
[redacted] FEDEX	5/24/23	9:55				Re[redacted] (Signature, Date, Time) & condition 5/24/23 9:55

23.3°C
[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]052323ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos (1)	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-051723	A	05/17/2023	1604	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-051723	A	05/17/2023	1613		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/23/23	1400	Fedex	5/23/23	1400	Shipping Date:05/23/23 / FEDEX 7720 9281 9786
Fedex	5/24/23	9:55	[redacted]			[redacted] *(Signature, Date, Time)* **& condition** 5/24/23 9:55

23.3°C Ice

[redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]052323ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-051823	A	05/18/2023	1404	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-051823	A	05/18/2023	1349		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/23/23	1400	Fedex	5/23/23	1400	Shipping Date:05/23/23 / FEDEX 7720 9281 9786
[redacted] FEDEX	5/24/23	9:55				[redacted] *(Signature, Date, Time)* **& condition** 5/24/23 9:55

23.3°C
IR5
[redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-051523	15-May	15:42	2; 543
MSE02-051523	15-May	15:47	2; 558
MSE01-051623	16-May	16:12	2; 572
MSE02-051623	16-May	16:20	2; 592
MSE01-051723	17-May	16:04	2; 554
MSE02-051723	17-May	16:13	2; 582
MSE01-051823	18-May	14:04	2; 440
MSE02-051823	18-May	13:49	2; 436

ORIGIN ID:JCCA [redacted]

[redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 16MAY23
ACTWGT: 1.00 LB
CAD: 254128867/INET4610

BILL SENDER

TO [redacted]

A & B LABS

10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060 REF: J31000.400.00.18.04

INV:

PO: DEPT:

583J3/2BC3/FE2D

FedEx Express

J232023340501uv

WED - 17 MAY 4:30P

STANDARD OVERNIGHT

TRK# 0201 **7720 9281 9786**

77029

AB HBYA

TX-US **IAH**

After printing this label:

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

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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

Laboratory Analysis Report

Job ID : 23053290

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

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	9
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	05/31/2023 10:22
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-052223	5/22/2023 15:43	Cassette	23053290.01
MSE02-052223	5/22/2023 15:51	Cassette	23053290.02
MSE01-052323	5/23/2023 15:55	Cassette	23053290.03
MSE02-052323	5/23/2023 15:48	Cassette	23053290.04
MSE01-052423	5/24/2023 16:00	Cassette	23053290.05
MSE02-052423	5/24/2023 16:06	Cassette	23053290.06
MSE01-052523	5/25/2023 15:07	Cassette	23053290.07
MSE02-052523	5/25/2023 14:59	Cassette	23053290.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

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

Date 6/7/2023

Job ID : 23053290
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II 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
23053290.01	MSE01-052223	05/22/2023	Area	2			551	1102	100	15.5	19.745	0.007		06/07/23	[redacted]
23053290.02	MSE02-052223	05/22/2023	Area	2			565	1130	100	13	16.561	0.006		06/07/23	
23053290.03	MSE01-052323	05/23/2023	Area	2			558	1116	100	16.0	20.382	0.007		06/07/23	
23053290.04	MSE02-052323	05/23/2023	Area	2			558	1116	100	16.0	20.382	0.007		06/07/23	
23053290.05	MSE01-052423	05/24/2023	Area	2			561	1122	100	20.5	26.115	0.009		06/07/23	
23053290.06	MSE02-052423	05/24/2023	Area	2			573	1146	100	10.0	12.739	0.004		06/07/23	
23053290.07	MSE01-052523	05/25/2023	Area	2			513	1026	100	22.5	28.662	0.011		06/07/23	
23053290.08	MSE02-052523	05/25/2023	Area	2			511	1022	100	21.5	27.389	0.010		06/07/23	

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23053290**	Date Received : **05/31/2023**	Time Received : **10:22AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **23.9°C**	Sample pH : **N/A**	
Thermometer ID : **IR5**	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 ☐			
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:

Samples received in black cassettes. No cooler was received, however samples are received in a box with a custody seal. ~[redacted] 5/31/2023

Received by : [redacted]

Check in by/date : [redacted] / 05/31/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]053023ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Job ID:23053290
05/31/2023 GES - ASRC Industrial ACH

Equipment:

Event: Parcel E Asbestos

Analytical Test Method: Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-052223	A	05/22/2023	1543	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-052223	A	05/22/2023	1551		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

[redacted] 5/30/23

[redacted] 5/30/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/30/23	1400	Fedex	5/30/23	1400	Shipping Date:05/30/23 / FEDEX 7721 4920 9520
FED EX	5/31/23	10:22				[redacted] Date, Time) & condition 5/31/23 10:22
						23.9°C IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]053023ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-052323	A	05/23/2023	1555	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-052323	A	05/23/2023	1548		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/30/23	1400	Fedex	5/30/23	1400	Shipping Date:05/30/23 / FEDEX 7721 4920 9520
FED EX	5/31/23	10:22				**Received by Laboratory:** *(Signature, Date, Time)* **& condition** [redacted] 5/31/23 10:22
						23.9 IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federa[redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]053023ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-052423	A	05/24/2023	1600	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-052423	A	05/24/2023	1606		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

05A
06A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/30/23	1400	Fedex	5/30/23	1400	Shipping Date:05/30/23 / FEDEX 7721 4920 9520
FED EX	5/31/23	10:22				Received by Laboratory: *(Signature, Date, Time)* & condition [redacted] 5/31/23 10:22
						23.9C IRS [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federa[redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID #[redacted]053023ASBE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Event: Parcel E Asbestos

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-052523	A	05/25/2023	1507	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-052523	A	05/25/2023	1459		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

07A
08A

5/30/23

[redacted]

5/30/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	5/30/23	1400	FedEx	5/30/23	1400	Shipping Date:05/30/23 / FEDEX 7721 4920 9520
FED EX	5/31/23	10:22				[redacted] Date, Time) & condition 5/31/23 10:22
						23.9°C IR5 [redacted]

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-052223	22-May	15:43	2; 551
MSE02-052223	22-May	15:51	2; 565
MSE01-052323	23-May	15:55	2; 558
MSE02-052323	23-May	15:48	2; 558
MSE01-052423	24-May	16:00	2; 561
MSE02-052423	24-May	16:06	2; 573
MSE01-052523	25-May	15:07	2; 513
MSE02-052523	25-May	14:59	2; 511

ORIGIN ID: JCCA [redacted]

[redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 23MAY23
ACTWGT: 1.00 LB
CAD: 254128867/INET4610

BILL SENDER

TO [redacted]

A & B LABS
10100 EAST FREEWAY, SUITE 100

HOUSTON TX 77029

(713) 453-6060 REF: J31000 400 00 18 04
INV:
PO: DEPT:

563J/2BC8/FE2D

FedEx Express

WED - 24 MAY 4:30P
STANDARD OVERNIGHT

TRK# 0201 7721 4920 9520

77029
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TX-US

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Laboratory Analysis Report

Job ID : 23060617

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

Client Project Name :
J310000400 / Hunters Point Shipyard, Parcel E RA Phase II

Report To :	Client Name:	GES - ASRC Industrial	Total Number of Pages:	8
	Attn:	[redacted]	P.O.#. :	J310000400-0015
	Client Address:	1501 West Fountainhead Parkway, Ste. #550	Date Received :	06/07/2023 10:12
	City, State, Zip:	Tempe, Arizona, 85282	Sample Collected By :	

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

Client Sample ID	Sample Collection Date & Time	Matrix	A&B Job Sample ID
MSE01-053023	5/30/2023 15:41	Cassette	23060617.01
MSE02-053023	5/30/2023 15:34	Cassette	23060617.02
MSE01-053123	5/31/2023 15:55	Cassette	23060617.03
MSE02-053123	5/31/2023 16:01	Cassette	23060617.04
MSE01-060123	6/1/2023 15:41	Cassette	23060617.05
MSE02-060123	6/1/2023 15:32	Cassette	23060617.06

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

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

Date 6/14/2023

Job ID : 23060617
Analytical Method: NIOSH 7400-I3-June2019

Client: GES - ASRC Industrial Project: J310000400 / Hunters Point Shipyard, Parcel E RA Phase II 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
23060617.01	MSE01-053023	05/30/2023	Area	2			557	1114	100	26.0	33.121	0.011		06/14/23	[redacted]
23060617.02	MSE02-053023	05/30/2023	Area	2			553	1106	100	19.0	24.204	0.008		06/14/23	
23060617.03	MSE01-053123	05/31/2023	Area	2			567	1134	100	22.5	28.662	0.010		06/14/23	
23060617.04	MSE02-053123	05/31/2023	Area	2			580	1160	100	14.0	17.834	0.006		06/14/23	
23060617.05	MSE01-060123	06/01/2023	Area	2			548	1096	100	25.0	31.847	0.011		06/14/23	
23060617.06	MSE02-060123	06/01/2023	Area	2			545	1090	100	24.5	31.210	0.011		06/14/23	

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

Sr Value

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

*Fiber Range = # of Fibers / 100 Counts

OUTR = Overload,Unable To Read

Intralaboratory Sr 5-20:0.06 20-50:0.04 50-100:0.02

Sample Condition Checklist

A&B JobID : **23060617**	Date Received : **06/07/2023**	Time Received : **10:12AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **20.3°C**	Sample pH : **NA**	
Thermometer ID : **IR5**	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 ☐			
9.	**Samples were received in appropriate container(s)**	X		
10.	**Sample(s) were received with Proper preservative**			X
11.	**All samples were tagged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's.**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received with in the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18.	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

No cooler was received, however samples are received in a box with a custody seal. Black cassettes.

Received by : [redacted]

Check in by/date : [redacted] / 06/07/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]060623ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Job ID:23060617
06/07/2023 GES - ASRC Industrial ACH

Equipment:

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1						
1	MSE01-053023	A	05/30/2023	1541	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-053023	A	05/30/2023	1534		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

6/6/23

[redacted]

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/6/23	1400	FedEx	6/6/23	1400	Shipping Date:06/06/23 / FEDEX 7722 4725 4020
FEDEX	6/7/23					Received by Laboratory: *(Signature, Date, Time)* & condition: [redacted] 6/7/23 10:12 20.3°C IRS [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]060623ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos 1	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-053123	A	05/31/2023	1555	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-053123	A	05/31/2023	1601		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

[redacted] 6/6/23

[redacted] 6/6/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/6/23	1400	Fedex	6/6/23	1400	Shipping Date:06/06/23 / FEDEX 7722 4725 4020
FEDEX	6/7/23					Received by Laboratory (Signature, Date, Time) & condition: [redacted] 6/7/23 10:12
						20.3°C IRS [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1655 Grant Street, Suite 1200, Concord, CA 94520
[redacted]

COC ID # [redacted]060623ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Laboratory: A&B Labs	Event: **Parcel E Asbestos**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400	Ship to: 10100 East Fwy Ste. 100 Houston TX 77029	

Comments:

Equipment:

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-060123	A	06/01/2023	1541	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-060123	A	06/01/2023	1532		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

OSA
06A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/6/23	1400	Fedex	6/6/23	1400	Shipping Date 06/06/23 / FEDEX 7722 4725 4020
FED EX	6/7/23					**Received by Laboratory:** *(Signature, Date, Time)* **& condition** [redacted] 6/7/23 10:12
						20.3°C IR5 [redacted]

COC ID # [redacted]060623ASBE

Project Name: Hunters Point Shipyard, Parcel E RA Phase II	Event: Parcel E Asbestos
Project Number: J310000400	
WBS Code: J310000400	

Sample ID	End Date	End Time	Flow Rate (L/min), Total Time (mins)
MSE01-053023	30-May	15:41	2; 557
MSE02-053023	30-May	15:34	2; 553
MSE01-053123	31-May	15:55	2; 567
MSE02-053123	31-May	16:01	2; 580
MSE01-060123	1-Jun	15:41	2; 548
MSE02-060123	1-Jun	15:32	2; 545

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

SHIP DATE: 30MAY23
ACTWGT: 1.00 LB
CAD: 254128867/INET4610

BILL SENDER

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

HOUSTON TX 77029
(713) 453-6060 REF J31000 400 00 18 04
INV:
PO: DEPT

583J/2729AB/FE2D

FedEx Express

WED - 31 MAY 4:30P
STANDARD OVERNIGHT

TRK# 0201 7722 4725 4020

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Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

May 16, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B130022

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: May 10, 2023
Reported: May 16, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]

[redacted]
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 05/10/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B130022001 Sample ID: PM021523-44 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/2/2023 6:39:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/11/23	1742380 L	1000 ug			51400 ug	29 ug/M3

Lab ID: B130022002 Sample ID: TSP021523-45 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/2/2023 6:39:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/11/23	1655000 L	1000 ug			104000 ug	63 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/16/23	1655000 L	98.0 ug			338 ug	0.2042 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/16/23	1655000 L	14.0 ug			24.2 ug	0.0146 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/16/23	1655000 L	98.0 ug			< 98 ug	< 0.0592 ug/M3

Lab ID: B130022003 Sample ID: PM021523-46 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/2/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/11/23	1766310 L	1000 ug			17800 ug	10 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B130022004 Sample ID: TSP021523-47 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/2/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/11/23	1775500 L	1000 ug			39400 ug	22 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/16/23	1775500 L	98.0 ug			< 98 ug	< 0.0552 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/16/23	1775500 L	14.0 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/16/23	1775500 L	98.0 ug			< 98 ug	< 0.0552 ug/M3

Lab ID: B130022005 Sample ID: PM021523-48 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/3/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/11/23	1667680 L	1000 ug			15900 ug	10 ug/M3

