Naval Facilities Engineering Systems Command

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

June 1st, 2023 through June 30th, 2023

Approved for public release; distribution is unlimited

DCN: GESL-0005-4332-0125

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Prepared for:

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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*
$\mu g/m^3$ ..... *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 June 1st, 2023 through June 30th, 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 June 1st, 2023, through June 30th, 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 June 1st, 2023, through June 30th, 2023, did not result in the exceedance of the established threshold criteria, as described in detail below.

Asbestos results from June 1st, 2023, through June 30th, 2023, did not exceed the threshold criteria presented in **Table 4-1**. The results are presented as **Attachment 2**.

PM10 results from June 1st, 2023, through June 30th, 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 June 1st, 2023, through June 30th, 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 June 1st, 2023, through June 30th, 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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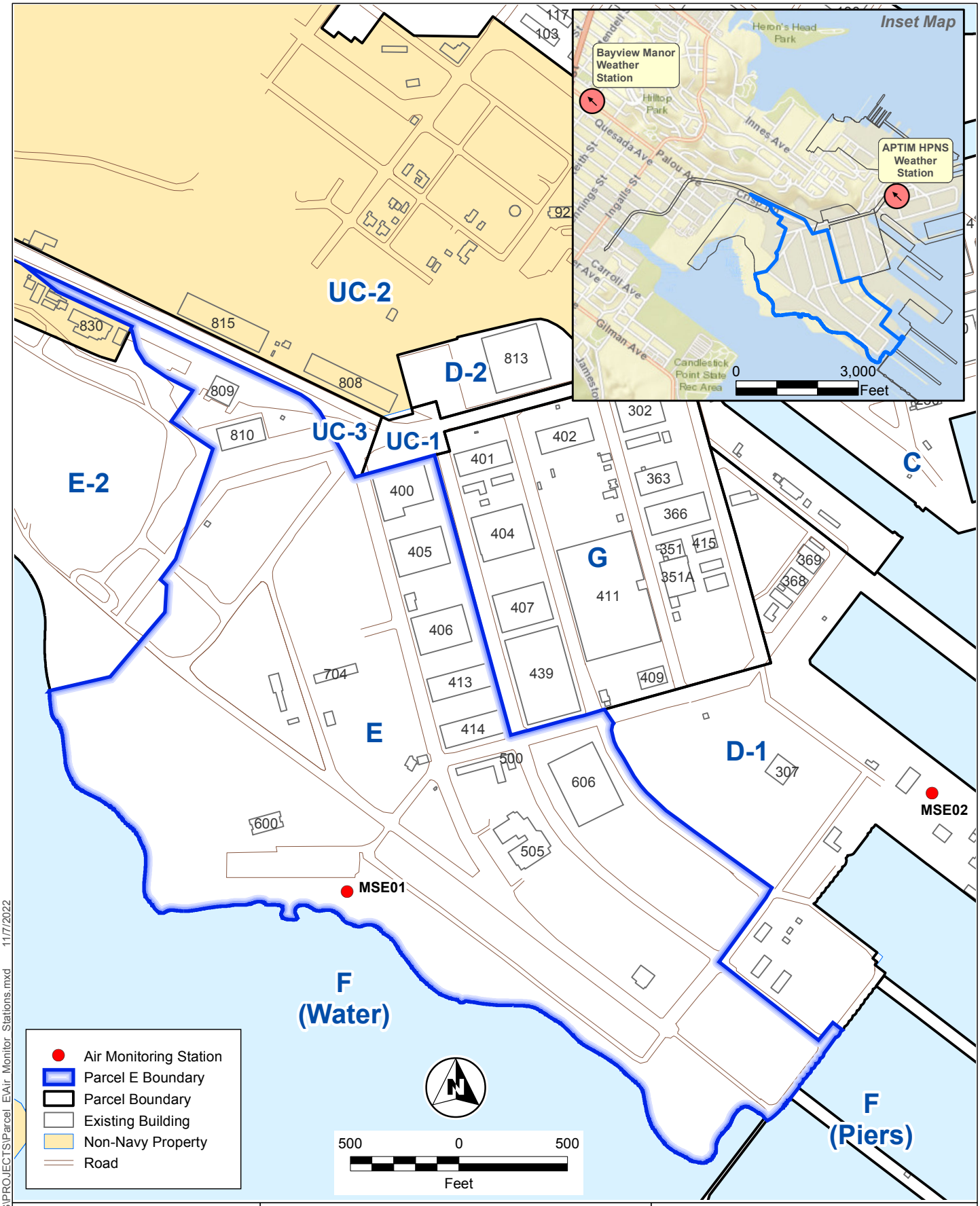

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Gilbane

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
5/31/2023[1]	29.91	53.26	WSW
6/01/2023[1]	29.99	58.66	WSW
6/05/2023[1]	29.89	59.98	WSW
6/06/2023[1]	29.95	60.42	SSW
6/07/2023[1]	30.07	60.31	WSW
6/08/2023[1]	30.11	62.03	W
6/12/2023[1]	30.09	59.75	SW
6/13/2023[1]	30.08	57.90	WSW
6/14/2023[1]	29.97	58.06	WSW
6/15/2023[1]	29.99	61.00	NNE
6/19/2023[1]	30.13	58.02	W
6/20/2023[1]	30.18	58.46	WSW
6/21/2023[1]	30.08	56.42	WSW
6/22/2023[1]	30.03	59.92	SSW
6/26/2023[1]	30.06	55.39	SW
6/27/2023[1]	30.00	54.39	SW
6/28/2023[1]	30.02	54.51	SW
6/29/2023[1]	30.04	57.37	NE

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)
MSE01-060123	06/01/23	1	548	1096	25.0	0.011	No
MSE02-060123	06/01/23	2	545	1090	24.5	0.011	No
MSE01-060523	06/05/23	1	566	1132	8.0	0.003	No
MSE02-060523	06/05/23	2	568	1136	21.0	0.009	No
MSE01-060623	06/06/23	1	564	1128	21.5	0.009	No
MSE02-060623	06/06/23	2	568	1136	16.0	0.007	No
MSE01-060723	06/07/23	1	567	1134	23.5	0.010	No
MSE02-060723	06/07/23	2	571	1142	24.0	0.010	No
MSE01-060823	06/08/23	1	478	956	21.5	0.011	No
MSE02-060823	06/08/23	2	502	1004	19.5	0.010	No
MSE01-061223	06/12/23	1	552	1104	20.5	0.009	No
MSE02-061223	06/12/23	2	555	1110	16.0	0.007	No
MSE01-061323	06/13/23	1	533	1066	20.0	0.009	No
MSE02-061323	06/13/23	2	535	1070	17.0	0.008	No
MSE01-061423	06/14/23	1	539	1078	17.5	0.008	No
MSE02-061423	06/14/23	2	543	1086	24.5	0.011	No
MSE01-061523	06/15/23	1	466	932	15.5	0.008	No
MSE02-061523	06/15/23	2	465	930	13.5	0.007	No
MSE01-061923	06/19/23	1	534	1068	18.5	0.008	No
MSE02-061923	06/19/23	2	534	1068	22.5	0.010	No
MSE01-062023	06/20/23	1	551	1102	29.0	0.013	No
MSE02-062023	06/20/23	2	565	1130	20.5	0.009	No
MSE01-062123	06/21/23	1	559	1118	18.5	0.008	No
MSE02-062123	06/21/23	2	562	1124	20.0	0.009	No
MSE01-062223	06/22/23	1	490	980	18.5	0.009	No
MSE02-062223	06/22/23	2	500	1000	18.0	0.009	No
MSE01-062623	06/26/23	1	548	1096	34.0	0.015	No
MSE02-062623	06/26/23	2	547	1094	35.0	0.016	No
MSE01-062723	06/27/23	1	556	1112	29.0	0.013	No
MSE02-062723	06/27/23	2	565	1130	21.0	0.009	No
MSE01-062823	06/28/23	1	565	1130	16.5	0.007	No
MSE02-062823	06/28/23	2	563	1126	21.5	0.009	No
MSE01-062923	06/29/23	1	375	750	15.5	0.010	No
MSE02-062923	06/29/23	2	377	754	20.5	0.013	No

Notes:

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

[3]Samples for informational purposes only, please see laboratory report for details.

Samples analyzed by A&B Labs

Sample locations are shown on Figure 2-1

l/min = liters per minute

L = liter

min = minutes

fibers/cm^3 = fibers per cubic centimeter

ATTACHMENT 3

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

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

Sample, Date and Station Information			Sampler Run Information	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)
PM031223-24	1	06/01/23	1750.01	0.0370855						
PM031223-26	2	06/01/23	1770.38	0.02231159	-0.0148	-14.8	5,000	No	50	No
PM031223-28	1	06/01/23[1]	654.05	0.04816146						
PM031223-30	2	06/01/23[1]	658.14	0.02218373	-0.0260	-52.0	5,000	No	50	No
PM031223-44	1	06/06/23	1759.51	0.01545885						
PM031223-46	2	06/06/23	1779.03	0.01006166	-0.0054	-5.4	5,000	No	50	No
PM031223-48	1	06/07/23	1761.79	0.00664097						
PM032123-02	2	06/07/23	1785.14	0.0056018	-0.0010	-1.0	5,000	No	50	No
PM032123-04	1	06/08/23	1764.13	0.01428466						
PM032123-06	2	06/08/23	1795.71	0.00601433	-0.0083	-8.3	5,000	No	50	No
PM032123-08	1	06/08/23[1]	580.86	0.02771752						
PM032123-10	2	06/08/23[1]	614.05	0.01025975	-0.0175	-17.5	5,000	No	50	No
PM032123-30	1	06/13/23	1755.48	0.00996878						
PM032123-32	2	06/13/23	1787.09	0.00503612	-0.0049	-4.9	5,000	No	50	No
PM032123-34	1	06/14/23	1749.47	0.0219495						
PM032123-36	2	06/14/23	1770.87	0.00338817	-0.0186	-18.6	5,000	No	50	No
PM032123-38	1	06/15/23	989.29[2]	0.02375441						
PM032123-40	2	06/15/23	1767.33	0.0093927	-0.0144	-14.4	5,000	No	50	No
PM032223-02[4]	1	06/15/23[1]	560.88	0.0203252						
PM032223-04[4]	2	06/15/23[1]	571.13	0.0124315	0.0079	7.9	5,000	No	50	No
PM032423-20	1	06/20/23	1704.11	0.04201607						
PM032423-22	2	06/20/23	1719.18	0.0325155	-0.0095	-9.5	5,000	No	50	No
PM032223-24	1	06/21/23	1766.38	0.02745729						
PM032223-26	2	06/21/23	1734.33	0.01758604	-0.0099	-9.9	5,000	No	50	No
PM032223-28	1	06/22/23	1766.81	0.01833813						
PM032223-30	2	06/22/23	1771.06	0.0130995	-0.0052	-5.2	5,000	No	50	No
PM032423-02	1	06/22/23[1]	592.89	0.02023984						
PM032423-04	2	06/22/23[1]	580.62	0.01808412	-0.0022	-2.2	5,000	No	50	No
PM031623-02	1	06/27/23	1780.58	0.01010907						
PM031623-04	2	06/27/23	1739.62	0.00718548	-0.0029	-2.9	5,000	No	50	No
PM031623-06	1	06/28/23	1763.36	0.01219263						
PM031623-08	2	06/28/23	1728.97	0.0050319	-0.0072	-7.2	5,000	No	50	No
PM031623-10	1	06/29/23	1787.95	0.01107414						
PM031623-12	2	06/29/23	1752.54	0.00382302	-0.0073	-7.3	5,000	No	50	No
PM031623-14[4]	1	06/29/23[1]	417.08	0.0196605						
PM031623-16[4]	2	06/29/23[1]	406.48	0.01131667	0.0083	8.3	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

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)
TSP031223-25	1	06/01/23	1655.31	0.0852			
TSP031223-27	2	06/01/23	1777.11	0.0353	-0.0499	0.5	No
TSP031223-29	1	06/01/23[1]	620.28	0.103			
TSP031223-31	2	06/01/23[1]	658.79	0.034	-0.069	0.5	No
TSP031223-45	1	06/06/23	1661.73	0.0358			
TSP031223-47	2	06/06/23	1748.71	0.0221	-0.014	0.5	No
TSP031223-49	1	06/07/23	1666.36	0.0139			
TSP032123-03	2	06/07/23	1779.41	0.0111	-0.0028	0.5	No
TSP032123-05	1	06/08/23	1669.47	0.0312			
TSP032123-07	2	06/08/23	1789.66	0.009	-0.022	0.5	No
TSP032123-09	1	06/08/23[1]	549.36	0.0812			
TSP032123-11	2	06/08/23[1]	578.65	0.0202	-0.061	0.5	No
TSP032123-31	1	06/13/23	1657.01	0.0278			
TSP032123-33	2	06/13/23	1777.00	0.0123	-0.016	0.5	No
TSP032123-35	1	06/14/23	1653.17	0.0596			
TSP032123-37	2	06/14/23	1765.83	0.0101	-0.0495	0.5	No
TSP032123-39	1	06/15/23	936.88[2]	0.0598			
TSP032223-01	2	06/15/23	1766.38	0.0201	-0.0397	0.5	No
TSP032223-03[3]	1	06/15/23[1]	532.38	0.0456			
TSP032223-05[3]	2	06/15/23[1]	567.98	0.0245	0.0211	0.5	No
TSP032423-21	1	06/20/23	1609.81	0.0795			
TSP032423-23	2	06/20/23	1717.07	0.0497	-0.0298	0.5	No
TSP032223-25	1	06/21/23	1670.95	0.0564			
TSP032223-27	2	06/21/23	1733.56	0.0352	-0.0212	0.5	No
TSP032223-29	1	06/22/23	1671.59	0.0421			
TSP032423-01	2	06/22/23	1754.75	0.0264	-0.016	0.5	No
TSP032423-03	1	06/22/23[1]	592.96	0.0423			
TSP032423-05	2	06/22/23[1]	578.56	0.0289	-0.0134	0.5	No
TSP031623-03	1	06/27/23	1683.71	0.0224			
TSP031623-05	2	06/27/23	1738.19	0.0155	-0.007	0.5	No
TSP031623-07	1	06/28/23	1667.68	0.0303			
TSP031623-09	2	06/28/23	1742.26	0.00981	-0.0205	0.5	No
TSP031623-11	1	06/29/23	1691.13	0.0303			
TSP031623-13	2	06/29/23	1754.19	0.00975	-0.021	0.5	No
TSP031623-15[3]	1	06/29/23[1]	397.94	0.051			
TSP031623-17[3]	2	06/29/23[1]	404.00	0.0215	0.0295	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)
TSP031223-25	1	06/01/23	1655.31	0.00043376	No	0.00003123	No	< 0.0000592	No
TSP031223-27	2	06/01/23	1777.11	< 0.00005515	No	< 0.00000788	No	< 0.00005515	No
TSP031223-29	1	06/01/23[1]	620.28	0.00053202	No	0.00002579	No	< 0.00015799	No
TSP031223-31	2	06/01/23[1]	658.79	< 0.00014876	No	< 0.00002125	No	< 0.00014876	No
TSP031223-45	1	06/06/23	1661.73	0.00049828	No	< 0.00000842	No	< 0.00005897	No
TSP031223-47	2	06/06/23	1748.71	0.00016298	No	< 0.00000801	No	< 0.00005604	No
TSP031223-49	1	06/07/23	1666.36	0.00040928	No	< 0.0000084	No	< 0.00005881	No
TSP032123-03	2	06/07/23	1779.41	0.00017534	No	0.00001068	No	< 0.00005507	No
TSP032123-05	1	06/08/23	1669.47	0.00039833	No	< 0.00000839	No	< 0.0000587	No
TSP032123-07	2	06/08/23	1789.66	0.00011678	No	< 0.00000782	No	< 0.00005476	No
TSP032123-09	1	06/08/23[1]	549.36	0.0004933	No	0.00002785	No	< 0.00017839	No
TSP032123-11	2	06/08/23[1]	578.65	< 0.00016936	No	< 0.00002419	No	< 0.00016936	No
TSP032123-31	1	06/13/23	1657.01	0.00098732	No	0.00001094	No	< 0.00005914	No
TSP032123-33	2	06/13/23	1777.00	0.00008925	No	< 0.00000788	No	< 0.00005515	No
TSP032123-35	1	06/14/23	1653.17	0.00058905	No	0.00002001	No	0.00006382	No
TSP032123-37	2	06/14/23	1765.83	< 0.0000555	No	< 0.00000793	No	< 0.0000555	No
TSP032123-39	1	06/15/23	936.88[2]	0.00045652	No	0.00001737	No	< 0.0001046	No
TSP032223-01	2	06/15/23	1766.38	0.00006465	No	< 0.00000793	No	< 0.00005548	No
TSP032223-03	1	06/15/23[1]	532.38	0.00107386	No	< 0.0000263	No	< 0.00018408	No
TSP032223-05	2	06/15/23[1]	567.98	0.00020247	No	< 0.00002465	No	< 0.00017254	No
TSP032423-21	1	06/20/23	1609.81	0.00049323	No	0.00001746	No	< 0.00006088	No
TSP032423-23	2	06/20/23	1717.07	0.00014443	No	0.00001083	No	< 0.00005707	No
TSP032223-25	1	06/21/23	1670.95	0.00066429	No	0.00001263	No	< 0.00005865	No
TSP032223-27	2	06/21/23	1733.56	0.00015402	No	< 0.00000808	No	< 0.00005653	No
TSP032223-29	1	06/22/23	1671.59	0.00057131	No	0.00000909	No	< 0.00005863	No
TSP032423-01	2	06/22/23	1754.75	0.0000644	No	< 0.00000798	No	< 0.00005585	No
TSP032423-03	1	06/22/23[1]	592.96	0.00087696	No	< 0.00002361	No	< 0.00016527	No
TSP032423-05	2	06/22/23[1]	578.56	< 0.00016939	No	< 0.0000242	No	< 0.00016939	No
TSP031623-03	1	06/27/23	1683.71	0.00076023	No	0.000012	No	< 0.0000582	No
TSP031623-05	2	06/27/23	1738.19	0.00006501	No	< 0.00000805	No	< 0.00005638	No
TSP031623-07	1	06/28/23	1667.68	0.00045512	No	0.00001175	No	< 0.00005876	No
TSP031623-09	2	06/28/23	1742.26	0.00005797	No	< 0.00000804	No	< 0.00005625	No
TSP031623-11	1	06/29/23	1691.13	0.00059723	No	0.00001472	No	< 0.00005795	No
TSP031623-13	2	06/29/23	1754.19	0.00010603	No	< 0.00000798	No	< 0.00005587	No
TSP031623-15	1	06/29/23[1]	397.94	0.00130673	No	< 0.00003518	No	< 0.00024627	No
TSP031623-17	2	06/29/23[1]	404.00	0.00031436	No	< 0.00003465	No	< 0.00024257	No