Lab ID: B130022006 Sample ID: TSP021523-49 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/3/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/11/23	1580170 L	1000 ug			35400 ug	22 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/16/23	1580170 L	98.0 ug			687 ug	0.4348 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/16/23	1580170 L	14.0 ug			14.6 ug	0.0092 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/16/23	1580170 L	98.0 ug			< 98 ug	< 0.062 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B130022007 Sample ID: PM021523-50 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/3/2023 6:22:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/11/23	1754820 L	1000 ug			8300 ug	5 ug/M3

Lab ID: B130022008 Sample ID: TSP021523-51 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/3/2023 6:22:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/11/23	1762960 L	1000 ug			14100 ug	8 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/16/23	1762960 L	98.0 ug			226 ug	0.1282 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/16/23	1762960 L	14.0 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/16/23	1762960 L	98.0 ug			< 98 ug	< 0.0556 ug/M3

Lab ID: B130022009 Sample ID: PM021723-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/4/2023 3:45:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/11/23	661800 L	1000 ug			5900 ug	9 ug/M3

Lab ID: B130022010 Sample ID: TSP021723-07 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/4/2023 3:45:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/11/23	629370 L	1000 ug			10600 ug	17 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
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Final Report

Lab ID: B130022010 Sample ID: TSP021723-07 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/4/2023 3:45:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	05/16/23	629370 L	98.0 ug			362 ug	0.5752 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/16/23	629370 L	14.0 ug			< 14 ug	< 0.0222 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/16/23	629370 L	98.0 ug			< 98 ug	< 0.1557 ug/M3

Lab ID: B130022011 Sample ID: PM021723-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/4/2023 3:51:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/11/23	690560 L	1000 ug			4300 ug	6 ug/M3

Lab ID: B130022012 Sample ID: TSP021723-09 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/4/2023 3:51:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/11/23	693250 L	1000 ug			6300 ug	9 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/16/23	693250 L	98.0 ug			108 ug	0.1558 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/16/23	693250 L	14.0 ug			< 14 ug	< 0.0202 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/16/23	693250 L	98.0 ug			< 98 ug	< 0.1414 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]050923AIRE

B130022

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

						Analytical Test Method														
						CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu												
	Event: Parcel E Phase 2 Air Monitoring					1	1	1												
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM021523-44	A	05/02/2023	0639	[redacted]	X										AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP021523-45	A	05/02/2023	0639			X	X								AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM021523-46	A	05/02/2023	0628		X										AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP021523-47	A	05/02/2023	0628			X	X								AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/9/23	1600	[redacted]	5/9/23	1600
				5/10/23	11:17

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/9/2023 / FEDEX / 7719 8700 6750

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

[redacted] 5/10/23 11:17 Custody Seals Intact

GES.Navy_COC_Field
April 27, 2023

[redacted]
5/9/23

CHAIN-OF-CUSTODY RECORD

[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]050923AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
	Event: Parcel E Phase 2 Air Monitoring					1	1	1						
1	PM021523-48	A	05/03/2023	0630	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP021523-49	A	05/03/2023	0630			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM021523-50	A	05/03/2023	0622		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP021523-51	A	05/03/2023	0622			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/9/23	1600	[redacted]	5/9/23	1600
			[redacted]	5/10/23	11:17

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/9/2023 / FEDEX / 7719 8700 6750

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

[redacted] 5/10/23 11:17 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]050923AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

	Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
	Event: Parcel E Phase 2 Air Monitoring					1	1	1						
1	PM021723-06	A	05/04/2023	1545	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP021723-07	A	05/04/2023	1545			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM021723-08	A	05/04/2023	1551		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP021723-09	A	05/04/2023	1551			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/9/23	1600	FedEx	5/9/23	1600
			[redacted]	5/10/23	11:17

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/9/2023 / FEDEX / 7719 8700 6750

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

[redacted] 5/10/23 11:17 Custody Seals Intact

COC # [redacted]050923AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM021523-44	A	05/02/2023	0639	VOLUME (M3): 1742.38
2	TSP021523-45	A	05/02/2023	0639	VOLUME (M3): 1655.00
3	PM021523-46	A	05/02/2023	0628	VOLUME (M3): 1766.31
4	TSP021523-47	A	05/02/2023	0628	VOLUME (M3): 1775.50
5	PM021523-48	A	05/03/2023	0630	VOLUME (M3): 1667.68
6	TSP021523-49	A	05/03/2023	0630	VOLUME (M3): 1580.17
7	PM021523-50	A	05/03/2023	0622	VOLUME (M3): 1754.82
8	TSP021523-51	A	05/03/2023	0622	VOLUME (M3): 1762.96
9	PM021723-06	A	05/04/2023	1545	VOLUME (M3): 661.80
10	TSP021723-07	A	05/04/2023	1545	VOLUME (M3): 629.37
11	PM021723-08	A	05/04/2023	1551	VOLUME (M3): 690.56
12	TSP021723-09	A	05/04/2023	1551	VOLUME (M3): 693.25

Sample ID	Cubic Meter	Volume (L)	
PM021523-44		1742.38	1742380
TSP021523-45		1655	1655000
PM021523-46		1766.31	1766310
TSP021523-47		1775.5	1775500
PM021523-48		1667.68	1667680
TSP021523-49		1580.17	1580170
PM021523-50		1754.82	1754820
TSP021523-51		1762.96	1762960
PM021723-06		661.8	661800
TSP021723-07		629.37	629370
PM021723-08		690.56	690560
TSP021723-09		693.25	693250
			0
			0
			0
			0
			0
			0
			0

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing
Analytics

Level 2 QA/QC Summary Report

Work Order #: B130022

Report Date: 5/16/2023

Batch ID: ICP230515B

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	99.0	99.0	75-125	0.0	25
LCS ICP23	BLKSPK	Lead	103.0	103.0	75-125	0.0	25
LCS ICP23	BLKSPK	Manganese	93.0	93.0	75-125	0.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	LOD	Units
LMB ICP2	LMB	Copper	< 98	98	ug
LMB ICP2	LMB	Lead	< 14	14	ug
LMB ICP2	LMB	Manganese	< 98	98	ug

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

June 6, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B137027

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: May 17, 2023
Reported: May 25, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]
[redacted] CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 05/17/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B137027001 Sample ID: PM031423-15 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/9/2023 6:40:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	1757140 L	1000 ug			28500 ug	16 ug/M3

Lab ID: B137027002 Sample ID: TSP031423-16 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/9/2023 6:40:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	1668900 L	1000 ug			48800 ug	29 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	1668900 L	98 ug			735 ug	0.44 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	1668900 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	05/19/23	1668900 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B137027003 Sample ID: PM031423-17 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/9/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	1787370 L	1000 ug			18900 ug	11 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B137027004 Sample ID: TSP031423-18 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/9/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	1783530 L	1000 ug			28000 ug	16 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	1783530 L	98 ug			146 ug	0.082 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	1783530 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	05/19/23	1783530 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B137027005 Sample ID: PM031423-19 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/10/2023 6:40:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	1751530 L	1000 ug			42400 ug	24 ug/M3