ATTACHMENT 6

AIR SAMPLING RESULTS – PUBLIC EXPOSURE MONITORING

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GES

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 Jun 2023	Value > 0.1 x Effluent Conc (i.e., > 10%)
Information effective as of: 05 Jul 2023			Effluent Conc (µCi/ml)	9.E-13	6.E-12	and 29 Jun 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-0875	Perimeter	MSE-01	PE15	50	6/1/23 6:37	6/1/23 15:18	521	2.6E+07	B	06/05/23	1	cpm	0.10	3.80	0.0	4.6	0.0E+00	8.0E-14	0.0%	1.3%	DFB	BCS
AS-0876	Perimeter	MSE-02	PE16	50	6/1/23 6:45	6/1/23 15:15	510	2.5E+07	B	06/05/23	1	cpm	0.20	3.65	0.3	4.2	5.9E-15	7.4E-14	0.7%	1.2%	DFB	BCS
AS-0877	Perimeter	MSE-01	PE18	50	6/5/23 6:44	6/5/23 15:52	548	2.7E+07	B	06/12/23	1	cpm	0.10	3.40	0.0	3.5	0.0E+00	5.7E-14	0.0%	1.0%	DFB	BCS
AS-0878	Perimeter	MSE-02	PE17	50	6/5/23 6:42	6/5/23 15:57	555	2.8E+07	B	06/12/23	1	cpm	0.20	3.30	0.3	3.2	5.5E-15	5.2E-14	0.6%	0.9%	DFB	BCS
AS-0879	Perimeter	MSE-01	PE18	50	6/6/23 6:50	6/6/23 16:01	551	2.8E+07	B	06/12/23	1	cpm	0.35	3.25	0.8	3.0	1.4E-14	5.0E-14	1.5%	0.8%	DFB	BCS
AS-0880	Perimeter	MSE-02	PE17	50	6/6/23 6:52	6/6/23 15:52	540	2.7E+07	B	06/12/23	1	cpm	0.50	3.00	1.3	2.3	2.2E-14	3.9E-14	2.5%	0.6%	DFB	BCS
AS-0881	Perimeter	MSE-01	PE18	50	6/7/23 6:38	6/7/23 16:02	564	2.8E+07	B	06/12/23	1	cpm	0.20	3.95	0.3	5.1	5.4E-15	8.1E-14	0.6%	1.4%	DFB	BCS
AS-0882	Perimeter	MSE-02	PE17	50	6/7/23 6:42	6/7/23 16:00	558	2.8E+07	B	06/12/23	1	cpm	0.15	3.35	0.2	3.3	2.7E-15	5.4E-14	0.3%	0.9%	DFB	BCS
AS-0883	Perimeter	MSE-01	PE18	50	6/8/23 6:50	6/8/23 14:57	487	2.4E+07	B	06/12/23	1	cpm	0.05	3.75	-0.2	4.5	N/A	8.3E-14	N/A	1.4%	DFB	BCS
AS-0884	Perimeter	MSE-02	PE17	50	6/8/23 6:58	6/8/23 14:48	470	2.4E+07	B	06/12/23	1	cpm	0.10	4.35	0.0	6.2	0.0E+00	1.2E-13	0.0%	2.0%	DFB	BCS
AS-0885	Perimeter	MSE-01	PE18	50	6/12/23 6:32	6/12/23 15:38	546	2.7E+07	B	06/19/23	1	cpm	0.10	4.15	0.0	5.7	0.0E+00	9.3E-14	0.0%	1.6%	DFB	BCS
AS-0886	Perimeter	MSE-02	PE17	50	6/12/23 6:32	6/12/23 15:38	546	2.7E+07	B	06/19/23	1	cpm	0.15	3.95	0.2	5.1	2.8E-15	8.4E-14	0.3%	1.4%	DFB	BCS
AS-0887	Perimeter	MSE-01	PE18	50	6/13/23 6:51	6/13/23 15:12	501	2.5E+07	B	06/19/23	1	cpm	0.10	3.90	0.0	4.9	0.0E+00	8.9E-14	0.0%	1.5%	DFB	BCS
AS-0888	Perimeter	MSE-02	PE17	50	6/13/23 7:00	6/13/23 15:19	499	2.5E+07	B	06/19/23	1	cpm	0.20	3.80	0.3	4.6	6.1E-15	8.4E-14	0.7%	1.4%	DFB	BCS
AS-0889	Perimeter	MSE-01	PE18	50	6/14/23 6:44	6/14/23 15:19	515	2.6E+07	B	06/19/23	1	cpm	0.20	4.40	0.3	6.4	5.9E-15	1.1E-13	0.7%	1.9%	DFB	BCS
AS-0890	Perimeter	MSE-02	PE17	50	6/14/23 6:50	6/14/23 15:14	504	2.5E+07	B	06/19/23	1	cpm	0.10	2.70	0.0	1.4	0.0E+00	2.6E-14	0.0%	0.4%	DFB	BCS
AS-0891	Perimeter	MSE-01	PE18	50	6/15/23 6:37	6/15/23 14:08	451	2.3E+07	B	06/19/23	1	cpm	0.20	3.60	0.3	4.1	6.7E-15	8.1E-14	0.7%	1.4%	DFB	BCS
AS-0892	Perimeter	MSE-02	PE17	50	6/15/23 6:42	6/15/23 14:15	453	2.3E+07	B	06/19/23	1	cpm	0.20	3.15	0.3	2.8	6.7E-15	5.5E-14	0.7%	0.9%	DFB	BCS
AS-0893	Perimeter	MSE-01	PE18	50	6/19/23 8:00	6/19/23 15:13	433	2.2E+07	B	06/26/23	1	cpm	0.05	3.50	-0.2	3.8	N/A	7.8E-14	N/A	1.3%	JSV	BCS
AS-0894	Perimeter	MSE-02	PE17	50	6/19/23 7:54	6/19/23 15:10	436	2.2E+07	B	06/26/23	1	cpm	0.15	4.55	0.2	6.8	3.5E-15	1.4E-13	0.4%	2.3%	JSV	BCS
AS-0895	Perimeter	MSE-01	PE18	50	6/20/23 6:40	6/20/23 15:50	550	2.7E+07	B	06/26/23	1	cpm	0.05	3.95	-0.2	5.1	N/A	8.3E-14	N/A	1.4%	JSV	BCS
AS-0896	Perimeter	MSE-02	PE17	50	6/20/23 6:48	6/20/23 16:01	553	2.8E+07	B	06/26/23	1	cpm	0.15	3.60	0.2	4.1	2.7E-15	6.6E-14	0.3%	1.1%	JSV	BCS
AS-0897	Perimeter	MSE-01	PE18	50	6/21/23 6:34	6/21/23 15:48	554	2.8E+07	B	06/26/23	1	cpm	0.15	3.65	0.2	4.2	2.7E-15	6.8E-14	0.3%	1.1%	JSV	BCS
AS-0898	Perimeter	MSE-02	PE17	50	6/21/23 6:41	6/21/23 15:51	550	2.8E+07	B	06/26/23	1	cpm	0.20	4.45	0.3	6.5	5.5E-15	1.1E-13	0.6%	1.8%	JSV	BCS
AS-0899	Perimeter	MSE-01	PE18	50	6/22/23 6:35	6/22/23 16:26	591	3.0E+07	B	06/26/23	1	cpm	0.10	3.75	0.0	4.5	0.0E+00	6.8E-14	0.0%	1.1%	JSV	BCS
AS-0900	Perimeter	MSE-02	PE17	50	6/22/23 6:40	6/22/23 16:37	597	3.0E+07	B	06/26/23	1	cpm	0.10	4.20	0.0	5.8	0.0E+00	8.7E-14	0.0%	1.5%	JSV	BCS
AS-0901	Perimeter	MSE-01	PE18	50	6/26/23 6:37	6/26/23 15:29	532	2.7E+07	B	07/05/23	1	cpm	0.10	4.25	0.0	5.9	0.0E+00	1.0E-13	0.0%	1.7%	DFB	BCS
AS-0902	Perimeter	MSE-02	PE17	50	6/26/23 6:43	6/26/23 15:23	520	2.6E+07	B	07/05/23	1	cpm	0.05	3.20	-0.2	2.9	N/A	5.0E-14	N/A	0.8%	DFB	BCS
AS-0903	Perimeter	MSE-01	PE18	50	6/27/23 6:55	6/27/23 15:54	539	2.7E+07	B	07/05/23	1	cpm	0.15	2.55	0.2	1.0	2.8E-15	1.7E-14	0.3%	0.3%	DFB	BCS
AS-0904	Perimeter	MSE-02	PE17	50	6/27/23 7:00	6/27/23 15:53	533	2.7E+07	B	07/05/23	1	cpm	0.65	2.30	1.9	0.3	3.1E-14	4.9E-15	3.5%	0.1%	DFB	BCS
AS-0905	Perimeter	MSE-01	PE18	50	6/28/23 6:36	6/28/23 15:47	551	2.8E+07	B	07/05/23	1	cpm	0.05	4.00	-0.2	5.2	N/A	8.5E-14	N/A	1.4%	DFB	BCS
AS-0906	Perimeter	MSE-02	PE17	50	6/28/23 6:41	6/28/23 15:50	549	2.7E+07	B	07/05/23	1	cpm	0.50	2.90	1.3	2.0	2.2E-14	3.3E-14	2.5%	0.6%	DFB	BCS
AS-0907	Perimeter	MSE-01	PE18	50	6/29/23 6:40	6/29/23 12:27	347	1.7E+07	B	07/05/23	1	cpm	0.25	3.45	0.5	3.6	1.3E-14	9.4E-14	1.5%	1.6%	DFB	BCS
AS-0908	Perimeter	MSE-02	PE17	50	6/29/23 6:47	6/29/23 12:27	340	1.7E+07	B	07/05/23	1	cpm	0.15	3.75	0.2	4.5	4.5E-15	1.2E-13	0.5%	2.0%	DFB	BCS

ATTACHMENT 7
LABORATORY REPORTS

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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

77029
IAH
TX-US

AB HBYA

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Laboratory Analysis Report

Job ID : 23061338

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 :	06/14/2023 08:54
	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
MSE01-060523	6/5/2023 15:58	Cassette	23061338.01
MSE02-060523	6/5/2023 15:53	Cassette	23061338.02
MSE01-060623	6/6/2023 15:58	Cassette	23061338.03
MSE02-060623	6/6/2023 15:53	Cassette	23061338.04
MSE01-060723	6/7/2023 16:01	Cassette	23061338.05
MSE02-060723	6/7/2023 15:57	Cassette	23061338.06
MSE01-060823	6/8/2023 14:46	Cassette	23061338.07
MSE02-060823	6/8/2023 15:00	Cassette	23061338.08

[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 6/20/2023

Job ID : 23061338
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
23061338.01	MSE01-060523	06/05/2023	Area	2			566	1132	100	8.0	10.191	0.003		06/19/23	[redacted]
23061338.02	MSE02-060523	06/05/2023	Area	2			568	1136	100	21.0	26.752	0.009		06/19/23	
23061338.03	MSE01-060623	06/06/2023	Area	2			564	1128	100	21.5	27.389	0.009		06/19/23	
23061338.04	MSE02-060623	06/06/2023	Area	2			568	1136	100	16.0	20.382	0.007		06/19/23	
23061338.05	MSE01-060723	06/07/2023	Area	2			567	1134	100	23.5	29.936	0.010		06/19/23	
23061338.06	MSE02-060723	06/07/2023	Area	2			571	1142	100	24.0	30.573	0.010		06/19/23	
23061338.07	MSE01-060823	06/08/2023	Area	2			478	956	100	21.5	27.389	0.011		06/19/23	
23061338.08	MSE02-060823	06/08/2023	Area	2			502	1004	100	19.5	24.841	0.010		06/19/23	

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 : **23061338**	Date Received : **06/14/2023**	Time Received : **8:54AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **24.6°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] 6/14/2023

Received by : [redacted]

Check in by/date : [redacted] / 06/14/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

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

COC ID # [redacted]061323ASBE

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:23061338
06/14/2023 GES - ASRC Industrial ACH

Equipment:

Analytical Test Method

Asbestos

[redacted] 6/13/23

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
01A	1 MSE01-060523	A	06/05/2023	1558	[redacted]	x	MSE01	N1	0.00	0.00	1	
02A	2 MSE02-060523	A	06/05/2023	1553		x	MSE02	N1	0.00	0.00	1	
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											

[redacted] 6/13/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/13/23	1300	Fedex	6/13/23	1300	Shipping Date:06/13/23 / FEDEX 7723 0778 2710
FED EX	6/14/23	8:54	[redacted]	6/14/23	8:54	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

24.6 °C
IR
[redacted]

CHAIN-OF-CUSTODY RECORD

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

COC ID # [redacted]061323ASBE

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	MSE01-060623	A	06/06/2023	1558	MC	x	MSE01	N1	0.00	0.00	1	
2	MSE02-060623	A	06/06/2023	1553	MC	x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

[redacted] 6/13/23

[redacted] 6/13/23

03A
04A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/13/23	1300	Fedex	6/13/23	1300	Shipping Date:06/13/23 / FEDEX 7723 0778 2710
FEDEX	6/14/23	8:54	[redacted]	6/14/23	8:54	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

24.6 °C
IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

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

COC ID # [redacted]061323ASBE

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	

[redacted] 6/13/23

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	MSE01-060723	A	~~06/07/2023~~ 6/7/23	1601	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-060723	A	~~06/07/2023~~ 6/7/23	1557		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

05A
06A

[redacted] 6/13/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/13/23	1300	Fedex	6/13/23	1300	Shipping Date:06/13/23 / FEDEX 7723 0778 2710
FED EX	6/14/23		[redacted]	6/14/23		**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

24.6 °C
IR5
[redacted]

CHAIN-OF-CUSTODY RECORD

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

COC ID # [redacted]061323ASBE

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	MSE01-060823	A	06/08/2023	1446	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-060823	A	06/08/2023	1500		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

07A
08A

[redacted] 6/13/23

[redacted] 6/13/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/13/23	1300	Fedex	6/13/23	1300	Shipping Date:06/13/23 / FEDEX 7723 0778 2710
FEDEX	6/14/23	8:54	[redacted]	6/14/23	8:54	**Received by Laboratory:** *(Signature, Date, Time)* **& condition**

24.6°C
IR [redacted]

COC ID # [redacted]061323ASBE

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)
MSE01-060523	5-Jun	15:58	2; 566
MSE02-060523	5-Jun	15:53	2; 568
MSE01-060623	6-Jun	15:58	2; 564
MSE02-060623	6-Jun	15:53	2; 568
MSE01-060723	7-Jun	16:01	2; 567
MSE02-060723	7-Jun	15:57	2; 571
MSE01-060823	8-Jun	14:46	2; 478
MSE02-060823	8-Jun	15:00	2; 502

ORIGIN ID:JCCA [redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 06JUN23
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

583J2/29AB/FE2D

FedEx Express

E

J232023040501uv

WED - 07 JUN 4:30P
STANDARD OVERNIGHT

TRK# 0201 7723 0778 2710

77029
AB HBYA TX-US IAH

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Laboratory Analysis Report

Job ID : 23062071

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 :	06/21/2023 08:59
	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
MSE01-061223	6/12/2023 15:46	Cassette	23062071.01
MSE02-061223	6/12/2023 15:41	Cassette	23062071.02
MSE01-061323	6/13/2023 15:22	Cassette	23062071.03
MSE02-061323	6/13/2023 15:16	Cassette	23062071.04
MSE01-061423	6/14/2023 15:36	Cassette	23062071.05
MSE02-061423	6/14/2023 15:31	Cassette	23062071.06
MSE01-061523	6/15/2023 14:41	Cassette	23062071.07
MSE02-061523	6/15/2023 14:07	Cassette	23062071.08

[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 6/29/2023

Job ID : 23062071
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
23062071.01	MSE01-061223	06/12/2023	Area	2			552	1104	100	20.5	26.115	0.009		06/28/23	[redacted]
23062071.02	MSE02-061223	06/12/2023	Area	2			555	1110	100	16	20.382	0.007		06/28/23	
23062071.03	MSE01-061323	06/13/2023	Area	2			533	1066	100	20	25.478	0.009		06/28/23	
23062071.04	MSE02-061323	06/13/2023	Area	2			535	1070	100	17.0	21.656	0.008		06/28/23	
23062071.05	MSE01-061423	06/14/2023	Area	2			539	1078	100	17.5	22.293	0.008		06/28/23	
23062071.06	MSE02-061423	06/14/2023	Area	2			543	1086	100	24.5	31.210	0.011		06/28/23	
23062071.07	MSE01-061523	06/15/2023	Area	2			466	932	100	15.5	19.745	0.008		06/28/23	
23062071.08	MSE02-061523	06/15/2023	Area	2			465	930	100	13.5	17.197	0.007		06/28/23	

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 : **23062071**	Date Received : **06/21/2023**	Time Received : **8:59AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **24.3°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. ~[redacted] 6/21/2023

Received by : [redacted]

Check in by/date : [redacted] / 06/21/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]062023ASBE

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:23062071

06/21/2023 GES - ASRC Industrial ACH

Code	Matrix
A	Air
AQ	Air Quality Control Matrix

Code	Container/Preservative
1	Filter/No Preservatives

Page 1 of 4

Equipment:

Analytical Test Method: Asbestos

Event: Parcel E Asbestos

	Sample ID	Matrix	Date	Time	Samp Init.	Asbestos	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-061223	A	06/12/2023	1546	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-061223	A	06/12/2023	1541		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												[redacted] 6/20/23

01A
02A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/20/23	1600	FedEx	6/21/23	1600	Shipping Date:06/20/23 / FEDEX 7723 0852 4720
FEDEX	6/21/23	8:59				[redacted] Date, Time) & condition 6/21/23 8:59
						24.3°C IRS [redacted]

CHAIN-OF-CUSTODY RECORD

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

COC ID # [redacted]062023ASBE

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

	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
	Event: Parcel E Asbestos					1						
1	MSE01-061323	A	06/13/2023	1522	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-061323	A	06/13/2023	1516		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												[redacted]

03A
04A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/20/23	1600	Fed Ex	6/20/23	1600	Shipping Date 06/20/23 / FEDEX 7723 0852 4720
FED EX	6/21/23	8:59				Received by Laboratory: *(Signature, Date, Time)* & condition: [redacted] 6/21/23 8:59
						24.3°C IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

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

COC ID # [redacted]062023ASBE

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						
1	MSE01-061423	A	06/14/2023	1536	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-061423	A	06/14/2023	1531		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

OSA
OeA

[redacted] 6/20/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/20/23	1600	FedEx	6/20/23	1600	Shipping Date:06/20/23 / FEDEX 7723 0852 4720
FEDEX	6/21/23	8:59				[redacted] *Time)* & condition 6/21/23 8:59
						24.3°C IR [redacted]

CHAIN-OF-CUSTODY RECORD

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

COC ID # [redacted]062023ASBE

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						
07A	1 MSE01-061523	A	06/15/2023	1414	[redacted]	x	MSE01	N1	0.00	0.00	1	
08A	2 MSE02-061523	A	06/15/2023	1407		x	MSE02	N1	0.00	0.00	1	
	3											
	4											
	5											
	6											
	7											
	8											
	9											
	10											
	11											

6/20/23 [redacted]

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/20/23	1600	FedEx	6/20/23	1600	Shipping Date:06/20/23 / FEDEX 7723 0852 4720
FEDEX	6/21/23	8:59				Received by Laboratory: *(Signature, Date, Time)* & condition [redacted] 6/21/23 8:59

COC ID # [redacted]062023ASBE

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)
MSE01-061223	12-Jun	15:46	2; 552
MSE02-061223	12-Jun	15:41	2; 555
MSE01-061323	13-Jun	15:22	2; 533
MSE02-061323	13-Jun	15:16	2; 535
MSE01-061423	14-Jun	15:36	2; 539
MSE02-061423	14-Jun	15:31	2; 543
MSE01-061523	15-Jun	14:14	2; 466
MSE02-061523	15-Jun	14:07	2; 465

ORIGIN ID: JCCA [redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 06JUN23
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/29AB/FE2D

FedEx Express

J2320230-0561uv

WED - 07 JUN 4:30P
STANDARD OVERNIGHT

TRK# 0201 **7723 0852 4720**

77029
IAH

AB HBYA

TX-US

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

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Laboratory Analysis Report

Job ID : 23062767

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 :	06/28/2023 09:43
	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
MSE01-061923	6/19/2023 15:29	Cassette	23062767.01
MSE02-061923	6/19/2023 15:21	Cassette	23062767.02
MSE01-062023	6/20/2023 15:49	Cassette	23062767.03
MSE02-062023	6/20/2023 15:53	Cassette	23062767.04
MSE01-062123	6/21/2023 15:51	Cassette	23062767.05
MSE02-062123	6/21/2023 15:47	Cassette	23062767.06
MSE01-062223	6/22/2023 14:45	Cassette	23062767.07
MSE02-062223	6/22/2023 14:40	Cassette	23062767.08

[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 7/10/2023

Job ID : 23062767
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
23062767.01	MSE01-061923	06/19/2023	Area	2			534	1068	100	18.5	23.567	0.008		07/10/23	[redacted]
23062767.02	MSE02-061923	06/19/2023	Area	2			534	1068	100	22.5	28.662	0.010		07/10/23	
23062767.03	MSE01-062023	06/20/2023	Area	2			551	1102	100	29.0	36.943	0.013		07/10/23	
23062767.04	MSE02-062023	06/20/2023	Area	2			565	1130	100	20.5	26.115	0.009		07/10/23	
23062767.05	MSE01-062123	06/21/2023	Area	2			559	1118	100	18.5	23.567	0.008		07/10/23	
23062767.06	MSE02-062123	06/21/2023	Area	2			562	1124	100	20.0	25.478	0.009		07/10/23	
23062767.07	MSE01-062223	06/22/2023	Area	2			490	980	100	18.5	23.567	0.009		07/10/23	
23062767.08	MSE02-062223	06/22/2023	Area	2			500	1000	100	18.0	22.930	0.009		07/10/23	

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 : **23062767**	Date Received : **06/28/2023**	Time Received : **9:43AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **25.7°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] 6/28/2023

Received by : [redacted]

Check in by/date : [redacted] / 06/28/2023

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]062723ASBE

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:23062767

06/28/2023 GES - ASRC Industrial ACH

Equipment:

Analytical Test Method: Asbestos

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	MSE01-061923	A	06/19/2023	1529	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-061923	A	06/19/2023	1521		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/27/23	1200	Fedex	6/27/23	1200	Shipping Date 06/27/23 / FEDEX 7723 0895 8350
FEDEX	6/28/23					Received by Laboratory (Signature, Date, Time) & condition: [redacted] 6/28/23
						25.7°C IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

COC ID # [redacted]062723ASBE

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

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

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	MSE01-062023	A	06/20/2023	1549	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-062023	A	06/20/2023	1553		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]	6/27/23	1200	FedEx	6/27/23	1200	Shipping Date 06/27/23 / FEDEX 7723 0895 8350
FEDEX	6/28/23					Received by: Laboratory (Signature, Date, Time) & condition [redacted] 6/28/23
						25.7°C IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]062723ASBE

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

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	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
05A	1 MSE01-062123	A	06/21/2023	1551	[redacted]	x	MSE01	N1	0.00	0.00	1	
06A	2 MSE02-062123	A	06/21/2023	1547		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]	6/27/23	1200	Fedex	6/27/23	1200	Shipping Date:06/27/23 / FEDEX 7723 0895 8350
FEDEX	6/28/23					[redacted] & condition 6/28/23
						25.7°C IRS [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]062723ASBE