Lab ID: B137027006 Sample ID: TSP031423-20 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/10/2023 6:40:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	1661140 L	1000 ug			76400 ug	46 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	1661140 L	98 ug			326 ug	0.196 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	1661140 L	14 ug			18.9 ug	0.011 ug/M3
Manganese	40 CFR Part 50 Appendix G	05/19/23	1661140 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B137027007 Sample ID: PM031423-21 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/10/2023 6:34:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B137027007 Sample ID: PM031423-21 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/10/2023 6:34:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	1777300 L	1000 ug			17100 ug	10 ug/M3

Lab ID: B137027008 Sample ID: TSP031423-22 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/10/2023 6:34:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	1783330 L	1000 ug			32500 ug	18 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	1783330 L	98 ug			< 98 ug	< 0.055 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	1783330 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	05/19/23	1783330 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B137027009 Sample ID: PM031423-23 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 6:41:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	1753740 L	1000 ug			32900 ug	19 ug/M3

Lab ID: B137027010 Sample ID: TSP031423-24 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 6:41:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	1665510 L	1000 ug			70000 ug	42 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	1665510 L	98 ug			410 ug	0.246 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	1665510 L	14 ug			18.6 ug	0.011 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B137027010 Sample ID: TSP031423-24 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 6:41:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	05/19/23	1665510 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B137027011 Sample ID: PM031423-25 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	1783330 L	1000 ug			13400 ug	8 ug/M3

Lab ID: B137027012 Sample ID: TSP031523-01 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	1781390 L	1000 ug			24500 ug	14 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	1781390 L	98 ug			< 98 ug	< 0.055 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	1781390 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	05/19/23	1781390 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B137027013 Sample ID: PM031523-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 3:01:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	603440 L	1000 ug			13300 ug	22 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B137027014 Sample ID: TSP031523-03 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 3:01:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	572900 L	1000 ug			28800 ug	50 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	572900 L	98 ug			268 ug	0.467 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	572900 L	14 ug			< 14 ug	< 0.024 ug/M3
Manganese	40 CFR Part 50 Appendix G	05/19/23	572900 L	98 ug			< 98 ug	< 0.171 ug/M3

Lab ID: B137027015 Sample ID: PM031523-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 3:14:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/18/23	637660 L	1000 ug			7400 ug	12 ug/M3

Lab ID: B137027016 Sample ID: TSP031523-05 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/11/2023 3:14:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/18/23	638310 L	1000 ug			13400 ug	21 ug/M3
Copper	40 CFR Part 50 Appendix G	05/19/23	638310 L	98 ug			< 98 ug	< 0.154 ug/M3
Lead	40 CFR Part 50 Appendix G	05/19/23	638310 L	14 ug			< 14 ug	< 0.022 ug/M3
Manganese	40 CFR Part 50 Appendix G	05/19/23	638310 L	98 ug			< 98 ug	< 0.154 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282

COC # [redacted]051623AIRE

B137027

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031423-15	A	05/09/2023	0640	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031423-16	A	05/09/2023	0640			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031423-17	A	05/09/2023	0633		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031423-18	A	05/09/2023	0633			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/16/23	1400	Fedex	5/16/23	1400
			[redacted]	5/17/23	11:30
			[redacted]		

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/16/2023 / FEDEX / 7720 3795 1950

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

[redacted] 5/17/23 Custody Seals Intact
11:30

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]051623AIRE

GES
AN ABM INDUSTRIAL COMPANY

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031423-19	A	05/10/2023	0640	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031423-20	A	05/10/2023	0640			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031423-21	A	05/10/2023	0634		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031423-22	A	05/10/2023	0634			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/16/23	1400	FedEx	5/16/23	1400
			[redacted]	5/17/23	11:30

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/16/2023 / FEDEX / 7720 3795 1950

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

[redacted] 5/17/23 11:30 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]051623AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031423-23	A	05/11/2023	0641	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031423-24	A	05/11/2023	0641			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031423-25	A	05/11/2023	0635		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-01	A	05/11/2023	0635			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/16/23	1400	FedEx	5/16/23	1400
			[redacted]	5/17/23	11:30

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/16/2023 / FEDEX / 7720 3795 1950

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

[redacted] 5/17/23 11:30 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]051623AIRE

GES
AN ABAC INDUSTRIAL COMPANY

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031523-02	A	05/11/2023	1501	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-03	A	05/11/2023	1501			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-04	A	05/11/2023	1514		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-05	A	05/11/2023	1514			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/16/23	1400	FedEx	5/16/23	1400
			[redacted]	5/17/23	11:30

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/16/2023 / FEDEX / 7720 3795 1950

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

[redacted] 5/17/23 11:30 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

COC # [redacted]051623AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2					
Project Number: J310000400					
WBS Code: J310000400-016					
	Sample ID	Matrix	Date	Time	Comments
1	PM031423-15	A	05/09/2023	0640	VOLUME (M3): 1757.14
2	TSP031423-16	A	05/09/2023	0640	VOLUME (M3): 1668.90
3	PM031423-17	A	05/09/2023	0633	VOLUME (M3): 1787.37
4	TSP031423-18	A	05/09/2023	0633	VOLUME (M3): 1783.53
5	PM031423-19	A	05/10/2023	0640	VOLUME (M3): 1751.53
6	TSP031423-20	A	05/10/2023	0640	VOLUME (M3): 1661.14
7	PM031423-21	A	05/10/2023	0634	VOLUME (M3): 1777.73
8	TSP031423-22	A	05/10/2023	0634	VOLUME (M3): 1783.42
9	PM031423-23	A	05/11/2023	0641	VOLUME (M3): 1753.74
10	TSP031423-24	A	05/11/2023	0641	VOLUME (M3): 1665.51
11	PM031423-25	A	05/11/2023	0635	VOLUME (M3): 1783.33
12	TSP031523-01	A	05/11/2023	0635	VOLUME (M3): 1781.39
13	PM031523-02	A	05/11/2023	1501	VOLUME (M3): 603.44
14	TSP031523-03	A	05/11/2023	1501	VOLUME (M3): 572.90
15	PM031523-04	A	05/11/2023	1514	VOLUME (M3): 637.66
16	TSP031523-05	A	05/11/2023	1514	VOLUME (M3): 638.31

Sample ID	Cubic Meter	Volume (L)
PM031423-15	1757.14	1757140
TSP031423-16	1668.9	1668900
PM031423-17	1787.37	1787370
TSP031423-18	1783.53	1783530
PM031423-19	1751.53	1751530
TSP031423-20	1661.14	1661140
PM031423-21	1777.3	1777300
TSP031423-22	1783.33	1783330
PM031423-23	1753.74	1753740
TSP031423-24	1665.51	1665510
PM031423-25	1783.33	1783330
TSP-031523-01	1781.39	1781390
PM031523-02	603.44	603440
TSP031523-03	572.9	572900
PM031523-04	637.66	637660
TSP031523-05	638.31	638310
		0
		0
		0