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	MSE01-062223	A	06/22/2023	1445	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-062223	A	06/22/2023	1440		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

07A
08A

[redacted] 6/27/23

[redacted] 6/27/23

Turnaround Time: 7 days

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	6/27/23	1200	FedEx	6/27/23	1200	Shipping Date:06/27/23 / FEDEX 7723 0895 8350
FED EX	6/28/23					[redacted] 6/28/23
						25.7°C IRS [redacted]

COC ID # [redacted]062723ASBE

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)
MSE01-061923	19-Jun	15:29	2; 534
MSE02-061923	19-Jun	15:21	2; 534
MSE01-062023	20-Jun	15:49	2; 551
MSE02-062023	20-Jun	15:53	2; 565
MSE01-062123	21-Jun	15:51	2; 559
MSE02-062123	21-Jun	15:47	2; 562
MSE01-062223	22-Jun	14:45	2; 490
MSE02-062223	22-Jun	14:40	2; 500

ORIGIN ID: JCCA [redacted]
[redacted]

200 FISHER STREET

SAN FRANCISCO, CA 94124
UNITED STATES US

SHIP DATE: 06JUN23
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 - 07 JUN 4:30P
STANDARD OVERNIGHT

TRK# 0201 7723 0895 8350

77029
IAH

AB HBYA

TX-US

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Laboratory Analysis Report

Job ID : 23070286

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 :	07/06/2023 09:07
	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
MSE01-062623	6/26/2023 15:39	Cassette	23070286.01
MSE02-062623	6/26/2023 15:31	Cassette	23070286.02
MSE01-062723	6/27/2023 15:52	Cassette	23070286.03
MSE02-062723	6/27/2023 15:47	Cassette	23070286.04
MSE01-062823	6/28/2023 15:49	Cassette	23070286.05
MSE02-062823	6/28/2023 15:42	Cassette	23070286.06
MSE01-062923	6/29/2023 12:55	Cassette	23070286.07
MSE02-062923	6/29/2023 12:50	Cassette	23070286.08

[redacted]

Released By: [redacted]

Title: Vice President Operations

Analyst: [redacted]

ab-q210-0321

7/17/2023

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 7/17/2023

Job ID : 23070286
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
23070286.01	MSE01-062623	06/26/2023	Area	2			548	1096	100	34	43.312	0.015		07/17/23	[redacted]
23070286.02	MSE02-062623	06/26/2023	Area	2			547	1094	100	35	44.586	0.016		07/17/23	
23070286.03	MSE01-062723	06/27/2023	Area	2			556	1112	100	29.0	36.943	0.013		07/17/23	
23070286.04	MSE02-062723	06/27/2023	Area	2			565	1130	100	21.0	26.752	0.009		07/17/23	
23070286.05	MSE01-062823	06/28/2023	Area	2			565	1130	100	16.5	21.019	0.007		07/17/23	
23070286.06	MSE02-062823	06/28/2023	Area	2			563	1126	100	21.5	27.389	0.009		07/17/23	
23070286.07	MSE01-062923	06/29/2023	Area	2			375	750	100	15.5	19.745	0.010		07/17/23	
23070286.08	MSE02-062923	06/29/2023	Area	2			377	754	100	20.5	26.115	0.013		07/17/23	

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 : **23070286**	Date Received : **07/06/2023**	Time Received : **9:07AM**
Client Name : **GES - ASRC Industrial**		
Temperature : **23.1°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] 6/28/2023

Received by : [redacted]

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

ab-s005-0321

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]070523ASBE

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:23070286

07/06/2023 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	MSE01-062623	A	06/26/2023	1539	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-062623	A	06/26/2023	1531		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

01A
02A

7/5/23

7/5/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	7/5/23	1300	Fedex	7/5/23	1300	Shipping Date 07/05/23 / FEDEX 7724 3182 7073
FED EX	7/6/23	9:07				Received by Laboratory: *(Signature, Date, Time)* & condition [redacted] 7/6/23 9:07
						23.1°C IRS [redacted]

CHAIN-OF-CUSTODY RECORD

COC ID # [redacted]070523ASBE

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

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

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	MSE01-062723	A	06/27/2023	1552	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-062723	A	06/27/2023	1547		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

03A
04A

[redacted] 7/5/23

[redacted] 7/5/23

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	7/5/23	1300	FedEx	7/5/23	1300	Shipping Date 07/05/23 / FEDEX 7724 3182 7073
FED EX	7/6/23	9:07				[redacted] (time) & condition 7/6/23 9:07
						23.1°C IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282

COC ID # [redacted]070523ASBE

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

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	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-062823	A	06/28/2023	1549	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-062823	A	06/28/2023	1542		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

OSA
CleA

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	7/5/23	1300	FedEx	7/5/23	1300	Shipping Date:07/05/23 / FEDEX 7724 3182 7073
FED EX	7/6/23	9:07				Received by Laboratory: *(Signature, Date, Time)* & condition: [redacted] 7/6/23 9:07
						23.1°C IR5 [redacted]

CHAIN-OF-CUSTODY RECORD

Gilbane Federal [redacted]
1501 W Fountainhead Parkway, Tempe AZ 85282
[redacted]

COC ID # [redacted]070523ASBE

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

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	Location ID	Sample Type	Depth (ft bgs) Top	Depth (ft bgs) Bottom	Cooler	Comments
1	MSE01-062923	A	06/29/2023	1255	[redacted]	x	MSE01	N1	0.00	0.00	1	
2	MSE02-062923	A	06/29/2023	1250		x	MSE02	N1	0.00	0.00	1	
3												
4												
5												
6												
7												
8												
9												
10												
11												

07A
08A

Turnaround Time: 7 days

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time	Shipping Date / Carrier / Airbill Number
[redacted]	7/5/23	1300	FedEx	7/5/23	1300	Shipping Date:07/05/23 / FEDEX 7724 3182 7073
FEDEX	7/6/23	9:07				Received by Laboratory (Signature, Date, Time) & condition [redacted] 7/6/23 9:07
						23.1°C IRS [redacted]

COC ID # [redacted]070523ASBE

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)
MSE01-062623	26-Jun	15:39	2; 548
MSE02-062623	26-Jun	15:31	2; 547
MSE01-062723	27-Jun	15:52	2; 556
MSE02-062723	27-Jun	15:47	2; 565
MSE01-062823	28-Jun	15:49	2; 565
MSE02-062823	28-Jun	15:42	2; 563
MSE01-062923	29-Jun	12:55	2; 375
MSE02-062923	29-Jun	12:50	2; 377

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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

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
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

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

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 #: 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

Eurofins Analytics, LLC
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AIHA LAP, LLC Accreditation ID 100531

June 20, 2023

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

Laboratory Workorder ID: B165089

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: June 14, 2023
Reported: June 20, 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: 06/14/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B165089001 Sample ID: PM031223-44 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/6/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	1759510 L	1000 ug			27200 ug	15 ug/M3

Lab ID: B165089002 Sample ID: TSP031223-45 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/6/2023 6:37:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	1661730 L	1000 ug			59500 ug	36 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	1661730 L	98 ug			828 ug	0.499 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	1661730 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/20/23	1661730 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B165089003 Sample ID: PM031223-46 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/6/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	1779030 L	1000 ug			17900 ug	10 ug/M3

Eurofins Analytics, LLC
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Ashland, Va 23005
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AIHA LAP, LLC Accreditation ID 100531

Final Report

Lab ID: B165089004 Sample ID: TSP031223-47 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/6/2023 6:30:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	1748710 L	1000 ug			38700 ug	22 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	1748710 L	98 ug			285 ug	0.163 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	1748710 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/20/23	1748710 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B165089005 Sample ID: PM031223-48 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/7/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	1761790 L	1000 ug			11700 ug	7 ug/M3

Lab ID: B165089006 Sample ID: TSP031223-49 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/7/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	1666360 L	1000 ug			23200 ug	14 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	1666360 L	98 ug			682 ug	0.409 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	1666360 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/20/23	1666360 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B165089007 Sample ID: PM032123-02 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/7/2023 6:29:00 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: B165089007 Sample ID: PM032123-02 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/7/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	1785140 L	1000 ug			10000 ug	6 ug/M3

Lab ID: B165089008 Sample ID: TSP032123-03 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/7/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	1779410 L	1000 ug			19700 ug	11 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	1779410 L	98 ug			312 ug	0.176 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	1779410 L	14 ug			19 ug	0.011 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/20/23	1779410 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B165089009 Sample ID: PM032123-04 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 6:44:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	1764130 L	1000 ug			25200 ug	14 ug/M3

Lab ID: B165089010 Sample ID: TSP032123-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 6:44:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	1669470 L	1000 ug			52100 ug	31 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	1669470 L	98 ug			665 ug	0.398 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	1669470 L	14 ug			< 14 ug	< 0.008 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: B165089010 Sample ID: TSP032123-05 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 6:44:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	06/20/23	1669470 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B165089011 Sample ID: PM032123-06 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 6:36:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	1795710 L	1000 ug			10800 ug	6 ug/M3

Lab ID: B165089012 Sample ID: TSP032123-07 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 6:36:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	1789660 L	1000 ug			16100 ug	9 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	1789660 L	98 ug			209 ug	0.117 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	1789660 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/20/23	1789660 L	98 ug			< 98 ug	< 0.055 ug/M3

Lab ID: B165089013 Sample ID: PM032123-08 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 2:45:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	580860 L	1000 ug			16100 ug	28 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: B165089014 Sample ID: TSP032123-09 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 2:45:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	549360	L	1000 ug			44600 ug	81 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	549360	L	98 ug			271 ug	0.493 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	549360	L	14 ug			15.3 ug	0.028 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/20/23	549360	L	98 ug			< 98 ug	< 0.178 ug/M3

Lab ID: B165089015 Sample ID: PM032123-10 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 2:57:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/15/23	614050	L	1000 ug			6300 ug	10 ug/M3

Lab ID: B165089016 Sample ID: TSP032123-11 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/8/2023 2:57:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/15/23	578650	L	1000 ug			11700 ug	20 ug/M3
Copper	40 CFR Part 50 Appendix G	06/20/23	578650	L	98 ug			< 98 ug	< 0.169 ug/M3
Lead	40 CFR Part 50 Appendix G	06/20/23	578650	L	14 ug			< 14 ug	< 0.024 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/20/23	578650	L	98 ug			< 98 ug	< 0.169 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]061323AIRE

B165089

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

Page 1 of 4

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	PM031223-44	A	06/06/2023	0637	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031223-45	A	06/06/2023	0637			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031223-46	A	06/06/2023	0630		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031223-47	A	06/06/2023	0630			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]	6/13/23	1300	FedEx	6/13/23	1300
			[redacted]	6/14/23	12:58

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/13/2023 / FEDEX / 7723 0782 4684

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

[redacted] 6/14/23 12:58 Custody Seals Intact

GES.Navy_COC_Field
May 31, 2023

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]061323AIRE

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	PM031223-48	A	06/07/2023	0635	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031223-49	A	06/07/2023	0635			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032123-02	A	06/07/2023	0629		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032123-03	A	06/07/2023	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]	6/13/23	1300	FedEx	6/13/23	1300
			[redacted]	6/14/23	12:58

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/13/2023 / FEDEX / 7723 0782 4684

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

[redacted] 6/14/23 12:58 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]061323AIRE

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	PM032123-04	A	06/08/2023	0644	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032123-05	A	06/08/2023	0644			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032123-06	A	06/08/2023	0636		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032123-07	A	06/08/2023	0636			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]	6/13/23	1300	Fedex	6/13/23	1300
			[redacted]	6/14/23	12:58

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/13/2023 / FEDEX / 7723 0782 4684

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

[redacted] 6/14/23 12:58 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]061323AIRE

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

Page 4 of 4

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	PM032123-08	A	06/08/2023	1445	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032123-09	A	06/08/2023	1445			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032123-10	A	06/08/2023	1457		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032123-11	A	06/08/2023	1457			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]	6/13/23	1300	FedEx	6/13/23	1300
			[redacted]	6/14/23	12:58

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/13/2023 / FEDEX / 7723 0782 4684

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

[redacted] 6/14/23 12:58 Custody Seals Intact

GES.Navy_COC_Field
May 31, 2023

CHAIN-OF-CUSTODY RECORD

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

GES

COC # [redacted]061323AIRE

Project Name: Hunters Point Shipyard, Parcel E RA Phase 2

Project Number: J310000400

WBS Code: J310000400-016

Event: Parcel E Phase 2 Air Monitoring

	Sample ID	Matrix	Time	Date	Comments
1	PM031223-44	A	0637	06/06/2023	VOLUME (M3): 1759.51
2	TSP031223-45	A	0637	06/06/2023	VOLUME (M3): 1661.73
3	PM031223-46	A	0630	06/06/2023	VOLUME (M3): 1779.03
4	TSP031223-47	A	0630	06/06/2023	VOLUME (M3): 1748.71
5	PM031223-48	A	0635	06/07/2023	VOLUME (M3): 1761.79
6	TSP031223-49	A	0635	06/07/2023	VOLUME (M3): 1666.36
7	PM032123-02	A	0629	06/07/2023	VOLUME (M3): 1785.14
8	TSP032123-03	A	0629	06/07/2023	VOLUME (M3): 1779.41
9	PM032123-04	A	0644	06/08/2023	VOLUME (M3): 1764.13
10	TSP032123-05	A	0644	06/08/2023	VOLUME (M3): 1669.47
11	PM032123-06	A	0636	06/08/2023	VOLUME (M3): 1795.71
12	TSP032123-07	A	0636	06/08/2023	VOLUME (M3): 1789.66
13	PM032123-08	A	1445	06/08/2023	VOLUME (M3): 580.86
14	TSP032123-09	A	1445	06/08/2023	VOLUME (M3): 549.36
15	PM032123-10	A	1457	06/08/2023	VOLUME (M3): 614.05
16	TSP032123-11	A	1457	06/08/2023	VOLUME (M3): 578.65

Turnaround Time: 5 days

Sample ID	Cubic Meter	Volume (L)
PM031223-44	1759.51	1759510
TSP031223-45	1661.73	1661730
PM031223-46	1779.03	1779030
TSP031223-47	1748.71	1748710
PM031223-48	1761.79	1761790
TSP031223-49	1666.36	1666360
PM032123-02	1785.14	1785140
TSP032123-03	1779.41	1779410
PM032123-04	1764.13	1764130
TSP032123-05	1669.47	1669470
PM032123-06	1795.71	1795710
TSP032123-07	1789.66	1789660
PM032123-08	580.86	580860
TSP032123-09	549.36	549360
PM032123-10	614.05	614050
TSP032123-11	578.65	578650
		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 #: B165089

Report Date: 6/20/2023

Batch ID: **ICP230615B** Analysis Date: 6/19/2023

Media:: **8X10PW GFF** Preparation Date 6/15/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP2	BLKSPK	Copper	97	98	75-125	1.0	25
LCS ICP2	BLKSPK	Lead	110	112	75-125	1.0	25
LCS ICP2	BLKSPK	Manganese	95	95	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
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Ashland, Va 23005
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AIHA LAP, LLC Accreditation ID 100531

June 26, 2023

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

Laboratory Workorder ID: B172035

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: June 21, 2023
Reported: June 26, 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: 06/21/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B172035001 Sample ID: PM032123-30 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/13/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	1755480 L	1000 ug			17500 ug	10 ug/M3

Lab ID: B172035002 Sample ID: TSP032123-31 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/13/2023 6:35:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	1657010 L	1000 ug			46000 ug	28 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	1657010 L	98 ug			1636 ug	0.9872 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	1657010 L	14 ug			18.13 ug	0.0109 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	1657010 L	98 ug			< 98 ug	< 0.0591 ug/M3

Lab ID: B172035003 Sample ID: PM032123-32 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/13/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	1787090 L	1000 ug			9000 ug	5 ug/M3

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

Final Report

Lab ID: B172035004 Sample ID: TSP032123-33 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/13/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	1777000 L	1000 ug			21900 ug	12 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	1777000 L	98 ug			158.6 ug	0.0892 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	1777000 L	14 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	1777000 L	98 ug			< 98 ug	< 0.0551 ug/M3

Lab ID: B172035005 Sample ID: PM032123-34 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/14/2023 6:34:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	1749470 L	1000 ug			38400 ug	22 ug/M3

Lab ID: B172035006 Sample ID: TSP032123-35 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/14/2023 6:34:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	1653170 L	1000 ug			98600 ug	60 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	1653170 L	98 ug			973.8 ug	0.589 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	1653170 L	14 ug			33.08 ug	0.02 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	1653170 L	98 ug			105.5 ug	0.0638 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: B172035007 Sample ID: PM032123-36 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/14/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	1770870 L	1000 ug			6000 ug	3 ug/M3

Lab ID: B172035008 Sample ID: TSP032123-37 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/14/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	1765830 L	1000 ug			17800 ug	10 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	1765830 L	98 ug			< 98 ug	< 0.0555 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	1765830 L	14 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	1765830 L	98 ug			< 98 ug	< 0.0555 ug/M3

Lab ID: B172035009 Sample ID: PM032123-38 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 6:31:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	989290 L	1000 ug			23500 ug	24 ug/M3

Lab ID: B172035010 Sample ID: TSP032123-39 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 6:31:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	936880 L	1000 ug			56000 ug	60 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: B172035010 Sample ID: TSP032123-39 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 6:31:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	936880 L	98 ug			427.7 ug	0.4565 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	936880 L	14 ug			16.27 ug	0.0174 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	936880 L	98 ug			< 98 ug	< 0.1046 ug/M3

Lab ID: B172035011 Sample ID: PM032123-40 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 6:23:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	1767330 L	1000 ug			16600 ug	9 ug/M3

Lab ID: B172035012 Sample ID: TSP032223-01 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 6:23:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	1766380 L	1000 ug			35500 ug	20 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	1766380 L	98 ug			114.2 ug	0.0647 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	1766380 L	14 ug			< 14 ug	< 0.0079 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	1766380 L	98 ug			< 98 ug	< 0.0555 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: B172035013 Sample ID: PM032223-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 2:15:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	560880	L	1000 ug			11400 ug	20 ug/M3

Lab ID: B172035014 Sample ID: TSP032223-03 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 2:15:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	532380	L	1000 ug			24300 ug	46 ug/M3
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	532380	L	98 ug			571.7 ug	1.074 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	532380	L	14 ug			< 14 ug	< 0.0263 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	532380	L	98 ug			< 98 ug	< 0.1841 ug/M3

Lab ID: B172035015 Sample ID: PM032223-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 2:07:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/22/23	571130	L	1000 ug			7100 ug	12 ug/M3

Lab ID: B172035016 Sample ID: TSP032223-05 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 2:07:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/22/23	567980	L	1000 ug			13900 ug	24 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: B172035016 Sample ID: TSP032223-05 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/15/2023 2:07:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Copper	40CFR50App.G Mod./EPA 6010B	06/23/23	567980 L	98 ug			115 ug	0.2024 ug/M3
Lead	40CFR50App.G Mod./EPA 6010B	06/23/23	567980 L	14 ug			< 14 ug	< 0.0246 ug/M3
Manganese	40CFR50App.G Mod./EPA 6010B	06/23/23	567980 L	98 ug			< 98 ug	< 0.1725 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]062023AIRE

B172035

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	PM032123-30	A	06/13/2023	0635	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032123-31	A	06/13/2023	0635			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032123-32	A	06/13/2023	0628		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032123-33	A	06/13/2023	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]	6/20/23	1600	FedEx	6/20/23	1600
			[redacted]	6/21/23	11:30

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/20/2023 / FEDEX / 7723 0854 5625

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

[redacted] 6/21/23 11:30 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]062023AIRE

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	PM032123-34	A	06/14/2023	0634	[redacted]		X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032123-35	A	06/14/2023	0634				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032123-36	A	06/14/2023	0626			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032123-37	A	06/14/2023	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]	6/20/23	1600	FedEx	6/20/23	1600
			[redacted]	6/21/23	11:30

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/20/2023 / FEDEX / 7723 0854 5625

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

[redacted] 6/21/23 11:30 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]062023AIRE

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.	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	PM032123-38	A	06/15/2023	0631	[redacted]	X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032123-39	A	06/15/2023	0631			X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032123-40	A	06/15/2023	0623		X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032223-01	A	06/15/2023	0623			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]	6/20/23	1600	FedEx	6/20/23	1600
			[redacted]	6/21/23	11:30

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/20/2023 / FEDEX / 7723 0854 5625

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

[redacted] 6/21/23 Custody 11:30 Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]062023AIRE

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	PM032223-02	A	06/15/2023	1415	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032223-03	A	06/15/2023	1415			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032223-04	A	06/15/2023	1407		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032223-05	A	06/15/2023	1407			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]	6/20/23	1600	FedEx	6/21/23	1600
			[redacted]	6/21/23	11:30

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/20/2023 / FEDEX / 7723 0854 5625