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing
Analytics

Level 2 QA/QC Summary Report

Work Order #: B137027

Report Date: 6/6/2023

Batch ID:	**ICP230518B**	Analysis Date:	5/19/2023
Media::	**8X10PW GFF**	Preparation Date	5/18/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	91	94	75-125	2.0	25
LCS ICP23	BLKSPK	Lead	94	95	75-125	1.0	25
LCS ICP23	BLKSPK	Manganese	91	92	75-125	0.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	RL	Units
LMB ICP2	LMB	Copper	< 98	98	ug
LMB ICP2	LMB	Lead	< 14	14	ug
LMB ICP2	LMB	Manganese	< 98	98	ug

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

June 1, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B144037

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: May 24, 2023
Reported: June 1, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]

[redacted] CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 05/24/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B144037001 Sample ID: PM021723-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/16/2023 6:43:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	1742690 L	1000 ug			21100 ug	12 ug/M3

Lab ID: B144037002 Sample ID: TSP021723-11 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/16/2023 6:43:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	1648880 L	1000 ug			46500 ug	28 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	1648880 L	98 ug			971.1 ug	0.5889 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	1648880 L	14 ug			< 14 ug	< 0.0085 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	1648880 L	98 ug			< 98 ug	< 0.0594 ug/M3

Lab ID: B144037003 Sample ID: PM031223-01 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/16/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	1780280 L	1000 ug			11000 ug	6 ug/M3

Eurofins Analytics, LLC
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Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B144037004 Sample ID: TSP031223-02 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/16/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	1789320 L	1000 ug			29200 ug	16 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	1789320 L	98 ug			198.2 ug	0.1108 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	1789320 L	14 ug			< 14 ug	< 0.0078 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	1789320 L	98 ug			< 98 ug	< 0.0548 ug/M3

Lab ID: B144037005 Sample ID: PM031523-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/17/2023 6:50:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	1310950 L	1000 ug			30300 ug	23 ug/M3

Lab ID: B144037006 Sample ID: TSP031523-07 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/17/2023 6:50:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	1242820 L	1000 ug			64400 ug	52 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	1242820 L	98 ug			730.8 ug	0.588 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	1242820 L	14 ug			15.29 ug	0.0123 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	1242820 L	98 ug			< 98 ug	< 0.0789 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B144037007 Sample ID: PM031523-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/17/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	1775700 L	1000 ug			18200 ug	10 ug/M3

Lab ID: B144037008 Sample ID: TSP031523-09 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/17/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	1778520 L	1000 ug			36600 ug	21 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	1778520 L	98 ug			203.7 ug	0.1145 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	1778520 L	14 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	1778520 L	98 ug			< 98 ug	< 0.0551 ug/M3

Lab ID: B144037009 Sample ID: PM031523-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 6:46:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	1751390 L	1000 ug			22500 ug	13 ug/M3

Lab ID: B144037010 Sample ID: TSP031523-11 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 6:46:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	1655240 L	1000 ug			54300 ug	33 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B144037010 Sample ID: TSP031523-11 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 6:46:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	1655240 L	98 ug			938.6 ug	0.567 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	1655240 L	14 ug			< 14 ug	< 0.0085 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	1655240 L	98 ug			< 98 ug	< 0.0592 ug/M3

Lab ID: B144037011 Sample ID: PM031523-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	1774570 L	1000 ug			14400 ug	8 ug/M3

Lab ID: B144037012 Sample ID: TSP031523-13 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	1778090 L	1000 ug			28900 ug	16 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	1778090 L	98 ug			< 98 ug	< 0.0551 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	1778090 L	14 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	1778090 L	98 ug			< 98 ug	< 0.0551 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B144037013 Sample ID: PM031523-14 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 2:02:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	430730	L	1000 ug			4300 ug	10 ug/M3

Lab ID: B144037014 Sample ID: TSP031523-15 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 2:02:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	500140	L	1000 ug			9200 ug	18 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	500140	L	98 ug			111.1 ug	0.2221 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	500140	L	14 ug			< 14 ug	< 0.028 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	500140	L	98 ug			< 98 ug	< 0.1959 ug/M3

Lab ID: B144037015 Sample ID: PM031523-16 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 1:48:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	05/25/23	535950	L	1000 ug			3400 ug	6 ug/M3

Lab ID: B144037016 Sample ID: TSP031523-17 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 1:48:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	05/25/23	532980	L	1000 ug			< 1000 ug	< ug/M3

Filter was torn off on corner, results biased low.

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B144037016 Sample ID: TSP031523-17 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/18/2023 1:48:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	05/31/23	532980 L	98 ug			< 98 ug	< 0.1839 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	05/31/23	532980 L	14 ug			< 14 ug	< 0.0263 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	05/31/23	532980 L	98 ug			< 98 ug	< 0.1839 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]052323AIRE

B144037

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Analytical Test Method: CAAIR - Air PM10 (1); N0500 - Air TSP (1); SW6010B - Air Pb Mn Cu (1)

[redacted] 5/23/23

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM021723-10	A	05/16/2023	0643	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP021723-11	A	05/16/2023	0643			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031223-01	A	05/16/2023	0630		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031223-02	A	05/16/2023	0630			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

[redacted] 5/23/23

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/23/23	1400	FedEx	5/23/23	1400
			[redacted]	5/24/23	1221

Shipping Date / Carrier / Airbill Number
Shipping Date: 5/23/2023 / FEDEX / 7720 9280 0067

[redacted]ory: *(Signature, Date, Time)* **& condition**
[redacted] 5/24/23 1221 custody seal intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282 [redacted]

COC # [redacted]052323AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031523-06	A	05/17/2023	0650	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-07	A	05/17/2023	0650			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-08	A	05/17/2023	0633		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-09	A	05/17/2023	0633			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/23/23	1400	FedEx	5/23/23	1400
			[redacted]	5/24/23	1221

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/23/2023 / FEDEX / 7720 9280 0067

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

[redacted] 5/24/23 1221 Custody Seal INTACT [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]52323AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031523-10	A	05/18/2023	0646	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-11	A	05/18/2023	0646			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-12	A	05/18/2023	0632		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-13	A	05/18/2023	0632			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/23/23	1460	Fedex	5/23/23	1400
			[redacted]	5/24/23	1221

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/23/2023 / FEDEX / 7720 9280 0067

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

[redacted] 5/24/23 1221 Custody Seal Intact [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]052323AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031523-14	A	05/18/2023	1402	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-15	A	05/18/2023	1402			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-16	A	05/18/2023	1348		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-17	A	05/18/2023	1348			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/23/23	1400	FedEx	5/23/23	1400
[redacted]			[redacted]	5/24/23	1221

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/23/2023 / FEDEX / 7720 9280 0067

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

[redacted] 5/24/23 1221 Custody Seal Intact [redacted]

COC # [redacted]052323AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM021723-10	A	05/16/2023	0643	VOLUME (M3): 1742.69
2	TSP021723-11	A	05/16/2023	0643	VOLUME (M3): 1648.88
3	PM031223-01	A	05/16/2023	0630	VOLUME (M3): 1780.28
4	TSP031223-02	A	05/16/2023	0630	VOLUME (M3): 1789.32
5	PM031523-06	A	05/17/2023	0650	VOLUME (M3): 1310.95
6	TSP031523-07	A	05/17/2023	0650	VOLUME (M3): 1242.82
7	PM031523-08	A	05/17/2023	0633	VOLUME (M3): 1775.70
8	TSP031523-09	A	05/17/2023	0633	VOLUME (M3): 1778.52
9	PM031523-10	A	05/18/2023	0646	VOLUME (M3): 1751.39
10	TSP031523-11	A	05/18/2023	0646	VOLUME (M3): 1655.24
11	PM031523-12	A	05/18/2023	0632	VOLUME (M3): 1774.57
12	TSP031523-13	A	05/18/2023	0632	VOLUME (M3): 1778.09
13	PM031523-14	A	05/18/2023	1402	VOLUME (M3): 430.73
14	TSP031523-15	A	05/18/2023	1402	VOLUME (M3): 500.14
15	PM031523-16	A	05/18/2023	1348	VOLUME (M3): 535.95
16	TSP031523-17	A	05/18/2023	1348	VOLUME (M3): 532.98

Sample ID	Cubic Meter	Volume (L)
PM021723-10	1742.69	1742690
TSP021723-11	1648.88	1648880
PM031223-01	1780.28	1780280
TSP031223-02	1789.32	1789320
PM031523-06	1310.95	1310950
TSP031523-07	1242.82	1242820
PM031523-08	1775.7	1775700
TSP031523-09	1778.52	1778520
PM031523-10	1751.39	1751390
TSP031523-11	1655.24	1655240
PM031523-12	1774.57	1774570
TSP031523-13	1778.09	1778090
PM031523-14	430.73	430730
TSP031523-15	500.14	500140
PM031523-16	535.95	535950
TSP031523-17	532.98	532980
		0
		0
		0
		0
		0
		0
		0
		0

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing
Analytics

Level 2 QA/QC Summary Report

Work Order #: B144037

Report Date: 6/1/2023

Batch ID:	**ICP230526D**	Analysis Date:	5/31/2023
Media::	**8X10PW GFF**	Preparation Date	5/26/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	94	94	75-125	0.0	25
LCS ICP23	BLKSPK	Lead	95	95	75-125	0.0	25
LCS ICP23	BLKSPK	Manganese	98	98	75-125	0.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	RL	Units
LMB ICP2	LMB	Copper	< 98	98	ug
LMB ICP2	LMB	Lead	< 14	14	ug
LMB ICP2	LMB	Manganese	< 98	98	ug

Eurofins Analytics, LLC
10329 Stony Run Lane
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AIHA LAP, LLC Accreditation ID 100531

June 6, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B151051

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: May 31, 2023
Reported: June 6, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]
[redacted] CIH
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 05/31/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B151051001 Sample ID: PM031523-36 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/23/2023 6:38:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	1757590 L	1000 ug			59400 ug	34 ug/M3

Lab ID: B151051002 Sample ID: TSP031523-37 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/23/2023 6:38:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	1660620 L	1000 ug			95200 ug	57 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	1660620 L	98 ug			435 ug	0.262 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	1660620 L	14 ug			31.1 ug	0.019 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/02/23	1660620 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B151051003 Sample ID: PM031523-38 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/23/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	1791150 L	1000 ug			54000 ug	30 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B151051004 Sample ID: TSP031523-39 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/23/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	1788490 L	1000 ug			89900 ug	50 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	1788490 L	98 ug			175 ug	0.098 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	1788490 L	14 ug			24.6 ug	0.014 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/02/23	1788490 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B151051005 Sample ID: PM031523-40 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/24/2023 6:42:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	958870 L	1000 ug			26300 ug	27 ug/M3

Lab ID: B151051006 Sample ID: TSP031523-41 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/24/2023 6:42:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	907110 L	1000 ug			41200 ug	45 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	907110 L	98 ug			295 ug	0.325 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	907110 L	14 ug			23.3 ug	0.026 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/02/23	907110 L	98 ug			< 98 ug	< 0.108 ug/M3

Lab ID: B151051007 Sample ID: PM031523-42 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/24/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B151051007 Sample ID: PM031523-42 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/24/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	1785740 L	1000 ug			47200 ug	26 ug/M3

Lab ID: B151051008 Sample ID: TSP031523-43 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/24/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	1784530 L	1000 ug			73100 ug	41 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	1784530 L	98 ug			< 98 ug	< 0.055 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	1784530 L	14 ug			22.2 ug	0.012 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/02/23	1784530 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B151051009 Sample ID: PM031523-44 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	1747740 L	1000 ug			43600 ug	25 ug/M3

Lab ID: B151051010 Sample ID: TSP031523-45 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	1656570 L	1000 ug			86500 ug	52 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	1656570 L	98 ug			536 ug	0.324 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	1656570 L	14 ug			32.4 ug	0.02 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B151051010 Sample ID: TSP031523-45 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	06/02/23	1656570 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B151051011 Sample ID: PM031523-46 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	1772480 L	1000 ug			26900 ug	15 ug/M3

Lab ID: B151051012 Sample ID: TSP031523-47 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	1773930 L	1000 ug			40000 ug	23 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	1773930 L	98 ug			108 ug	0.061 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	1773930 L	14 ug			20.5 ug	0.012 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/02/23	1773930 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B151051013 Sample ID: PM031523-48 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 3:02:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	611030 L	1000 ug			11600 ug	19 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B151051014 Sample ID: TSP031523-49 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 3:02:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	576840 L	1000 ug			25600 ug	44 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	576840 L	98 ug			255 ug	0.442 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	576840 L	14 ug			27.3 ug	0.047 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/02/23	576840 L	98 ug			< 98 ug	< 0.17 ug/M3

Lab ID: B151051015 Sample ID: PM031523-50 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 2:46:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/01/23	606240 L	1000 ug			5600 ug	9 ug/M3

Lab ID: B151051016 Sample ID: TSP031223-19 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/25/2023 2:46:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/01/23	605780 L	1000 ug			8300 ug	14 ug/M3
Copper	40 CFR Part 50 Appendix G	06/02/23	605780 L	98 ug			< 98 ug	< 0.162 ug/M3
Lead	40 CFR Part 50 Appendix G	06/02/23	605780 L	14 ug			19.8 ug	0.033 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/02/23	605780 L	98 ug			< 98 ug	< 0.162 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]053023AIRE

B151051

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031523-36	A	05/23/2023	0638	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-37	A	05/23/2023	0638			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-38	A	05/23/2023	0632		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-39	A	05/23/2023	0632			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/30/23	1400	Fedex	5/30/23	1400
			[redacted]	5/31/23	14:20

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/30/2023 / FEDEX / 7721 4919 0275

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

[redacted] 5/31/23 14:20 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]053023AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

						Analytical Test Method	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu										
	Event: Parcel E Phase 2 Air Monitoring						1	1	1										
	Sample ID	Matrix	Date	Time	Samp Init.											Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	PM031523-40	A	05/24/2023	0642	[redacted]		X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-41	A	05/24/2023	0642				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-42	A	05/24/2023	0635			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-43	A	05/24/2023	0635				X	X							AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	**Date**	**Time**	**Received by: *(Signature)***	**Date**	**Time**
[redacted]	5/30/23	1400	FedEx	5/30/23	1400
			[redacted]	5/31/23	14:20