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

[redacted] 6/21/23 Custody
11:30 Seals Intact

COC # [redacted]062023AIRE

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	PM032123-30	A	06/13/2023	0635	VOLUME (M3): 1755.48
2	TSP032123-31	A	06/13/2023	0635	VOLUME (M3): 1657.01
3	PM032123-32	A	06/13/2023	0628	VOLUME (M3): 1787.09
4	TSP032123-33	A	06/13/2023	0628	VOLUME (M3): 1777.00
5	PM032123-34	A	06/14/2023	0634	VOLUME (M3): 1749.47
6	TSP032123-35	A	06/14/2023	0634	VOLUME (M3): 1653.17
7	PM032123-36	A	06/14/2023	0626	VOLUME (M3): 1770.87
8	TSP032123-37	A	06/14/2023	0626	VOLUME (M3): 1765.83
9	PM032123-38	A	06/15/2023	0631	VOLUME (M3): 989.29
10	TSP032123-39	A	06/15/2023	0631	VOLUME (M3): 936.88
11	PM032123-40	A	06/15/2023	0623	VOLUME (M3): 1767.33
12	TSP032223-01	A	06/15/2023	0623	VOLUME (M3): 1766.38
13	PM032223-02	A	06/15/2023	1415	VOLUME (M3): 560.88
14	TSP032223-03	A	06/15/2023	1415	VOLUME (M3): 532.38
15	PM032223-04	A	06/15/2023	1407	VOLUME (M3): 571.13
16	TSP032223-05	A	06/15/2023	1407	VOLUME (M3): 567.98

Sample ID	Cubic Meter	Volume (L)
PM032123-30	1755.48	1755480
TSP032123-31	1657.01	1657010
PM032123-32	1787.09	1787090
TSP032123-33	1777	1777000
PM032123-34	1749.47	1749470
TSP032123-35	1653.17	1653170
PM032123-36	1770.87	1770870
TSP032123-37	1765.83	1765830
PM032123-38	989.29	989290
TSP032123-39	936.88	936880
PM032123-40	1767.33	1767330
TSP032223-01	1766.38	1766380
PM032223-02	560.88	560880
TSP032223-03	532.38	532380
PM032223-04	571.13	571130
TSP032223-05	567.98	567980
		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 #: B172035

Report Date: 6/26/2023

Batch ID:	**ICP230622A**	Analysis Date:	6/23/2023
Media::	**8X10PW GFF**	Preparation Date	6/22/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	91	88	75-125	2.0	25
LCS ICP23	BLKSPK	Lead	104	100	75-125	3.0	25
LCS ICP23	BLKSPK	Manganese	88	85	75-125	3.0	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

July 5, 2023

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

Laboratory Workorder ID: B179013

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: June 28, 2023
Reported: July 5, 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: 06/28/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B179013001 Sample ID: PM032423-20 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/20/2023 6:39:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	1704110 L	1000 ug			71600 ug	42 ug/M3

Lab ID: B179013002 Sample ID: TSP032423-21 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/20/2023 6:39:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	1609810 L	1000 ug			128000 ug	79 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	1609810 L	98 ug			794 ug	0.493 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	1609810 L	14 ug			28.1 ug	0.017 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/30/23	1609810 L	98 ug			< 98 ug	< 0.061 ug/M3

Lab ID: B179013003 Sample ID: PM032423-22 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/20/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	1719180 L	1000 ug			55900 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: B179013004 Sample ID: TSP032423-23 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/20/2023 6:29:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	1717070 L	1000 ug			85400 ug	50 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	1717070 L	98 ug			248 ug	0.144 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	1717070 L	14 ug			18.6 ug	0.011 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/30/23	1717070 L	98 ug			< 98 ug	< 0.057 ug/M3

Lab ID: B179013005 Sample ID: PM032223-24 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/21/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	1766380 L	1000 ug			48500 ug	27 ug/M3

Lab ID: B179013006 Sample ID: TSP032223-25 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/21/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	1670950 L	1000 ug			94300 ug	56 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	1670950 L	98 ug			1110 ug	0.663 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	1670950 L	14 ug			21.1 ug	0.013 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/30/23	1670950 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B179013007 Sample ID: PM032223-26 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/21/2023 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: B179013007 Sample ID: PM032223-26 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/21/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	1734330 L	1000 ug			30500 ug	18 ug/M3

Lab ID: B179013008 Sample ID: TSP032223-27 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/21/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	1733560 L	1000 ug			61000 ug	35 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	1733560 L	98 ug			267 ug	0.154 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	1733560 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/30/23	1733560 L	98 ug			< 98 ug	< 0.057 ug/M3

Lab ID: B179013009 Sample ID: PM032223-28 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	1766810 L	1000 ug			32400 ug	18 ug/M3

Lab ID: B179013010 Sample ID: TSP032223-29 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	1671590 L	1000 ug			70400 ug	42 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	1671590 L	98 ug			955 ug	0.572 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	1671590 L	14 ug			15.2 ug	0.009 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: B179013010 Sample ID: TSP032223-29 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 6:33:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	06/30/23	1671590 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B179013011 Sample ID: PM032223-30 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	1771060 L	1000 ug			23200 ug	13 ug/M3

Lab ID: B179013012 Sample ID: TSP032423-01 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	1754750 L	1000 ug			46300 ug	26 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	1754750 L	98 ug			113 ug	0.065 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	1754750 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/30/23	1754750 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B179013013 Sample ID: PM032423-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 2:35:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	592890 L	1000 ug			12000 ug	20 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: B179013014 Sample ID: TSP032423-03 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 2:35:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	592960	L	1000 ug			25100 ug	42 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	592960	L	98 ug			520 ug	0.877 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	592960	L	14 ug			< 14 ug	< 0.024 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/30/23	592960	L	98 ug			< 98 ug	< 0.165 ug/M3

Lab ID: B179013015 Sample ID: PM032423-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 2:22:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	06/29/23	580620	L	1000 ug			10500 ug	18 ug/M3

Lab ID: B179013016 Sample ID: TSP032423-05 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/22/2023 2:22:00 PM

Analyte	Method	Analysis Date	Volume		Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	06/29/23	578560	L	1000 ug			16700 ug	29 ug/M3
Copper	40 CFR Part 50 Appendix G	06/30/23	578560	L	98 ug			< 98 ug	< 0.169 ug/M3
Lead	40 CFR Part 50 Appendix G	06/30/23	578560	L	14 ug			< 14 ug	< 0.024 ug/M3
Manganese	40 CFR Part 50 Appendix G	06/30/23	578560	L	98 ug			< 98 ug	< 0.169 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

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

COC # [redacted]062723AIRE

B179013

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:
Please return coolers to [redacted] 200 Fisher Ave; San Francisco, CA 94124

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	PM032423-20	A	06/20/2023	0639	[redacted]		X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032423-21	A	06/20/2023	0639				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032423-22	A	06/20/2023	0629			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032423-23	A	06/20/2023	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]	6/27/23	1200	Fedex	6/27/23	1200
			[redacted]	6/28/23	11:20

Shipping Date / Carrier / Airbill Number
Shipping Date: 6/27/2023 / FEDEX / 7723 0896 7789

Received by Laboratory: *(Signature, Date, Time)* **& condition**
[redacted] 6/28/23 Custody
11:20 Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]062723AIRE

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: Stephanie Stimpson Stephanie.Stimson@ET.EurofinsUS.com	
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	PM032223-24	A	06/21/2023	0633	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032223-25	A	06/21/2023	0633			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032223-26	A	06/21/2023	0626		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032223-27	A	06/21/2023	0626			X	X	AMSE2	N1	0.00	0.00	1	VOLUME (M3):

Turnaround Time: 5 days

[redacted] 6/27/23

[redacted] 6/27/23

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
[redacted]	6/27/23	1200	Fedex	6/27/23	1200
			[redacted]	6/28/23	11:20

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/27/2023 / FEDEX / 7723 0896 7789

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

[redacted] 6/28/23 Custody
11:20 Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]062723AIRE

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					**Analytical Test Method**	CAAIR - Air PM10	N0500 - Air TSP	SW6010B - Air Pb Mn Cu												
							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	PM032223-28	A	06/22/2023	0633	[redacted]		X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032223-29	A	06/22/2023	0633				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032223-30	A	06/22/2023	0626			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032423-01	A	06/22/2023	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]	6/27/23	1200	Fedex	6/27/23	1200
			[redacted]	6/28/23	11:20

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/27/2023 / FEDEX / 7723 0896 7789

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

[redacted] 6/28/23 11:20 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]062723AIRE

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			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	PM032423-02	A	06/22/2023	1435	CA		X			[redacted] 6/27/23		AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP032423-03	A	06/22/2023	1435	CA			X	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM032423-04	A	06/22/2023	1422	CA		X					AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP032423-05	A	06/22/2023	1422	CA			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]	6/27/23	1200	FedEx	6/27/23	1200
			[redacted]	6/28/23	11:20

Shipping Date / Carrier / Airbill Number

Shipping Date: 6/27/2023 / FEDEX / 7723 0896 7789

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

[redacted] 6/28/23 Custody
11:20 Seals Intact

COC # [redacted]062723AIRE

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	PM032423-20	A	06/20/2023	0639	VOLUME (M3): 1704.11
2	TSP032423-21	A	06/20/2023	0639	VOLUME (M3): 1609.81
3	PM032423-22	A	06/20/2023	0629	VOLUME (M3): 1719.18
4	TSP032423-23	A	06/20/2023	0629	VOLUME (M3): 1717.07
5	PM032223-24	A	06/21/2023	0633	VOLUME (M3): 1766.38
6	TSP032223-25	A	06/21/2023	0633	VOLUME (M3): 1670.95
7	PM032223-26	A	06/21/2023	0626	VOLUME (M3): 1734.33
8	TSP032223-27	A	06/21/2023	0626	VOLUME (M3): 1733.56
9	PM032223-28	A	06/22/2023	0633	VOLUME (M3): 1766.81
10	TSP032223-29	A	06/22/2023	0633	VOLUME (M3): 1671.59
11	PM032223-30	A	06/22/2023	0626	VOLUME (M3): 1771.06
12	TSP032423-01	A	06/22/2023	0626	VOLUME (M3): 1754.75
13	PM032423-02	A	06/22/2023	1435	VOLUME (M3): 592.89
14	TSP032423-03	A	06/22/2023	1435	VOLUME (M3): 592.96
15	PM032423-04	A	06/22/2023	1422	VOLUME (M3): 580.62
16	TSP032423-05	A	06/22/2023	1422	VOLUME (M3): 578.56

Sample ID	Cubic Meter	Volume (L)
PM032423-20	1704.11	1704110
TSP032423-21	1609.81	1609810
PM032423-22	1719.18	1719180
TSP032423-23	1717.07	1717070
PM032223-24	1766.38	1766380
TSP032223-25	1670.95	1670950
PM032223-26	1734.33	1734330
TSP032223-27	1733.56	1733560
PM032223-28	1766.81	1766810
TSP032223-29	1671.59	1671590
PM032223-30	1771.06	1771060
TSP032423-01	1754.75	1754750
PM032423-02	592.89	592890
TSP032423-03	592.96	592960
PM032423-04	580.62	580620
TSP032423-05	578.56	578560
		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 #: B179013