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/30/2023 / FEDEX / 7721 4919 0275

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

[redacted] 5/31/23 14:20 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]053023AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031523-44	A	05/25/2023	0637	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-45	A	05/25/2023	0637			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-46	A	05/25/2023	0629		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031523-47	A	05/25/2023	0629			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/30/23	1400	FedEx	5/30/23	1400
			[redacted]	5/31/23	14:20

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/30/2023 / FEDEX / 7721 4919 0275

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

[redacted] 5/31/23 14:20 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]053023AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031523-48	A	05/25/2023	1502	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031523-49	A	05/25/2023	1502			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031523-50	A	05/25/2023	1446		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031223-19	A	05/25/2023	1446			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	5/30/23	1400	Fedex	5/30/23	1400
			[redacted]	5/31/23	14:20

Shipping Date / Carrier / Airbill Number

Shipping Date: 5/30/2023 / FEDEX / 7721 4919 0275

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

[redacted] 5/31/23 14:20 Custody Seals Intact

COC # [redacted]053023AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM031523-36	A	05/23/2023	0638	VOLUME (M3): 1757.59
2	TSP031523-37	A	05/23/2023	0638	VOLUME (M3): 1660.62
3	PM031523-38	A	05/23/2023	0632	VOLUME (M3): 1791.15
4	TSP031523-39	A	05/23/2023	0632	VOLUME (M3): 1788.49
5	PM031523-40	A	05/24/2023	0642	VOLUME (M3): 958.87
6	TSP031523-41	A	05/24/2023	0642	VOLUME (M3): 907.11
7	PM031523-42	A	05/24/2023	0635	VOLUME (M3): 1785.74
8	TSP031523-43	A	05/24/2023	0635	VOLUME (M3): 1784.53
9	PM031523-44	A	05/25/2023	0637	VOLUME (M3): 1747.74
10	TSP031523-45	A	05/25/2023	0637	VOLUME (M3): 1656.57
11	PM031523-46	A	05/25/2023	0629	VOLUME (M3): 1772.48
12	TSP031523-47	A	05/25/2023	0629	VOLUME (M3): 1773.93
13	PM031523-48	A	05/25/2023	1502	VOLUME (M3): 611.03
14	TSP031523-49	A	05/25/2023	1502	VOLUME (M3): 576.84
15	PM031523-50	A	05/25/2023	1446	VOLUME (M3): 606.24
16	TSP031223-19	A	05/25/2023	1446	VOLUME (M3): 605.78

Sample ID	Cubic Meter	Volume (L)
PM031523-36	1757.59	1757590
TSP031523-37	1660.62	1660620
PM031523-38	1791.15	1791150
TSP031523-39	1788.49	1788490
PM031523-40	958.87	958870
TSP031523-41	907.11	907110
PM031523-42	1785.74	1785740
TSP031523-43	1784.53	1784530
PM031523-44	1747.74	1747740
TSP031523-45	1656.57	1656570
PM031523-46	1772.48	1772480
TSP031523-47	1773.93	1773930
PM031523-48	611.03	611030
TSP031523-49	576.84	576840
PM031523-50	606.24	606240
TSP031223-19	605.78	605780
		0
		0
		0

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA-LAP, LLC Accreditation ID 100531

Built Environment Testing
Analytics

Level 2 QA/QC Summary Report

Work Order #: B151051

Report Date: 6/6/2023

Batch ID:	**ICP230601E**	Analysis Date:	6/2/2023
Media::	**8X10PW GFF**	Preparation Date	6/1/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	89	89	75-125	0.0	25
LCS ICP23	BLKSPK	Lead	98	98	75-125	0.0	25
LCS ICP23	BLKSPK	Manganese	88	87	75-125	1.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	RL	Units
LMB ICP2	LMB	Copper	< 98	98	ug
LMB ICP2	LMB	Lead	< 14	14	ug
LMB ICP2	LMB	Manganese	< 98	98	ug

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

June 13, 2023

[redacted]
AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY,
#550
TEMPE, AZ 85282

Laboratory Workorder ID: B158037

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: June 7, 2023
Reported: June 13, 2023

Attached are the results we obtained on the analysis of your samples submitted to Analytics. Any Chains-of-Custody associated by this sample group are enclosed. Air concentrations are calculated as a convenience to the client and the overall accuracy of this result depends on both the accuracy of the air volume and the amount found by analysis. Theoretical air volumes for passive monitors are calculated using the sampling time submitted and the manufacture's listed sampling rate for each compound. Results provided in this report relate only to the items tested.

For blanks and non-detects the results indicated with a '<' value represents the reporting limit for the analysis. Unless otherwise noted results are not corrected for blank values.

Unless the signature of the appropriate manager(s) appears on this report, this report should be considered PRELIMINARY and is subject to change.

We appreciate your confidence in allowing Analytics to be your testing laboratory. Any questions regarding this report can be addressed by calling our customer services department at (800) 888-8061.

[redacted]
Technical Director

Enclosures

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

AIS-GES, LLC
1501 W. FOUNTAINHEAD PKWY, #550
TEMPE, AZ 85282

Customer: PARCELE1
Attention: [redacted]
PO Number J310000400-016

Date Received: 06/07/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B158037001 Sample ID: PM031223-20 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/31/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/08/23	1759470 L	1000 ug			18100 ug	10 ug/M3

Lab ID: B158037002 Sample ID: TSP031223-21 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/31/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/08/23	1664400 L	1000 ug			41200 ug	25 ug/M3
Copper	40 CFR Part 50 Appendix G	06/09/23	1664400 L	98 ug			492 ug	0.296 ug/M3
Lead	40 CFR Part 50 Appendix G	06/09/23	1664400 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/09/23	1664400 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B158037003 Sample ID: PM031223-22 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/31/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/08/23	1780420 L	1000 ug			10800 ug	6 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B158037004 Sample ID: TSP031223-23 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 5/31/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/08/23	1786420 L	1000 ug			20700 ug	12 ug/M3
Copper	40 CFR Part 50 Appendix G	06/09/23	1786420 L	98 ug			< 98 ug	< 0.055 ug/M3
Lead	40 CFR Part 50 Appendix G	06/09/23	1786420 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/09/23	1786420 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B158037005 Sample ID: PM031223-24 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/08/23	1750010 L	1000 ug			64900 ug	37 ug/M3

Lab ID: B158037006 Sample ID: TSP031223-25 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/08/23	1655310 L	1000 ug			141000 ug	85 ug/M3
Copper	40 CFR Part 50 Appendix G	06/09/23	1655310 L	98 ug			718 ug	0.434 ug/M3
Lead	40 CFR Part 50 Appendix G	06/09/23	1655310 L	14 ug			51.7 ug	0.031 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/09/23	1655310 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B158037007 Sample ID: PM031223-26 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B158037007 Sample ID: PM031223-26 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/08/23	1770380 L	1000 ug			39500 ug	22 ug/M3

Lab ID: B158037008 Sample ID: TSP031223-27 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/08/23	1777110 L	1000 ug			62800 ug	35 ug/M3
Copper	40 CFR Part 50 Appendix G	06/09/23	1777110 L	98 ug			< 98 ug	< 0.055 ug/M3
Lead	40 CFR Part 50 Appendix G	06/09/23	1777110 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/09/23	1777110 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B158037009 Sample ID: PM031223-28 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 3:30:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/08/23	654050 L	1000 ug			31500 ug	48 ug/M3

Lab ID: B158037010 Sample ID: TSP031223-29 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 3:30:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/08/23	620280 L	1000 ug			63600 ug	103 ug/M3
Copper	40 CFR Part 50 Appendix G	06/09/23	620280 L	98 ug			330 ug	0.532 ug/M3
Lead	40 CFR Part 50 Appendix G	06/09/23	620280 L	14 ug			16 ug	0.026 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B158037010 Sample ID: TSP031223-29 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 3:30:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	06/09/23	620280	L	98 ug			< 98 ug	< 0.158 ug/M3

Lab ID: B158037011 Sample ID: PM031223-30 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 3:20:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/08/23	658140	L	1000 ug			14600 ug	22 ug/M3

Lab ID: B158037012 Sample ID: TSP031223-31 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/1/2023 3:20:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/08/23	658790	L	1000 ug			22400 ug	34 ug/M3
Copper	40 CFR Part 50 Appendix G	06/09/23	658790	L	98 ug			< 98 ug	< 0.149 ug/M3
Lead	40 CFR Part 50 Appendix G	06/09/23	658790	L	14 ug			< 14 ug	< 0.021 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/09/23	658790	L	98 ug			< 98 ug	< 0.149 ug/M3

Eurofins Analytics, LLC
10329 Stony Run Lane
Ashland, Va 23005
Phone: (804) 365-3000 Fax: (804) 365-3002
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Final Report

General Laboratory Comments

Abbreviations:
ug = micrograms; mg=milligrams; g = grams, ppm=parts per million (volume), ppb = parts per billion (volume), mg/M3=milligrams per cubic meter of air, ug/M3=micrograms per cubic meter of air; Min=minutes, Qual=Qualifiers

B158037

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]060623AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
	Analytical Test Method					1	1	1						
1	PM031223-20	A	05/31/2023	0632	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031223-21	A	05/31/2023	0632			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031223-22	A	05/31/2023	0626		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031223-23	A	05/31/2023	0626			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	6/6/23	1400	Fedex	6/6/23	1400
			[redacted]	6/7/23	12:45

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/6/2023 / FEDEX / 7722 4729 7342

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

[redacted] 6/7/23 12:45 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]060623AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031223-24	A	06/01/2023	0632	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031223-25	A	06/01/2023	0632			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031223-26	A	06/01/2023	0626		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031223-27	A	06/01/2023	0626			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	6/6/23	1400	Fedex	6/6/23	1400
			[redacted]	6/7/23	12:45

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/6/2023 / FEDEX / 7722 4729 7342

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

[redacted] 6/7/23 Custody
12:45 Seals Intact

CHAIN-OF-CUSTODY RECORD

Gilbane Federal
[redacted]
1501 W Fountainhead Parkway, Suite 550, Tempe, Arizona 85282
[redacted]

COC # [redacted]060623AIRE

GES

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Laboratory: EUROFINS BUILT ENVIRONMENT TESTING ANALYTICS, ASHLAND, VA	Event: **Parcel E Phase 2 Air Monitoring**
Project Number: J310000400	POC: [redacted]	
WBS Code: J310000400-016	Ship to: 10329 Stony Run Lane, Ashland, VA 23005	

Comments:

Equipment:

Code	Matrix
A	Air

Code	Container/Preservative
1	1x Envelope, None

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Date	Time	Samp Init.	Analytical Test Method: CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
						1	1	1						
1	PM031223-28	A	06/01/2023	1530	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031223-29	A	06/01/2023	1530			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031223-30	A	06/01/2023	1520		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031223-31	A	06/01/2023	1520			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	6/6/23	1400	Fedex	6/6/23	1400
			[redacted]	6/7/23	12:45

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/6/2023 / FEDEX / 7722 4729 7342

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

[redacted] 6/7/23 Custody
12:45 Seals Intact

COC # [redacted]060623AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2	Event: Parcel E Phase 2 Air Monitoring
Project Number: J310000400	
WBS Code: J310000400-016	

	Sample ID	Matrix	Date	Time	Comments
1	PM031223-20	A	05/31/2023	0632	VOLUME (M3): 1759.47
2	TSP031223-21	A	05/31/2023	0632	VOLUME (M3): 1664.40
3	PM031223-22	A	05/31/2023	0626	VOLUME (M3): 1780.42
4	TSP031223-23	A	05/31/2023	0626	VOLUME (M3): 1786.42
5	PM031223-24	A	06/01/2023	0632	VOLUME (M3): 1750.01
6	TSP031223-25	A	06/01/2023	0632	VOLUME (M3): 1655.31
7	PM031223-26	A	06/01/2023	0626	VOLUME (M3): 1770.38
8	TSP031223-27	A	06/01/2023	0626	VOLUME (M3): 1777.11
9	PM031223-28	A	06/01/2023	1530	VOLUME (M3): 654.05
10	TSP031223-29	A	06/01/2023	1530	VOLUME (M3): 620.28
11	PM031223-30	A	06/01/2023	1520	VOLUME (M3): 658.14
12	TSP031223-31	A	06/01/2023	1520	VOLUME (M3): 658.79

Sample ID	Cubic Meter	Volume (L)
PM031223-20	1759.47	1759470
TSP031223-21	1664.4	1664400
PM031223-22	1780.42	1780420
TSP031223-23	1786.42	1786420
PM031223-24	1750.01	1750010
TSP031223-25	1655.31	1655310
PM031223-26	1770.38	1770380
TSP031223-27	1777.11	1777110
PM031223-28	654.05	654050
TSP031223-29	620.28	620280
PM031223-30	658.14	658140
TSP031223-31	658.79	658790
		0
		0
		0
		0
		0
		0
		0

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Built Environment Testing Analytics

Level 2 QA/QC Summary Report

Work Order #: B158037

Report Date: 6/13/2023

Batch ID: **ICP230609A** Analysis Date: 6/9/2023

Media:: **8X10PW GFF** Preparation Date 6/9/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	89	87	75-125	3.0	25
LCS ICP23	BLKSPK	Lead	94	92	75-125	1.0	25
LCS ICP23	BLKSPK	Manganese	89	87	75-125	1.0	25

Method Blank Results

QC ID	QC Type	Parameter	Result	RL	Units
LMB ICP2	LMB	Copper	< 98	98	ug
LMB ICP2	LMB	Lead	< 14	14	ug
LMB ICP2	LMB	Manganese	< 98	98	ug