Report Date: 7/5/2023

Batch ID:	**ICP230629B**	Analysis Date:	6/30/2023
Media::	**8X10PW GFF**	Preparation Date	6/29/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	95	93	75-125	2.0	25
LCS ICP23	BLKSPK	Lead	98	98	75-125	0.0	25
LCS ICP23	BLKSPK	Manganese	91	90	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

July 13, 2023

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

Laboratory Workorder ID: B187095

Client Project ID: J310000400 PARCEL E HUNTERS PT
Received: July 6, 2023
Reported: July 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: 07/06/23
Client Project ID J310000400 PARCEL E HUNTERS PT

Lab ID: B187095001 Sample ID: PM031623-02 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/27/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	1780580 L	1000 ug			18000 ug	10 ug/M3

Lab ID: B187095002 Sample ID: TSP031623-03 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/27/2023 6:32:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	1683710 L	1000 ug			37700 ug	22 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	1683710 L	98 ug			1280 ug	0.761 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	1683710 L	14 ug			20.2 ug	0.012 ug/M3
Manganese	40 CFR Part 50 Appendix G	07/12/23	1683710 L	98 ug			< 98 ug	< 0.058 ug/M3

Lab ID: B187095003 Sample ID: PM031623-04 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/27/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	1739620 L	1000 ug			12500 ug	7 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: B187095004 Sample ID: TSP031623-05 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/27/2023 6:26:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	1738190 L	1000 ug			26900 ug	15 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	1738190 L	98 ug			113 ug	0.065 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	1738190 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	07/12/23	1738190 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B187095005 Sample ID: PM031623-06 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/28/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	1763360 L	1000 ug			21500 ug	12 ug/M3

Lab ID: B187095006 Sample ID: TSP031623-07 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/28/2023 6:28:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	1667680 L	1000 ug			50600 ug	30 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	1667680 L	98 ug			759 ug	0.455 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	1667680 L	14 ug			19.6 ug	0.012 ug/M3
Manganese	40 CFR Part 50 Appendix G	07/12/23	1667680 L	98 ug			< 98 ug	< 0.059 ug/M3

Lab ID: B187095007 Sample ID: PM031623-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/28/2023 6:21:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration

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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: B187095007 Sample ID: PM031623-08 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/28/2023 6:21:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	1728970 L	1000 ug			8700 ug	5 ug/M3

Lab ID: B187095008 Sample ID: TSP031623-09 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/28/2023 6:21:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	1742260 L	1000 ug			17100 ug	10 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	1742260 L	98 ug			101 ug	0.058 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	1742260 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	07/12/23	1742260 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B187095009 Sample ID: PM031623-10 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 6:43:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	1787950 L	1000 ug			19800 ug	11 ug/M3

Lab ID: B187095010 Sample ID: TSP031623-11 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 6:43:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	1691130 L	1000 ug			51300 ug	30 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	1691130 L	98 ug			1010 ug	0.596 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	1691130 L	14 ug			24.9 ug	0.015 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: B187095010 Sample ID: TSP031623-11 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 6:43:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Manganese	40 CFR Part 50 Appendix G	07/12/23	1691130 L	98 ug			< 98 ug	< 0.058 ug/M3

Lab ID: B187095011 Sample ID: PM031623-12 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 6:36:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	1752540 L	1000 ug			6700 ug	4 ug/M3

Lab ID: B187095012 Sample ID: TSP031623-13 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 6:36:00 AM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	1754190 L	1000 ug			17100 ug	10 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	1754190 L	98 ug			186 ug	0.106 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	1754190 L	14 ug			< 14 ug	< 0.008 ug/M3
Manganese	40 CFR Part 50 Appendix G	07/12/23	1754190 L	98 ug			< 98 ug	< 0.056 ug/M3

Lab ID: B187095013 Sample ID: PM031623-14 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 12:26:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	417080 L	1000 ug			8200 ug	20 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: B187095014 Sample ID: TSP031623-15 AMSE1 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 12:26:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	397940 L	1000 ug			20300 ug	51 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	397940 L	98 ug			520 ug	1.31 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	397940 L	14 ug			< 14 ug	< 0.035 ug/M3
Manganese	40 CFR Part 50 Appendix G	07/12/23	397940 L	98 ug			< 98 ug	< 0.246 ug/M3

Lab ID: B187095015 Sample ID: PM031623-16 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 12:13:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
PM10 Particulates	40CFR50 App.J	07/07/23	406480 L	1000 ug			4600 ug	11 ug/M3

Lab ID: B187095016 Sample ID: TSP031623-17 AMSE2 Media: 8X10 PREWEIGHED GLASS Sample Date: 6/29/2023 12:13:00 PM

Analyte	Method	Analysis Date	Volume	Reporting Limit	Front	Rear	Total	Concentration
Total Suspended Particulates	40CFR50 App.B	07/07/23	404000 L	1000 ug			8700 ug	22 ug/M3
Copper	40 CFR Part 50 Appendix G	07/12/23	404000 L	98 ug			127 ug	0.314 ug/M3
Lead	40 CFR Part 50 Appendix G	07/12/23	404000 L	14 ug			< 14 ug	< 0.035 ug/M3
Manganese	40 CFR Part 50 Appendix G	07/12/23	404000 L	98 ug			< 98 ug	< 0.243 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]070523AIRE

B187095

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

Page 1 of 4

	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	PM031623-02	A	06/27/2023	0632	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031623-03	A	06/27/2023	0632			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031623-04	A	06/27/2023	0626		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031623-05	A	06/27/2023	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]	7/5/23	1300	FedEx	7/5/23	1300
			[redacted]	7/6/23	13:45

Shipping Date / Carrier / Airbill Number

Shipping Date: 7/5/2023 / FEDEX / 7724 3175 0219

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

[redacted] 7/6/23 13:45 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]070523AIRE

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	PM031623-06	A	06/28/2023	0628	[redacted]		X									AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031623-07	A	06/28/2023	0628				X	X							AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031623-08	A	06/28/2023	0621			X									AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031623-09	A	06/28/2023	0621				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]	7/5/23	1300	FedEx	7/5/23	1300
			[redacted]	7/6/23	13:45

Shipping Date / Carrier / Airbill Number

Shipping Date: 7/5/2023 / FEDEX / 7724 3175 0219

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

[redacted] 7/6/23 13:45 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]070523AIRE

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

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	1	1						
1	PM031623-10	A	06/29/2023	0643	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031623-11	A	06/29/2023	0643			X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031623-12	A	06/29/2023	0636		X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031623-13	A	06/29/2023	0636			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]	7/5/23	1300	FedEx	7/5/23	1300
			[redacted]	7/6/23	13:45

Shipping Date / Carrier / Airbill Number

Shipping Date: 7/5/2023 / FEDEX / 7724 3175 0219

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

[redacted] 7/6/23 13:45 Custody Seals Intact

CHAIN-OF-CUSTODY RECORD

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

COC # [redacted]070523AIRE

GES
AN AECOM 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	PM031623-14	A	06/29/2023	1226	[redacted]	X			AMSE1	N1	0.00	0.00	1	VOLUME (M3):
2	TSP031623-15	A	06/29/2023	1226	[redacted]		X	X	AMSE1	N1	0.00	0.00	1	VOLUME (M3):
3	PM031623-16	A	06/29/2023	1213	[redacted]	X			AMSE2	N1	0.00	0.00	1	VOLUME (M3):
4	TSP031623-17	A	06/29/2023	1213	[redacted]		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]	7/5/23	1300	FedEx	7/5/23	1300
			[redacted]	7/6/23	13:45

Shipping Date / Carrier / Airbill Number

Shipping Date: 7/5/2023 / FEDEX / 7724 3175 0219

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

[redacted] 7/6/23 13:45 Custody Seals Intact

COC #[redacted]070523AIRE

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	PM031623-02	A	06/27/2023	0632	VOLUME (M3): 1780.58
2	TSP031623-03	A	06/27/2023	0632	VOLUME (M3): 1683.71
3	PM031623-04	A	06/27/2023	0626	VOLUME (M3): 1739.62
4	TSP031623-05	A	06/27/2023	0626	VOLUME (M3): 1738.19
5	PM031623-06	A	06/28/2023	0628	VOLUME (M3): 1763.36
6	TSP031623-07	A	06/28/2023	0628	VOLUME (M3): 1667.68
7	PM031623-08	A	06/28/2023	0621	VOLUME (M3): 1728.97
8	TSP031623-09	A	06/28/2023	0621	VOLUME (M3): 1742.26
9	PM031623-10	A	06/29/2023	0643	VOLUME (M3): 1787.95
10	TSP031623-11	A	06/29/2023	0643	VOLUME (M3): 1691.13
11	PM031623-12	A	06/29/2023	0636	VOLUME (M3): 1752.54
12	TSP031623-13	A	06/29/2023	0636	VOLUME (M3): 1754.19
13	PM031623-14	A	06/29/2023	1226	VOLUME (M3): 417.08
14	TSP031623-15	A	06/29/2023	1226	VOLUME (M3): 397.94
15	PM031623-16	A	06/29/2023	1213	VOLUME (M3): 406.48
16	TSP031623-17	A	06/29/2023	1213	VOLUME (M3): 404.00

Sample ID	Cubic Meter	Volume (L)
PM031623-02	1780.58	1780580
TSP031623-03	1683.71	1683710
PM031623-04	1739.62	1739620
TSP031623-05	1738.19	1738190
PM031623-06	1763.36	1763360
TSP031623-07	1667.68	1667680
PM031623-08	1728.97	1728970
TSP031623-09	1742.26	1742260
PM031623-10	1787.95	1787950
TSP031623-11	1691.13	1691130
PM031623-12	1752.54	1752540
TSP031623-13	1754.19	1754190
PM031623-14	417.08	417080
TSP031623-15	397.94	397940
PM031623-16	406.48	406480
TSP031623-17	404	404000
		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 #: B187095

Report Date: 7/13/2023

Batch ID: **ICP230705B** Analysis Date: 7/12/2023

Media:: **8X10PW GFF** Preparation Date 7/5/2023

Blank Spike Results

			Percent Recovery				
QC ID	QC Type	Parameter	LCS	LCSD	Acceptance	RPD	Limit
LCS ICP23	BLKSPK	Copper	95	93	75-125	2.0	25
LCS ICP23	BLKSPK	Lead	109	106	75-125	1.0	25
LCS ICP23	BLKSPK	Manganese	96	96	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